

# MASTER OF SCIENCE IN FINANCE

# MASTERS FINAL WORK PROJECT

EQUITY RESEARCH:

EXXONMOBIL CORPORATION

ANTÓNIO MANUEL FIRMINO CALAPEZ CORREIA



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**SUPERVISOR:** 

VICTOR MAURÍLIO SILVA BARROS

OCTOBER 2021

# **Abstract**

ExxonMobil Corporation ("ExxonMobil" or Company"") is the largest public Integrated Oil Company in the world and is involved in i) the exploration and production of crude oil and natural gas; ii) refining and marketing of petroleum products; and, iii) manufacturing and marketing of commodity petrochemicals.

This report issues a HOLD recommendation for ExxonMobil, with a 2022YE PT of \$75.5/Share, using a DCF model, representing an upside potential of 20% in 18 months (IRR 12.7%), against the closing price of \$63.08/Share, as of 30th June 2021, however, with a High Risk.

The company's recommendation is mainly explained by: i) the Capital discipline; ii) the strong portfolio, with attractive economics; and, iii) significant proved reserves. However, ExxonMobil's stock is trading at a discount mostly due to: i) exposure to high volatility in oil & gas prices; ii) uncertainty in global economic growth, following the pandemic economic crisis; and, iii) ambiguity over the industry energy transition and ExxonMobil's controversial environment issues and historical position.

ExxonMobil's valuation was performed using the FCFF model (Integrated and Sum of the Parts approaches) and complemented with other absolute methods, including FTE, CCF, DDM and NAV.

The Company valuation is subject to significant risks. Besides the high sensitiveness to commodities price changes, energy transition is a major threat to ExxonMobil's operations. Nevertheless, the Company is increasing its resilience, significantly investing in the development of CCS, fuels cells, hydrogen and biofuels, mitigating energy transition risks.

However, reservations remain among activist shareholders considering ExxonMobil's environmental controversies and low ESG scores, which suggest that further efforts must be made by the Company to address these issues.

JEL classification: G00; G10; G30; G32; G34; G35.

Keywords: ExxonMobil Corporation; Oil & Gas; Equity Research; Valuation; M&A.

# Resumo

A ExxonMobil *Corporation* ("ExxonMobil ou "Empresa") é a maior empresa cotada de *oil & gas* totalmente integrada a nível mundial cujas principais actividades incluem i) prospecção, pesquisa e produção de petróleo e gás natural; iii) refinação e *marketing* de produtos petrolíferos; e, iii) produção e comercialização de produtos petroquímicos.

Neste relatório é emitido uma recomendação de MANTER para a ExxonMobil, com um preço alvo de \$75,5/acção no final de 2022, o que representa uma valorização potencial de 20% em 18 meses (TIR de 12.7%), face ao preço de fecho de \$63,08/acção, a 30 de Junho de 2021, mas com risco elevado.

A recomendação da empresa é essencialmente explicada por: i) uma estratégia de disciplina no investimento; ii) forte carteira com rentabilidades atractivas; e, iii) reservas provadas significativas. Não obstante, as acções da ExxonMobil estão a ser transaccionadas a desconto, sendo maioritariamente explicado por; i) alta volatilidade dos preços do petróleo e gás natural; ii) incerteza relativamente ao crescimento económico mundial; e, iii) ambiguidade sobre a transição energética do sector e a controversa posição histórica da Empresa sobre estas matérias, em particular sobre temas ambientais.

A avaliação da ExxonMobil foi efectuada através do modelo FCFF (seguindo uma abordagem integrada bem como da soma de todas as partes) que foi complementada com outros métodos absolutos, nomeadamente, FTE, CCF, DDM e NAV.

Esta avaliação encontra-se sujeita a vários riscos significativos. Para além da elevada sensibilidade às alterações dos preços das *commodities*, a transição energética representa uma ameaça significativa às operações da ExxonMobil. Contudo, a ExxonMobil encontra-se a reforçar a sua resiliência, investindo significativamente no desenvolvimento de novas tecnologias para mitigar os riscos da transição energética, nomeadamente, CCS, células de combustível, hidrogénio e biocombustíveis.

No entanto, reservas permanecem entre os accionistas activistas, atendendo às controvérsias ambientais da ExxonMobil e as baixas pontuações nos índices ESG, o que sugere que deverão ser realizados esforços adicionais por parte da Empresa, de modo a endereçar estes temas.

Classificação JEL: G00; G10; G30; G32; G34; G35.

Keywords: ExxonMobil Corporation; *Oil & Gas*; *Equity Research*; Avaliação de Empresas; M&A; Fusões e aquisições.

# **Acknowledgements**

Patience.

Patience in accomplishing a long-time goal, where a lot of hard work and dedication was given.

Patience from the love of my life, Tânia, who, with endurance and persistence, supported me in this goal.

Patience from the "cousins", who know the turns and curves needed to reach this destination, occasionally listening radio silence, along the way.

Patience from the remaining family, my grandmother, sisters, cousins, aunts, and uncles for also listening the same radio station sometimes.

Patience from my dearest friends, who, no matter which frequency is on, know I am there in heart and mind. A particular note to Sérgio and Pedro, who, patiently, helped a lot in this journey. Success was only possible working together.

Patience from Professor Victor Barros, who was always available, providing insightful feedback.

To all, thank you.

# **Disclaimer & Disclosures**

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Recomendation System Scale						
Level of		Inves	tment recomend	lation		
Risk	Sell	Reduce	Hold	Buy	Strong Buy	
Low risk	≤-10%	> -10% ∩ ≤ 0%	> 0% ∩ ≤10%	> 10% ∩ ≤20%	> 20%	
Medium Risk	≤ 5%	> 5% ∩ ≤ 5%	> 5% ∩ ≤15%	> 15% ∩ ≤30%	> 30%	
High Risk	≤ 0%	> 0% ∩ ≤ 10%	> 10% ∩ ≤20%	> 20% ∩ ≤45%	> 45%	

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# Glossary

	¢ UCD	I heite d Otatas Dallan		BAOA	Manager and Amiritians
_	\$ or USD	United States Dollar	IVI	M&A	Mergers and Aquisitions
<u>A</u>	APV	Adjusted Present Value		MBbls (/d)	Thousand(s) Barrels (per day)
В	B (/d)	Oil Barrel(s) (per day)		MBboe (/d)	Thousand(s) Barrel of oil equivalent (per day)
	BBboe (/d)	Billion(s) barrel of oil equivalent (per day)		MBtu	Metric Thousand(s) British Thermal Unit
	Bbls (/d)	Oil Barrels (per day)		MBV	Multiples Based Valuation
	BBtu	Metric Billion British Thermal Unit		Mcf (/d)	Thousand(s) of cubic feet daily (per day)
	BEV	Battery electric vehicles		MMB (/d)	Million(s) Barrels (per day)
	Bn	Billion(s) (as in "\$Bn")		MMBboe (/d)	Million(s) Barrel of oil equivalent (per day)
	Boe (/d)	Barrel of oil equivalent (per day)		MMBtu	Metric Million(s) British Thermal Unit
С	CAGR	Compound Annual Grow th Rate		MMcf (/d)	Million(s) of cubic feet daily (per day)
	CAPEX	Capital expenditures		MMT(A)	Million(s) Tonnes (per Annum)
	CAPM	Capital Asset Pricing Model		MMtoe (/d)	Million(s) Tonnes of oil equivalent (per day)
	CCF	Capital Cash Flow		Mn	Million(s) (as in "\$'Mn")
	ccs	Carbon Capture and Storage		MT(A)	Thousand(s) Tonnes (per Annum)
	CDS	Company Default Spread	N	NAV	Net Asset Value
	CEO	Chief Executive Officer		NCI	Non-Controling Interests
	CETR	Cash Effective Tax Rate		NEO	Named Executive Officer
	Cf(d)	Cubic feet (per day)		NGL	Natural Gas Liquids
	CFO	Cash flow from operating activities		NOA	Non operating Assets
	CO2	Carbon dioxide		NOC	National Oil Company
	CPS	Current Policies Scenario		NOPAT	Net Operating Profit After Tax
	CRP	Country Risk Premium		NWC	Net Working Capital
_	CVX	Chevron	0	OECD	Organisation for Economic Cooperation and Development
D	D	Debt		OPEC	Organization of the Petroleum Exporting Countries
	DACF	Debt-Adjusted Cash Flow		OPEX	Operational expenditures
	DCF	Discounted Cash Flow	P	Р	Price (as in P / S)
	DDM	Dividend Discount Model		PD	Proved Developed Reserves
	DIO	Days Inventory Outstanding		PER	Price Earnings Ratio
	DPO	Days Payable Outstanding		POC	Public Oil Company
	DPS	Dividend per Share		PT	Price Target
	DRM	Default Risk Model	R	R&D	Research and Development
	DSO	Days Sales Outstanding		R&M	Refining & Marketing
Е	Е	Equity		RDSA	Royal Dutch Shell
	E&P	Exploration & Production		RFR	Risk free rate
	EBIT	Earnings Before Interest and Taxes		ROA	Return on Assets
	EBITDA	Earnings Before Interest, Taxes, Depreciation and Amortization		ROCE	Return on Average Capital Employed
	<b>EBITDAX</b>	EBITDA and Exploration Expenses		ROE	Return on Equity
	EIA	U.S. Energy Information Administration		ROIC	Return on Invested Capital
	EIU	Economist Intelligence Unit	S	S	Sales (as in P/S)
	EPS	Earnings per Share		SARD	Sum of Absolute Rank Diference
	ERP	Equity Risk Premium		SDS	Sustainable Development Scenario
	ESG	Environmental, Social, and Governance		SG&A	Selling, General & Administrative expenses
	EV	Enterprise Value		SoP	Sum of the Parts (valuation approach)
	EV	Electric vehicle		SMR	Steam Methane Reforming
F	F	Forecast (as in 2021F)		STEPS	Stated Policies Scenario
	F&D	Finding and Development	Т	t	Corporate tax rate
	FCFE	Free Cash Flow to Equity		Tn	Trillion (as in \$'Tn)
	FCFF	Free Cash Flow to the Firm		TSR	Total Shareholder Return
	FCV	Fuel cell vehicles		TTE	TotalEnergies, SA
	FY	Fiscal Year (as in FY2020)		TTM	Trailing Tw elve Months
G	G	Long-run sustainable growth rate		TV	Terminal Value
	GDP	Gross Domestic Product	U	US	The United States of America
	GHG	Greenhouse Gas		UK	The United Kingdom
	GtCO2eq	Gigatonnes of equivalent carbon dioxide		UN	United Nations Organization
	GWh	Gigaw att(s) hours	W	WACC	Weighted Average Cost of Capital
Н	HEV	Hydrogen electric vehicle		WC	Working Capital
T	ICE	Internal combustion engine		WEO	World Economic Outlook
	IEA	International Energy Agency		WTI	West Texas Intermediate
	IMF	International Monetary Fund	X	XOM	ExxonMobil Corporation
	IOC	Integrated Oil Company	Υ	YE	Year End (as in 2020YE)
L	lb	Pound		YoY	Year-over-year
_	LNG	Liquified Natural Gas		YTD	Yield-to-Date



Ticker: XOM Current Price: \$ 63.08 (30/06/2021)

<u>Target Price:</u> \$ 75.5 / Share (31/12/2022) Recommendation: **HOLD** 

Upside Potential:
↑ 20%
(IRR:12.7%)

<u>Level of Risk:</u> High

# ExxonMobil: Leverage capital discipline while preserving dividends

# 1. Research Snapshot

ExxonMobil has a **HOLD recommendation**, with a **2022YE PT of \$75.5/Sh.**, using a DCF model, representing an **annualized upside potential of 12.7%** against the **closing price of \$63.08/Sh.**, as of 30<sup>th</sup> June 2021, however, with a **High Risk**.

ExxonMobil's integrated business model is characterized by i) a strategy of capital discipline; ii) strong portfolio with attractive economics; and, iii) significant proved reserves, that provides long-term value to shareholders, in a business with high exposure to commodities price.

#### Preserving dividends...

Despite the impact of the pandemic crisis in the Company's revenues and cash-flows, in contrast to European supermajors, **ExxonMobil did not cut dividends**, partly due to high retail ownership, maintaining the \$3.48/Sh.

... through significant growth in leverage and decline of capital expenditures

However, these dividends were not paid with organic cash-flows. To commit to its dividend policy, ExxonMobil had to increase the interest-bearing debt by 44% YoY in 2020, to \$67.6Bn. The Company had also to cut 2020 capital spending by 31% YoY to \$21.4Bn. However, assuming a 2020-25F 24% CAGR in CFO, the Company ensures sustainable organic growth with an implied dividend coverage ratio of 1.06x and a payout ratio of 81%.

A strategy of Low Carbon Solutions was defined...

In the long-term, crude oil is expected to remain the prevailing fuel and natural gas will be the fastest-growing fossil fuel. However, in mature markets, renewables will be a growing energy source and dependency on fossil fuels will erode. Nevertheless, the Company is significantly investing in developing breakthrough energy efficiency processes related to CCS, fuels cells, hydrogen and biofuels, mitigating the energy transition risks.

... but reservations remain among activist shareholders

ExxonMobil has a **good individual environmental score**, regarding ESG, compared to other supermajors. However, paradoxically, several environmental **controversies** adversely impact the **Refinitiv ESG combined score** and the Company ranks in the **worst position among supermajors**, as well as the **worst quartile among the integrated oil industry**. Further efforts to mitigate ESG environmental controversies must be made by the Company, to address the concerns of **activist shareholders**.

However, commodities price remains the major key value driver

The base case assumes a long-term Brent price of \$55/Bbl. However, changes in crude oil prices might reassess the Company valuation.

Table 3 – PT sensitivity (\$/Share) to Brent Price (\$/Bbl.)

Oil Price 2025F	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0
Price Target	41.5	48.3	55.1	61.9	68.7	75.5	82.3	89.1	96.0	102.8	109.6
Ann. Upside Potential	-24%	-16%	-9%	-1%	6%	12.7%	19%	26%	32%	38%	45%

Source: Author Analysis

 Market cap (\$'Mn)
 267,052

 Free float (%)
 99.8%

 No. shares outstanding (#'Mn)
 4,233

 YTD performance (%)
 34.7%

 52-week range (\$/Share)
 \$31.6 - \$64.7



Source: Author Analysis and Refinitiv

Table 1 - Financial Highlights

	<u> 2020</u>	<u> 2022F</u>	2025F
Revenues (\$'Bn)	178.6	287.2	254.8
EBITDA (\$'Bn)	18.3	43.8	49.9
EBITDA Mg. (%)	10.2%	15.2%	19.6%
Net Income (\$'Bn)	(22.4)	18.1	20.6
Net income Mg. (%) (	12.5%)	6.3%	9.0%
CFO (\$'Bn)	14.7	35.8	43.3
CAPEX (\$'Bn)	21.4	21.0	27.3
Int. Bear. Debt (\$'Bn)	67.6	79.9	74.5
Debt Ratio (%)	20.3%	39.6%	39.5%
Debt/EBITDA (x)	0.20	3.31	2.79
Book Debt/Equity (%)	43%	53%	44%
ROCE (%)	(1.4%)	6.8%	9.6%
	12.9%)	12.3%	12.3%
Daily Prod.(MMboe/d)	3.76	3.72	4.14
Ref. Tput (MMbls/d)	3.78	4.10	4.38
Pet. Sales (MMbls/d)	4.90	5.41	5.63
Chem. Sales (MT)	25.5	26.9	34.8

2020

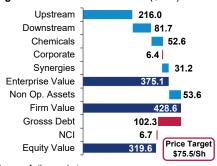
2022E

20255

Table 2 - ExxonMobil's dividend policy

	<u>2020</u>	2022F	2025F
DPS	3.48	3.48	3.90
EPS	(5.25)	4.24	4.82
Payout ratio (%)	(66.2%)	82.0%	80.9%
Dividend Yield (%)	5.5%	5.5%	6.2%
Div. Cover. Ratio (x)	(0.32)	1.08	1.06

Figure 2 - XOM EV Breakdown (\$'Mn)



Source: Author analysis

# 2. Business Description

ExxonMobil Corporation ("ExxonMobil", "XOM", or "Company") is the **largest global Integrated Oil Company** ("IOC"), with a market capitalization of \$267.1Bn and total assets amounting to \$333Bn in 2020YE (Figure 3). The Company is involved in: i) the exploration and production of **liquids**<sup>1</sup> **and natural gas**; ii) transportation and sale of oil, natural gas, and petroleum products; iii) **manufacturing of petroleum products**; and, iv) **manufacturing and marketing of commodity petrochemicals**.

The Company was founded by John D. Rockefeller in 1870, in the USA, named "Standard Oil Trust" at that time, and in 1890 controlled almost 90% of the refined oil flows in the market. However, in 1911, it was dismantled by the US Supreme Court under anti-trust legislation and split into 34 companies, including Chevron, Jersey Standard<sup>2</sup> and Socony<sup>3</sup>. In 1999, Exxon and Mobil Oil merged to form ExxonMobil and in 2010 the acquisition of XTO Energy made the Company the largest producer of natural gas in the USA.

#### Geographic and business segments

The company operates through three reportable business segments: i) Upstream; ii) Downstream; and, iii) Chemicals. While Downstream segment represents 79% of FY2020 revenues, amounting to \$140.9Bn, historically Upstream had the largest net income, due to larger margins and intersegment adjustments. However, the FY2020 Upstream Net income amounted to negative \$20Bn, as a result of the COVID-19 pandemic crisis (Figure 4 and 5).

Geographically, the Company discloses the operations between **US and non-US**, but operates in all regions in the world, including: i) Canada / Other Americas; ii) Europe; iii) Africa; iv) Asia; and, v) Australia/Oceania (Appendix 2.1). Overall, **US has the highest FY2020 revenue**, representing 35%, followed by Canada, UK and Singapore (Figure 6).

#### **Upstream**

The **Upstream** segment **explores** and **produces** oil and natural gas. The Company's upstream business includes **exploration**, **development**, **production**, **marketing** and **research** activities.

The Upstream segment reported a **FY2020 EBITDA** of \$15.5Bn, resulting in a -4.5% CAGR, in the FY2016-20 period. This decline was mainly due to lower spreads in FY2020, between oil & gas global average realized price and F&D costs, amounting respectively to \$33.0/Boe and \$27.8/Boe (Appendix 2.2).

In terms of portfolio, ExxonMobil has a strong pipeline of Upstream projects, with attractive economics (Appendix 2.3 and 2.4). ExxonMobil's FY2020 total production was 3,761 MBoe/d with an oil mix of 62%, diminishing the amount produced by 1.9% CAGR in the 2016-20 period (Figure 7). The most relevant projects for FY2020's production were i) Qatar (net capacity of 650 MBoe/d), ii) Permian Basin (367 MBoe/d); and, iii) Kearl (219 MBoe/d).

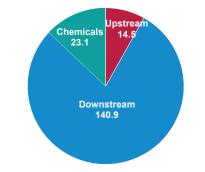
Regarding projected expansions, the main driving production growth projects are **Deepwater's Guyana** (331 MBoe/d); **Permian Basin** (187 MBoe/d); **Conventional Upper Zakum** in UAE (101 MBoe/d); LNG's PNG and Coral (119 MBoe/d); and **Deepwater** *Bacalhau* (ex-carcara), in Brazil (88 MBoe/d).

Figure 3 - ExxonMobil highlights



Source: Company data

Figure 4 – FY2020 Revenue per segment (\$'Bn)

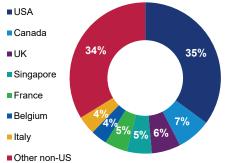


Note: Revenue do not include intersegment sales
Source: Company data



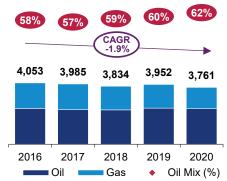
Figure 6 – FY2020 overall revenue per country

USA



Source: Company data and Author analysis

Figure 7 - Oil & Gas production (MBoe/d)



Source: Company data and Author analysis

<sup>&</sup>lt;sup>1</sup> Liquids include crude oil, natural gas liquids, synthetic oil and bitumen – from now on referred as "oil".

<sup>&</sup>lt;sup>2</sup> Which eventually became Exxon.

<sup>&</sup>lt;sup>3</sup> Which eventually became Mobil.

In FY2020, **Proved Reserves decreased 32% YoY**, which became uneconomical due to COVID-19 pandemic crisis, amounting to **15.2 MMBoe in YE2020**, with an implied **reserve life ratio** of **11.1 years** (Figure 8).

#### **Downstream**

The **Downstream** segment **manufactures** and **sells petroleum products**, including **fuels** and **lubricants**. ExxonMobil's downstream operations refine and distribute products derived from crude oil and other feedstock. ExxonMobil's fuels and lubes marketing businesses have a portfolio of brands that include: i) **Exxon**; ii) **Mobil**; iii) **Esso**; and, iv) **Mobil1**, selling through **21,953 retail sites worldwide**.

Downstream segment **reported a FY2020 EBITDA of \$1.4Bn**, corresponding to an **EBITDA margin of 0.8%** (Appendix 2.5).

In FY2020, ExxonMobil **delivered petroleum product sales** of **4.9 MMBbls/d**, with gasoline and naphtha being the highest sold product (Figure 9).

ExxonMobil has an ownership interest in <u>21 refineries</u>, with a total net capacity of 4.8 MMBbls/d, which allowed a FY2020 refinery throughput of 3.8 MMBbls/d, i.e. 79% of refinery utilization (Figure 10). The most relevant projects are in the US (Baytown, Baton Rouge and Beaumont) and in Europe (Antwerp, Gravenchon, Fawley). It is expected improvement over refinery capacity, through the following key expansions: i) Beaumont Light-Crude Expansion; ii) FAST expansion; and, iii) Singapore Residual Upgrade (Appendix 2.6).

#### **Chemicals**

The **Chemicals** segment manufactures and sells **petrochemicals**, including, olefins, aromatics, polyethylene, polypropylene, ethylene, polyolefins and other petrochemical products.

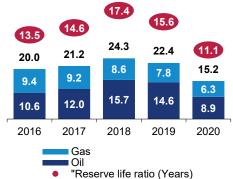
In FY2020, the Company has sold **25.4 MMT of chemical prime products**, which corresponds to **0.5% CAGR in the 2016-20 period** (Figure 11). **90% of XOM's chemical capacity is integrated with refineries or natural gas processing plants**, **boosting synergies across segments**. Besides the Downstream sites referred above, the major Chemicals projects are located in the Asia Pacific region, including the ones in Singapore and China. **Chemicals production capacity is expected to grow 8.75 MMTA**, **in the 2021-25F period**, following the expansion of the Corpus Christi and the Fuijan site in China (Appendix 2.7). This performance in Chemicals segment resulted in a **FY2020 EBITDA of \$4.1Bn**, i.e., **a 12% EBITDA margin** (Appendix 2.8).

#### Company Key Drivers of profitability

ExxonMobil shares the same key drivers of profitability of the oil and gas industry and its peers, affecting i) **Revenue growth**, ii) **Cost management**, iii) **Asset efficiency** and, iv) **Organizational efficiency**. The Company's major key drivers of profitability are (not exhaustive)<sup>4</sup>:

- Commodities prices The prices of the commodities are the most important key value driver factor of the Company. Major oil and gas companies, due to their size, cannot perform effective hedging strategies against the volatility of commodity prices and, therefore, are revenue takers and highly depend on the markets.
- Reserves Oil and Gas Reserves, particularly, Proved Reserves (Appendix 2.9), affect the Company's potential revenue, and asset efficiency, since ExxonMobil is very capital intensive, and its value depends on the

Figure 8 – Oil & Gas Proved Reserves (MMBoe)



Source: Company data and Author analysis

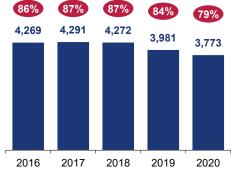
Figure 9 – XOM's Petroleum sales (MBbls/d)



- Specialty petroleum products
- Heavy fuels
- Aviation fuels
- Heating oils, kerosene, diesel oils
- Gasoline, naphthas

Source: Company data and Author analysis

Figure 10 – XOM Refining throughput (MBbls/d)

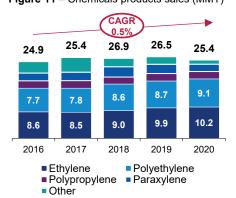


■ Refinery throughput

• Refinery capacity utilization (%)

Source: Company data and Author analysis

Figure 11 – Chemicals products sales (MMT)



Source: Company data and Authors analysis

<sup>&</sup>lt;sup>4</sup> For further details see Industry key drivers of profitability Section and the respective Appendix 4.6.

management of existing reserves and also the capability to replace depleting reserves. Therefore, the quantity and quality of oil and gas reserves affect the Company's Capex and Working Capital, considering downtime's management of the assets as well as reserves replacement/life ratio.

 Asset portfolio management – The management of the portfolio of assets is key to value creation, particularly, rigs portfolio in the upstream segment and the refining sites in the downstream and chemicals segments, investing based on highest value opportunities and divesting based on strategic fit, materiality and growth potential. A strong portfolio management assures the optimization of the refining, marketing and chemicals production margins.

Additionally, ExxonMobil, as an IOC, optimizes the **organizational efficiency** by the **synergy capture through vertical integration**, which **leverage efficiencies** and **enables better margins in the downstream and chemicals segments**.

### **Company Strategies**

ExxonMobil's core business strategies provide the framework for the Company to comply with its commitments and create shareholder value throughout the commodities price cycle.

#### Sustain investment in oil and gas production, refining and chemicals

Considering long-term global prosperity, without continued investment to sustain existing producing fields and develop new resources **oil and gas supply declines 7% and 5% YoY**, respectively (Figure 12). These decline rates create a significant requirement for the Company to **maintain investments in oil & gas production and chemicals to sustain existing production levels and meet the projected global demand** (Appendix 2.10).

Significant new supplies are needed across a range of demand scenarios, considering the depletion of the estimated reserves without investment and current limitation in alternatives, which will require approximately \$20Tn of oil & gas investment needed by 2040, according to IEA.

#### **Capital discipline**

Perform disciplined investment and execute a dynamic capital reallocation from lower-return businesses to the highest return opportunities, improving turnover, creating long-term value and providing reliable and growing dividend.

#### Leverage value chain integration

Value chain integration provides competitive advantages and enables the Company to capture efficiencies, apply technologies, and create shareholder value across the business lines, i.e. i) simplify standards and process interfaces; ii) lower costs; and, iii) increase the speed and quality of the entire system, by maximizing capacity and minimize downtime (Figure 14).

#### Maintain and improve financial strength

Higher financial strength provides **higher flexibility** in responding to **changing market conditions and economic cycles**.

#### Investment in innovative technologies

Investment in innovative and advanced technologies to strengthen advantages and address climate risk. In the 2010-20 period, ExxonMobil has invested annually \$1Bn in lower emissions solutions. These technologies are needed to address barriers in existing alternatives to decrease CO<sub>2</sub> emissions in the major pollutants sectors, i.e. i) Commercial transportation, ii) Power generation; and, iii) Industrial sectors (Figure 15).

Figure 12 – Oil and Gas demand and supply warrant investment

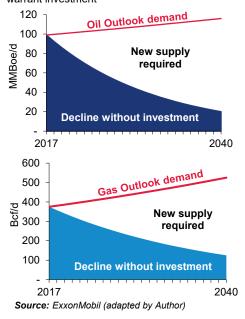
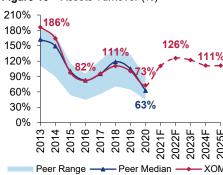
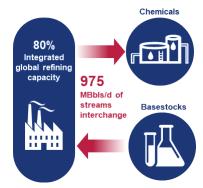


Figure 13 – Assets Turnover (%)



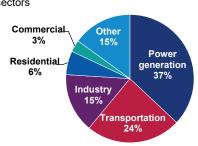
Source: Bloomberg, ExxonMobil and Author Analysis

**Figure 14** – Integration synergies between Downstream and Chemicals segments.



Source: ExxonMobil (adapted)

Figure 15 – Energy Related CO<sub>2</sub> emissions by sectors



Source: IHS Markit. 2020

#### **Business segment strategies**

The detailed long-term strategies for each segment and the quantified goals can be observed in Appendix 2.11.

#### **COVID-19 Tactical strategies**

Due to the **COVID-19 pandemic** and, as a result, the economic crisis and low commodity prices, ExxonMobil has adopted **several tactical strategies** to address the issues:

- Respond to low prices and margins environment while preserving advantages and value: i) Reduce Capex by over 30% (Figure 16); ii) Preserve organizational capacity to capture upswing; iii) Maintain optionality and adjusting the pace of projects in line with markets; iv) Deferral costs offset with efficiencies and market savings.
- Maintain capital allocation priorities: i) Suspend discretionary activities; ii)
   Capture market savings and iii) <u>lower Opex by 18%</u> (Figure 17).
- Leverage debt markets to mitigate demand impacts: \$20.7Bn in additional liquidity through revolving credit facilities.

#### **Ownership Structure**

The Company has **4,233 Million common shares outstanding**, each share representing one vote, with a free-float of circa 99.8% and inside ownership of 0.2% (Appendix 2.12). The Company has **high retail ownership (circa 45%)**, and among the 55% institutional shareholders, **86% are North American owners**, followed by British and Japanese owners (Appendix 2.12). Additionally, 82% of XOM's owners are investment advisor entities and the top shareholders are Vanguard Group (8.7%) followed by BlackRock (6.8%) – see Table 4.

#### **Shareholders Activism**

There is currently **four pending activism campaigns**, from CURA, Arjuna Capital, the New York Retirement Fund and a group of independent shareholders, requesting, i) **proper addressment of energy transition** in the Company's strategy; ii) the **upgrade of climate change policies**; ii) the review of corporate governance policies, to allow the **inclusion of an independent chairman** and; iii) the **review of the committees' compensation** (Appendix 2.13). **The success of these campaigns might benefit the Company's ESG score** and, inevitably, **its shareholder's value**. In early 2021, Engine n°1 activist shareholder won three seats on ExxonMobil's BoD to address concerns over climate change and energy transition.

#### **Dividend Policy**

ExxonMobil has consistently growing DPS at a 5.1% CAGR in the 2013-20 Period, aligned with the Company's long-term strategy, even when earnings significantly decreased, with a payout ratio above 100% (Figure 19). In FY2020, despite the significant decrease in revenues and earnings, ExxonMobil did not cut DPS, at the cost of lower capital expenditures, lower operational expenses and higher amounts of debt.

However, EPS had a -12.3% CAGR in the 2013-19 period, resulting in the growth of the payout ratio, from 33% to 102%. Maintaining the growth of DPS above earning's would be unsustainable in perpetuity and, as a result, it is expected convergence of the dividends growth with the earnings average growth, within the economic cycle, in the long-term.

Additionally, following ExxonMobil's guidance, **significant repurchase of shares** is not expected in the mid-term, but a **consistent dividend growth is expected**. Therefore, **DDM is an appropriate valuation model for the Company**.

Figure 16 – XOM and peers Capex (\$'Bn)

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Source: Bloomberg and Author Analysis

Peer Range

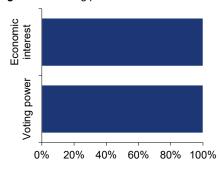
**XOM** 

Figure 17 – XOM and peers Gross Margin (%)



Source: Bloomberg and Author Analysis

Figure 18 - Voting power vs. Economic interest



Source: Bloomberg

Table 4 - ExxonMobil Top Shareholders

Top 5 Shareholders					
#	Shareholders	Out. (%)			
1	Vanguard Group	8.68%			
2 3	Blackrock	6.80%			
3	State Street Corp	4.88%			
4	FMR LLC	1.73%			
5	Geode Capital Management	1.49%			
Tot	Total 23.58				

Source: Bloomberg

Figure 19 – ExxonMobil DPS & Payout Ratio



Source: ExxonMobil & Author analysis

# 3. ESG - Environment, Social and Governance

Regarding ESG metrics, **ExxonMobil has positive absolute metrics but it is behind its IOC peers**, with an ESG overall score of B+, and Controversies score of D-, which results in an ESG combined score of C<sup>5</sup> (Figure 20 and 21). This lower rank among peers is mainly due to **Social** and **Governance** pillars scores.

#### **Environment**

**ExxonMobil** has good Environment scores, either in absolute or relative terms. These results contribute to consistent reductions of CO<sub>2</sub> emissions, with a -2.9% CAGR in the 2013-19 period (Figure 22), accomplishing the XOM's emissions curtailment defined targets. Despite the consistent reductions, unlike the European IOC peers, the Company did not state a "net-zero carbon emission" declaration so far. Additionally, several environmental controversies were raised by public sources and NGOs <sup>6</sup>. Nevertheless, in the 2021 Investor's Day the Company announced a new Low Carbon Solutions dedicated segment.

Furthermore, in FY2020, the Company spent circa \$5.5Bn in environmental expenditures, i.e., 5.1% of total Capex, and 1.9% of total revenues (Figure 23). However, in 2013-20, these expenditures have declined at a 2.2% CAGR.

ExxonMobil has invested a total of \$10 Bn since 2010, in projects to research, develop and deploy lower-emission energy solutions. The defined long-term strategies regarding alternative energy solutions with lower-carbon intensity include:

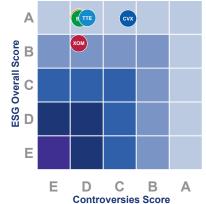
- Advanced Biofuels ExxonMobil is currently developing two biofuels programs: i) cellulosic biodiesel; and, ii) algae and defined a target of 10 MBoe/d production by 2025, i.e., 0.27% of 2020 Upstream production;
- Carbon capture and storage ("CCS") ExxonMobil is currently progressing economic solutions for large-scale deployment for this technology, already having 20% of global CCS capacity, being the global leader; and,
- **Energy-efficient manufacturing –** Development of new and efficient technologies that require less heat and energy, while reducing emissions, in the industry sector.

Considering the environmental controversies, efforts must be performed to assure lower emissions commitment, by accepting the activist shareholders pending requests.

#### Social

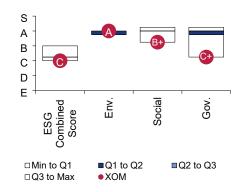
ExxonMobil Social Pillar B+ score, in absolute terms, is positive, but it is the lowest compared with the peers. Improvement opportunities were identified regarding mostly the human rights area (Appendix 3.1), including deficiencies concerning i) freedom of association policies, ii) hiring of human rights (breaches) contractors, iii) ethical trading initiatives. Also, deficiencies in other social areas were identified, regarding i) health & safety policies and training; ii) diversity and opportunity target definitions; and, iii) a minor number of layoffs. Additionally, controversies related to: i) business ethics; ii) tax fraud; and, iii) anti-competition were raised.

Figure 20 - Refinitiv ESG Score Matrix



Source: Refinitiv, adapted by Author

Figure 21 - XOM's Refinitiv ESG pillars Score



Source: Refinitiv, adapted by Author

Figure 22 – XOM's CO<sub>2</sub>-equivalent Emissions (MT)

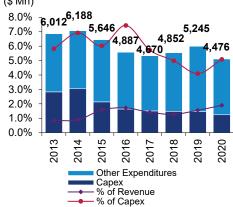


CO2-Equivalent Emissions

CO2 Emissions / Revenue (MT/\$'Mn)

Source: Refinitiv and Author Analysis

Figure 23 – XOM's Environmental expenditures (\$'Mn)



Source: Company data and Author analysis

<sup>&</sup>lt;sup>5</sup> The Refinitiv ESG methodology scores ranges from E to S, being E the worse score and S the best Score. Refinitiv ESG Combined Score combines the weighted average score of ESG Overall Score with ESG Controversies Score. ESG Overall Score combines the weighted average of three pillars, i.e., Environment, Social and Governance.

<sup>&</sup>lt;sup>6</sup> NGO InfluenceMap alleges ExxonMobil has been significantly lobbying against climate change policies (See Appendix 3 and Influence Map, 2017, 2018, 2019).

Nevertheless, significant improvements were identified in other areas, such as Workforce and Community, with consistent decreasing incident rates, increasing women and minorities in management, and consistent donations to the communities.

#### **Management and Corporate Governance**

ExxonMobil has the Worst Governance Score among peers, especially regarding Management and Shareholders (Appendix 3.1). ExxonMobil follows a **Unified Management Form**, where Mr. Darren Woods accumulates both Chairman of the Board of Directors and CEO positions, in accordance with industry's standard practices.

#### The Board of Directors ("BoD")

XOM's BoD is currently **composed of 12 members**, including the Chairman & CEO and **eleven independent directors** (Table 5). Annually, the BoD is subject to elections at the annual meeting of shareholders. BoD main functions include; i) Oversee the XOM's management, including oversight of risk management; ii) Review XOM's long-term strategic plans; iii) Exercise direct decision-making authority in key areas, such as declaring dividends; iv) Select the CEO; v) Evaluate the CEO's performance; and, vi) Review development and succession plans for XOM's top executives.

Based on adverse media search and screening procedures, there is no evidence of potential conflicts of interests regarding BoD members' private interests. Screening procedures on BoD members reveals a mix of backgrounds, knowledge, skills and diversity. However, historical political ties were found, considering former Chairman and CEO Rex Tylerson was the President's Trump's Secretary State of Energy. Additionally, a non-independent chairman raises a potential conflict of interest issue, already advised by global corporate governance expert entities, such as Glass Lewis, and activist shareholders, due to self-evaluation of CEO performance. Nevertheless, as referred, in early 2021 Engine n°1 activist shareholder nominated three directors to BoD, to address concerns over climate change, energy transition and ESG records.

#### The Management

Mr. Darren Woods, as referred, is simultaneously Chairman and CEO of ExxonMobil. Background check on remaining XOM's officers reveals a **high level of experience in the industry and the Company**, with **tenures reaching over 40 years**. XOM's Named Executive Officers ("NEO") include i) Darren Woods; ii) Andrew P. Swiger iii) Neil A. Chapman; iv) Jack P. Williams, Jr.; and, v) Neil W. Duffin (Table 5).

#### **Management Compensation**

ExxonMobil's executive direct compensation program applies to the NEOs and it is composed by: i) base salary; ii) Annual Bonus; and, iii) Performance Shares. In 2019, ExxonMobil's total reported CEO compensation amounted to \$23.5Mn, from which \$16Mn were direct compensation, being the best-paid executive, among peers (Figure 24). The significant difference between the American IOC and European IOC is due to performance shares paid to the CEO. In relative terms, compared to peers, XOM has the worst pay-for-performance grade (Figure 25).

## **ESG** impacts on valuation

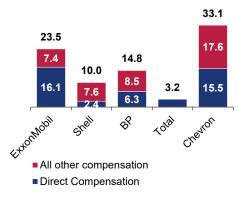
Lower performance in ESG combined scores, compared to peers, led to creating a specific recommendation for **ESG concerned and activist investors**, using a proxy to Damodaran's Punitive Vision Scenario, where **adjustments to WACC** were applied in the primary **DCF model**.

Table 5 - XOM's BoD and Officers members

Board of Advisors	
Darren W. Woods	Joseph L. Hooley
Susan K. Avery	Steven A. Kandarian
Angela F. Braly	Ursula M. Burns
Kenneth C. Frazier	Michael J. Angelakis
Jeffrey W. Ubben	Gregory J. Goff
Alexander A. Karsner	Kaisa H. Hietala

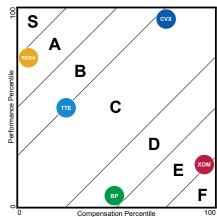
Nam e	Function					
Corporate Officers	3					
D. W. Woods	Chairman & CEO NEO					
N. A. Chapman	Senior VP					
A. P. Swiger	Senior VP					
J. P. Williams, Jr.	Senior VP					
L. M. Fox	VP & Controller					
T. C. Gunnlaugsson	VP-HR					
S. A. Littleton	VP-Investor Relations & Secretary					
S. M. McCarron	VP-Public & Government Affairs					
C. S. Morford	VP & General Counsel					
J. M. Spellings, Jr.	. VP, Treasurer & General Tax Counsel					
D. G. Wascom	com VP-Op. Excellence, Safety, Sec., Health & Env.					
T. J. Wojnar, Jr. VP-Corporate Strategic Planning						
Functional and se	rvice organizations					
Upstream						
L. D. DuCharme	President, XOM Upstream Bus. Dev. and Int. So					
N. W. Duffin	President, XOM Global Projects Company NEC					
L. M. Mallon	President, XOM Upstream Oil & Gas Company					
Downstream						
D. L. Talley	President, XOM Research and Eng. Comp.					
I. S. Carr	President, XOM Fuels & Lubricants Company					
Chemicals						
K. T. McKee	President, XOM Chemical Company					
Other						
F. Y. Blommaert	President, XOM Low Carbon Solutions					
S. Gjervik	President, XOM Global Projects Company					
J. M. Gibbs	President, XOM Global Services Company					

Figure 24 – CEO 2019 compensation (\$'Mn)



Source: Refinitiv, Company Data and Author analysis

Figure 25 – Pay-for-Performance CEO Grade



**Note:** Analysis as of 2019. Information regarding compensation was not available as of 2020. Performance determined through the 10-year average TSR

Source: Refinitiv, Bloomberg and Author analysis

# 4. Industry overview and competitive positioning

## **World Economic Outlook**

#### **World Population**

World population rose from 6.96 to 7.79Bn people in the 2010-20 period, growing at a 1.1% CAGR in the last decade. In the 2020-40 Period, a 0.8% CAGR is expected, reaching a population of 9.20Bn people (Figure 26). An urbanization process is also expected, where the urban population is projected to grow 1.3% CAGR in the 2020-25F period, above the overall population (Appendix 4.1).

#### **World GDP Growth and Consumer prices**

In the 2015-19 period, global real GDP has stabilized, with growth rates ranging between 2.3% and 3.2%, and non-OECD countries reaching an average growth rate of 3.8%, in the same period (Figure 27). However, COVID-19 has significantly impacted the global economy, with global real GDP reaching -5% YoY, with emphasis on OECD countries (-6.3% YoY). It is expected a recovery in 2021F to 5.7% YoY, driven by Asia and North America. Recovery will take longer in the remaining regions. The pace of immunization programs will determine economic prospects for 2021-22F. A potential slow pace of vaccine distribution could weigh on the global recovery and make it possible for variants to emerge that might prove resistant to current vaccines.

The consumer prices index is also expected to increase from 4,5% to 5.5% YoY in 2021F (Appendix 4.1). A potential sharp rise in consumer prices could represent a risk to global recovery, considering central banks would probably raise monetary policy rates to mitigate inflation.

#### World energy demand

The coronavirus pandemic and the lockdown measures needed to contain it have dramatically **decreased global oil demand in 2020**, which fell by nearly 8.7% YoY, to 91 MMBoe/d. Assuming the global economic recovery and a steady pace of the global immunization programs, it is **expected a growth in demand in 2021F** by 6% YoY, reaching pre-coronavirus level in 2022-23F (Figure 28).

Similar assumptions in the **natural gas demand forecasts**: In 2021, it is expected to increase natural gas demand by 3.3% YoY to 141.4 Tcf (Appendix 4.2).

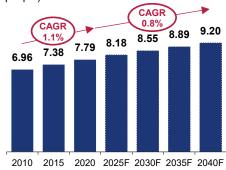
#### **Long-term Scenarios**

IEA has predicted three scenarios for the long-term outlook of primary energy sources demand, by 2040: i) Current Policies Scenario <sup>7</sup> ("CPS"); ii) Stated Policies Scenario <sup>8</sup> ("STEPS"); and, iii) Sustainable Development Scenario <sup>9</sup> ("SDS") <sup>10</sup>. Considering IEA STEPS, it is expected an **overall growth in global demand for energy sources**, to 343 MMBoe/d (Figure 29), **as prosperity rises, population grows and urbanizes**. Additionally, **fossil fuels remain dominant in the energy supply mix**.

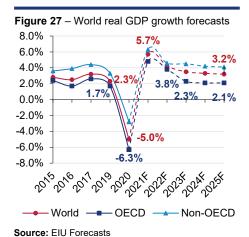
Oil is expected to remain the prevailing fuel, with projected demand growth in IEA STEPS of 0.3% CAGR in 2019-2040F, to 97 MBoe/d by 2040, driven by commercial transportation and feedstocks for the chemicals industry.

<sup>7</sup> Scenario that shows what happens if the world continues along its present path, without any additional changes in policy.

**Figure 26** – World population projections (Bn people)

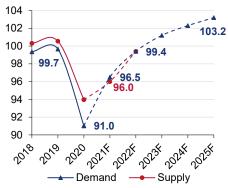


Source: United Nations, World Prospects



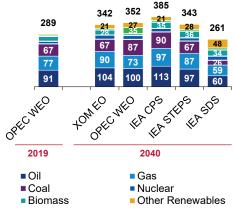
Jource. LIO I Olecasi.

Figure 28 – Global oil demand and supply short-term forecasts (MMBoe/d)



Source: IEA & EIU, July 2021

**Figure 29** – Energy Demand Outlook, by fuel type (MMBoe/d)



Source: XOM, OPEC, IEA

<sup>&</sup>lt;sup>8</sup> Scenario that incorporates today's policy intentions and targets.

<sup>&</sup>lt;sup>9</sup> Scenario regarding a strategic pathway to meet global climate, air quality and energy access goals in full

<sup>&</sup>lt;sup>10</sup> EIA STEPS, OPEC and XOM's 2040 outlooks, has similar trends, except for coal demand, where XOM's predicts a deeper fall of coal to 67 MMBoe/d.

Natural gas is, by far, the fastest-growing fossil fuel, with robust demand driven by the energy transition, with a 0.6% CAGR in 2019-40F, i.e., an expected demand of 87 MMBoe/d by 2040. Global Natural gas demand is expectable to peak in the late 2030s as electrification of heating and development of renewables may erode long-term demand.

The renewables are fastest growing source of energy in the 2019-40F Period, with a 1.6% CAGR for Biomass and Hydro and 7.6% for other renewables, which include wind, solar and biofuels.

#### Global Oil & Gas Supply

Global oil production was volatile in 2020 due to the above-referred crash in demand and the implosion of the OPEC+<sup>11</sup> partnership, after Saudi and Russia failed to reach an agreement over production levels. The OPEC+ quota agreement reached in April 2020, defined that OPEC countries and Russia would cut their production by a collective 9.7 MBbls/d. Assuming the agreement to prevail, oil supply is expected to grow 2.2% YoY in 2021F, to 96 MMBoe/d, and 3.5% YoY in 2022F, to 99.4 MMBoe/d (Figure 28).

Similar evolution in the **natural gas supply is assumed**, i.e., a **3.3% YoY growth in 2021F** and **2.5% YoY in 2022F** (Appendix 4.2).

#### Oil and gas prices

Oil prices are subject to a **significant level of volatility**, highly correlated with **exogenous economic shocks**, as well as **geopolitical tensions**.

The significant decrease of oil demand, as well as the price war between Saudi Arabia and Russia in 2020, which caused a spike in global oil supplies and flooded storage capacity, led to prices tumbling to the lowest level in decades, even negative (Appendix 4.3). Assuming OPEC+ compliance with the defined targets in the April 2020 agreement, until at least early 2022, WTI and Brent indexes are expected to average \$58.5 and \$66.0/Bbl., respectively, in 2021F and to peak in 2022F to \$63.0 and \$71.0/Bbl., as the global economic recovery takes hold, boosting oil demand (Figure 28). In 2024-25F, Brent index is expected to ease back steadily to \$55.0/Bbl., as global oil demand growth begins to taper off, reflecting the global transition away from reliance on fossil fuels.

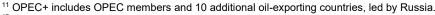
Natural gas prices follow a similar trend: 2021F Henry Hub index is expected to average \$2.6/MMBtu, stabilizing to \$2.2/MMBtu in FY2025F (Figure 31).

Considering commodities' prices evolution, oil & gas players wrote down the value of several of their assets, since they became uneconomical, and it is likely to observe additional impairments in the upcoming years.

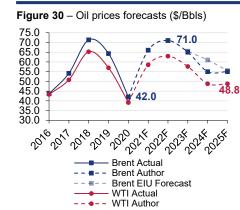
#### **Downstream**

The corona virus outbreak had also affected the oil & gas downstream industries, particularly, refining, marketing and petrochemicals. **Refinery production** has **declined 9.6% YoY in FY2020**, to 73.9 MMBbls/d. However, it is projected a **recovery in refining throughput**, considering the growth observed in the first semester of 2021, to 75.0 MMBbls/d in 2021Q1 and 77.8 MMBbls/d in 2021Q2.

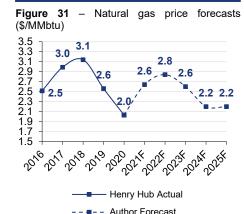
Refining margins also declined, with WTI crack spread <sup>12</sup> falling 63.4% YoY, from \$25.0 to \$9.1/Bbl. in the 2019M5-20M5 period, due to a **downturn in the jet fuel** markets as a result of disrupted air travel (Figure 33). A recovery is expected in FY2021, considering the evolution of 2021M03 crack spreads to \$16.2/Bbl.



<sup>&</sup>lt;sup>12</sup> Crack spreads are differences between wholesale petroleum product prices and crude oil prices.



Source: EIU, IHS Markit & Author's analysis



Source: Refinitiv & Author's analysis

**Figure 32** – Global Refinery throughput by region (MMBbls/d)

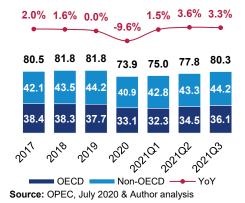
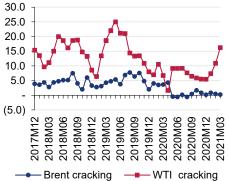


Figure 33 – Major crack spreads indexes (\$/b)



Source: OPEC

## Global Oil & Gas Industry Overview

#### **Industry Structure**

Oil & Gas industry includes the global processes of exploration and extraction – (**Upstream**); ii) transportation and trading (**Midstream**); and, iii) refining and marketing of finished products (**Downstream** <sup>13</sup>) – see Appendix 4.4.

The market structure is characterized by an Oligopoly, composed of a small set of large players that influence the direction of the market and by a group of small companies conditioned by them. ExxonMobil has a global crude oil production market share of 2.5% and with the remaining supermajors a total of 11% (Figure 34). As a result, alone, they are not capable to significantly influence oil prices compared to OPEC, which owned 73% of the world's proved reserves as of 2018 (Appendix 4.5). Among Supermajors, ExxonMobil has the highest production market share <sup>14</sup>, amounting to 23% (Figure 35 and Appendix 4.5).

Oil & Gas industry is at a mature stage in its life cycle, with business cycles ranging between 7 and 9 years (Figure 36).

#### Mergers and Acquisitions activity in the industry

M&A operations are essential to oil and gas companies' long-term strategies, which enable i) the **enhancement of the portfolio**, through **asset rotation and strategic divestures**; ii) **maximize efficiency in capital allocations**, prioritizing **projects with lower break-even** assets and, iii) **improved organizational effectiveness**, that allows the **creation of value** to the shareholders.

The upstream M&A market had entered a severe drop in 2020 following the radical deterioration of oil and gas industry conditions due to the COVID-19. The number of deals in the global upstream activity has diminished 30% YoY in FY2020, from 175 to 123. M&A deals value also decreased significantly from \$154Bn to \$101Bn, i.e., 34% YoY in 2020F. Based on the first semester of 2021, it is expected an increase in M&A deals and value numbers (Figure 37).

There were rumors in early 2021, of a **potential merger between ExxonMobil** and Chevron. Nevertheless, considering ExxonMobil's guidance and the market circumstances, it is not expectable significant M&A transactions in 2021-22F.

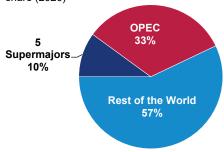
#### Industry key drivers of profitability

As referred in section Company Key Drivers of profitability, ExxonMobil and the industry share the same key drivers of profitability, i.e., i) Commodities prices; ii) Reserves; and, iii) Asset Portfolio Management, among others, affecting Revenue growth, Cost management, Asset efficiency and Organizational efficiency (Appendix 4.6).

Although commodities prices are the most relevant factor to the companies' value, Supermajors, individually, do not have control over the price markets (Appendix 4.7). Regarding the other drivers, ExxonMobil has advantages over its peers, considering the second highest average reserve life of 11.1 years, higher historical ROCE, second highest R&D / turnover ratio, amounting to 0.57% (but historically has been the highest), and significantly higher refinery capacity, amounting to 4.8 MMBbls/d in 2020F (Figure 38 to 41).

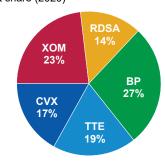
<sup>13</sup> Industry's Downstream is equivalent to XOM's Downstream plus Chemicals segments.

**Figure 34** – Global Crude Oil production market share (2020)



Source: Bloomberg, IEA & Author analysis

**Figure 35** – Oil & Gas supermajors reserves market share (2020)



Source: Bloomberg, IEA & Author analysis

Figure 36 - Oil & Gas US Business Cycle



Source: EIU and Author Analysis

Figure 37 – Upstream industry transactions value and deal count (\$'Bn)



Source: IHS Markit

<sup>&</sup>lt;sup>14</sup> Historically, ExxonMobil has been the Supermajor with the highest proved reserves. However, due to the impairment of several major assets, in 2020, ExxonMobil has the second highest market share regarding proved reserves.

#### **COVID-19** and Industry's challenges and opportunities

COVID-19 pandemic crisis combined a supply shock with an unparalleled demand drop and a global humanitarian crisis. On its current progress, the industry could be entering an era defined by powerful competition, technological advancements, significant public/government pressure, regarding climate and the environment, and investor skepticism considering the underperformance compared to S&P 500 and MSCI World indexes (Appendix 4.8).

A growing number of investors are questioning whether today's oil and gas companies will ever generate acceptable returns and the uncertainty of their role in the energy transition. Oil and gas companies will have to demonstrate their alleged commitment to this subject. Discipline in investment, capital allocation, risk management, and governance will be critical.

However, oil and gas will remain foundational under most scenarios, even in models with the lowest level of energy demand. The Industry's winner players will use this crisis to reposition portfolios and transform their operating models. The COVID-19 will profoundly impact the industry, both short and long term and is rushing what was already shaping up to be one of the industry's most transformative trends.

#### **Industry Trends**

Oil and gas industry technological developments have made progress towards de-carbonization and energy efficiency improvements. Research and Development over de-carbonization is critical to achieving the Paris Agreement climate change targets of limiting global warming to 2°C or less above pre-industrial levels by the year 2100 15.

#### Carbon capture and storage (CCS)

Technology to capture  $CO_2$  from industrial processes and production of fossil fuels or biomass and store them underground that prevent  $CO_2$  from entering the atmosphere, with the capacity to capture 90% of  $CO_2$  emissions. IEA SDS forecasts a significant growth of this technology from 25 MT carbon captured in 2019 to 2,800 MT per year by 2050.

#### **Advanced Bio-fuels**

Fuel for heavy-duty transportation needs high energy density, that liquid hydrocarbons provide, and biofuels also meet this requirement. This technology can curtail 50% of GHG emissions and it is also a solution towards the power generation sector.

#### **Power generation**

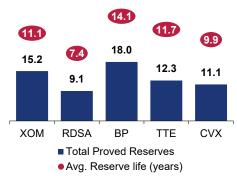
**The power generation sector** is responsible for 37% of CO<sub>2</sub> emissions (Figure 15). The world continues to "electrify" as **demand will increase**, regardless of each scenario, **with growth ranging 1.7%-2.2% CAGR, until 2040** (Figure 42).

Natural gas is a cleaner burning alternative to coal as the energy source for power generation, being the fossil fuel with the least CO<sub>2</sub> emissions. It will grow in all scenarios as an electricity generation source, except in IEA SDS, ranging between 1.7% and 2.3% CAGR, in the 2018-40F period.

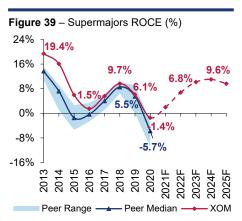
The penetration of natural gas in power generation will depend on the impact of renewables, with wind and other renewables predicted to range between 22% and 29%, in IEA CPS and IEA STEPS, and even represent 50% in IEA SDS.

<sup>15</sup> Please refer to Political, Regulatory and Legal Risks subsection and Figure 79 – Historical and projected Global GHG emissions to 2030 (GtCO2eq).

**Figure 38** – Supermajors Proved Reserves (BBoe) & average reserves life (2020)

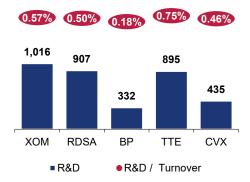


Source: Bloomberg and Author analysis



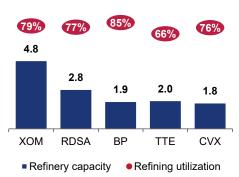
Source: Bloomberg, ExxonMobil and Author Analysis

Figure 40 – Supermajors R&D (\$'Mn) and R&D / Turnover (2020)



Source: Companies Data and Author analysis

**Figure 41** – Supermajors Refining Capacity (MMBbls/d) and Refining utilization (2020)



Source: Companies Data and Author analysis

#### Road transportation and electric vehicles

A decade ago, Electric Vehicles (EVs) were only a small niche market compared to Internal Combustion Engines ("ICE"). However, Battery EVs ("BEV") became mainstream in the road transportation sector due to the development of lithium-ion batteries with vastly improved energy density. Provided EVs prices will continue to drop, it is expected that by 2040 BEV's represent 14% of the global fleet<sup>16</sup> (Figure 43 and 44).

The development of lithium-ion batteries made it possible to meet most drivers' daily needs, but they are still far too big, heavy, and expensive to compete with ICE for long-distance heavy transportation. An alternative might be Hydrogen EVs ("HEV") and Fuel Cell's EV's ("FCEV").

#### Hydrogen and fuel cells

As electricity, hydrogen is an energy carrier not an energy source. Currently it is mainly produced from natural gas and oil-based hydrocarbons through Steam Methane Reforming ("SMR"). It will likely be provided through electrolysis using renewable power sources (green hydrogen) in the future. An alternative could be blue hydrogen that uses SMR plus CCS. The future demand between blue and green hydrogen will depend on the local economics, i.e., the availability of cheap storage capacity for CCS or cheap renewable electricity.

Hydrogen might be used for power generation of EV, directly or through fuel cells. However, the current **higher efficiency of the BEVs suggests its demand will be higher than HEVs and FCEVs** (27% vs a total of 7% for new passenger cars) – Figure 44.

As referred, ExxonMobil is currently the **global leader in CCS**, with the **long-term** strategy of producing hydrogen and fuel cells

#### **Competitive Positioning**

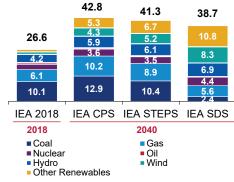
#### **Peers identification**

The identification of ExxonMobil peers for the competitive positioning analysis considered all companies classified as "Integrated Oils", from Bloomberg's BICS classifications. Additional corporate intelligence procedures were performed: i) selection of companies that were public oil companies ("POC") and not nationalized oil companies ("NOC"); and, ii) selection of companies with the highest market capitalization. ExxonMobil peers group includes Chevron, Royal Dutch Shell, Total and BP (Table 6). Additional procedures were performed for MBV, including the SARD approach.

#### **Industry corporate strategies**

Oil and gas peer strategies to deal with the pandemic crisis are similar to ExxonMobil's, in the short-term i) IOCs total Capex decreased 20% YoY in 2020 and expected to decrease an additional 11% in 2021F<sup>17</sup>, ii) Near-term low-carbon spending among supermajors expected to drop down 17%; iii) US Majors will continue to preserve generous dividend payouts<sup>18</sup>, as long as possible, in contrast to European peers, as this is key to satisfying investor expectations of returning funds to shareholders; iv) cancellation of share buyback programs; and, v) higher debts to improve cash balances (Figure 16 and Figure 46 to 50).

**Figure 42** – Electricity generation 2040 Outlook, by fuel type (Thousand TWh)



Source: IEA

Figure 43 - Composition of global fleet (Mn)

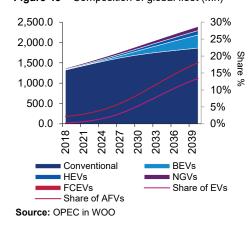
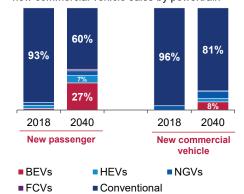


Figure 44 – Shares of new passenger car and new commercial vehicle sales by powertrain



Source: OPEC in WOO

**Table 6** – BICS "Integrated Oils" ranked by market capitalization

Rank	Company	Market Cap (\$'Bn)	Ownership	Relevant peer
1	Aramco	1,861,284	NOC	
2	ExxonMobil	267,052	POC	✓
3	Chevron	196,426	POC	✓
4	Shell	160,154	NOC	✓
5	Petrochina	123,640	NOC	
6	TotalEnergies	117,967	POC	✓
7	Gazprom	93,331	NOC	
8	BP	85,934	POC	✓
9	Rosneft	80,019	NOC	
10	Sinopec	70,653	NOC	

Source: Bloomberg (July 2021) & Author analysis

<sup>&</sup>lt;sup>16</sup> Source: OPEC in World Economic Outlook.

<sup>&</sup>lt;sup>17</sup> Similar evolution for organic capital expenditures.

<sup>&</sup>lt;sup>18</sup> However, balancing high dividend payouts with capital discipline and sufficient reinvestment to replace reserves throughout the oil price cycle will continue to be a challenge, especially if crude oil prices drop to under \$40/bbl.

#### **Porter's 5 Forces**

#### Threat of new entrants | Low (2)

The threat of newcomers into the industry is relatively low, considering:

- Restrictive government policies and competitive processes to obtain production licensing, which stands for long term and protect the current players:
- **Industry economies of scale**, being necessary a high level of production to reach the break-even and dilute the infrastructure fixed costs;
- **Need of high capital requirements** (WC and CAPEX), in all stages of the value chain, from Exploration (where investments does not even have a return guaranteed) to Refining (with large facilities), passing by R&D (for new technology e new products) see Figure 16, 40, and 41;
- **Difficult access to distribution channels**, dominated by major companies that are vertically integrated, operating in almost every stage of the value chain;
- Expected retaliation from actual players, with substantial financial resources to overcome almost any strategy from newcomers, and with a track record of M&A processes over smaller players.

#### Bargaining power of buyers | Low (2)

Bargaining power of buyers is relatively small, by the following factors:

- **Vertical integration over the value chain** and **cartelization** within the industry gives companies a higher bargaining power than its customers;
- Massive group of different kinds of buyers, comprising single customers (e.g. refined products), industries (e.g. petrochemical) and state companies/incumbents (e.g. gas contracts);
- Price determined in the market (match of supply and demand), being the three main quotations the Brent Blend, the West Texas Intermediate ("WTI") and the Dubai/Oman;
- **Buyers are not price-sensitive**, given that there is no viable solution to massive alternative product substitution; and,
- **High costumer switching costs**, because changing from oil or gas, to another energy source is expensive and only possible in the long-run.

#### Bargaining power of suppliers | Medium (3)

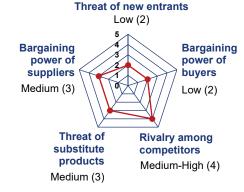
Given that the major players in the industry are **vertically integrated throughout the value chain**, the most relevant suppliers are oil producer countries, because of the following factors:

- States detain the power to allocate the exploration and production licensing;
- There are no alternative substitute products;
- Oil producer countries cartelization, with OPEC having a major market share (Appendix 4.5); and
- Oil producer countries might integrate forward in the value chain, creating a NOC to explore their national resources.

Although this is the powerful side of the negotiation, some **factors might offset** this power, such as:

- Disruption in the cartel organization (e.g. 2020 OPEC+ disagreement);
- Political tension and economic sanctions (e.g. Syria and Iran); and,
- Many countries are heavily dependent on oil exportation for financial stability.

Figure 45 - Oil & Gas industry Porter 5 Forces



**Legend:** Scale of 1 to 5 (from lower to higher threats to industry companies)

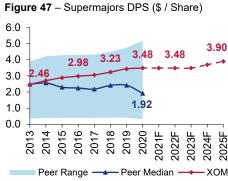
Source: Author analysis



Peer Range — Peer Median — XOM

Source: Bloomberg, ExxonMobil and Author Analysis

2013 2014 2015 2016 2017 2018 2019



Peer Range Peer Median XON
Source: Bloomberg, ExxonMobil and Author Analysis

Figure 48 – Peers Book Debt-to-Equity (%)

120%
100%
80%
60%
40%
20%
13.0% 25.6% 19.7% 56.0%
0%
13.0% 25.6% 19.7% 5%
0%
Peer Range — Peer Median — XOM

Source: Bloomberg, ExxonMobil and Author Analysis

#### Threat of substitute products | Medium (3)

The actual threat of substitute products or services is medium, given that:

- No viable solution to massive substitution of plastic and most of petrochemicals;
- Other actual sources of energy tend to lose importance in the global energy mix, for environmental (such as coal) and political reasons; and,
- Alternative energy sources are not expected to substitute hydrocarbons in the short term, only offsetting the rising energy demand.

As above referred, the **threat of substitute products tends to rise in the longrun**, with the search and development of alternative fuels and expansion of renewable energy production.

Rivalry among existing competitors | Medium-high (4)

- There are **many players**, and some of them are roughly **similar in size and power** (the 5 supermajors) See Figure 51.
- **Industry is marginally growing**, so players must struggle for additional market share;
- NOCs might not act based on economic rationality, for instance, pursuing political agendas;
- Products have little or no differentiation; and,
- Exit barriers are high given the decommissioning costs of production stoppage (e.g. costs of shutting down a well or abandoning a refinery).

Although the previous factors, some characteristics of the industry partially offset the competition level, such as:

- Players do not compete on price, which is formed in the market by supply and demand match; and,
- Players try to differentiate on brand and services delivered.

Figure 49 – Peers interest-bearing debt ratio (%)

50%
45%
40%
40%
32.5%
30%
25%
20.3%
12.9% 10.9%
6.5%
10%
5%
6.5%
10%
Peer Range — Peer Median — XOM

Source: Bloomberg, ExxonMobil and Author Analysis

Figure 50 – Peers debt coverage (%) 160% 120% 57% 80% 29% 20% 24% 40% 0% -40% -80% 2017 Peer Range -- Peer Median -Source: Bloomberg, ExxonMobil and Author Analysis

Figure 51 – Supermajors Total Assets (\$'Bn)

CVX

TTE

BP

266

RDSA

379

XOM 333 - 100 200 300 400

Source: Bloomberg and Company data

#### **SWOT Analysis**

Figure 52 - SWOT Analysis

# Strengths

- Fully integrated business:
- Historical highest reserve base and average reserve life compared to other supermajors;
- Highest upstream production compared to other supermajors;
- Firm downstream operation with the largest refining capacity among supermajors;
- Increasing efficiency
- High historical M&A activity improved portfolio;
- Brand power;
- Strategic agreements and partnerships

#### **Opportunities**

- Strategic Advantage in Permian, Guyana and LNG pipelines, with large potential to increase production growth;
- Commercial opportunities linked to the energy transition (Advanced biofuels and CCS);
- Investment in fuel cell technology and hydrogen;
- Long-term emerging markets increase demand for oil & gas;
- Deep water and US tight oil.

Source: Author analysis

#### Weaknesses

- Low oil and gas prices:
- Low ESG scores, compared to other supermajors;
- High leverage compared to ExxonMobil history;
- Cyclical business;
- High maintenance costs of the existing infrastructure.

## Threats

- Slow pace of COVID-19 vaccine distribution and possible new variants to emerge;
- Energy transition trends;
- Geopolitical context and supply tension (e.g. OPEC+ non-compliance with production quota; and, production disruption in countries under economic sanctions);
- Environmental laws (Paris climate agreement);
- Oil spills with high economic, environmental and reputational costs;
- Labor union strikes:
- Governments regulations;
- Terrorism / sabotage (e.g. strong presence in unstable countries)

# 5. Investment summary

The base case recommendation for XOM is to HOLD, with a 2022YE PT of \$75.5/Sh., representing an upside potential of 20% in 18 months, corresponding to an annualized return of 12.7%, against the closing price of \$63.08/Sh., as of 30<sup>th</sup> June 2021, however, with a **High Risk** (Appendix 5.1, 5.2 and Figure 53).

Blue and Grey Scenarios were determined with a 2022YE PT of \$89.1/Sh. and \$51.3/Sh, respectively, considering the assumptions in Figure 54.

Despite the base case neutral recommendation, **XOM's stock is trading at a discount**, mainly explainable by: i) exposure to **high volatility in oil & gas prices**; ii) **uncertainty in global economic growth**, following the pandemic economic crisis; and, iii) **ambiguity over the industry energy transition** and **XOM's controversial environment issues and historical position**. Nevertheless, **the recommendation is based on the following key pillars**:

Strong project pipelines with attractive economics (i.e., low Brent oil price index break-evens at 10% IRR), particularly the **Permian basin**, **Guyana** and **LNG portfolio** in Upstream and the **Beaumont Light-Crude Expansion** in Downstream and the **Corpus Christi** site in Chemicals.

**Significant Proved Reserves**, compared to peers, despite the 32% YoY decline, in FY2020, from 22.4 BBoe to 15.2 BBoe;

Integrated Business, with significant synergies within the three segments. 90% of XOM's central capacity is integrated with large refineries or natural gas processing plants. Following the FCFF Sum of the Parts ("SoP") approach, it is estimated that synergies represent circa 8% of the Company's EV, i.e., \$31Bn;

**High dividend commitment**, but questionable, partly due to **high retail ownership**, followed by a significant increase in the interest-bearing debt-to-book Equity from 2018YE's 19.3% to 43% in 2020YE, and reduction of Capex and Opex, which, **if not managed carefully, might compromise growth**.

#### **Valuation Methods**

Several **absolute methodologies** were computed to determine XOM's Price Target, with similar conclusions, **ranging from \$75.0/Sh. to \$78.7/Sh.** (Figure 55 and Appendix 5.1). The **FCFF discounted at WACC** was used as **the base model**, following a **SoP approach complemented with an integrated approach**, where implied synergies between segments were determined. Other methodologies were computed to complement the base model, including FTE, CCF, DDM and a high-level approach of NAV<sup>19</sup>. **Relative valuation methodologies** were also determined, but results were considered **not significant in the recommendation decision**.

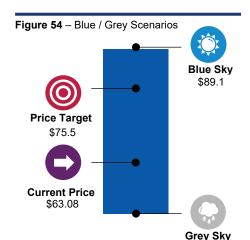
#### **Investment Risks**

XOM is exposed to **significant risks**, that must be highlighted to Investors. **XOM stock price is highly sensitive to commodities price**, particularly, Brent (Figure 56). Additionally, there is an emphasis on the **environment and operational risks**, particularly, in the case of an **oil spill**, that, although unlikely, **it would significantly impact XOM's PT**, changing the base case recommendation. Additionally, lower ESG combined scores compared to peers and industry, might also impact the recommendation, for an **ESG concerned investor if the Company does not make efforts to mitigate environmental controversies**.

Figure 53 - XOM's 2022YE PT (\$/Share)



Source: Author analysis



Scenarios Assumptions						
Description	Base Case	Blue Scenario	Grey Scenario			
Brent Long-term Price	\$55/Bbl	\$65/Bbl	\$45/BbI			
Henry Hub Price	\$1.80/MMBtu	\$2.60/MMBtu	\$1.80/MMBtu			
G Grow th	2.5%	2.5%	2.2%			

\$57.8

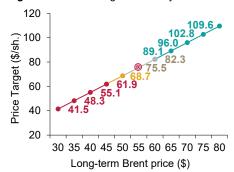
Source: Author analysis

Note: Not at scale

**Figure 55** – Summary of relevant Valuation Methodologies vs. Current Price (\$/Share)



Figure 56 - Price Target sensitivity to Brent



Source: Author analysis

<sup>&</sup>lt;sup>19</sup> Please see details over the rationale of NAV in the Valuation Chapter. Additionally, other absolute valuation methodologies were determined, such as Economic Profit and APV but considered not relevant.

# 6. Valuation

For ExxonMobil's valuation, please refer to the Forecasted macroeconomic and operational data in Appendix 6.1, standardized, rearranged and common-size financial statements, as well as complementary tables in Appendix 6.2 and 6.3, and a high-level rationale of the assumptions for relevant variables and inputs in Appendix 6.4.

## Free Cash Flow to the Firm - Sum of the Parts Approach

FCFF SoP was the base model used for ExxonMobil's valuation, aligned with the Integrated approach. It was determined XOM's PT, with a two-stage DCF, where a detailed 2021-25F FCF schedule was computed, complemented with a stable growth rate model in the perpetual period. A WACC rate was also determined for each segment. The FCFF SoP yields a 2022YE Price Target of \$75.5/Sh., corresponding to an annualized return of 12.7%, against the closing price of \$63.08/Sh. (Appendix 6.5 and Figure 57).

Following the FCFF SoP approach, the **majority of XOM's Enterprise Value comes from the Upstream segment**, which represents circa 58%, followed by Downstream with 22% and Chemicals with 14%. It is also estimated that **synergies between these segments are significant**, representing circa 8% of XOM's Enterprise Value and almost 10% of XOM's Equity Value.

The main drivers that contribute to the FCFF valuation are: i) **Commodities Prices** and **XOM's realization**; ii) **Downstream and Chemicals Margins**; iii) **Business segments production growth**; iv) **WACC rate assumptions**; and, v) **Long-run sustainable growth rate and terminal value**.

#### **Commodities Prices and XOM's realization**

As previously referred in previous sections, **commodities prices are the main key value driver for revenue growth**<sup>20</sup>. Author projections over Brent oil index were based on the information provided by the EIU. **XOM's oil price realization is naturally correlated with Brent's oil price index**, and therefore, **it is expected to follow the same trend**, corresponding to \$46.0/b in 2025F (Figure 58). The same rationale applies to **Henry Hub's gas prices and XOM's natural gas realized prices**, corresponding to \$2.2/Mcf in 2025F (Figure 59).

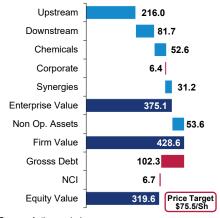
#### **Refining and Chemicals Margins**

Refining and Chemicals Margins are also naturally linked to the Commodities Prices. The refining margins depend on the oil & gas prices, affecting the crack spreads, and it is expected a stabilization between 2021F and 2025F, from 16.9\$/b and 17.3\$/b to 15.3\$/b and 13.2\$/b, regarding U.S. and non-U.S., respectively (Appendix 6.1). The Chemicals Margins are expected to follow the same evolution of Brent's oil price, considering the 2025F projections over the price of prime products of 0.90\$/lb for U.S. and 0.62\$/lb for non-U.S. (Figure 60).

#### **Business segments production growth**

Business production growth analysis was performed project by project. ExxonMobil provided guidance over the 2025F Upstream production target of 5.0 Mboe/d, driven by the Permian Basin, Guyana and the LNG portfolio expansions. However, it is likely to be revised, considering that, i) despite the projects with attractive economics, XOM has consistently delivered overly optimistic production scenarios, missing the targets defined (Appendix 2.3), and, ii) due to savings in capex, several delays in the Upstream expansions are expected,

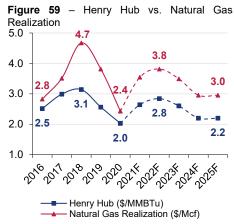
Figure 57 – FCFF SoP Equity Value Breakdown (\$'Bn)



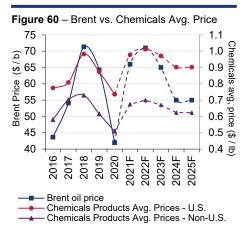
Source: Author analysis

Figure 58 - Brent vs. XOM realization (\$/b) 80.0 71.0 71.3 70.0 55.0 60.0 50.0 40 0 30.0 2020 2027F 2010 2022 20234 - Brent Oil Price XOM Realization

Source: Refinitiv and Author analysis



Source: Refinitiv and Author analysis



Source: Refinitiv and Author analysis

<sup>&</sup>lt;sup>20</sup> Please revisit Industry key drivers of profitability section for further details.

with an **estimated total impact in revenues of \$7.7Bn**, between 2021F and 2025F. Therefore, it was estimated a **2025F production of 4,138 Mboe/d**, with a **2020-25F CAGR of 1.9%** (Figure 61).

Regarding Downstream, the refinery throughput is expected to grow from 3,773 MBbls/d to 4,375 MBbls/d in the 2020-25F period, corresponding to a 3% CAGR. This growth is driven by the expected improvement of the refining capacity from 4,775 MBbls/d to 5,058 MBbls/d in the same period, corresponding to a 1.2% CAGR and the enhancement of refining utilization, from 79% to an average of 87% (Appendix 2.6 and Figure 62).

Regarding Chemicals, in 2020-25F, it is expected a 6.4% CAGR in prime product sales, considering: i) the expected 5.5% CAGR in the production capacity, from 28.2 MMTA to 36.9 MMTA; and, ii) improvement of utilization rates from 85.4% to 90.6% (Figure 63, Appendix 2.7 and 6.1).

#### **WACC** rate assumptions

The FCF were discounted using the WACC method, considering the **long-term debt-to-equity** target of **30%**, defined by ExxonMobil and, therefore, **a stable capital structure is expected**, in the long-run. It is not reasonable to assume Debt-to-Market Equity to be stable in the 2021-25F, considering the **high level of debt underwritten by the Company** due to tactical measures over the pandemic.

The cost of equity was determined using the CAPM. The model includes i) a 1.28% RFR, corresponding to the 10-year YTM of the U.S. Treasury Bond, i.e., the local bond methodology, assuming a null CRP, since the Company's country is the U.S.; ii) MRP of circa 6%, based on Fernandez (2021), adjusted with the above RFR and a null sovereign default risk spread; and, iii) different unlevered betas corrected for cash for each segment, based on the pure-play method, considering each industry average benchmark (Table 7 and Appendix 6.6).

The integrated approach used the regression beta methodology against the S&P500 index, with the Blume adjustment, which resulted in a levered beta of 1.26 (Table 7 and Appendix 6.6).

The **1.91% cost of debt was determined using the Default Risk Model**, with an estimated Company Default Spread of 0.63% (Table 7 and Appendix 6.6).

#### Long-run sustainable growth rate and terminal value

The second stage of the DCF model consists of a perpetuity, in which was determined ExxonMobil's terminal value, using the **stable growth model**. The following steps were also performed: i) **normalization of FCF**; and, ii) **determination of the long-run sustainable growth rate**.

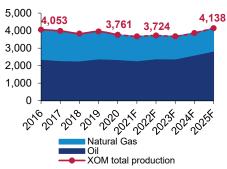
#### **Normalization of Cash Flows**

It was determined the normalized NOPAT, to adjust the FCFF to the business cycle fluctuations and provide the mid-cycle cash flow. This normalization was performed through a linear regression in the 2018-25F NOPAT, to reflect the 7-9 years business cycle (Appendix 6.7).

Long-run sustainable growth rate (g)

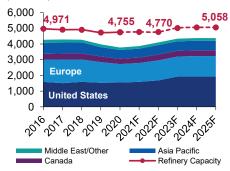
The **2.55% long-run sustainable growth rate** was determined, considering the **oil mix weighted CAGR of demand for oil & gas**, in the 2025-40 period, adjusted to inflation, reflecting the IEA STEPS, as a **conservative approach**.

Figure 61 - XOM Total Production (MBoe/d)



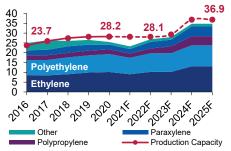
Source: Company data and Author analysis

**Figure 62** – Refinery throughput vs. Capacity (MBbls/d)



Source: Company data and Author analysis

**Figure 63** – Chemicals Prime Product Sales vs. Capacity (MMTA)



Note: Production Capacity excludes "Other" typology Source: Company data and Author analysis

Table 7 - WACC determination and Weights

Description	2023F	2024F	2025F	Terminal				
Cost of Equity (R <sub>e</sub> )								
RFR	1.28%	1.28%	1.28%	1.28%				
MRP	6.02%	6.02%	6.02%	6.02%				
β <sub>L</sub> - Integrated	1.26	1.26	1.26	1.26				
β <sub>L</sub> - Upstream	1.42	1.41	1.41	1.41				
$\beta_L$ - Dow n. & Chem.	1.18	1.18	1.18	1.18				
D/E	30.0%	30.0%	30.0%	30.0%				
Tax rate	18.8%	20.4%	19.7%	19.7%				
R <sub>e</sub> - Integrated (CAPM)	8.9%	8.9%	8.9%	8.9%				
Upstream	9.8%	9.8%	9.8%	9.8%				
Dow n. & Chem.	8.4%	8.4%	8.4%	8.4%				
Cost of Debt (R <sub>d</sub> )								
Cost of Debt	1.9%	1.9%	1.9%	1.9%				
Cost of Debt, after Tax	1.6%	1.5%	1.5%	1.5%				
WACC								
WACC - Integrated	7.2%	7.2%	7.2%	7.2%				
WACC - Upstream	7.9%	7.9%	7.9%	7.9%				
WACC - Dow n. & Chem.	6.8%	6.8%	6.8%	6.89				

2023F

23 1%

76.9%

2024F

23.1%

76.9%

Target Weights

Description

Debt Weight

Equity Weight

2025F Terminal

23 1%

76.9%

23 1%

76.9%

## Free Cash Flow to the Firm - Integrated Approach

Complementing the SoP Approach, it was performed the **XOM valuation as a whole company**. The same DCF methodology was applied, adapting the WACC rate to 7.6%, to reflect the integrated business synergies, **yielding a 2022YE Price Target of \$75.5/Sh.** (Appendix 6.5).

#### Flow to Equity

Complementing the FCFF methodologies, it was determined the FTE model. Using the **8.9% cost of equity** referred above, this model indicates a **2022YE PT of \$78.7/Sh.**, providing consistent results with FCFF (Appendix 6.8). Although the difference to the FCFF model is not significant, the deviation is mainly explained by: i) the interest expense forecasted has in consideration old debt in Company books<sup>21</sup> and only new debt is paid at the cost of debt; ii) the operating cash effective tax rate is not fixed in the explicit period (Figure 64), iii) the debt structure changes in the **2021F-25F period** (Figure 65). Consequently, FTE was not considered the primary valuation model for the recommendation.

#### **Capital Cash Flow**

CCF was determined to complement FCFF methodologies, yielding a **2022YE PT** of \$75.4/Sh., providing similar results<sup>22</sup>. This model determined an unlevered cost of capital (Pre-tax WACC) of 6.1% (Appendix 6.9).

#### **Dividend Discount Model**

As previously referred, ExxonMobil has provided **consistent growing dividends over the last decades, failing to raise dividends for the first time, in FY2020**. However, despite some of the European peers having cut dividends, due to the coronavirus crisis, ExxonMobil has chosen to increase the amount of debt and maintain dividends. Therefore, DDM is a suitable model and it is estimated a 2022YE PT of \$75.6/Sh., determined through two-stages.

In the first stage, it is determined the **cash flows associated to shareholders**, i.e., **dividends** (Figure 66)<sup>23</sup>.

The second stage applies the H-Model<sup>24</sup>, where it was considered i) an **initial** short-term dividend growth rate of 6.1%, aligned with the projected nominal world GDP growth, ii) an **half-life of the high-growth period of 8 years**, coherent with the oil & gas industry business cycles; and, iii) a 2.5% long-term dividend growth rate, consistent with the FTE model (Appendix 6.10).

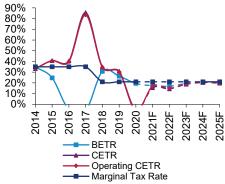
The DDM also implies a 2025F payout ratio of 81%, ii) a dividend coverage ratio of 1.06x<sup>25</sup>, and, iii) a 85% dividend coverage over FCFE, assuming XOM's policy will change to become sustainable in the long-term (Figure 67).

#### Net Asset Value (Upstream) & FCFF SoP for Down. & Chemicals

DCF models have disadvantages in the valuation of oil & gas companies: i) there is an unreasonable assumption of perpetuity of companies, but natural resources are finite and scarce; ii) DCF models do not take into account a

<sup>21</sup> It was computed a detailed debt schedule, where the interest rate of each debt was considered.

Figure 64 – Cash Effective Tax Rate vs. Book Effective Tax Rate vs. Marginal Tax Rate (%)



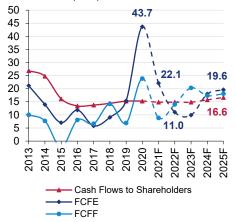
Source: Company data and Author Analysis

**Figure 65** – Market Debt-to-Equity vs Total Debt (\$'Bn)



Source: Company data and Author Analysis

Figure 66 – FCFF vs. FCFE vs. Cash flows to Shareholders (\$'Bn)



Source: Company data and Author Analysis

**Figure 67** – Dividends (\$'Bn) vs. Organic FCF Coverage Ratio (x)



Source: Company data and Author Analysis

<sup>&</sup>lt;sup>22</sup> It was also determined a 2022F PT of \$77.6/Sh., using the APV model. However, it is the preference of the author that the ITS should be discounted at the unlevered cost of equity, since the company actively manages its capital structure to reach a D/E target of 30% (Ruback, R.S., 2000, March 22).
<sup>23</sup> It is not expected share repurchases by ExxonMobil.

<sup>&</sup>lt;sup>24</sup> A Gordon Growth Model where it is applied an higher dividend growth rate, in the short term, ensuring a smoother transition to a mature phase, with a lower dividend growth rate.

 $<sup>^{25}</sup>$  Organic FCF coverage over dividends, i.e., Dividends represent 95% of 2025F organic FCF. It is defined organic FCF as cash flows from operations less organic less capex including cash capex towards affiliates. (Please see Appendix 6.2 – Cash Flow Breakdown, for details).

major oil & gas value driver, i.e., Proved Reserves; iii) they are highly dependent on the Terminal Value, which relies on long-term predictions of oil & gas prices; and, iv) high capital expenditures requirements that may create decreasing or even negative cash flows.

To circumvent these drawbacks, NAV models are commonly used to valuate oil & gas companies<sup>26</sup>, considering the following features:

- NAV should be performed at an individual asset level and, based on estimated projections, it is determined the value of the company as a whole, at the end of the valuation;
- Assumption of no capital expenditures nor reinvestment, with no additions to existing reserves, except for development costs over Proved Undeveloped Reserves;
- Focus only on cash flows linked to oil & gas exploration and production;
- No assumption of perpetual growth Production only takes place while the company have proved reserves available, i.e., completely runs out of natural resources.
- Cash flows are discounted at 10%, using the PV10 method, which is consistent with the upstream 9.8% cost of equity that was determined.

This model used **a high-level approach**, since no detail per project is provided <sup>27</sup>, using the sum of the revenues, expenses and development costs linked to Upstream production, as a **proxy**. Regarding **Downstream and Chemicals**, it was used the **previously determined FCFF SoP valuation**. Using this model, it was determined a **2022F PT of \$75.0/Sh., consistent with the main model** used (Appendix 6.11).

Regardless of the advantages of the model, the author met **several limitations**, which explain not using NAV as the primary model:

- ExxonMobil does not provide information regarding probable and possible reserves (Appendix 2.9);
- Although not material for the valuation, it was performed strong assumptions in the high-level estimation of the undeveloped acreage value, with no production (Table 8);
- ExxonMobil does not provide detail of proved reserves as well as production & developments costs per project; and,
- NAV is more appropriate to focused E&P companies.

Additionally, **64% of the FCFF model's Enterprise Value** (integrated approach) **comes from cash flows to be generated between 2023F and 2045F**, i.e., the explicit period and the first 20 years of the terminal period, partly **circumventing the limitation of the perpetuity assumption** (Table 9).

# **Multiples Based Valuation**

Besides the absolute valuation models, MBV models were used, including TTM MBV and 2022F MBV models, but **both have limitations**.

#### **Peer Group Selection**

The peer group selection was performed combining **corporate intelligence procedures** and the **Top 6 players using the Sum of Absolute Rank Difference** ("SARD") **approach** (Table 10, Appendix 6.12 and 6.13).

Table 8 - NAV Undeveloped Acres estimations

XOM's Net Undeveloped Acreage							
Region	Acres	\$ /	Value				
Region	(thous.)	Acre	(\$'Mn)				
United States	3,031	350	1,061				
Canada	6,514	250	1,629				
Other Americas	12,471	250	3,118				
Europe	6,232	250	1,558				
Africa	24,707	200	4,941				
Asia	280	200	56				
Australia/Oceania	6,265	250	1,566				
Total	59,500		13,929				

Table 9 – Explicit Period vs. TV (\$'Mn)

XOM's Enterprise Value (\$'Mn)						
Description Amount %						
Explicit Period	48,787	13%				
TV - 20 Years	191,233	51%				
Subtotal	240,021	64%				
TV - Remaining Years	135,033	36%				
Total	375,053	100%				

Table 10 - MBV XOM's peers

SARD Rank	Company	SARD Result
1	Chevron	18
2	BP	22
3	Shell	46
4	TotalEnergies	47
5	ENI	55
6	Suncor	58

<sup>&</sup>lt;sup>26</sup> For further detail over NAV models, please see: i) Howard, A. & Harp Jr., A. (2009); and, ii) S Valčić,

S., Crnković-Stumpf, B. & Katunar, J. (2013). <sup>27</sup> Except for oil & gas productions. The high level approach is also referred by Howard, A. & Harp Jr., A. (2009) and *Breaking Into Wall Street (n.d.)*, regarding oil & gas valuations.

#### Multiples Selection and specific oil & gas operating metrics

Besides the standard Price and EV Multiples, oil & gas companies' MBV can be performed through **specific industry multiples**. **EV/EBITDAX**<sup>28</sup> is preferable to EV/EBITDA, so companies that adopted different accounting policies can be compared <sup>29</sup>. **EV/DACF**<sup>30</sup> is also commonly used, since: i) it adjusts the effects of companies with different capital structure; and, ii) it adjusts the effects of taxes, since oil & gas fossil fuels have high tax burdens <sup>31</sup>. **EV/Proved Reserves** and **EV/daily Production** are also frequently used but are more appropriate to **E&P focused companies**.

#### **Trailing Twelve Months (TTM)**

TTM Price Multiples have provided inconsistent results since the peers selected have different capital structures (Appendix 6.14, Figure 68 and 69). Based on TTM EV multiples, excluding Proved Reserves and Daily Production, 2022F Price Targets range between \$52.2/Sh. and 66.3/Sh. EV multiples are usually more reliable but, considering the corona virus exogenous shock on companies' fundamentals, XOM's peers are mispriced and also provide inconsistent results. Additionally, TTM multiples are not ideal for determining 2022F Price Targets, since they rely on historical data, rather than projected 2022F fundamentals.

#### 2022F Multiples

2022F multiples were also determined, where fundamentals<sup>32</sup> from ExxonMobil's peers were estimated using Bloomberg estimates. However, these multiples also **provided undervalued 2022F Price Targets**, **ranging between \$26.4/Sh. and \$48.4/Share**. This is because multiples denominators are based on projected 2022F values, but EV (numerator) regards to June 30, 2021 (instead of a projected 2022F EV<sup>33</sup>), resulting in an undervalued Price Target.

Based on the limitations above, MBV was not considered relevant for ExxonMobil's valuation.

#### Other methodologies determined but not used

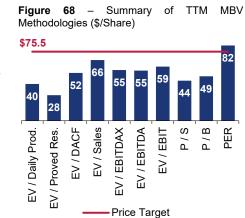
The Author also determined a 2022YE PT of \$50.2/Sh., using the **Economic Profit model**. Nevertheless, despite the rearrangement of financial statements and R&D adjustments, this model relies on accounting data, that is subject to biases. Further adjustments are required to provide reliable results. Additionally, as referred, **APV was also determined** but the Author preferred the CCF model (Figure 72).

#### **Author vs. Consensus**

Author recommendation is aligned with consensus, with 59% of Neutral / Hold recommendations (Appendix 5.2).

Although with slight differences, Author projections are not far from consensus. ExxonMobil's 2024F oil realization projections are marginally higher than consensus (3.4%), but Revenue is aligned (only 1% higher). Author 2024F EBITDA projections are more conservative (5% lower) as well as 2024F EBIT (6% lower).

The Author's projected XOM's dividend policy is aligned with consensus in 2024F, with a similar DPS.



Source: Author analysis

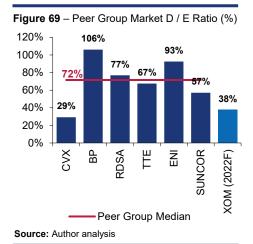


Figure 70 – 2022F MBV Valuation (\$ / Share)



Figure 71 – Valuation Models not used (\$ /Sh.)



Source: Author analysis

<sup>&</sup>lt;sup>28</sup> EBITDAX means Earnings before interest, depreciation, amortization, and exploration.

<sup>&</sup>lt;sup>29</sup> In Successful efforts standard unsuccessful exploration is expensed and in Full cost standard it is capitalized.

<sup>&</sup>lt;sup>30</sup> DACF = Cash Flows from Operations + Financing Costs (After Tax).

<sup>&</sup>lt;sup>31</sup> Source: Jewell, H. (2009) and Investopedia.

<sup>32</sup> It was extracted Bloomberg estimates ("BEst") regarding to earnings, sales, EBITDA and EBIT.

<sup>33</sup> Neither Bloomberg nor Refinitiv provide estimations to 2022F Enterprise Value.

# 7. Financial Analysis

#### Capital Discipline leads to higher profitability

ExxonMobil has been the **best in class in profitability due to its strong portfolio**. Operating Margins have historically been higher than peers. However, the COVID-19 crisis led to a drastic drop to negative **15.5%**, below peers. With the increase of oil realizations and chemical margins and the stabilization of the refining margins, **2025F operating margin is expected to recover to 11.5%** (Figure 72 and Appendix 7). Similar evolution projected in **2025F gross margins** and **net profit margins**, stabilizing to **33.6%** and **8.1%**, respectively (Figure 17 and Appendix 7).

ROCE has also been historically higher than peers, but the advantage has been eroding in the last years, changing from 19.4% to -1.4% in the 2013-20 period. It is also expected recovery to 9.6% in 2025F (Figure 39 and Appendix 7).

Assets turnover have been historically following peers, which is explained by many assets being co-explored, in joint ventures, expecting a recovery from 73% to 111% in the 2020-25F period (Figure 13 and Appendix 7).

#### Materially weakened leverage ratios

**ExxonMobil** has historically been the least leveraged company between peers, with interest-bearing debt coverage, interest-bearing debt ratio and interest bearing Debt-to-Book Equity ranging 20%-147%, 6.5%-19.2%, and 13%-26%, respectively, in the 2013-19 Period (Figures 48 to 50 and Appendix 7). This means that **ExxonMobil** was the most financially prepared supermajor to mitigate the adversities of **COVID-19**, having margin to increase debt.

Nevertheless, ExxonMobil's leverage increased significantly in 2020, to a 43% Book D/E, which is expected to grow to 56% in 2021F. Yet, assuming ExxonMobil will reduce spending plans in 2021F-25F, higher oil prices and recovery in Downstream and Chemicals segments, Debt-to-Market Equity is expected to decrease and stabilize in 2024F-25F, to the defined target of 30%. Additionally, 2025F interest-bearing debt coverage and interest-bearing debt ratio are expected to stabilize to 29% and 33%, respectively.

Interest-bearing Debt-to-EBITDA is expected to decline in the 2020-25F period, from 7.26x to 2.79x., considering the expected growth in EBITDA (Figure 73).

#### Improving liquidity to deal with uncertain economic conditions

Historical **low interest-bearing debt ratios**, combined with **efficiencies in working capital**, with **cash cycle below peers**, allowed ExxonMobil to have **lower cash ratios**, ranging **between 4.8% and 7.7% in the 2013-2020 period** (Figure 74 and 75). However, with higher leverage and higher cash cycle in 2020F and 2025F, it is **expected a rise in the 2021F cash ratio to 12.3% and stabilization to 5% in 2025F**, below peers and IOC industry but aligned with historical figures.

#### **Recover in Cash Flow Generation**

ExxonMobil's DACF lead has eroded in the 2017-19 period and has decreased significantly in 2020 to \$15.9Bn. However, it is expected a recovery, with a 2020-25F 22.7% CAGR, leading to \$44.2Bn in 2025F (Figure 77).

Nevertheless, ExxonMobil must ensure the balance between debt management and the dividend policy to secure the business sustainability and resilience.

Figure 72 – Operating Margin (%) 20% 13.7% 11.5% 15% 8.6% 10% 5% 0% -5% -10% -15% -20% 2014 2015 2016 2017 2018 Peer Range Peer Median Source: Bloomberg, ExxonMobil and Author Analysis

Figure 73 - Interest bearing Debt-to-EBITDA (x)

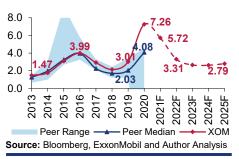
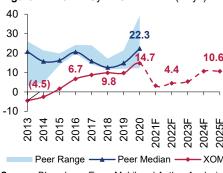
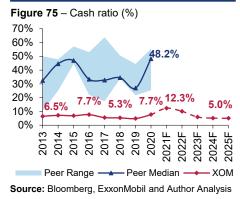
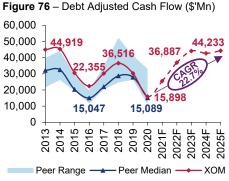


Figure 74 - Cash Cycle Conversion (Days)



Source: Bloomberg, ExxonMobil and Author Analysis





Source: Bloomberg, ExxonMobil and Author Analysis

### 8. Investment Risks

#### Risk identification and characterization

ExxonMobil is subject to significant risks that may materially impact its business. Among these risks, it is possible to assemble them by the following categories: i) Market Risks; ii) Political, Legal & Regulatory Risks; iii) Operational Risks; iv) Environment & Geological Risks; and, v) Resources Risk (Figure 77).

#### **Market Risks**

#### **Commodities Prices volatility (M1)**

ExxonMobil segments are fundamentally commodity businesses, i.e., the Company's operations, earnings and cash-flows are highly sensitive to changes in oil & gas prices. A material decline in the commodities prices could have significant impact on Upstream operations and proved reserves, which might lead the company to reassess if assets are still economically viable (Appendix 8.2). Alternatively, a material increase in commodities prices could have a material impact on Downstream and Chemicals operations. These effects are relatively mitigated through ExxonMobil integrated business model. However, ExxonMobil, as the major player in the industry, is not able to hedge this risk through financial derivatives, due to the Company's business size.

Oil & Gas prices high volatility is significantly influenced by **demand and supply** and, therefore, this **risk is highly correlated with the remaining risks** below (Figure 78 and 79).

#### World GDP Growth (M2)

Energy demand is highly dependent on broad-based economic activities and levels of prosperity. Recessions or long periods of low economic growth **might lead to a decline in commodities prices**, impacting ExxonMobil business adversely.

COVID-19 pandemic led to a **crash in commodity prices** and margins. **Current Oil & Gas prices projections might have to be reassessed**, depending on the evolution of the pandemic crisis. If new Covid-19 variants cause a renewed outbreak in major countries, such as China or the US, **the resulting hit to global economic activity could bring oil & gas prices down**.

#### **Energy Transition (M3)**

The global economy is still currently reliant on fossil fuels and, depending on the IEA scenarios, are still expected to be the most demanded energy source. However, in mature markets, renewables will be a growing energy source and dependency on fossil fuels will erode. Additionally, electrification in light weight transportation might lead to a decline in refined petroleum products demand.

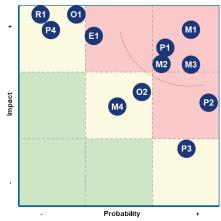
ExxonMobil has recently announced a **new segment dedicated to Low-Carbon Solutions**. The Company is **significantly investing** in developing breakthrough energy efficiency processes related to **CCS**, **fuels cells**, **hydrogen and advanced biofuels**, **mitigating the energy transition risks**.

#### Political, Regulatory and Legal Risks

### Political Instability (P1)

Political instability and substantial changes in the legal and regulatory environment may harm ExxonMobil's international operations. ExxonMobil has **significant operations in countries with the danger of disruption** by civil unrest, acts of sabotage or terrorism and other local security concerns. These events **may require the Company's production to shut down for a specific period.** 

Figure 77 - Risk Matrix



Legend:

**Impact** – Economic-financial translation of potential risk impact on yield, growth, market share, operational efficiency, organizational efficiency

**Probability** – Degree of likelihood of risk materialization

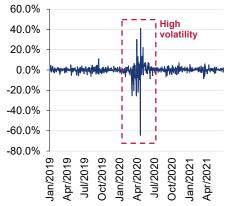
Source: Author analysis

Figure 78 - Risks Relationships



**Source:** Adapted by author, based on "Risk Management Case Study – Oil & Gas Industry", Institute and Faculty of Actuary and EKT.

Figure 79 – Brent oil index daily returns (%)



Source: Refinitiv, IEA and Author analysis

Additionally, global oil & gas supply is highly dependent on OPEC+. A **potential** disagreement on production quotas by OPEC+ members, comparable to 2020, might increase commodities supply, leading to significant price drops.

Paris Agreement and Climate change regulatory frameworks (P2)

Driven by concerns over climate change, several countries have adopted regulatory frameworks to reduce GHG emissions and achieve the 2°C Scenario of the Paris Agreement, shifting demand toward lower-carbon sources of energy and restrict production or use of oil & gas (Figure 80). This increases the Company's cost of compliance, requiring additional capital expenditures, and may reduce or delay available business opportunities.

Growing concerns over ESG issues, specifically the environment, may impact major shareholders' investment decisions. Historical and recently controversies by ExxonMobil, regarding environmental issues, might lead to investing discouragement in the Company. The Author assessed a specific scenario regarding a concerned ESG investor.

#### **Operational Risks**

Oil Spill and other industrial hazards (O1)

Oil spills and industrial hazards are inherent oil & natural gas industry but might tremendously impact Company results. ExxonMobil is dependent on its Management ability to implement an effective internal control framework that mitigates these risks. Following BP Deepwater Horizon and Exxon Valdez oil spills, the Company has successfully implemented a rigorous hazards prevention system.

Due to the massive impact these hazards might have on ExxonMobil results and reputation, **the Author determined an oil spill scenario**.

#### **Environment & Geological Risks**

**Natural Disaster (E1)** 

ExxonMobil operations include remote and occasionally inhospitable regions. Therefore, the **Company production might be subject to disruption due to natural disasters** such as hurricanes, severe storms, floods, other forms of severe weather, wildfires, ambient temperature increases, sea-level rise, fires, earthquakes. **Natural disaster risks might also lead to industrial hazards.** 

#### **Resources Risk**

Resource availability (R1)

ExxonMobil has an extractive business and if the company does not successfully develop new resources, replacing the oil and natural gas produced with good prospects for future organic opportunities or through acquisitions, reserves will decline.

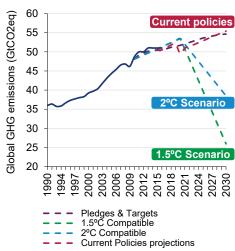
Maintaining a prospect of good organic projects, may depend on i) **Capital discipline**, ensuring completion on schedule and on budget; ii) drilling success; iii) obtain and renew rights to explore; iv) reservoir optimization; v) technology improvements to access previous previously inaccessible fields

These factors could **lead to an increase in capital expenditures and operational costs**, negatively affecting the company cash flows and results.

#### **Risk Assessment**

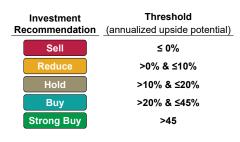
Considering the above, investing in ExxonMobil comprises a high level of risk, with the appropriate recommendation system represented in Figure 81. To reach this conclusion it was performed: i) sensitivity analyses; ii) scenario analyses; and, iii) a Monte Carlo Simulation. The approach is also summarized in Appendix 8.3.

Figure 80 – Historical and projected Global GHG emissions to 2030 (GtCO2eq)



Source: Climate Action Tracker emissions (May 2021)

Figure 81 - Recomendation system (High Risk)



#### **Sensitivity Analysis**

ExxonMobil's main value drivers have significant impacts on the Company's valuation. Therefore, it was analyzed the 2022F Price Target sensitivity to changes in i) the **Long-term Brent oil price index**; ii) the **long-run sustainable growth rate**; and, iii) **Cost of Capital** (WACC)<sup>34</sup>.

#### Brent Price and long-run terminal growth rate (g)

Commodities Price is the main value driver of ExxonMobil Valuation. The base case considers the long-term Brent price to be \$55/Bbls. It is estimated that an increase (decrease) of \$5/Bbls will increase (decrease) PT in ~\$6.8/sh. (ceteris paribus).

Regarding the long-run sustainable growth rate ("g"), the base case considers a 2.55% scenario. There is not a linear relationship between PT and this variable. The g elasticity to XOM's PT, becomes higher as g increases. All other variables remaining equal, the recommendation would only change at a 2.3% and 2.9% g, to a REDUCE and a BUY recommendation, respectively (Table 11).

**Table 11** – PT sensitivity to Brent Price and Long-run sustainable growth rate (\$/Sh.)

PT	PT sensitivity (\$/Sh.) - Brent Price vs. Long-run sustainable growth											
	Long-Term Brent Price (\$ / Bbls)											
	2022F	30	35	40	45	50	55	60	65	70	75	80
(%)	2.9%	46.1	53.5	60.9	68.3	75.7	83.1	90.5	97.9	105.3	112.7	120.1
rowth	2.8%	44.9	52.1	59.3	66.6	73.8	81.1	88.3	95.5	102.8	110.0	117.3
5	2.7%	43.7	50.8	57.9	64.9	72.0	79.1	86.2	93.3	100.4	107.5	114.6
e g	2.6%	42.6	49.5	56.4	63.4	70.3	77.3	84.2	91.2	98.1	105.1	112.0
able	2.5%	41.5	48.3	55.1	61.9	68.7	75.5	82.3	89.1	96.0	102.8	109.6
sustain	2.4%	40.4	47.1	53.8	60.5	67.1	73.8	80.5	87.2	93.9	100.6	107.2
ust	2.3%	39.4	46.0	52.5	59.1	65.6	72.2	78.7	85.3	91.9	98.4	105.0
	2.2%	38.5	44.9	51.3	57.8	64.2	70.6	77.1	83.5	89.9	96.4	102.8
-run	2.1%	37.6	43.9	50.2	56.5	62.8	69.1	75.5	81.8	88.1	94.4	100.8
ong	2.0%	36.7	42.9	49.1	55.3	61.5	67.7	73.9	80.1	86.3	92.5	98.8
Lo	1.9%	35.8	41.9	48.0	54.1	60.2	66.3	72.4	78.5	84.6	90.7	96.8

#### **Cost of Capital (WACC)**

The terminal period WACC used in the base case was 7.2% <sup>35</sup>. There is also not a linear relationship between PT and WACC (Figure 82). The WACC elasticity to XOM's PT, becomes lower as WACC increases. All other variables remaining equal, the recommendation would only change at a 6.80% and 7.33% WACC, to a BUY and a REDUCE recommendation, respectively.

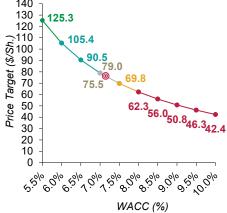
#### **Scenario Analysis**

A blue and grey scenario was assessed, assuming changes in i) Brent Price; ii) Henry Hub; and, iii) long-run terminal growth rate. The blue scenario assumes a \$65/Bbls in Brent and a \$2.60/MMBtu in Henry Hub, leading to a 2022F PT of \$89.1/Sh. The grey scenario assumes a \$45/Bbls in Brent, a \$2.40/MMBtu in Henry Hub and a 2.2% in g, leading to a 2022F PT of \$57.1/Sh.

#### Oil spill scenario

An oil spill scenario is unlikely to happen, but not impossible. Based on BP Deepwater Horizon and Exxon Valdez oil spills events, it is known the direct and indirect costs are significant. Based on studies and the significant number of ExxonMobil wells, it is estimated a 1% annual probability of an oil spill occurrence (Table 12 and Appendix 8.5). It is challenging to predict the costs of a potential oil spill. An oil spill with the impact of Deepwater Horizon would cost a nominal \$65Bn, based on research performed over the event. Assuming the hazard would occur in 8 years, i.e., a business cycle, the impact in the cash flows, discounted at the base case WACC, would be circa \$37.3Bn. This would lead to 2022F PT of \$49.2/Sh. and the recommendation would change to SELL, the moment the hazard of this magnitude occurs.

Figure 82 – PT Sensitivity to WACC (\$/Sh.)



Source: Author analysis

**Table 12** – Estimated XOM's probability and impact in an oil spill hazard

Oil Spill Scenario Probability & Impact				
Probability	Impact in Discounted Cash Flows (\$'Mn)			
1.0%	37,347			

Source: Author analysis

<sup>&</sup>lt;sup>34</sup> It was used the integrated approach of FCFF (WACC) model. It was also analyzed the sensitivity using other models. Please refer to Appendix 8.4.

<sup>&</sup>lt;sup>35</sup> The WACC in the 2023F-25F Period is almost the same, with slightly small changes, due to differences in the operating cash effective tax rate along the explicit period. The sensitivity analysis also considers the change in WACC in the explicit period.

#### ESG concerned investor - the Punitive Vision Scenario

The base case considered a **neutral approach regarding ExxonMobil's lower ESG combined score**, compared to peers.

Damodaran & Cornell (2020) suggested that incorporation of ESG in valuation might lead to three divergent scenarios: i) the **Virtuous Cycle scenario**, where, compendiously, "good" companies are compensated by customers and investors; ii) the **Punitive Vision scenario**, where "bad" companies are punished by customers and investors (Appendix 8.6), and, iii) the **Dystopian Vision scenario**, where "bad" companies are actually rewarded by customers, because they provide cheaper products or because it is convenient and investors buy their shares since the expected returns are higher. Damodaran & Cornell (2020) **concluded that it is** "*highly ambiguous*" how ESG affects the firm value, market price and excess returns, justifying the Author's neutral approach in the base case.

Nevertheless, research suggest that ESG can be incorporated in valuation through i) adjusting the future cash flows of a company; or, ii) applying a premium to the cost of capital<sup>36</sup>. However, there is not a standardized and reliable approach to perform these adjustments.

Assuming Damodaran and Cornell's Punitive Vision scenario, for a ESG concerned investor, the Author applied a premium to the cost of equity, adjusting the unlevered beta.

ExxonMobil's is ranked in the worst quartile considering the whole IOC industry, using the Refinitiv ESG combined score. On weighted average, it was concluded that companies on this quartile have a 12% higher unlevered beta compared to the whole industry. This percentual change was applied to the base case unlevered beta <sup>37</sup>, leading to a 7.9% WACC. Based on this new WACC, for a ESG concerned investor, the recommendation is to REDUCE the portfolio exposition to ExxonMobil, with a 2022YE PT of \$64.3/Share, until the Company makes further efforts to mitigate ESG environmental controversies (Figure 83).

#### **Monte Carlo simulation**

Complementing the above risk assessment, a Monte Carlo Simulation was performed, stressing simultaneously changes in the following drivers: i) long-term Brent price; ii) the long-run terminal growth rate <sup>38</sup>; iii) WACC <sup>39</sup>; and, iv) the possible event of an oil spill.

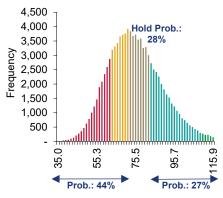
Based on the simulation results, it was reached a mean value of \$75.5/Sh., consistent with the base case Price Target. However, a 28% probability of a HOLD recommendation was estimated, against a 44% of SELL/REDUCE and a 27% BUY/STRONG BUY, corroborating that the level of risk in investing in ExxonMobil is high (Figure 84 and Table 13).

There is also evidence that the commodities price is the most relevant key value driver in ExxonMobil valuation (Figure 85).

Figure 83 - ESG Concerned Investor Scenario



Figure 84 - Monte Carlo Simulation

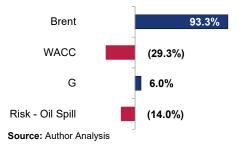


■ Sell ■ Reduce ■ Hold ■ Buy ■ Strong Buy Source: Author Analysis

Table 13 - Monte Carlo statistics

Indicator	Amount
Nº of Trials	100,000
Base Case	75.5
Median	74.2
Mean	75.5
St. deviation	14.7
10th Percentile	58.0
90th Percentile	94.7
Upside Potencial	27%

Figure 85 - PT variables sensitivity



<sup>&</sup>lt;sup>36</sup> Besides Damodaran, A. & Cornell, B. (2020), please see Bos, J. (2014) and Orsagh, M., Allen, J., Sloggett, J. Georgieva, A. Bartholdy. S. & Douma, K. (2018).

<sup>&</sup>lt;sup>37</sup> Using the Integrated approach FCFF (WACC) model.

<sup>&</sup>lt;sup>38</sup> G was considered a proxy to production disruption risks.

<sup>39</sup> Through changes in unlevered beta

# 9. Appendices

# Appendix 1 - Research snapshot

## Appendix 1.1 - Conversion Tables

Conversion Table							
Convert to:	TJ	Gcal	MMtoe	MMbtu	GWh		
From:	Multiply by:						
TJ	1	238.8	2.39x10^-5	947.8	0.2778		
Gcal	4.1868x10^-3	1	1.0E-07	3,968	1.163x10^-3		
MMtoe	4.1868x10^+4	1.00x10^+7	1	3.968x10^+7	11,630		
MMBtu	1.0551x10^-3	0.252	2.52x10^-8	1	2.931x10^-4		
GWh	3.6	860	8.60x10^-5	3,412	1		

Conversion Table				
Convert to:	Metric tonne	Long ton	Boe	Cubic metres (kilolitres)
From:	Multipl	y by:		
Metric tonne	1	0.984	7.33	1.165
Long ton	1.016	1	7.45	1.128
Boe	0.136	0.134	1	0.159
Cubic metres (kilolitres)	0.858	0.887	6.289	1

Source: IEA

So	urc	:е	O	E

Conversion Table							
Convert to:	Cubic feet (cf) Boe						
From:	Multiply by:						
Cubic feet (cf)	1	1.67x10^-4					
Boe	6,000	1					

Source: ExxonMobil

# Appendix 2 - Business Description

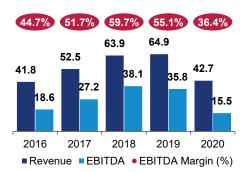
# Appendix 2.1 - ExxonMobil global operations as of 2020YE



Source: Company data, adapted by Author

# Appendix 2.2 - Upstream segment highlights

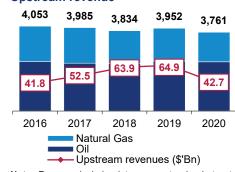
# Upstream revenue & EBITDA (\$'Bn)



Note: Revenue includes intersegment sales but not other intersegment adjustments.

Source: Company data and Author analysis

#### Oil & Gas production (MBoe/d) vs. **Upstream revenue**



Note: Revenue includes intersegment sales but not other intersegment adjustments. **Source:** Company data

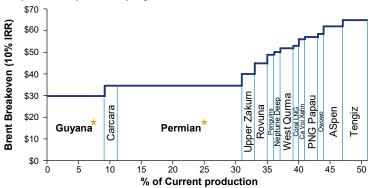


EBITDA - Avg. realized price (\$/Boe) ← F&D (\$/Boe)

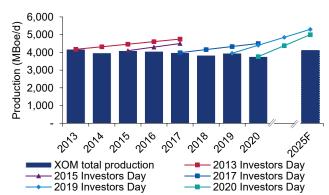
Source: Company data

# Appendix 2.3 - Upstream Projects breakeven and Target Productions

#### Despite the Upstream projects with attractive economics...



...XOM has consistently missed production targets.



Source: Company data and Author analysis.

#### Appendix 2.4 - Upstream Portfolio Breakdown

То	p 10 2020YE Upstream P	rojects	Delayed Key Projects Add	itions (Mboe/	d)									
	0	Dunin et	Pro	duction	(MBoe	(d)	Oh-	Drainet	Country	_	De	Delayed pro		ions
#	Country	Project	Oil	Gas	Total	%	Obs.	Project	Country	Туре	0	il Ga	s	Total
1	Qatar	LNG Joint Ventures, Al Khaleej Gas, Barzan	152.0	497.8	649.8	17.3%		Permian	United States	Unconvention	onal	279	81	360
2	United States	Permian	285.0	82.3	367.3	9.8%		Liza Phase 2, Payara & Other	Guyana	Deepw ater		104	-	104
3	Canada	Kearl	219.0	_	219.0	5.8%		Coral FLNG - Area 4	Mozambique	LNG		3	100	103
4	United Arab Emirates	Upper Zakum	212.0	-	212.0	5.6%		PNG LNG & Pnyang	PNG	LNG		-	128	133
5	Kazakhstan	Tengiz	156.0	28.8	184.8	4.9%		Total				390	308	699
6	United States	Other Lower 48 Dry Gas	21.0	135.7	156.7	4.2%		Impact of delayed proje	rcte					
7	Nigeria	Offshore	149.9	1.5	151.4	4.0%		impact of delayed proje						
8	Canada	Cold Lake	124.0	_	124.0	3.3%		Project	Unit	lm pacted r	net prod	duction	_	bs.
9	United States	Bakken	82.0	22.3	104.3	2.8%		Froject	Onit	Oil	Gas	Total	U	ODS.
10	Australia	North West ShelfGorgon Jansz	5.0	89.0	94.0	2.5%		Quantity Delayed	(Mboe/d)	390	308	699		
	Other	Other	943.1	554.4	1,497.5	39.8%	Over 40 Projects	Oil & Gas prices	\$/b   \$/Mcf	48	1.3			
Г	Total		2,349.0	1,411.8	3,760.8			Impact in revenues	\$'Bn	6.8	0.9	7.7		

Key Future Projects - Expected net production (Mboe/d)									
Project	Country	Tyma	XOM's	net prod	luction	% of			
Project	Country	Type	Oil	Gas	Total	growth			
Liza Phase 2, Payara & Other	Guyana	Deepw ater	331	-	331	30%			
Permian	United States	Unconventional	145	42	187	17%			
Upper Zakum	UAE	Conventional	101	-	101	9%			
PNG LNG & Pnyang	Papua New G	LNG	9	91	100	9%			
Bacalhau	Brazil	Deepw ater	88	-	88	8%			
Coral FLNG - Area 4	Mozambique	LNG	-	19	19	2%			
Other			604	8	612	55%			
Total			947	160	1,107	100%			

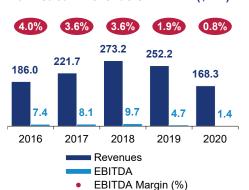
Expected Production Growth Drivers (Mboe/d)							
Type	XOM's	net pro	duction	% of	Obs.		
Type	Oil	Gas	Total	growth	Obs.		
Unconventional	145	42	187	17%	Permian		
Deepw ater	419	-	419	38%	Guyana is ~76%		
LNG	9	75	85	8%			
Conventional	299	0	299	27%			
Other	75	42	117	11%			
Total	947	160	1,107	100%			

Forecasted productions											
	2020				Additions				Base	2025F	
Hydrocarbon	Balance	Guyana	Permian	LNG Portfolio	Upper Zakum	Bacalhau	Other	Total		Balance	Obs.
Oil	2,349	331	145	9	101	88	273	947	(469)	2,827	
Gas	1,412	-	42	110	-	-	8	160	(260)	1,311	
Total	3,761	331	187	119	101	88	281	1,107	(729)	4,138	·
Oil Mix	62%	100%	78%	8%	100%	100%	97%	86%	64%	68%	

Source: Company data and Author analysis.

## Appendix 2.5 - Downstream segment highlights

#### Downstream Revenue & EBITDA (\$'Bn)



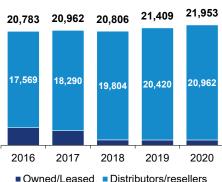
Note: Revenue includes intersegment sales. Source: Company data and Authors analysis

## EBITDA vs Dowsnstream margins (\$'Bn)



Source: Company data and Authors analysis

# Downstream global retail sites



Owned/Leased Distributors/resellers

Source: Company data and Authors analysis

# Appendix 2.6 – Downstream Portfolio Breakdown

ExxonMobil	ExxonMobil net refining capacity (Mboe/d) - XOM's share							
	Country /	2020YE	Т	otal ca	pacity f	orecas	t	
Site	State	(XOM)	2021	2022	2023	2024	2025	
United State	s							
Joliet	Illinois	254	254	254	254	254	254	
Baton Rouge	Louisiana	520	520	520	520	520	520	
Billings	Montana	60	60	60	60	60	60	
Baytow n	Texas	561	561	561	561	561	561	
Beaumont	Texas	369	369	369	619	619	619	
Subtotal		1,764	1,764	1,764	2,014	2,014	2,014	
Canada								
Strathcona	Alberta	196	196	196	196	196	196	
Nanticoke	Ontario	113	113	113	113	113	113	
Sarnia	Ontario	119	119	119	119	119	119	
Subtotal		428	428	428	428	428	428	
Europe								
Antw erp	Belgium	307	307	307	307	307	307	
Fos-sur-Mer	France	133	133	133	133	133	133	
Gravenchon	France	244	244	244	244	244	244	
Karlsruhe	Germany	78	78	78	78	78	78	
Trecate	Italy	132	132	132	132	132	132	
Rotterdam	Netherlands	192	192	192	192	192	192	
Slagen	Norw ay	116	116	116	116	116	116	
Faw ley	United Kingdom	262	262	262	262	300	300	
Subtotal		1,464	1,464	1,464	1,464	1,502	1,502	
Asia Pacific								
Altona	Australia	88	88	88	88	88	88	
Fujian	China	67	67	67	67	67	67	
Jurong/PAC	Singapore	592	592	592	592	592	592	
Sriracha	Thailand	167	167	167	167	167	167	
Subtotal		914	914	914	914	914	914	
Middle East								
Yanbu	Saudi Arabia	200	200	200	200	200	200	
Total world	wide	4,770	4,770	4,770	5,020	5,058	5,058	

**Source**: Author Analysis based on Company data

# **Appendix 2.7 – Chemicals Portfolio Breakdown**

Total

Chemicals production capacity (2020YE) (MMTA)										
Site/Region	Total Capacity									
Site/Region	2020	2021F	2022F	2023F	2024F	2025F				
North America	North America									
Baton Rouge, Louisiana	2.8	2.8	2.8	3.3	3.3	3.3				
Baytown, Texas	5.1	5.1	5.1	5.9	5.9	5.9				
Beaumont, Texas	2.9	2.9	2.9	2.9	2.9	2.9				
Mont Belvieu, Texas	2.3	2.3	2.3	2.3	2.3	2.3				
Sarnia, Ontario	0.8	0.8	0.8	0.8	0.8	0.8				
Corpus Christi	-	-	-	-	4.2	4.2				
Subtotal	13.9	13.9	13.9	15.1	19.3	19.3				
Europe										
Antwerp, Belgium	0.4	0.4	0.4	0.4	0.4	0.4				
Fife, United Kingdom	0.4	0.4	0.4	0.4	0.4	0.4				
Gravenchon, France	1.1	1.1	1.1	1.1	1.1	1.1				
Meerhout, Belgium	0.5	0.5	0.5	0.5	0.5	0.5				
Rotterdam, Netherlands	0.7	0.7	0.7	0.7	0.7	0.7				
Subtotal	3.1	3.1	3.1	3.1	3.1	3.1				
Middle East										
Al-Jubail, Saudi Arabia	1.3	1.3	1.3	1.3	1.3	1.3				
Yanbu, Saudi Arabia	1.9	1.9	1.9	1.9	1.9	1.9				
Subtotal	3.2	3.2	3.2	3.2	3.2	3.2				
Asia Pacific										
Fujian, China	0.9	0.9	0.9	0.9	4.3	4.3				
Singapore	6.5	6.5	6.5	6.5	6.5	6.5				
Sriracha, Thailand	0.5	0.5	0.5	0.5	0.5	0.5				
Subtotal	7.9	7.9	7.9	7.9	11.3	11.3				
Total worldwide	28.1	28.1	28.1	29.3	36.9	36.9				

Downstre	Downstream Key Growth Projects									
Country / State	Name	Expansion (Mboe/d)	Description							
Texas	Beaumont Light- Crude Expansion	250	A project to expand refining capacity of integrated refining complex at Beaumont to by 250 Mboe/d (65%), from 366 to 619 Mboe/d, making it the largest refinery in the United States (Motiva's Port Arthur at 607 Mboe/d is currently the largest). The expansions in the in light crude processing capacity is supported by i) the increased production from the Permian basin; and, ii) the build-out of associated logistics infrastructure. Considering both have been impacted by the Covid-19 pandemic (i.e. reduced demand and reduced spending). The author assumes that capacity expansion will be pushed back to 2023 vs the initial target of 2022.							
Texas	Permian USGC Long-Haul Pipeline	t.b.d.	The Wink-to-Webster pipeline to connect the Permian basin to the Gulf Coast refineries in East Texas. The Beaumont expansion and Permian pipeline are part of the 10-year, \$20 Bn, "Growing the Gulf initiative".							
United Kingdom	FAST (Fawley Strategy) Expansion	38	\$1 bn expansion project at Fawley with a new diesel hydrotreater (hydrofiner) and hydrogen plant that will expand ultra-low sulfur diesel ("ULSD") production capacity by 38 Mboe/d and improve energy efficiency. Initial estimate for the project start up was 2021. Nevertheless, in 3Q20 Call, XOM Stated that "had taken a pause". Possibly, the expansion will be pushed back to 2024.							
Singapore	Singapore Resid Upgrade	48	Project to convert low-value refining and chemical feeds (e.g. fuel oil, chem heavy by-products) into high-value products (e.g. lube basestocks, distillate fuel oil). It is expected an additional clean fuel capacity of 48 Mboe/d. Construction began in 2019 and start-up was expected for 2023, but will likely be delayed under current conditions.							

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Chemicals Key	Growth Project	ts	
Region	Site	Expansion (MMTA)	Description
North America	Corpus Christi	4.20	JV with SABIC to build the world's largest grassroots cracker  • 1.8 MMTA of Ethylene; 1.1 MMTA of Monoethylene Glycol; and, 1.3 Polyethylene. • 25% low er cost than industry; and. • Start-up by 2022; \$500 million p.a. of earnings (\$60/bbl Brent 20017 flat real, 2017 margins). Possibly delayed.
North America	Baton Rouge, Louisiana	0.45	US Gulf Coast Olefin Derivatives.  • 0.45 MMTA of polypropylene;  • Over \$4 Bn of capital;  • Nearly \$600 Mn p.a. of earnings by 2023 (\$60/bbl Brent 20017 flat real, 2017 margins).
North America	Baytown, Texas	0.75	Baytown Expansion  \$2 billion investment; Start-up in 2022, likely delayed.  Exxon first project to produce linear alpha olefins. Linear alpha olefins are used in numerous applications, including high-performing engine and industrial oils, waxes and building blocks for surfactants, polyethylene plastic for packaging, and other specialty chemicals. The new unit will produce about 350,000 tons of linear alpha olefins a year.  According to Exxon, an additional 0.4 MMTA capacity, regarding, Vistamaxx performance polymers will be expanded.
Asia Pacific	Fujian, China	3.35	Liquids Steam Cracker in China (Guangdong)  1.2 MMTA ethylene flexible feed steam cracker will include more than 2 MMT of polyolefins, according to XOM. The complex would produce 1.2 MMTA of polyethylene (PE) and 860,000 TA of polypropylene.  Start-up in 2023, Likely delayed.  700 million p.a. in earnings and \$4.4 bn in sales (16% Net Income margin).
Total		8.75	

Source: Author Analysis based on Company data

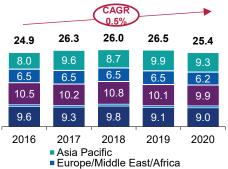
## Appendix 2.8 - Chemicals segment in Figures

#### Chemicals revenues & EBITDA (\$'Bn)





**Note:** Revenue includes intersegment sales. **Source:** Company data and Authors analysis

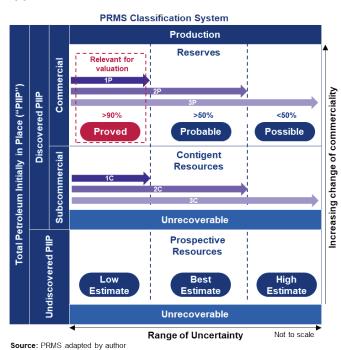


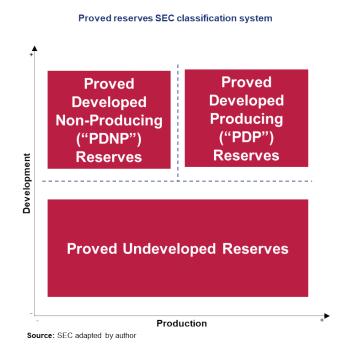
AmericasCanada / Other america

■ United States

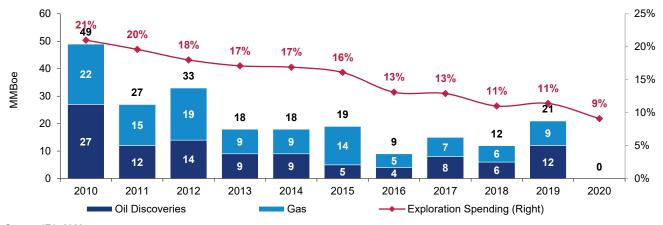
Source: Company data and Authors analysis

# Appendix 2.9 – Resources and Reserves classification system





Appendix 2.10 - Global oil resources discoveries and exploration spending as % of total investment



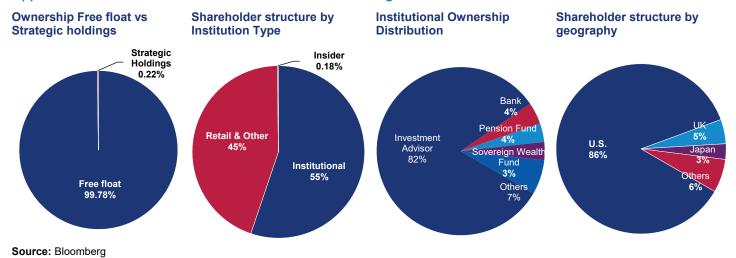
Source: IEA, 2020

# **Appendix 2.11 – Business Segment Strategies**

Segment	Strategy	Quantitative goals
Upstream	Enhance asset portfolio with divestment program;     Deliver lowest-cost-of-supply projects;     Grow tight-liquids production to more than 800 MBoe/d net by 2025.	Increasing Permian tight-oil production fivefold to nearly 600 MBoe/d net by 2025; Rapidly progressing three near-term developments in Guyana to deliver ~450 MBoe/d production by 2025; Starting up new LNG projects in Mozambique and PNG, with potential to add more than 20 Mta of capacity by 2025.
Downstream	Maintain "best-in-class" operational efficiency;     Perform advantaged investments to upgrade refinery configuration and support demand growth for higher-value products;     Capitalize on integration and maximize value from technology.	Upgrading 200 Mb/d of fuel oil to higher-quality distillates, lube basestocks, and chemicals by 2025; Growing lube basestock and synthetic lubricant businesses by 2025; Capturing full value-chain benefits of the Permian and U.S. Gulf Coast facilities by 2025.
Chemicals	Strengthen existing businesses and integrated complexes;     Leverage competitive position for performance products growth;     Embed sustainability leadership into business.	Starting up 13 new facilities and increasing production by 10 million tonnes per year by 2025; Aggressively growing sales of high-value performance products by 50% by 2025; Expanding technology portfolio with a focus on sustainability leadership by 2025.

Source: ExxonMobil (adapted)

## Appendix 2.12 - ExxonMobil Shareholders information in figures



# Appendix 2.13 – ExxonMobil's Shareholders Activism Campaigns

Activist Group Name	Campaign Description	Campaign announcement date	Tactics	Status	Demand	Campaign details
CURE	Concerns over ExxonMobil direction regarding energy transition	12/02/2021	Proxy fight	Pending	Seek Alternatives	Coalition United for a Responsible Exxon ("CURE") sent a open later to board of ExxonMobil which raises urgent concerns about ExxonMobil's current direction, which is premised on outdated assumptions about high oil prices, demand, and margins that are incompatible with the reality of climate change and the inevitable transition to renewable energy sources.
	Upgrade ExxonMobil climate change governance by establishing a focused board commitee		Proxy fight	Pending	Shareholder rights	Arjuna Capital asks the ExxonMobil to upgrade its climate change governance by establishing a focused board committee with oversight of climate issues. This Proposal seeks contractual clarity to ensure that the existential threats of climate change are being addressed in depth by the Board.
New York	Withhold their support from the re- election of all ExxonMobil directors and vote FOR an Independent Chairman	03/05/2019	Proxy fight	Pending	rignts	The New York State Common Retirement Fund (Fund) and the Church Commissioners for England (Church Commissioners) believe that ExxonMobils inadequate response to climate change constitutes a serious failure of corporate governance to which shareholders should respond firmly. The Fund and the Church Commissioners believe that at this time, ExxonMobil would be better able to face its challenges, including those posed by climate change, and to relate to its shareholders, with an independent chairman. Also, Fund and the Church Commissioners will withhold their support from the re-election of all ExxonMobil directors and urging to a vote FOR the shareholder proposal regarding an Independent Chairman at ExxonMobils Annual Meeting.
Independent shareholders	Review on executives compensation	26/05/2017	Proxy fight	Pending		Shareholders group (Shareholder) of the company intimated to the management of ExxonMobil to review on executives / directors compensation & pay system.

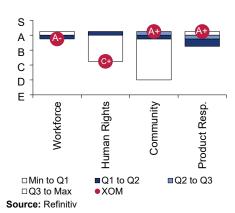
**Source**: Refinitiv, adapted by Author.

# Appendix 3 - ESG

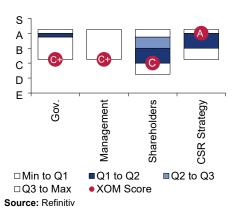
## Appendix 3.1 - Refinitiv ESG Scores breakdown

#### **XOM Refinitiv Environment Score** S Α В С D Ε Resource Use En. Emissions nnovation □Min to Q1 ■Q1 to Q2 ■ Q2 to Q3 □Q3 to Max XOM Score Source: Refinitiv

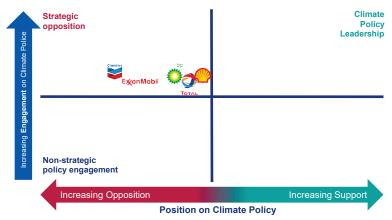
## **XOM Refinitiv Social Score**



#### **XOM Refinitiv Governance Score**



# Appendix 3.2 - InfluenceMaps's IOCs Climate Lobbying Landscape



Source: "Corporate Lobbying", Influence Map (adapted by Author).

# Darren W. Woods Current Chaiman & CEO of ExxonMobil "The solution is not just to leave fossils fuels in the ground".



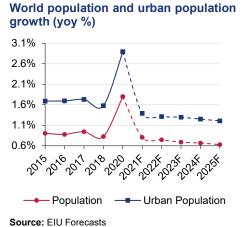
Rex Tylerson

Ex-CEO of ExxonMobil | Ex-Secretary State of Energy

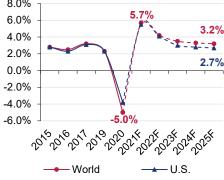
"[Climate Impact] is very hard for anyone to predict".

# Appendix 4 - Industry overview and competitive positioning

#### Appendix 4.1 – World Economic Outlook complementary charts

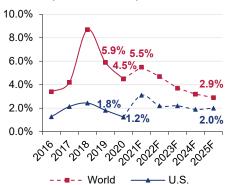


Real GDP growth (World vs. U.S.)



Source: EIU Forecasts

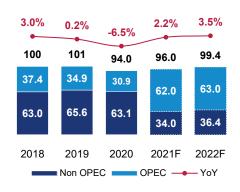
Inflation (World vs. U.S.)



Source: EIU Forecasts

#### Appendix 4.2 - Oil and gas supply and demand complementary charts

#### Global Oil supply by region (MMBoe/d)



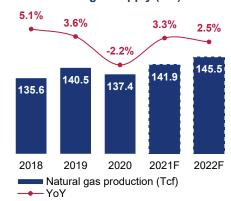
Source: IEA & EIU, July 2021

# Global natural gas demand and supply short-term forecasts (Tcf)



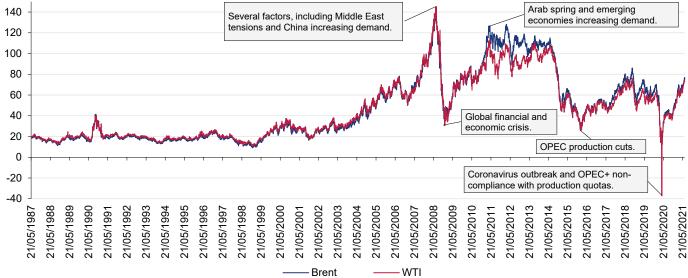
Source: EIU, July 2021, adapted by Author

#### Global natural gas supply (Tcf)



Source: EIU, July 2021, adapted by Author

#### Appendix 4.3 – WTI and Brent indexes evolution (\$/Bbls)



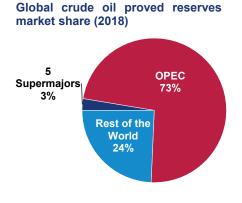
Source: Refinitiv & IEA

Infographic: BP

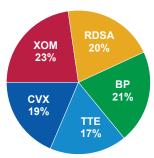
#### Appendix 4.4 - Oil & Gas industry value chain

#### **Upstream Midstream Downstream** Refining, Processing **Transportation & Trade** Marketing & **Exploration Development &** & Blending Distribution Acquire exploration Transportation by **Production** • Crude refining, Wholesale rights Reservoir modeling pipeline, ship, train and processing and truck Retail · Well design, drilling Seismic survey · Terminals for processing, blending · Marketing to end-user Exploration drilling and completion · Petrochemicals, fuels storage and distribution · Production modeling and lubricants 00 00 Petrochemicals International oil and gas markets

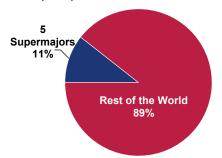
## Appendix 4.5 - Oil & Gas Industry market shares



Oil & Gas Supermajors production market share (2020)

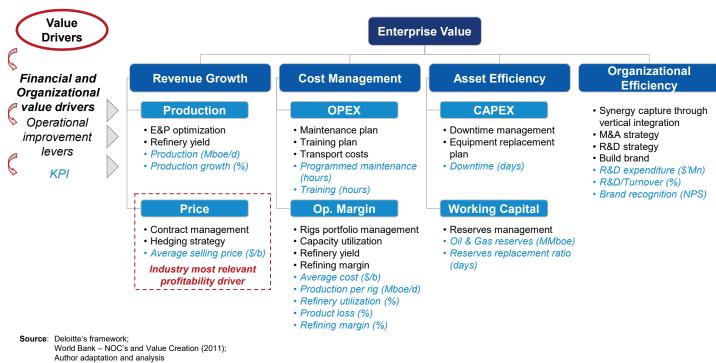


Global Oil & Gas production market share (2020)

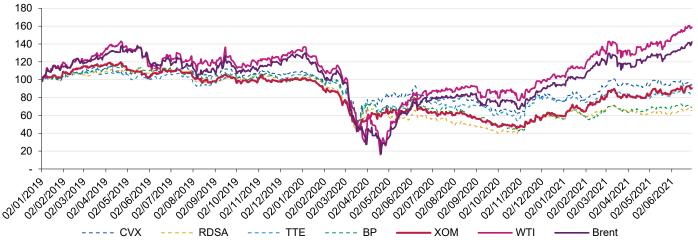


Source: Bloomberg, IEA and Author analysis.

## Appendix 4.6 - Oil & Gas key drivers of profitability

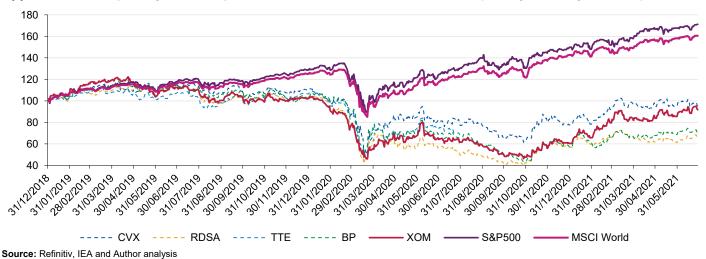


# Appendix 4.7 – Supermajors stock price vs. WTI & Brent evolution (Base year analysis – 100)



Source: Refinitiv, IEA and Author analysis

Appendix 4.8 - Supermajors stock price vs. S&P500 and MSCI World index (Base year analysis - 100)



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# **Appendix 5 – Investment summary**

Appendix 5.1 - Summary of Relevant Absolute Valuation Methodologies



Souce: Author Analysis

Appendix 5.2 - Consensus estimates and recommendation summary

Consensus Operational & Fundamentals estimates - ExxonMobil													
Caption	Unit		Yea	ar									
Сарион	Unit	2021F	2022F	2023F	2024F								
Operational data													
Production													
Oil	MBbls/d	2,295	2,322	2,335	2,404								
Gas	MMcf/d	8,281	8,047	7,913									
Total Production	MBoe/d	3,039	3,398	3,203	3,766								
YoY Growth		-19.2%	11.8%	-5.7%	17.5%								
% Diference		17.2%	8.8%	12.9%	2.6%								
Commodity Prices													
XOM's Global Oil Realization	\$/Bbl.	58.2	57.3	52.6									
% Diference		-5%	3.5%	3.4%									
Fundam entals													
Revenue & Other Income	\$'Mn	266,569	273,485	264,584	258,084								
% Diference		-2%	9%	8%	1%								
EBITDA	\$'Mn	46,855	51,692	50,479	54,693								
% Diference		-82%	-18%	1%	-5%								
EBITDAX	\$'Mn	47,263	52,107	51,546	61,708								
% Diference		-76%	-16%	2%	-15%								
EBIT	\$'Mn	25,665	32,155	29,889	32,877								
% Diference		-307%	-35%	2%	-6%								
DPS	\$/Sh.	3.5	3.5	3.6	3.7								
% Diference		0%	-1%	-2%	0%								
Payout ratio	%	83%	73%	76%	75%								

Consensus Pr	Consensus Price Target (\$/Share)													
Contributor	1-Year PT	Annualized Return	2022F adjusted PT											
Consensus														
Consensus	65.9	4%	67.3											
Major Players														
Morgan Stanley	84.0	33%	96.9											
J.P. Morgan	76.0	20%	83.4											
Credit Suisse	72.0	14%	76.9											
Barclays	70.0	11%	73.7											
Goldman Sachs	68.0	8%	70.6											

Consensus Recomendations												
Recommendation	#	%										
Buy / Strong Buy	10	34%										
Hold	17	59%										
Sell / Reduce	2	7%										
Total	29	100%										

**Historical Consensus Price Target vs. XOM Stock Price** 



Source: Author Analysis based on Company data

# Appendix 6 - Valuation

# Appendix 6.1 – Macroeconomic, Industry and Operational Data

Macroeconomic, Industry and C	perational	data - Exxo	nMobil												
	·				Histor	rical					F	orecaste	d		CAGR
Caption	Unit	2013	2014	2015	2016	2017	2018	2019	2020	2021F	2022F	2023F	2024F	2025F	2020-25
Macroeconomic Data	%	2.50/	2.00/	2.00/	2.20/	2.40/	2.00/	2.20/	2.00/	E E0/	4.40/	2.00/	2.00/	2.70/	
Global Real GDP grow th Global Inflation rate	% %	2.5% 3.4%	2.8% 3.3%	2.8% 3.1%	2.3% 3.4%	3.1% 4.2%	3.0% 8.7%	2.3% 5.9%	-3.8% 4.5%	5.5% 5.5%	4.1% 4.7%	3.0% 3.7%	2.8% 3.2%	2.7% 2.9%	
Operational data															
Oil & Gas Industry															
Commodity Prices															
Brent (average)	\$/Bbl.	108.6	99.0	52.3	43.6	54.1	71.3	64.3	42.0	66.0	71.0	65.0	55.0	55.0	5.6%
MTI (	YoY	-2.7%	-8.8%	-47.1%	-16.6%	24.0%	31.8%	-9.9%	-34.7%	57.3%	7.6%	-8.5%	-15.4%	-	4.50/
WTI (average)	\$/ <b>BbI</b> . YoY	98.0 4.2%	<b>93.2</b> -4.9%	<b>48.7</b> -47.8%	<b>43.3</b> -11.0%	<b>50.8</b> 17.3%	<b>65.2</b> 28.4%	<b>57.0</b> -12.6%	<b>39.2</b> -31.3%	<b>58.5</b> 49.5%	<b>63.0</b> 7.6%	<b>57.6</b> -8.5%	<b>48.8</b> -15.4%	48.8	4.5%
Henry Hub (average)	\$/Mcf	3.7	4.4	2.6	2.5	3.0	3.1	2.6	2.0	2.6	2.8	2.6	2.2	2.2	1.6%
	YoY	35.5%	17.2%	-40.0%	-4.1%	18.8%	5.1%	-18.4%	-20.7%	30.0%	7.6%	-8.5%	-15.4%	-	
Industry Demand & Supply															
Global oil demand	MMBoe/d	91.9	93.0	95.0	96.2	98.0	99.4	99.7	91.0	96.9	99.9	101.2	102.3	103.2	2.5%
	YoY	1.5%	1.2%	2.2%	1.2%	1.9%	1.4%	0.3%	-8.7%	6.4%	3.1%	1.4%	1.1%	0.9%	
Global oil production	MMBoe/d	91.4	93.8	96.6	97.0	97.4	100.3	100.6	94.0	96.0	99.4	101.2	102.3	103.2	1.9%
Global natural gas demand	Tcf	121.4	121.3	124.8	127.4	128.6	135.3	137.9	135.8	141.4	144.9	148.5	151.0	153.2	2.4%
	MMBoe/d YoY	55.5 1.5%	55.4 -0.1%	57.0 2.8%	58.0 2.1%	58.7 0.9%	61.8 5.2%	63.0 2.0%	61.8 -1.5%	64.6 4.4%	66.2 2.5%	67.8 2.5%	69.0 1.7%	70.0 1.4%	2.5%
Global natural gas production	Tcf	124.9	126.9	128.8	129.8	129.0	135.6	140.5	137.4	141.9	145.5	148.5	151.0	153.2	2.2%
Gosai Hatarai gas production	MMBoe/d	57.0	58.0	58.8	59.1	58.9	61.9	64.1	62.6	64.8	66.4	67.8	69.0	70.0	2.3%
ExxonMobil's Upstream															
Production															
Oil	MBbls/d	2,202	2,111	2,345	2,365	2,283	2,266	2,386	2,349	2,277	2,390	2,382	2,603	2,827	3.8%
Gas Total Production	MMcf/d MBoe/d	11,836 <b>4,175</b>	11,145	10,515 <b>4,098</b>	10,127 <b>4,053</b>	10,211 <b>3,985</b>	9,405 <b>3,834</b>	9,394 <b>3,952</b>	8,471 <b>3,761</b>	8,373 <b>3,673</b>	8,005 <b>3,724</b>	7,770 <b>3,677</b>	7,588 <b>3,867</b>	7,868 <b>4,138</b>	-1.5% 1.9%
YoY Growth	W Boera	4,175	3,969 -4.9%	3.3%	-1.1%	-1.7%	-3.8%	3,952	-4.8%	-2.3%	1.4%	-1.3%	5.2%	7.0%	1.9%
Oil Mix (%)	%	53%	53%	57%	58%	57%	59%	60%	62%	62%	64%	65%	67%	68%	1
Commodity Prices					-	-	-		-		-	-	-		
XOM's Global Oil Realization	\$/Bbl.	95.2	85.1	42.0	35.3	46.6	57.8	53.3	33.0	55.2	59.4	54.4	46.0	46.0	6.9%
XOM's Global Gas Realization	\$/Mcf	6.9	6.6	4.2	2.8	3.5	4.7	3.8	2.4	3.5	3.8	3.5	3.0	3.0	4.0%
Reserves															ıl
Proved developed reserves	NAME -	0.500	0.570	40 507	0.740	7.000	40 444	0.574	F 040	4.044	2.020	2.000	0.447	4.005	00.40/
Oil Gas	MMBoe MMBoe	8,533 8,139	8,578 7,935	10,527 7,444	6,713 7,037	7,060 6,896	10,441 5,981	9,574 5,192	5,642 4,600	4,811 4,090	3,939 3,603	3,069 3,131	2,117 2,668	1,085 2,189	-28.1% -13.8%
Total	MMBoe	16,672	16,513	17,971	13,750	13,956	16,422	14,766	10,242	8,901	7,542	6,200	4,785	3,274	-20.4%
Total Proved reserves															
Oil	MMBoe	13,239	13,713	14,724	10,557	12,029	15,657	14,598	8,885	8,054	7,182	6,312	5,360	4,328	-13.4%
Gas	MMBoe	11,977	11,556	10,035	9,417	9,192	8,636	7,847	6,327	5,817	5,330	4,858	4,395	3,916	-9.1%
Total  ExxonMobil's Downstream	MMBoe	25,216	25,269	24,759	19,974	21,221	24,293	22,445	15,212	13,871	12,512	11,170	9,754	8,244	-11.5%
Refinery															
Refinery throughput															
U.S.	MBbls/d	1,819	1,809	1,709	1,591	1,508	1,588	1,532	1,549	1,590	1,688	1,928	1,928	1,928	4.5%
International	MBbls/d	2,766	2,667	2,723	2,678	2,783	2,684	2,449	2,224	2,274	2,415	2,415	2,448	2,448	1.9%
Total YoY Growth	MBbls/d	4,585	<b>4,476</b> -2.4%	<b>4,432</b> -1.0%	<b>4,269</b> -3.7%	<b>4,291</b> 0.5%	<b>4,272</b> -0.4%	3,981 -6.8%	<b>3,773</b> -5.2%	3,864 2.4%	<b>4,103</b> 6.2%	<b>4,342</b> 5.8%	<b>4,375</b> 0.8%	<b>4,375</b>	3.0%
Refining capacity	MBbls/d	5,341	-2.4% 5,144	5,111	-3.7% 4,971	4,914	4,905	-0.0% 4,732	-5.2% <b>4,755</b>	4,770	4,770	5,020	5,058	5,058	1.2%
Capacity utilization	%	86%	87%	87%	86%	<b>4,914</b> 87%	<b>4,905</b> 87%	84%	<b>4,755</b> 79%	<b>4,770</b> 81%	86%	86%	<b>3,036</b> 87%	87%	1.270
Refining Margin					-	-									ıl
U.S.	\$/Bbl.	14.93	19.03	19.65	15.54	17.77	16.01	14.87	16.91	16.53	17.10	16.42	15.28	15.28	-2.0%
International	\$/Bbl.	19.83	19.84	16.37	14.85	16.56	15.85	15.03	17.30	14.46	15.02	14.35	13.24	13.24	-5.2%
Marketing															ıl
Petroleum product sales															ıl
U.S.	MBbls/d	2,609	2,655	2,521	2,250	2,190	2,210	2,292	2,154	2,286	2,381	2,466	2,479	2,479	2.8%
International  Total	MBbls/d MBbls/d	3,278 <b>5,887</b>	3,220 <b>5,875</b>	3,233 <b>5,754</b>	3,232 <b>5,482</b>	3,340 <b>5,530</b>	3,302 <b>5,512</b>	3,160 <b>5,452</b>	2,741 <b>4,895</b>	2,909 <b>5,196</b>	3,030 <b>5,410</b>	3,138 <b>5,604</b>	3,154 <b>5,633</b>	3,154 <b>5,633</b>	2.8%
YoY Growth	III DUIS/U	5,567	-0.2%	-2.1%	-4.7%	0.9%	-0.3%	-1.1%	-10.2%	6.1%	4.1%	3.6%	0.5%	0.0%	2.070
Marketing Margin															ıl
U.S.	\$/Bbl.	5.81	6.02	5.71	6.54	6.56	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	ıl -
International	\$/Bbl.	6.76	6.83	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	-
ExxonMobil's Chemicals															
Prime product sales															ıl
U.S.	MT	9,679	9,528	9,664	9,576	9,307	9,824	9,127	9,010	8,188	9,465	10,415	13,290	13,290	8.1%
International Total	MT MT	14,384 <b>24,063</b>	14,707 <b>24,235</b>	15,049 <b>24,713</b>	15,349 <b>24,925</b>	16,113 <b>25,420</b>	17,045 <b>26,869</b>	17,389 <b>26,516</b>	16,439 <b>25,449</b>	15,054 <b>23,242</b>	17,401 <b>26,867</b>	17,540 <b>27,955</b>	21,465 <b>34,756</b>	21,465 <b>34,756</b>	5.5% 6.4%
YoY Growth	1911	-0.4%	0.7%	2.0%	0.9%	2.0%	5.7%	-1.3%	-4.0%	-8.7%	15.6%	4.0%	24.3%	0.0%	3.470
Capacity utilization	%	81.4%	83.7%	86.1%	89.6%	83.0%	84.9%	85.6%	85.4%	77.9%	90.8%	90.8%	90.6%	90.6%	ıl
							2.5								

# Appendix 6.2 – Forecasted Financial Statements, Rearranged Financial Statements, and complementary tables

Income Statement - ExxonMobil (\$'Mn)

Marcine   Marc	Income Statement - ExxonMobil (\$'Mn)	'													
Montaine	Caption	2010	2011	2015			2010	2010	2000	20045					CAGR
Coult of reverser (as 24 ab) 2,000 1 (25 b) 3,000 1	Revenue														
Production and manufacthanting pageness   45,557   40,557   50,577   50,475   50,577   50,475   50,577   50,475   50,575   50,575   50,475   50,5				,									-		
Sixte finance Traves   30,000   20,042	Production and manufacturing expenses													34,557	2.6%
Groes Margin (1965-99 1972) 72-70-70-70-70-70-70-70-70-70-70-70-70-70-	Crude oil and product purchases	244,156	225,972	130,003	104,171	128,217	156,172	143,801	94,007	158,533	176,658	159,835	133,366	134,669	7.5%
Control and analysis processes   12,877   12,888   11,999   11,999   11,999   11,999   11,999   11,999   11,999   10,999   11,999   10,999   11,999   10,9	Sales Based Taxes	30,589	29,342	-	-	-	-	-	-	-	-	-	-	-	
General and sintenticulities experience   12,977   12,588   11,501   10,443   10,643   10,645   11,600   10,645   10,600   11,600   10,600	Gross Margin	105,566	97,932	74,264	66,009	76,255	86,478	74,956	54,136	61,718	73,955	81,712	85,807	85,568	9.6%
Substitution openment including only holes   1,976   1,569   1,529   1,429   1,049   1,770   1,469   1,289	Operating expenses														
Other topic and palese   3,208   3,208   3,208   3,000   3,010   3,028   3,000   3,011   3,028   3,000   3,011   3,028   3,000   3,011   3,000	· ·	,				,		-							
Chemistry agreeme															
Control income   1,000   1,0		33,230	32,286	30,309		,				29,225	29,954	29,159	29,378	30,812	I I
Charle Historians   1,3,927   13,322   7,644   4,806   5,320   7,335   5,441   1,732   1,732   3,378   7,432   5,856   3,856   27,070   1,741   7,742   3,740   3,460   3,460   4,511   1,740   7,460   3,260   1,821   3,035   3,935   2,93		48 083	46 553	43 333						41 298	42 566	41 502	41 875	43 928	-
Noome Income pauly diffiales   19,927   13,323   7,944   4,806   5,307   7,355   5,414   1,732   1,732   1,732   3,736   7,432   5,845   5,845   7,746   1,000   1,		40,000	40,000	40,000	42,700	44,200	40,034	77,721	30,700	41,230	72,300	71,302	41,070	45,520	2.370
Charle Income		13 927	13 323	7 644	4 806	5 380	7 355	5 441	1 732	1 732	8 378	7 432	5 854	5 854	27.6%
California   17,449   17,844   9,345   7,345   7,349   7,486   7,249   10,879   3,946   3,944   3,944   42,945   2,849   4,949   42,945   2,949   4,	' '					,	-								
EBTOA   7.4962   69.213   49.225   59.79   39.16   39.44   39.84   19.80   49.09   19.00   10.344   19.40   20.05   22.05   21.00   20.14   22.07   20.07   20.07   20.00															_
Deprecision   17,182   17,287   18,048   22,008   18,863   18,745   18,998   46,009   19,344   19,546   20,566   21,246   20,009   21,375   200,175   200,								•							
East															
Seminage Norman	· ·	·							·						$\overline{}$
Earning Before Taxes									, ,						
Note   Income   Taxxes	Interest expense, net														$\overline{}$
Net Imcome  33.448 33.616 16.851 6.851 6.851 19.848 21.421 14.774 (23.261) 4.152 18.762 23.717 23.607 21.314 198.307  NI attributable to ExcomMobil 32.889 32.530 16.150 7.849 18.710 20.849 18.430 (22.449) 8.11 (14.5) (65.5) (627) (82.2) (72.4) 198.307  Not operating Profit After Tax (NOPAT) - ExcomMobil (5Mn)  Caption  2013 2014 2015 2016 2017 2018 2019 2020 2021* For excess to the common profit After Tax (NOPAT) - ExcomMobil (5Mn)  Not operating Profit After Tax (NOPAT) - ExcomMobil (5Mn)  (1) Caption  2013 2014 2015 2016 2017 2018 2019 2020 2021* For excess to the common profit After Tax (NOPAT) - ExcomMobil (5Mn)  NoPAT  (1) Revenue	Earning Before Taxes	57,711	51,630	21,966	7,969	18,674	30,953	20,056	(28,883)	5,026	22,586	29,399	29,692	26,649	-198.4%
Natinbutable to noncentrolling interests (868) (1,095) (401) (335) (138) (581) (434) (851) (434) (851) (165) (857) (827) (823) (743)	Income Taxes	24,263	18,015	5,415	(406)	(1,174)	9,532	5,282	(5,632)	874	3,805	5,682	6,085	5,335	-198.9%
Not operating Profit After Tax (NOPAT) - Excommobili (SMn)  Caption  Caption  Action	Net Income	33,448	33,615	16,551	8,375	19,848	21,421	14,774	(23,251)	4,152	18,782	23,717	23,607	21,314	-198.3%
Not operating Profit After Tax (NOPAT) - Excommobili (SMn)  Caption  Caption  Action	N.I. attributable to noncontrolling interests	(868)	(1,095)	(401)	(535)	(138)	(581)	(434)	811	(145)	(655)	(827)	(823)	(743)	-198.3%
CAGR		` '	, , ,	, ,	. ,	. ,	, ,	, ,		` '	. ,	. ,	, ,	, ,	$\overline{}$
Caption   Capt	NOT HIGH TO ALL INCLUSION TO EXPORTE ONLY	02,000	02,020	10,100	1,040	10,110	20,040	17,070	(22,770)	7,001	10,121	11,000	,,,,,,,	20,010	100.070
Capido   C	Net operating Profit After Tax (NOPAT)	- ExxonMo	obil (\$'Mn)												
NOPAT   NOPA	Cantion				Histo	orical					F	orecasted	ı		
(+) Revenue	·	2013	2014	2015	2016	2017	2018	2019	2020	2021F	2022F	2023F	2024F	2025F	2020-25F
(-) Cost of revenue (-) Cost of revenue (-) Cost of revenue (-) Sales Based Taxes (-) Sales (-) Sales Based Taxes (-) Sales (-) Sales Based Taxes (-) Sales (															
Composition   105,566   97,932   74,24   66,09   76,255   86,47   74,565   75,000   75,255   86,47   74,565   75,000   75,255   86,47   74,000   75,000	` '						-								
Comparing	· /			165,590	134,619	160,907	192,854	180,627	124,438	194,266	213,285	195,633	167,860	169,226	6.3%
(·) Operating expenses				74 264	66 009	76 255	86 478	74 956	54 136	61 718	73 955	81 712	85 807	85 568	9.6%
(+) Other operating income   3,492   4,511   1,729   2,680   1,821   3,525   3,914   1,169   3,537   4,031   3,438   2,450   2,450   1,64%   (-) Depreciation & depletion   17,182   17,297   18,048   22,308   2,381   18,745   18,745   18,988   20,088   19,384   19,465   20,566   21,246   22,089   1,44%   2,441%   2,44															
Comparising Result (Adj. EBIT)   Adj. Sign. Si	1, , , , ,						-		,						
Operating Result (Adj. EBIT)	, ,						-		,			-			
Operating Taxes															
Cherating CETR (Over adj EBIT)							·								
Part		42%	33%	41%	40%	83%	35%	30%	-6%	17%	15%	19%	20%	20%	
NOPAT 25,277 25,750 8,691 2,178 2,301 15,958 10,768 (3,767) 3,794 13,164 18,727 20,007 17,657 Cher non-operating items (+) income from equity affiliates 13,927 13,323 7,644 4,806 5,380 7,355 5,441 1,732 1,732 8,378 7,432 5,854 5,854 (+) income from equity affiliates (5,747) (5,172) 5,27 1,844 12,768 (1,126) (605) 5,853 (95) (1,493) (1,327) (957) (972) (972) (1,000															01 60/
Cher non-operating items	1 - 1														
(+) Income from equity affiliates  13,927		25,211	25,750	0,091	2,170	2,301	15,956	10,760	(3,767)	3,794	13,164	10,727	20,007	17,057	-236.2%
(+) Impairment (-) Im		40.007	40.000	7.044	4.000	F 200	7.055	F 444	4 700	4 700	0.070	7 400	E 0E4	5.054	07.00/
Hard		13,921	13,323		4,000	5,360	1,355	5,441	,		0,370	7,432	5,054	5,654	
Income available to Investors   33,457   33,901   16,862   8,828   20,449   22,187   15,604   (22,093)   5,431   20,049   24,832   24,904   22,539   -200.4%		(5 747)	(5 172)		1 844	12 768	(1 126)	(605)			(1 493)	(1.327)	(957)	(972)	
Net income, inc. NCl   33,448   33,615   16,551   8,375   19,848   21,421   14,774   (23,251)   4,152   18,782   23,717   23,607   21,314   1.98	Income available to Investors	, , ,						. ,					. ,	<u> </u>	
Net income, inc. NCl	Reconciliation with net income		·	·	<u> </u>	<u> </u>	<u> </u>		, , ,						
1.1%   1.1%   1.29		33,448	33.615	16.551	8.375	19.848	21.421	14.774	(23.251)	4.152	18.782	23.717	23.607	21.314	-198.3%
Cash effective tax rates determination (\$'Mn)    Description   Cash   Ca	l · · · · · · · · · · · · · · · · · · ·								,						
CAGR   Part	Income available to Investors	33,457	33,901	16,862	8,828	20,449	22,187	15,604	(22,093)	5,431	20,049	24,832	24,904	22,539	-200.4%
Description   2013   2014   2015   2016   2017   2018   2019   2020   2021F   2022F   2023F   2024F   2025F   2020F	Cash effective tax rates determination	ı (\$'Mn)													
Reported Taxes   2013   2014   2015   2016   2017   2018   2019   2020   2021F   2022F   2023F   2024F   2023F   2024F   2022F   2023F   2024F   2022F   2023F   2024F   202	Description														
Non-Operating Items 1,590 835 1,013 931 7,675 49 360 809	·														
Reported Taxes (operating only) 25,853 18,850 6,428 525 6,501 9,581 5,642 (4,823) 874 3,805 5,682 6,085 5,335 (2) (-) tax on Equity affiliates income 4,874 4,663 2,675 1,682 1,883 1,545 1,143 364 364 1,759 1,561 1,29 1,29 1,29 27.6% -100.0%  Cash Taxes 18,513 12,743 5,834 1,280 11,384 8,245 4,502 1,590 511 2,045 4,121 4,856 4,106 20.9%  Cash effective Tax Rate (Over EBT) 42.3% 33.3% 40.7% 40.5% 85.6% 34.9% 30.8% -5.2% 15.5% 14.4% 18.8% 20.4% 19.7% (+) Interest Tax Shield 18,516 12,843 5,942 1,438 11,594 11,594 11,594 11,594 11,692 11,692 11,693 11,642 11,693 11,759 11,693 12,045 14,121 18,866 12,045 11,169 12,045 14,121 18,866 12,045 11,169 12,045 14,169 14,169 12,045 14,169 14,1	· ·						,				ö/4 3,8	us 5,68	∠ 6,085	5,335	11
(-) tax on Equity affiliates income 4,874 4,663 2,675 1,682 1,883 1,545 1,143 364 364 1,759 1,561 1,229 1,229 27.6% (-) Net change in net deferred tax Liabilities 2,466 1,444 (2,081) (2,437) (6,766) (209) (3) (6,777)											874 3.8	05 568	2 6 025	5 3 3 5	
(-) Net change in net deferred tax Liabilities 2,466 1,444 (2,081) (2,437) (6,766) (209) (3) (6,777)											·				
Cash Taxes       18,513       12,743       5,834       1,280       11,384       8,245       4,502       1,590       511       2,045       4,121       4,856       4,106       20.9%         Cash effective Tax Rate (Over EBT)       42.3%       33.3%       40.7%       40.5%       85.6%       34.9%       30.8%       -5.2%       15.5%       14.4%       18.8%       20.4%       19.7%         (+) Interest Tax Shield       3       100       109       159       210       161       174       243       269       266       234       272       257       1.1%         Operating Cash Taxes, including D&A Tax Shield       18,516       12,843       5,942       1,438       11,594       8,406       4,677       1,833       779       2,311       4,355       5,128       4,363       18.9%	l' ' ' ' '										JU4 1,7	Je 1,56	- 1,229	, 1,229	
Cash effective Tax Rate (Over EBT) 42.3% 33.3% 40.7% 40.5% 85.6% 34.9% 30.8% -5.2% 15.5% 14.4% 18.8% 20.4% 19.7% (+) Interest Tax Shield 3 100 109 159 210 161 174 243 269 266 234 272 257 1.1% Operating Cash Taxes, including D&A Tax Shield 18,516 12,843 5,942 1,438 11,594 8,406 4,677 1,833 779 2,311 4,355 5,128 4,363 18.9%	111				, , ,						- E11 00	4E 440	1 4050	4 400	
(+) Interest Tax Shield 3 100 109 159 210 161 174 243 269 266 234 272 257 1.1% Operating Cash Taxes, including D&A Tax Shield 18,516 12,843 5,942 1,438 11,594 8,406 4,677 1,833 779 2,311 4,355 5,128 4,363 18.9%															20.9%
Operating Cash Taxes, including D&A Tax Shield 18,516 12,843 5,942 1,438 11,594 8,406 4,677 1,833 779 2,311 4,355 5,128 4,363 18.9%															
	(+) Interest Tax Shield		3	100	109	159	210	161	174	243	269 2	66 23	4 272		1.1%
Operating Cash effective Tax Rate (Over EBIT)   42.3% 33.3% 40.6% 39.8% 83.4% 34.5% 30.3% -6.2% 17.0% 14.9% 18.9% 20.4% 19.8%	Operating Cash Taxes, including D&A	Tax Shield	18,516	12,843	5,942	1,438	11,594	8,406 4	,677 1	,833	779 2,3	11 4,35	5 5,128	4,363	18.9%
	Operating Cash effective Tax Rate (Over	er EBIT)	42.3%	33.3%	40.6%	39.8%	83.4%	34.5% 3	0.3% -6	6.2% 17	.0% 14.9	18.99	<b>20.4</b> %	19.8%	

Income Statement per Segment - Exx	onMobil (\$'N	/In)																
Caption				Histor							orecaste			CA			Total Reveni	
Revenue	2013 420,836	<b>2014</b> 394,105	2015 239,854	2016 200,628	<b>2017</b> 237,162	2018 279,332	2019 255,583	2020 178,574	2021F 255,985	2022F 287,241	2023F 277,345	2024F 253,666	2025F 254,795	2020-25F 7.4%	<b>2013-20F</b> -11.5%	2020 100.0%	2022F 100.0%	2025F 100.0%
Upstream	106,152	92,612	51,899	41,079	51,940	63,840	59,532	35,911	56,755	62,994	57,203	52,061	55,994	9.3%	-14.3%	20.1%	21.9%	22.0%
Downstream Downstream	416,111	380,259	223,362	185,957	221,696	273,176	252,174	168,316	242,639	270,943	262,545	230,646	230,016	6.4%	-12.1%	94.3%	94.3%	90.3%
Chemicals Corporate and Financing	59,273 21	56,393 18	40,013 8	36,006 21	41,514 35	48,704 38	41,185 41	33,071 38	40,091 28	47,972 28	47,881 28	55,318 28	55,318 28	10.8% -6.3%	-8.0% 8.8%	18.5% 0.0%	16.7% 0.0%	21.7% 0.0%
Eliminations	(160,721)	(135,177)	(75,428)	(62,435)	(78,023)	(106,426)	(97,349)	(58,762)	(83,528)	(94,696)	(90,312)	(84,387)	(86,561)	8.1%	-13.4%	-32.9%	-33.0%	-34.0%
Cost of revenue	284,681	266,831	165,590	134,619	160,907	192,854	180,627	124,438	194,266	213,285	195,633	167,860	169,226	6.3%	-11.2%	69.7%	74.3%	66.4%
Production and manufacturing expenses		40,859	35,587	30,448	32,690	36,682	36,826	30,431	35,734	36,627	35,798	34,493	34,557	2.6%	-4.0%	17.0%	12.8%	13.6%
Upstream Downstream	16,783 20,064	17,246 19,653	15,621 16,621	14,660 12,929	14,630 15,093	15,410 17,552	16,169 17,311	14,826 13,686	16,001 16,934	16,401 17,183	16,030 16,719	15,446 15,363	15,475 15,383	0.9% 2.4%	-1.8% -5.3%	8.3% 7.7%	5.7% 6.0%	6.1% 6.0%
Chemicals	2,769	2,784	2,897	2,244	2,802	3,066	2,821	2,611	2,798	3,042	3,049	3,685	3,700	7.2%	-0.8%	1.5%	1.1%	1.5%
Biminations	909	1,175	449	615	164	653	525	(692)	-	-	-	-	-	-100.0%	-196.2%	-0.4%	0.0%	0.0%
Crude oil and product purchases  Downstream	244,156 373,871	225,972 335,132	130,003 172,268	104,171 141.562	128,217 173,230	156,172 221,705	143,801 204,822	94,007 127,870	158,533 206,678	176,658 231,879	159,835 214.923	133,366 178,459	134,669 180,070	7.5% 7.1%	-12.7% -14.2%	52.6% 71.6%	61.5% 80.7%	52.9% 70.7%
Chemicals	53,309	48,329	27,917	21,841	27,151	36,131	31,216	21,063	35,383	39,475	35,223	39,295	41,160	14.3%	-12.4%	11.8%	13.7%	16.2%
Eliminations	(183,024)	(157,489)	(70,182)	(59, 232)	(72,164)	(101,664)	(92,237)	(54,926)	(83,528)	(94,696)	(90,312)	(84,387)	(86,561)	9.5%	-15.8%	-30.8%	-33.0%	-34.0%
Sales Based Taxes Eliminations	30,589 30,589	29,342 29,342	-	-	-	-	-	-	-	-	-	-	-	0.0% 0.0%	-100.0% -100.0%	0.0% 0.0%	0.0% 0.0%	0.0% 0.0%
Gross Margin	105,566	97,932	74,264	66,009	76,255	86,478	74,956	54,136	61,718	73,955	81,712	85,807	85,568	9.6%	-9.1%	30.3%	25.7%	33.6%
Upstream	58,780	46,024	36,278	26,419	37,310	48,430	43,363	21,085	40,754	46,592	41,173	36,616	40,520	14.0%	-13.6%	11.8%	16.2%	15.9%
Downstream Character	22,176	25,475	34,473	31,466	33,373	33,918	30,041	26,760	19,027	21,881	30,903	36,825	34,563	5.3%	2.7%	15.0%	7.6%	13.6%
Chemicals Corporate and Financing	3,195 21	5,279 18	9,199 8	11,921 21	11,561 35	9,508 38	7,148 41	9,397 38	1,910 28	5,455 28	9,609 28	12,339 28	10,458 28	2.2% -6.3%	16.7% 8.8%	5.3% 0.0%	1.9% 0.0%	4.1% 0.0%
⊟iminations	21,394	21,137	(5,695)	(3,818)	(6,023)	(5,415)	(5,637)	(3,144)	-	-	-	-	-	-100.0%	-176.0%	-1.8%	0.0%	0.0%
Operating expenses																		
General and administrative expenses	12,877	12,598	11,501	10,443	10,649	11,480	11,398	10,168	10,930	11,349	10,961	10,917	11,475	2.4%	-3.3%	5.7%	4.0%	4.5% 3.6%
Downstream Chemicals	11,271 1,606	10,971 1,627	9,754 1,747	8,749 1,694	8,969 1,680	9,743 1,737	9,798 1,600	8,498 1,670	9,380 1,550	9,642 1,707	9,270 1,691	8,805 2,112	9,250 2,225	1.7% 5.9%	-4.0% 0.6%	4.8% 0.9%	3.4% 0.6%	3.6% 0.9%
Exploration expenses, including dry holes	1,976	1,669	1,523	1,467	1,790	1,466	1,269	1,285	1,142	1,263	1,383	1,580	1,641	5.0%	-6.0%	0.7%	0.4%	0.6%
Upstream	2,436	1,971	1,574	1,524	2,682	1,476	1,274	1,287	1,142	1,263	1,383	1,580	1,641	5.0%	-8.7%	0.7%	0.4%	0.6%
Eliminations Other taxes and duties	(460) 33,230	(302) 32,286	(51) 30,309	(57) 29,020	(892) 30,104	(10) 32,663	(5) 30,525	(2) 26,122	29,225	29,954	29,159	29,378	- 30,812	-100.0% 3.4%	-54.0% -3.4%	0.0% 14.6%	0.0% 10.4%	0.0% 12.1%
Upstream	17,333	13,059	7,054	5,535	6,317	7,701	7,089	4,317	4,968	6,889	6,707	6,757	7,087	10.4%	-3.4%	2.4%	2.4%	12.1% 2.8%
Downstream	13,915	16,744	19,722	19,675	20,035	21,185	20,146	18,224	20,817	19,595	18,989	18,245	19,126	1.0%	3.9%	10.2%	6.8%	7.5%
Chemicals	1,982	2,483	3,533	3,810	3,752	3,777	3,290	3,581	3,440	3,469	3,463	4,376	4,600	5.1%	8.8%	2.0%	1.2%	1.8%
Other operating expense Chemicals	-	-	-	1,835 1,835	1,745 1,745	1,285 1,285	1,235 1,235	1,205 1,205	-					-100.0% -100.0%	0.0%	0.7% 0.7%	0.0% 0.0%	0.0% 0.0%
Corporate and Financing	3,003	2,947	2,792	2,285	2,482	2,674	2,834	2,767	-	-	-	-	-	-100.0%	-1.2%	1.5%	0.0%	0.0%
Eliminations	(3,003)	(2,947)	(2,792)	(2,285)	(2,482)	(2,674)	(2,834)	(2,767)	-	-	-	-	-	-100.0%	-1.2%	-1.5%	0.0%	0.0%
Operating expenses	48,083	46,553	43,333	42,765	44,288	46,894	44,427	38,780	41,298	42,566	41,502	41,875	43,928	2.5%	-3.0%	21.7%	14.8%	17.2%
Other income Income from Equity Affiliates	13,927	13,323	7,644	4,806	5,380	7,355	5,441	1,732	1,732	8,378	7,432	5,854	5,854	27.6%	-25.8%	1.0%	2.9%	2.3%
Upstream	942	3,280	884	765	1,518	1,592	3,590	419	1,386	6,702	5,945	4,683	4,683	62.1%	-10.9%	0.2%	2.3%	1.8%
Downstream Charming Is	6,735	4,929	4,108	2,074	2,156	3,737	1,273	326	191	922	817	644 527	644 527	14.6%	-35.1%	0.2%	0.3%	0.3%
Chemicals Other Income	6,250 3,492	5,114 4,511	2,652 1,750	1,967 2,680	1,706 1,821	2,026 3,525	578 3,914	987 1,196	156 3,537	754 4,031	669 3,438	2,450	2,450	-11.8% 15.4%	-23.2% -14.2%	0.6% 0.7%	0.3% 1.4%	0.2% 1.0%
Upstream	-	-	-	-,	-	-	-	-	-	-	-	-,	-,	0.0%	0.0%	0.0%	0.0%	0.0%
Downstream	3,057	3,928	1,484	2,245	1,534	2,992	3,365	1,000	3,036	3,425	2,908	1,976	1,975	14.6%	-14.8%	0.6%	1.2%	0.8%
Chemicals Other income	435 17,419	583 17,834	9,394	435 <b>7,486</b>	287 <b>7,201</b>	533 <b>10,880</b>	549 9,355	196 <b>2,928</b>	502 <b>5,269</b>	606 <b>12,409</b>	530 <b>10,870</b>	474 8,304	475 <b>8,304</b>	19.3% 23.2%	-10.7% -22.5%	0.1% <b>1.6%</b>	0.2% 4.3%	0.2% 3.3%
EBITDA	74,902	69,213	40,325	30,730	39,168	50,464	39,884	18,284	25,689	43,799	51,079	52,235	49,944	22.3%	-18.2%	10.2%	15.2%	19.6%
Upstream	70,542	63,616	28,534	20,125	29,829	40,845	38,590	15,900	36,029	45,143	39,029	32,963	36,476	18.1%	-19.2%	8.9%	15.7%	14.3%
Downstream Downstream	6,781	6,618	10,590	7,360	8,057	9,720	4,735	1,363	(7,945)	(3,010)	6,369	12,394	8,805	45.2%	-20.5%	0.8%	-1.0%	3.5%
Chemicals Corporate and Financing	6,293 (2,982)	6,865 (2,929)	6,837 (2,784)	6,984 (2,264)	6,379 (2,447)	5,267 (2,636)	2,150 (2,793)	4,125 (2,729)	(2,422) 28	1,638 27	5,654 28	6,852 28	4,636 28	2.4% -139.9%	-5.9% -1.3%	2.3% -1.5%	0.6% 0.0%	1.8% 0.0%
Eliminations	(5,732)	(4,956)	(2,852)	(1,476)	(2,649)	(2,731)	(2,798)	(375)	(0)	(0)	-	(0)	(0)	-99.8%	-32.3%	-0.2%	0.0%	0.0%
Depreciation & depletion	17,182	17,297	18,048	22,308	19,893	18,745	18,998	46,009	19,384	19,946	20,566	21,246	22,069	-13.7%	15.1%	25.8%	6.9%	8.7%
Upstream	14,410	13,913	14,719	19,212	16,364	14,810	15,616	40,454	15,465	15,867	16,311	16,798	17,470	-15.5%	15.9%	22.7%	5.5%	6.9%
Downstream Chemicals	2,023 1,010	1,882 1,015	1,667 1,029	1,517 752	1,541 803	1,574 1,011	1,506 1,176	2,388 1,379	1,738 1,286	1,834 1,348	1,942 1,417	2,059 1,493	2,121	-2.3% 2.2%	2.4% 4.5%	1.3% 0.8%	0.6% 0.5%	0.8% 0.6%
Corporate and Financing	702	738	824	863	845	879	849	892	896	896	896	897	1,537 941	1.1%	3.5%	0.5%	0.3%	0.0%
⊟iminations	(963)	(251)	(191)	(36)	340	471	(149)	896	-	-	-	-	-	-100.0%	-199.0%	0.5%	0.0%	0.0%
EBIT	57,720	51,916	22,277	8,422	19,275	31,719	20,886	(27,725)	6,305	23,853	30,513	30,990	27,875	-200.1%	-190.1%	-15.5%	8.3%	10.9%
Upstream Downstream	56,132 4,758	49,703 4,736	13,815 8,923	913 5,843	13,465 6,516	26,035 8,146	22,974 3,229	(24,554) (1,025)	20,564 (9,683)	29,276 (4,844)	22,718 4,427	16,165 10,335	19,006 6,685	-195.0% -245.5%	-188.9% -180.3%	-13.7% -0.6%	10.2% -1.7%	7.5% 2.6%
Chemicals	4,758 5,283	4,736 5,850	5,808	6,232	5,576	8,146 4,256	3,229 974	(1,025) 2,746	(3,708)	(4,844)	4,427	5,359	3,098	-245.5% 2.4%	-180.3% -8.9%	-0.6% 1.5%	-1.7% 0.1%	1.2%
Corporate and Financing	(3,684)	(3,667)	(3,608)	(3,127)	(3,292)	(3,515)	(3,642)	(3,621)	(868)	(869)	(869)	(869)	(914)	-24.1%	-0.2%	-2.0%	-0.3%	-0.4%
Eliminations	(4,769)	(4,705)	(2,661)	(1,440)	(2,989)	(3,202)	(2,649)	(1,271)	(0)	(0)	-	(0)	(0)	-99.8%	-17.2%	-0.7%	0.0%	0.0%
Interest expense, net Upstream	9 56	286 57	311 53	453 46	601 116	766 108	830 88	1,158 145	1,279 160	1,267 159	1,114 140	1,297 162	1,226 153	1.1% 1.1%	100.1% 14.6%	0.6% 0.1%	0.4% 0.1%	0.5% 0.1%
Downstream	15	10	12	46 9	7	14	10	22	24	24	21	25	23	1.1%	5.6%	0.1%	0.1%	0.1%
Chemicals	1	-	1	-	-	1	1	-	-	-	-	-	-	0.0%	-100.0%	0.0%	0.0%	0.0%
Corporate and Financing Eliminations	(63)	219	245	398	478	643	731	991	1,095	1,084	953	1,110	1,049	1.1% 0.0%	-248.2% 0.0%	0.6% 0.0%	0.4% 0.0%	0.4% 0.0%
Earning Before Taxes	57,711	51,630	21,966	7,969	18,674	30,953	20,056	(28,883)	5,026	22,586	29,399	29,692	26,649	-198.4%	-190.6%	-16.2%	7.9%	10.5%
Income Taxes	24,263	18,015	5,415	(406)	(1,174)	9,532	5,282	(5,632)	874	3,805	5,682	6,085	5,335	-198.9%	-181.2%	-3.2%	1.3%	2.1%
Upstream	28,520	21,170	6,485	658	(100)	11,455	8,007	(3,945)	3,550	4,905	4,363	3,279	3,774	-199.1%	-175.4%	-2.2%	1.7%	1.5%
Downstream Charrier II	1,202	1,578	2,191	1,347	873	1,954	826	69	(1,689)	(820)	851	2,113	1,334	80.8%	-33.5%	0.0%	-0.3%	0.5%
Chemicals Corporate and Financing	1,352 (2,042)	1,390 (1,418)	1,279 (1,879)	1,302 (2,273)	1,026 16	811 (1,486)	363 (1,265)	712 (1,197)	(645) (342)	49 (329)	819 (352)	1,098 (406)	620 (393)	-2.7% -20.0%	-8.8% -7.3%	0.4% -0.7%	0.0% -0.1%	0.2% -0.2%
Biminations	(4,769)	(4,705)	(2,661)	(1,440)	(2,989)	(3,202)	(2,649)	(1,271)	(572)	(020)	(552)	(.50)	-	-100.0%	-17.2%	-0.7%	0.0%	0.0%
Net Income	33,448	33,615	16,551	8,375	19,848	21,421	14,774	(23,251)	4,152	18,782	23,717	23,607	21,314	-198.3%	-194.9%	-13.0%	6.5%	8.4%
Upstream	27,556	28,476	7,277	209	13,449	14,472	14,879	(20,754)	16,854	24,213	18,215	12,723	15,078	-193.8%	-196.0%	-11.6%	8.4%	5.9%
Downstream Chemicals	3,541 3,930	3,148 4,460	6,720 4,528	4,487 4,930	5,636 4,550	6,178 3,444	2,393 610	(1,116) 2,034	(8,018) (3,063)	(4,048) 241	3,554 3,418	8,197 4,261	5,328 2,478	-236.7% 4.0%	-184.8% -9.0%	-0.6% 1.1%	-1.4% 0.1%	2.1% 1.0%
Corporate and Financing	(1,579)	(2,468)	(1,974)	(1,252)	(3,786)	(2,672)	(3,108)	(3,415)	(1,622)	(1,624)	(1,470)	(1,574)	(1,570)	-14.4%	11.7%	-1.9%	-0.6%	-0.6%
N.I. attributable to noncontrolling interests	(868)	(1,095)	(401)	(535)	(138)	(581)	(434)	811	(145)	(655)	(827)	(823)	(743)	-198.3%	-199.0%	0.5%	-0.2%	-0.3%
Upstream	(715)	(928)	(176)	(13)	(94)	(393)	(437)	724	(129)	(585)	(738)	(735)	(664)	-198.3%	-200.2%	0.4%	-0.2%	-0.3%
Downstream Chemicals	(92) (102)	(103) (145)	(163) (110)	(287) (315)	(39)	(168) (93)	(70) (18)	39 (71)	(7) 13	(31) 57	(40) 72	(40) 72	(36) 65	-198.3% -198.3%	-188.5% -5.1%	0.0% 0.0%	0.0% 0.0%	0.0% 0.0%
Corporate and Financing	41	80	48	80	26	72	91	119	(21)	(96)	(122)	(121)	(109)	-198.3%	16.5%	0.1%	0.0%	0.0%
Net income attributable to ExxonMobil		32,520	16,150	7,840	19,710	20,840	14,340	(22,440)	4,007	18,127	22,890	22,784	20,570	-198.3%	-194.8%	-12.6%	6.3%	8.1%
Upstream Downstream	26,841 3,449	27,548 3,045	7,101 6,557	196 4,201	13,355 5,597	14,079 6,010	14,442 2,323	(20,030) (1,077)	16,725 (8,025)	23,628 (4,080)	17,476 3,515	11,988 8,158	14,414 5,292	-193.6% -237.5%	-195.9% -184.7%	-11.2% -0.6%	8.2% -1.4%	5.7% 2.1%
Chemicals	3,828	4,315	4,418	4,615	4,518	3,351	592	1,963	(3,050)	298	3,491	4,333	2,543	5.3%	-164.7%	1.1%	0.1%	1.0%
Corporate and Financing	(1,538)	(2,388)	(1,926)	(1,172)	(3,760)	(2,600)	(3,017)	(3,296)	(1,643)	(1,720)	(1,592)	(1,695)	(1,679)	-12.6%	11.5%	-1.8%	-0.6%	-0.7%

Statement of Financial Position - Exxon		·												
Account	2013	2014	2015	Histor 2016	ical 2017	2018	2019	2020	2021F	2022F	ore casted 2023F	2024F	2025F	CAGR 2020-25F
Assets	2013	2014	2015	2016	2017	2018	2019	2020	2021F	2022F	2023F	2024F	2025F	2020-23
Non-current assets														
Net Property and equipment	243,650	252,668	251,605	244,224	252,630	247,101	253,018	227,553	223,531	220,565	218,596	218,596	218,596	-0.89
Investments	19,734	20,543	20,611	20,964	24,528	26,592	29,481	29,915	33,588	37,426	41,190	48,226	55,196	13.09
Long-term receivables	6,118	4,878	4,524	4,695	5,520	5,590	5,141	4,788	4,788	4,788	4,788	4,788	4,788	
Other long-term assets	17,998	18,494	17,395	19,015	18,879	18,940	24,905	25,601	25,601	25,601	25,601	25,601	25,601	
Non-current assets	287,500	296,583	294,135	288,898	301,557	298,223	312,545	287,857	287,509	288,380	290,175	297,211	304,181	1.19
Current assets	16,135	16,678	16,245	15,080	16,992	18,958	18,528	18,850	22 552	22,795	10 501	16,921	16 007	-2.0%
Inventories Accounts Receivables	33,152	28,009	19,875	21,394	25,597	24,701	26,966	20,581	23,552 25,148	28,857	18,501 28,692	27,690	16,997 27,815	6.29
Other Current Assets	5,377	3,607	2,798	1,285	1,368	1,272	1,469	1,098	1,098	1,098	1,098	1,098	1,098	0.2
Cash and cash equivalents	4,644	4,616	3,705	3,657	3,177	3,042	3,089	4,364	8,747	7,163	3,784	3,012	3,038	-7.09
Current assets	59,308	52,910	42,623	41,416	47,134	47,973	50,052	44,893	58,545	59,913	52,075	48,722	48,948	1.79
Total Assets	346,808	349,493	336,758	330,314	348,691	346,196	362,597	332,750	346,054	348,294	342,250	345,933	353,129	1.29
Equity	0.0,000	C 10, 100		000,011	C 10,00 1	0.10,100	002,001	002,:00	0.0,00.	0.0,20.	V .=,=VV	0.0,000	000,120	
Common stock	10,077	10,792	11,612	12,157	14,656	15,258	15,637	15,688	15,688	15,688	15,688	15,688	15,688	
Common stock held in treasury		,				,		(225,776)	-	•	-	(225,776)		
Retained earning & other	354,852	375,864	396,294	399,991	394,830	400,813	407,001	406,383	369,078	358,220	361,481	368,615	374,759	-1.69
Net Income	32,580	32,520	16,150	7,840	19,710	20,840	14,340	(22,440)	4,007	18,127	22,890	22,784	20,570	-198.39
Other comprehensive income	(10,725)	(18,957)	(23,511)	(22,239)	(16,262)	(19,564)	(19,493)	(16,705)	(16,705)	(16,705)	(16,705)	(16,705)	(16,705)	
ExxonMobil Shareholder's equity	174,003	174,399	170,811	167,325	187,688	191,794	191,650	157,150	146,292	149,553	157,579	164,605	168,536	1.49
Noncontrolling interests	6,492	6,665	5,999	6,505	6,812	6,734	7,288	6,980	6,588	6,705	6,995	7,249	7,392	1.29
Total equity	180,495	181,064	176,810	173,830	194,500	198,528	198,938	164,130	152,879	156,259	164,574	171,855	175,928	1.4
Liabilities		,•••	3,010	,	,	,	,	,100	. 32,510	. 50,200	,	,500	,520	
Non-Current Liabilities														
Long Term Debt	6,891	11,653	19,925	28,932	24,406	20,538	26,342	47,182	57,123	55,720	49,072	50,209	51,932	1.99
Deferred income tax liabilities	40,530	39,230	36,818	34,041	26,893	27,244	25,620	18,165	18,165	18,165	18,165	18,165	18,165	
Postretirement benefits reserves	20,646	25,802	22,647	20,680	21,132	20,272	22,304	22,415	22,415	22,415	22,415	22,415	22,415	
Other long-term obligations	26,522	27,111	26,582	25,193	23,989	22,476	25,404	24,495	24,495	24,495	24,495	24,495	24,495	
Non-current liabilities	94,589	103,796	105,972	108,846	96,420	90,530	99,670	112,257	122,198	120,795	114,147	115,284	117,007	0.89
Current Liabilities														
Trade Payables	30,920	25,286	18,074	17,801	21,701	21,063	24,694	17,499	30,309	30,819	26,325	21,134	21,306	4.09
Accrued Expenses	10,578	10,352	9,699	8,644	9,642	9,342	10,312	11,246	9,424	9,785	9,450	9,413	9,893	-2.5%
Notes and loans payable	15,808	17,468	18,762	13,830	17,930	17,258	20,578	20,458	24,768	24,160	21,278	21,771	22,518	1.9%
		11,527	7,441	7,363	8,498	9,475	8,405	7,160	6,476	6,476	6,476	6,476	6,476	-2.0%
Other Current liabilities	14,418						20.000	=0.000	===	=4.040		=0 =0.4	00.404	4.00
Current liabilities	71,724	64,633	53,976	47,638	57,771	57,138	63,989	56,363	70,977	71,240	63,529	58,794	60,194	
Current liabilities Total liabilities							63,989 163,659	56,363 168,620	70,977 193,175	71,240 192,035	63,529 177,676	58,794 174,078	60,194 177,201	1.3%
Current liabilities	71,724	64,633	53,976	47,638	57,771	57,138								1.0%
Current liabilities  Total liabilities  Total Liabilities & Equity	71,724 166,313 346,808	64,633 168,429 349,493	53,976 159,948 336,758	47,638 156,484 330,314	57,771 154,191 348,691	57,138 147,668	163,659	168,620	193,175	192,035	177,676	174,078	177,201	1.0%
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Co	71,724 166,313 346,808	64,633 168,429 349,493	53,976 159,948 336,758	47,638 156,484 330,314 Mobil (\$'M	57,771 154,191 348,691	57,138 147,668	163,659	168,620	193,175	192,035 348,294	177,676 342,250	174,078 345,933	177,201	1.0%
Current liabilities  Total liabilities  Total Liabilities & Equity	71,724 166,313 346,808	64,633 168,429 349,493	53,976 159,948 336,758	47,638 156,484 330,314 Mobil (\$'M	57,771 154,191 348,691	57,138 147,668	163,659	168,620	193,175	192,035 348,294	177,676	174,078 345,933	177,201	1.0% 1.2% CAGR
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Co	71,724 166,313 346,808 apital Rearr	64,633 168,429 349,493 rangemen	53,976 159,948 336,758 t - ExxonN	47,638 156,484 330,314 Mobil (\$'M Histo	57,771 154,191 348,691 n)	57,138 147,668 346,196	163,659 362,597	168,620 332,750	193,175 346,054	192,035 348,294	177,676 342,250 ore casted	174,078 345,933	177,201 353,129	1.0° 1.2° CAGR
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Co	71,724 166,313 346,808 apital Rearr	64,633 168,429 349,493 rangemen	53,976 159,948 336,758 t - ExxonN	47,638 156,484 330,314 Mobil (\$'M Histo	57,771 154,191 348,691 n)	57,138 147,668 346,196	163,659 362,597	168,620 332,750	193,175 346,054	192,035 348,294	177,676 342,250 ore casted	174,078 345,933	177,201 353,129	1.0° 1.2° CAGR
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Contents  Account  Total funds invested: uses	71,724 166,313 346,808 apital Rearr	64,633 168,429 349,493 rangemen 2014	53,976 159,948 336,758 t - ExxonN 2015	47,638 156,484 330,314 Mobil (\$'M Histo 2016	57,771 154,191 348,691 n) prical 2017	57,138 147,668 346,196 2018	163,659 362,597	168,620 332,750	193,175 346,054	192,035 348,294	177,676 342,250 ore casted	174,078 345,933	177,201 353,129	1.0° 1.2° CAGR 2020-25
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Contents  Account  Total funds invested: uses  Net Working Capital	71,724 166,313 346,808 apital Reari 2013	64,633 168,429 349,493 rangemen 2014	53,976 159,948 336,758 t - ExxonN 2015	47,638 156,484 330,314 Mobil (\$'M Histo 2016	57,771 154,191 348,691 n) orical 2017	57,138 147,668 346,196 2018	163,659 362,597 2019	168,620 332,750 2020	193,175 346,054 2021F	192,035 348,294 F 2022F	177,676 342,250 ore casted 2023F	174,078 345,933 1 2024F	177,201 353,129 2025F	1.09 1.29 CAGR 2020-25F
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Content  Account  Total funds invested: uses  Net Working Capital Inventories	71,724 166,313 346,808 apital Reari 2013	64,633 168,429 349,493 rangemen 2014 6 16,678 2 28,009	53,976 159,948 336,758 t - ExxonN 2015	47,638 156,484 330,314 Mobil (\$'M Histo 2016 15,080 21,394	57,771 154,191 348,691 n) orical 2017 16,992 25,597	57,138 147,668 346,196 2018 18,958 24,701	163,659 362,597 2019	168,620 332,750 2020	193,175 346,054 2021F 23,552	192,035 348,294 F 2022F	177,676 342,250 Fore casted 2023F	174,078 345,933 1 2024F 16,921	177,201 353,129 2025F	1.0%
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Content    Account  Total funds invested: uses  Net Working Capital   Inventories  Accounts Receivables	71,724 166,313 346,808 apital Rearr 2013	64,633 168,429 349,493 angemen 2014 6 16,678 2 28,009 7 3,607	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798	47,638 156,484 330,314 Mobil (\$'M Histr 2016 15,080 21,394 1,285	57,771 154,191 348,691 n) orical 2017 16,992 25,597 1,368	57,138 147,668 346,196 2018 18,958 24,701	163,659 362,597 2019 18,528 26,966	168,620 332,750 2020 18,850 20,581	193,175 346,054 2021F 23,552 25,148 1,098	192,035 348,294 F 2022F 22,795 28,857	177,676 342,250 fore casted 2023F 18,501 28,692	174,078 345,933 2024F 16,921 27,690	177,201 353,129 2025F 16,997 27,815	1.09 1.29 CAGR 2020-25F
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Content of the Count of the Cou	71,724 166,313 346,808 apital Rearr 2013 16,135 33,152 5,377	64,633 168,429 349,493 2014 5 16,678 2 28,009 3,607 48,294	53,976 159,948 336,758 t - Exxoniv 2015 16,245 19,875 2,798 38,918	47,638 156,484 330,314 Abbil (S'M Histr 2016 15,080 21,394 1,285 37,759	57,771 154,191 348,691 n) orical 2017 16,992 25,597 1,368 43,957	57,138 147,668 346,196 2018 18,958 24,701 1,272 44,931	163,659 362,597 2019 18,528 26,966 1,469	168,620 332,750 2020 18,850 20,581 1,098	193,175 346,054 2021F 23,552 25,148 1,098	192,035 348,294 F 2022F 22,795 28,857 1,098	177,676 342,250 fore casted 2023F 18,501 28,692 1,098	174,078 345,933 2024F 16,921 27,690 1,098	177,201 353,129 2025F 16,997 27,815 1,098	1.0% 1.29 CAGR 2020-25F -2.0% 6.2%
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Content of the Count of the Cou	71,724 166,313 346,808 apital Rear 2013 16,135 33,152 5,377 54,664	64,633 168,429 349,493 angemen 2014 5 16,678 2 28,009 3,607 4 48,294 25,286	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074	47,638 156,484 330,314 Abbil (\$IM Hist 2016 15,080 21,394 1,285 37,759	57,771 154,191 348,691 n) orical 2017 16,992 25,597 1,368 43,957 21,701	57,138 147,668 346,196 2018 18,958 24,701 1,272 44,931 21,063	163,659 362,597 2019 18,528 26,966 1,469 46,963	168,620 332,750 2020 18,850 20,581 1,098 40,529	193,175 346,054 2021F 23,552 25,148 1,098 49,798	192,035 348,294 F 2022F 22,795 28,857 1,098 52,750	177,676 342,250 fore casted 2023F 18,501 28,692 1,098 48,291	174,078 345,933 2024F 16,921 27,690 1,098 45,709	177,201 353,129 2025F 16,997 27,815 1,098 45,910	1.09 1.29 CAGR 2020-25F -2.09 6.29
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested C  Account  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables	71,724 166,313 346,808 apital Rearr 2013 16,135 33,152 5,377 54,664 30,920	64,633 168,429 349,493 2014 6 16,678 2 28,009 3,607 4 48,294 2 5,286 6 10,352	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074	47,638 156,484 330,314 Abbil (\$IM Hist 2016 15,080 21,394 1,285 37,759	57,771 154,191 348,691 n) orical 2017 16,992 25,597 1,368 43,957 21,701 9,642	57,138 147,668 346,196 2018 18,958 24,701 1,272 44,931 21,063 9,342	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694	168,620 332,750 2020 18,850 20,581 1,098 40,529 17,499	2021F 2021F 23,552 25,148 1,098 49,798 30,309	192,035 348,294 F 2022F 22,795 28,857 1,098 52,750 30,819	18,501 28,692 1,098 48,291 26,325	174,078 345,933 2024F 16,921 27,690 1,098 45,709 21,134	2025F 2025F 16,997 27,815 1,098 45,910 21,306	1.09 1.29 CAGR 2020-25F -2.0% 6.29 2.59 4.0%
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested C  Account  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses	71,724 166,313 346,808 apital Rearr 2013 16,135 33,152 5,377 54,664 30,920 10,578	64,633 168,429 349,493 2014 5 16,678 2 28,009 3,607 48,294 25,286 3 10,352 11,527	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441	47,638 156,484 330,314 Histe 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363	57,771 154,191 348,691 n) orical 2017 16,992 25,597 1,368 43,957 21,701 9,642 8,498	57,138 147,668 346,196 2018 18,958 24,701 1,272 44,931 21,063 9,342	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312	168,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246	193,175 346,054 2021F 23,552 25,148 1,098 49,798 30,309 9,424	192,035 348,294 F 2022F 22,795 28,857 1,098 52,750 30,819 9,785	177,676 342,250 corecasted 2023F 18,501 28,692 1,098 48,291 26,325 9,450	174,078 345,933 2024F 16,921 27,690 1,098 45,709 21,134 9,413	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893	1.09 1.29 CAGR 2020-25f -2.0% 6.29 2.59 4.0% -2.5%
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested C  Account  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities	71,724 166,313 346,808 apital Reari 2013 16,135 33,152 5,377 54,664 30,920 10,578 14,418	64,633 168,429 349,493 2014 6 16,678 2 28,009 3,607 48,294 25,286 6 10,352 6 11,527 6 47,165	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214	47,638 156,484 330,314 Histo 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808	57,771 154,191 348,691 n) orical 2017 16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841	57,138 147,668 346,196 2018 18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405	168,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160	193,175 346,054 2021F 23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209	192,035 348,294 F 2022F 22,795 28,857 1,098 52,750 30,819 9,785 6,476	177,676 342,250 orecasted 2023F 18,501 28,692 1,098 48,291 26,325 9,450 6,476	174,078 345,933 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476	1.0° 1.2° CAGR 2020-25  -2.0° 6.2° 4.0° -2.5° -2.0° 1.0°
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Control of the Count   Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities  Operating Current liabilities  Net Operating Working Capital Other operating assets	71,724 166,313 346,808 apital Rears 2013 16,135 33,152 5,377 54,664 30,920 10,578 14,418 55,916	64,633 168,429 349,493 2014 6 16,678 2 28,009 3,607 48,294 25,286 6 10,352 6 11,527 6 47,165	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214	47,638 156,484 330,314 Histo 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808	57,771 154,191 348,691 n) orical 2017 16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841	57,138 147,668 346,196 2018 18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411	168,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905	193,175 346,054 2021F 23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209	192,035 348,294 F 2022F 22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080	177,676 342,250 core casted 2023F 18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251	174,078 345,933 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676	1.0° 1.2° CAGR 2020-25  -2.0° 6.2° 4.0° -2.5° -2.0° 1.0°
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Control of the Count  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities  Operating Current liabilities  Net Operating Working Capital Other operating assets  Net PP&E	71,724 166,313 346,808 apital Reari 2013 16,135 33,152 5,377 54,664 30,920 10,578 14,418 55,916 (1,252)	64,633 168,429 349,493 2014 5 16,678 2 28,009 7 3,607 4 48,294 9 25,286 6 10,352 11,527 6 47,165 1,129	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 3,704	47,638 156,484 330,314 Histo 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951	57,771 154,191 348,691 n) orical 2017 16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841 4,116	57,138 147,668 346,196 2018 18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552	168,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624	193,175 346,054 2021F 23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 3,590 223,531	192,035 348,294 F 2022F 22,795 28,857 1,098 5,2750 30,819 9,785 6,476 47,080 5,670	177,676 342,250 ore casted 2023F  18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596	1.0° 1.2° CAGR 2020-25i -2.0° 6.2° 4.0° -2.5° -2.0° 11.0°
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Concept of the Concept	71,724 166,313 346,808 apital Rear 2013 16,135 33,152 5,377 54,664 30,920 10,578 14,418 55,916 (1,252)	64,633 168,429 349,493 angemen 2014 5 16,678 2 28,009 3,607 48,294 0 25,286 10,352 11,527 6 47,165 1,129 252,668 4,878	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 251,605 4,524	47,638 156,484 330,314 Abbil (\$'M Histe 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695	57,771 154,191 348,691 n) orical 2017 16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841 4,116 252,630 5,520	147,668 346,196 2018 18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051 247,101 5,590	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141	168,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,2460 35,905 4,624 227,553 4,788	23,552 25,148 1,098 30,309 9,424 6,476 46,209 3,590 223,531 4,788	192,035 348,294 F 2022F 22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670	177,676 342,250  ore casted 2023F  18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040  218,596 4,788	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 4,788	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596 4,788	1.0° 1.2° CAGR 2020-25i -2.0° 6.2° 4.0° -2.5° -2.0° 11.0°
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Concent  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities  Operating Current liabilities  Net Operating Working Capital Other operating assets Net PP&E  Long-term receivables Other operating assets, net of other liabilities	71,724 166,313 346,808 apital Rearrant	64,633  168,429  349,493  angemen  2014  5 16,678 2 28,009 7 3,607 4 48,294 0 25,286 5 10,352 1,129 1 252,668 4 4,878 (14,122)	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 251,605 4,524	47,638 156,484 330,314 Abbil (\$'M Histe 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695	57,771 154,191 348,691 n) orical 2017 16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841 4,116 252,630 5,520	147,668 346,196 2018 18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051 247,101 5,590	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552	168,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624	193,175 346,054 2021F 23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 3,590 223,531	192,035 348,294 F 2022F 22,795 28,857 1,098 5,2750 30,819 9,785 6,476 47,080 5,670	177,676 342,250 ore casted 2023F  18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596	1.0° 1.2° CAGR 2020-25  -2.0° 6.2° 4.0° -2.5° -2.0°
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Concent  Account  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities  Operating Current liabilities  Net Operating Working Capital Other operating assets  Net PR&E  Long-term receivables Other operating assets, net of other liabilities Operating Cash	71,724 166,313 346,808 apital Rearrant	64,633  168,429  349,493  angemen  2014  16,678 28,009 3,607 48,294 0 25,286 10,352 11,527 6 47,165 1,129 0 252,668 6 4,878 (14,122)	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 3,704 251,605 4,524 (13,391)	47,638 156,484 330,314 Histr 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695 (10,298)	154,191 348,691 n) orical 2017 16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841 4,116 252,630 5,520 (8,428)	147,668 346,196 2018 18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051 247,101 5,590 (6,745)	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767)	168,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053)	2021F  23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 3,590  223,531 4,788 (3,053)	192,035 348,294 F 2022F 22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670 220,565 4,788 (3,053)	177,676 342,250  orecasted 2023F  18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040  218,596 4,788 (3,053)	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 218,596 4,788 (3,053)	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596 4,788 (3,053)	1.0° 1.2° CAGR 2020-25  -2.0° 6.2° 2.5° 4.0° -2.5% -2.0° 11.0° 12.2°
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested C  Account  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities  Operating Current liabilities  Net Operating Working Capital  Other operating assets  Net PP&E  Long-term receivables Other operating assets, net of other liabilities Operating Cash Invested Capital	71,724 166,313 346,808 apital Rearrant	64,633  168,429  349,493  angemen  2014  16,678 28,009 3,607 48,294 0 25,286 10,352 11,527 6 47,165 1,129 0 252,668 6 4,878 (14,122)	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 3,704 251,605 4,524 (13,391)	47,638 156,484 330,314 Histr 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695 (10,298)	154,191 348,691 n) orical 2017 16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841 4,116 252,630 5,520 (8,428)	147,668 346,196 2018 18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051 247,101 5,590 (6,745)	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141	168,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,2460 35,905 4,624 227,553 4,788	23,552 25,148 1,098 30,309 9,424 6,476 46,209 3,590 223,531 4,788	192,035 348,294 F 2022F 22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670	177,676 342,250  ore casted 2023F  18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040  218,596 4,788	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 4,788	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596 4,788	1.0° 1.2° CAGR 2020-25  -2.0° 6.2° 2.5° 4.0° -2.5% -2.0° 11.0° 12.2°
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested C  Account  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities  Operating Current liabilities  Net Operating Working Capital Other operating assets  Net PP&E  Long-term receivables Other Operating assets, net of other liabilities Operating Cash Invested Capital Non-operating assets	71,724 166,313 346,808 apital Reari 2013  16,135 33,152 5,377 54,664 30,920 10,578 14,418 55,916 (1,252) 243,650 6,118 (14,500) 1,252 235,268	64,633  168,429  349,493  2014  16,678  28,009  3,607  48,294  25,286  10,352  11,527  47,165  1,129  252,668  4,878  (14,122)  244,553	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 3,704 251,605 4,524 (13,391) 	47,638 156,484 330,314 Histo 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695 (10,298) 	57,771  154,191  348,691 n)  orical 2017  16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841 4,116  252,630 5,520 (8,428) 253,838	147,668 346,196 2018 18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051 247,101 5,590 (6,745) - 250,997	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767)	18,850 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) 233,912	2021F  23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 3,590 223,531 4,788 (3,053) - 228,856	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,565 4,788 (3,053) - 227,970	177,676 342,250 core casted 2023F 18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040 218,596 4,788 (3,053) - 226,371	174,078 345,933 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 218,596 4,788 (3,053) - 229,017	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 8,234 218,596 4,788 (3,053) - 228,565	1.0° 1.2° CAGR 2020-251 -2.0° 6.2° 4.0° -2.5° -2.0° 10.0° 12.2° -0.8°
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested C  Account  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities  Operating Current liabilities  Net Operating Working Capital Other operating assets Net PP&E  Long-term receivables Other operating assets, net of other liabilities Operating Cash Invested Capital Non-operating assets	71,724 166,313 346,808 apital Reariant	64,633  168,429  349,493  2014  16,678 2,8,009 3,607 48,294 25,286 10,352 11,527 47,165 1,129 252,668 4,878 (14,122) 2,544,553	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441 3,704 251,605 4,524 (13,391) 246,442 20,611	47,638 156,484 330,314 Histo 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695 (10,298) 242,572 20,964	57,771  154,191  348,691  n)  orical 2017  16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841 4,116  252,630 5,520 (8,428) 253,838	2018 2018 18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051 247,101 5,590 (6,745) 250,997	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767) 257,944	188,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) 233,912	2021F  23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 3,590  223,531 4,788 (3,053) - 228,856	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,565 4,788 (3,053) 227,970 37,426	177,676 342,250 342,250 342,250 18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040 218,596 4,788 (3,053) 226,371	174,078 345,933 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 218,596 4,788 (3,053) - 229,017	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596 4,788 (3,053) - 228,565	1.0° 1.2° CAGR 2020-251 -2.0° 6.2° 4.0° -2.5° -2.0° 10.0° 12.2° -0.8°
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested C  Account  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities  Operating Current liabilities  Net Operating Working Capital Other operating assets Net PP&E  Long-term receivables Other operating Cash Invested Capital  Non-operating assets Investments Tax loss carryforwards	71,724 166,313 346,808 apital Rearian 2013 16,135 33,152 5,377 54,664 30,920 10,578 14,418 55,916 (1,252) 243,650 6,118 (14,500) 1,252 235,268 19,734 3,393	64,633  168,429  349,493  2014  16,678 2,8,009 3,607 48,294 25,286 10,352 11,527 47,165 1,129 252,668 4,878 (14,122) 252,668 4,878 (14,122) 252,668 4,878 (14,123)	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 37,04 (13,391) 246,442 20,611 4,983	47,638 156,484 330,314 Histe 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 3,951 244,224 4,695 (10,298) 242,572	57,771  154,191  348,691  n)  orical 2017  16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841  4,116  252,630 5,520 (8,428) 253,838  24,528 6,767	2018 2018 18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051 247,101 5,590 (6,745) 250,997 26,592 6,321	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767) 257,944	168,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) 233,912 29,915 8,982	23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 223,531 4,788 (3,053) 228,856	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,566 4,788 (3,053) 227,970  37,426 8,982	177,676 342,250 342,250 0recasted 2023F 18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040 218,596 4,788 (3,053) 226,371	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 218,596 4,788 (3,053) 229,017	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596 4,788 (3,053) 228,565 55,196 8,982	1.0° 1.2° CAGR 2020-25  -2.0° 6.2° 4.0° -2.5° -2.0° 11.0° 12.2° -0.8° 13.0°
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Conduct  Account  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities Operating Current liabilities  Net Operating Working Capital Other operating assets Net PP&E  Long-term receivables Other operating assets, net of other liabilities Operating Cash Invested Capital Non-operating assets Investments Tax loss carryforwards Excess Cash	71,724 166,313 346,808 2013 16,135 33,152 5,377 54,664 30,920 10,578 55,916 (1,252) 243,650 6,118 6 (14,500) 1,252 235,268 19,734 3,393 3,392 3,392	64,633 168,429 349,493 angemen 2014 5 16,678 2 28,009 7 3,607 48,294 0 25,286 10,352 11,527 6 47,165 1,129 252,668 4 4,878 (14,122) 2 244,553 4 2,099 2 4,616	53,976 159,948 336,758 t - Exxoni  16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 3,704 251,605 4,524 (13,391) 246,442 20,611 4,983 3,705	47,638 156,484 330,314 Hist 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695 (10,298) 	57,771  154,191  348,691  n)  orical 2017  16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841  4,116  252,630 5,520 (8,428) - 253,838  24,528 6,767 3,177	18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051 247,101 5,590 (6,745) - 250,997	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767) - 257,944 29,481 7,404 3,089	188,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) 	23,552 25,148 49,798 30,309 9,424 6,476 46,209 223,531 4,788 (3,053) - 228,856 33,588 8,982 8,747	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,565 4,788 (3,053) - 227,970  37,426 8,982 7,163	177,676 342,250 0re casted 2023F 18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040 218,596 4,788 (3,053) - 226,371 41,190 8,982 3,784	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 4,788 (3,053) - 229,017 48,226 8,982 3,012	16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596 4,788 (3,053) - 228,565 55,196 8,982 3,038	1.0° 1.2° CAGR 2020-25i  -2.0° 6.2° 2.5° 4.0° -2.5° -2.0° 1.0° 12.2° -0.8°  13.0° -7.0°
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Concount  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities  Operating Current liabilities  Net Operating Working Capital Other operating assets Net PP&E  Long-term receivables Other operating Cash Invested Capital  Non-operating assets Investments  Tax loss carryforw ards Excess Cash Total Funds Invested	71,724 166,313 346,808 apital Rearian 2013 16,135 33,152 5,377 54,664 30,920 10,578 14,418 55,916 (1,252) 243,650 6,118 (14,500) 1,252 235,268 19,734 3,393	64,633 168,429 349,493 angemen 2014 5 16,678 2 28,009 7 3,607 48,294 0 25,286 10,352 11,527 6 47,165 1,129 252,668 4 4,878 (14,122) 2 244,553 4 2,099 2 4,616	53,976 159,948 336,758 t - Exxoni  16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 3,704 251,605 4,524 (13,391) 246,442 20,611 4,983 3,705	47,638 156,484 330,314 Hist 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695 (10,298) 	57,771  154,191  348,691  n)  orical 2017  16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841  4,116  252,630 5,520 (8,428) - 253,838  24,528 6,767 3,177	18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051 247,101 5,590 (6,745) - 250,997	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767) 257,944	168,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) 233,912 29,915 8,982	23,552 25,148 49,798 30,309 9,424 6,476 46,209 223,531 4,788 (3,053) - 228,856 33,588 8,982 8,747	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,566 4,788 (3,053) 227,970  37,426 8,982	177,676 342,250 342,250 0recasted 2023F 18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040 218,596 4,788 (3,053) 226,371	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 218,596 4,788 (3,053) 229,017	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596 4,788 (3,053) 228,565 55,196 8,982	1.0° 1.2° CAGR 2020-25  -2.0° 6.2° 4.0° -2.5° -2.0° 11.0° 12.2° -0.8° 13.0°
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Conduct  Account  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities  Operating Current liabilities  Operating Current liabilities  Net Operating assets Net PP&E  Long-term receivables Other operating assets, net of other liabilities Operating Cash Invested Capital Non-operating assets Investments  Tax loss carryforw ards Excess Cash Total Funds Invested: sources	71,724 166,313 346,808 2013 16,135 33,152 5,377 54,664 30,920 10,578 55,916 (1,252) 243,650 6,118 6 (14,500) 1,252 235,268 19,734 3,393 3,392 3,392	64,633 168,429 349,493 angemen 2014 5 16,678 2 28,009 7 3,607 48,294 0 25,286 10,352 11,527 6 47,165 1,129 252,668 4 4,878 (14,122) 2 244,553 4 2,099 2 4,616	53,976 159,948 336,758 t - Exxoni  16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 3,704 251,605 4,524 (13,391) 246,442 20,611 4,983 3,705	47,638 156,484 330,314 Hist 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695 (10,298) 	57,771  154,191  348,691  n)  orical 2017  16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841  4,116  252,630 5,520 (8,428) - 253,838  24,528 6,767 3,177	18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051 247,101 5,590 (6,745) - 250,997	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767) - 257,944 29,481 7,404 3,089	188,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) 	23,552 25,148 49,798 30,309 9,424 6,476 46,209 223,531 4,788 (3,053) - 228,856 33,588 8,982 8,747	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,565 4,788 (3,053) - 227,970  37,426 8,982 7,163	177,676 342,250 0re casted 2023F 18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040 218,596 4,788 (3,053) - 226,371 41,190 8,982 3,784	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 4,788 (3,053) - 229,017 48,226 8,982 3,012	16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596 4,788 (3,053) - 228,565 55,196 8,982 3,038	1.0° 1.2° CAGR 2020-25 -2.0° 6.2° 2.5° 4.0° -2.5° -2.0° 10.0° 12.2° -0.8° 13.0° -7.0°
Total liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Count  Total funds invested: uses  Net Working Capital Inventories Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables Accrued Expenses Other Current liabilities Operating Current liabilities  Net Operating Working Capital Other operating assets Net PP&E Long-term receivables Other operating assets, net of other liabilities Operating Cash Invested Capital Non-operating assets Investments Tax loss carryforw ards Excess Cash Total Funds Invested Total funds invested: sources Debt and Debt equivalents	71,724 166,313 346,808 2013 16,135 33,152 5,377 54,664 30,920 10,578 14,418 55,916 (1,252) 243,650 6,118 (14,500) 1,252 235,268 19,734 3,393 3,392 261,787	64,633  168,429  349,493  angemen  2014  16,678 2 28,009 3,607 48,294 0 25,286 10,352 11,527 47,165 1,129 252,668 4,878 (14,122) 252,668 4,878 (14,122) 252,668 4,878 (14,123) 252,668 4,878 (14,123) 252,668 4,878 (14,123) 252,668 273,811	53,976 159,948 336,758 t - Exxoni 16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 3,704 251,605 4,524 (13,391) - 246,442 20,611 4,983 3,705 275,741	47,638 156,484 330,314 Histr 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695 (10,298) - 242,572 20,964 5,472 3,657 272,665	57,771  154,191  348,691  n)  orical 2017  16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841 4,116  252,630 5,520 (8,428) - 253,838  24,528 6,767 3,177 288,310	18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051 247,101 5,590 (6,745) - 250,997 26,592 6,321 3,042 286,952	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767) - - 257,944 29,481 7,404 3,089 297,918	168,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) 233,912 29,915 8,982 4,364 277,173	2021F  23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 3,590  223,531 4,788 (3,053) - 228,856  33,588 8,982 8,747 280,173	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,565 4,788 (3,053) - 227,970  37,426 8,982 7,163 281,542	177,676 342,250  orecasted 2023F  18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040  218,596 4,788 (3,053) - 226,371  41,190 8,982 3,784 280,327	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 218,596 4,788 (3,053) - 229,017 48,226 8,982 3,012 289,238	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596 4,788 (3,053) - 228,565 55,196 8,982 3,038 295,781	1.0° 1.2° CAGR 2020-25 -2.0° 6.2° 2.5° -2.0° 1.0° 12.2° -0.8° -7.0° 13.0° -7.0° 1.3°
Total liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Conduct  Account  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities  Operating Current liabilities  Net Operating Working Capital Other operating assets Net PP&E  Long-term receivables Other operating assets, net of other liabilities Operating Cash Invested Capital  Non-operating assets Investments Tax loss carryforwards Excess Cash Total Funds invested  Total funds invested: sources Debt and Debt equivalents Short-term debt	71,724 166,313 346,808 apital Rearrange	64,633  168,429  349,493  angemen  2014  16,678 28,009 3,607 48,294 0 25,286 3 10,352 11,527 6 47,165 1,129 0 252,668 4,878 (14,122) 2 244,553 2 20,543 4 4,098 2 4,616 2 273,811	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441 3,704 251,605 4,524 (13,391) 246,442 20,611 4,983 3,705 275,741	47,638 156,484 330,314 Histr 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695 (10,298) 	154,191 154,191 348,691 n) orical 2017 16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841 4,116 252,630 (8,428) - 253,838 24,528 6,767 3,177 288,310	18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051 247,101 5,590 (6,745) - 250,997 26,592 6,321 3,042 286,952	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767) - 257,944 29,481 7,404 3,089 297,918	168,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) 233,912 29,915 8,982 4,364 277,173	193,175 346,054 2021F 23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 3,590 223,531 4,788 (3,053) - 228,856 33,588 8,982 8,747 280,173	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,565 4,788 (3,053) - 227,970  37,426 8,982 7,163 281,542	177,676 342,250  ore casted 2023F  18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040  218,596 4,788 (3,053) - 226,371  41,190 8,982 3,784 280,327	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 218,596 4,788 (3,053) - 229,017 48,226 8,982 3,012 289,238	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596 4,788 (3,053) - 228,565 55,196 8,982 3,038 295,781	1.0° 1.2°  CAGR 2020-25  -2.0° 6.2° 2.5° 4.0° -2.5° -2.0° 11.0° 12.2°  -0.8°  13.0° -7.0° 13.1°
Total liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested C Account  Total funds invested: uses  Net Working Capital Inventories Accounts Receivables Other Current Assets Operating Current Assets  Trade Payables Accrued Expenses Other Current liabilities Operating Current liabilities Net Operating Working Capital Other operating assets Net PP&E Long-term receivables Other operating assets, net of other liabilities Operating Cash Invested Capital Non-operating assets Investments Tax loss carryforwards Excess Cash Total Funds Invested  Total funds invested: sources Debt and Debt equivalents Short-term debt Long-Term Debt	71,724 166,313 346,808 apital Rearr  2013  16,135 33,152 5,377 54,664 30,920 10,578 14,418 55,916 (1,252) 243,650 6,118 (14,500) 1,252 235,268 19,734 3,393 3,392 261,787	64,633  168,429  349,493  angemen  2014  16,678 28,009 3,607 48,294 25,286 10,352 11,527 47,165 1,129 252,668 4,878 (14,122) 244,553 20,543 4,099 2 4,616 273,811	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441 3,704 251,605 4,524 (13,391)	47,638 156,484 330,314 Histr 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695 (10,298) - 242,572 20,964 5,472 272,665	154,191 348,691 n) orical 2017 16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841 4,116 252,630 5,520 (8,428) - 253,838 24,528 6,767 3,177 288,310	147,668 346,196 2018 18,958 24,701 1,272 44,931 21,063 9,475 39,880 5,051 247,101 5,590 (6,745) - 250,997 26,592 6,321 3,042 286,952	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767) - 257,944 29,481 7,404 3,089 297,918	188,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) - 233,912 29,915 8,982 4,364 277,173	193,175 346,054 2021F 23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 3,590 223,531 4,788 (3,053) - 228,856 33,588 8,982 8,747 280,173	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,565 4,788 (3,053) - 227,970 37,426 8,982 7,163 281,542	177,676 342,250 342,250 18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040 218,596 4,788 (3,053) - 226,371 41,190 8,982 3,784 280,327	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 218,596 4,788 (3,053) - 229,017 48,226 8,982 3,012 289,238	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 8,234 218,596 4,788 (3,053) - 228,565 55,196 8,982 3,038 295,781	1.0 1.2 CAGR 2020-25 -2.0° 6.2° 2.5° -2.0° 1.0° 12.2° -0.8° -7.0° 13.0° -7.0° 1.3°
Total liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested C  Account  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities  Operating Current liabilities  Net Operating Working Capital  Other operating assets  Net PP&E  Long-term receivables Other operating assets, net of other liabilities Operating Cash Invested Capital  Non-operating assets Investments  Tax loss carryforw ards Excess Cash Total Funds Invested  Total funds invested: sources Debt and Debt equivalents Short-term debt Long-Term Debt Postretirement benefits reserves	71,724 166,313 346,808 apital Rearrange	64,633  168,429  349,493  2014  16,678  28,009  3,607  48,294  25,286  10,352  11,527  47,165  1,129  252,668  4,878  (14,122)  244,553  20,543  4,099  4,616  273,811	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 3,704 251,605 4,524 (13,391) - 246,442 20,611 4,983 3,705 275,741	47,638 156,484 330,314 Histo 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695 (10,298) - 242,572 20,964 5,472 3,657 272,665	57,771  154,191  348,691  n)  orical 2017  16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841 4,116  252,630 5,520 (8,428) 253,838  24,528 6,767 3,177 288,310  17,930 24,406 21,132	57,138  147,668  346,196  2018  18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051  247,101 5,590 (6,745) - 250,997 26,592 6,321 3,042 286,952	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767) 257,944 29,481 7,404 3,089 297,918	168,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) 233,912 29,915 8,982 4,364 277,173	193,175 346,054 2021F 23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 3,590 223,531 4,788 (3,053) - 228,856 33,588 8,982 8,747 280,173	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,565 4,788 (3,053) - 227,970 37,426 8,982 7,163 281,542  24,160 55,720 22,415	177,676 342,250 342,250 18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040 218,596 4,788 (3,053) - 226,371 41,190 8,982 3,784 280,327	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 218,596 4,788 (3,053) - 229,017 48,226 8,982 3,012 289,238 21,771 50,209 22,415	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 8,234 218,596 4,788 (3,053) - 228,565 55,196 8,982 3,038 295,781	1.0 1.2 CAGR 2020-25 -2.0 6.2 2.5 4.0 -2.5 -2.0 1.0 12.2 -0.8 13.0 -7.0 1.3 1.9 1.9 1.9
Total liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested C  Account  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities  Operating Current liabilities  Net Operating Working Capital  Other operating assets  Net PP&E  Long-term receivables Other operating assets, net of other liabilities Operating Cash Invested Capital  Non-operating assets Investments  Tax loss carryforw ards Excess Cash Total Funds Invested  Total funds invested: sources Debt and Debt equivalents Short-term debt Long-Term Debt Postretirement benefits reserves	71,724 166,313 346,808 apital Reari 2013  16,135 33,152 5,377 54,664 30,920 10,578 14,418 55,916 (1,252) 243,650 6,118 (14,500) 1,252 235,268 19,734 3,393 3,392 261,787	64,633  168,429  349,493  2014  16,678  28,009  3,607  48,294  25,286  10,352  11,527  47,165  1,129  252,668  4,878  (14,122)  244,553  20,543  4,099  4,616  273,811	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 3,704 251,605 4,524 (13,391) - 246,442 20,611 4,983 3,705 275,741	47,638 156,484 330,314 Histo 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695 (10,298) - 242,572 20,964 5,472 3,657 272,665	57,771  154,191  348,691  n)  orical 2017  16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841 4,116  252,630 5,520 (8,428) 253,838  24,528 6,767 3,177 288,310  17,930 24,406 21,132	57,138  147,668  346,196  2018  18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051  247,101 5,590 (6,745) - 250,997 26,592 6,321 3,042 286,952	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767) - 257,944 29,481 7,404 3,089 297,918	188,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) 	193,175 346,054 2021F 23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 3,590 223,531 4,788 (3,053) - 228,856 33,588 8,982 8,747 280,173	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,565 4,788 (3,053) - 227,970 37,426 8,982 7,163 281,542	177,676 342,250 342,250 18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040 218,596 4,788 (3,053) - 226,371 41,190 8,982 3,784 280,327	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 218,596 4,788 (3,053) - 229,017 48,226 8,982 3,012 289,238	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 8,234 218,596 4,788 (3,053) - 228,565 55,196 8,982 3,038 295,781	1.0 1.2 CAGR 2020-25 -2.0 6.2 2.5 4.0 -2.5 -2.0 1.0 12.2 -0.8 13.0 -7.0 1.3 1.9 1.9 1.9
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested C  Account  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities  Operating Current liabilities  Net Operating Working Capital  Other operating assets  Net PP&E  Long-term receivables Other operating assets, net of other liabilities Operating Cash Invested Capital  Non-operating assets Investments  Tax loss carryforw ards Excess Cash  Total Funds Invested  Total funds invested: sources Debt and Debt equivalents  Short-term debt Long-Term Debt Postretirement benefits reserves Debt and Debt equivalents	71,724 166,313 346,808 apital Reari 2013  16,135 33,152 5,377 54,664 30,920 10,578 14,418 55,916 (1,252) 243,650 6,118 (14,500) 1,252 235,268 19,734 3,393 3,392 261,787	64,633 168,429 349,493 angemen 2014 5 16,678 2 28,009 3,607 48,294 0 25,286 5 10,352 5 11,527 6 47,165 6 4,878 6 (14,122) 7 2244,553 6 20,543 6 4,099 7 3,617 7 47,468 7 273,811	53,976 159,948 336,758 t - ExxonN 2015 16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 3,704 251,605 4,524 (13,391) - 246,442 20,611 4,983 3,705 275,741	47,638 156,484 330,314 Histe 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695 (10,298) 242,572 20,964 5,472 3,657 272,665	57,771  154,191  348,691  n)  orical 2017  16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841  4,116  252,630 5,520 (8,428) - 253,838  24,528 6,767 3,177 288,310  17,930 24,406 21,132 63,468	57,138  147,668  346,196  2018  18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880 5,051  247,101 5,590 (6,745) - 250,997  26,592 6,321 3,042 286,952  17,258 20,538 20,272 58,068	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767) 257,944 29,481 7,404 3,089 297,918	188,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) 	193,175 346,054 2021F 23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 3,590 223,531 4,788 (3,053) - 228,856 33,588 8,982 8,747 280,173	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,565 4,788 (3,053) - 227,970 37,426 8,982 7,163 281,542  24,160 55,720 22,415	177,676 342,250 342,250 18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040 218,596 4,788 (3,053) - 226,371 41,190 8,982 3,784 280,327	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 218,596 4,788 (3,053) - 229,017 48,226 8,982 3,012 289,238 21,771 50,209 22,415	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 8,234 218,596 4,788 (3,053) - 228,565 55,196 8,982 3,038 295,781	1.0°  1.2°  CAGR 2020-25  -2.0° 6.2°  2.5° -2.0° 1.0°  12.2°  -0.8°  13.0° -7.0° 1.3°  1.9° 1.9°
Current liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Concept of the Concept	71,724 166,313 346,808 apital Reari 2013  16,135 33,152 5,377 54,664 30,920 10,578 55,916 (1,252) 243,650 6,118 6 (14,500) 1,252 235,268 19,734 3,393 3,392 261,787	64,633  168,429  349,493  angemen  2014  5 16,678 2 28,009 3,607 48,294 0 25,286 5 10,352 11,527 6 47,165 1,129 0 252,668 3 4,878 (14,122) 2 - 244,553 4 (0,099 2 4,616 7 273,811 5 17,468 11,653 5 25,802 6 54,923	53,976 159,948 336,758 t - Exxoni  16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 3,704 251,605 4,524 (13,391) - 246,442 20,611 4,983 3,705 275,741 18,762 19,925 22,647 61,334	47,638 156,484 330,314 Histr 2016 15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951 244,224 4,695 (10,298) - 242,572 20,964 5,472 3,657 272,665 13,830 28,932 20,680 63,442 41,446	57,771  154,191  348,691  n)  orical 2017  16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841 4,116  252,630 5,520 (8,428) - 253,838  24,528 6,767 3,177 288,310  17,930 24,406 21,132 63,468	57,138  147,668  346,196  2018  18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880  5,051  247,101 5,590 (6,745) - 250,997  26,592 6,321 3,042 286,952  17,258 20,538 20,272 58,068	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767) 257,944 29,481 7,404 3,089 297,918	188,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) 233,912 29,915 8,982 4,364 277,173 20,458 47,182 22,415 90,055	193,175 346,054 2021F 23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 3,590 223,531 4,788 (3,053) - 228,856 33,588 8,982 8,747 280,173	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,565 4,788 (3,053) 227,970 37,426 8,982 7,163 281,542  24,160 55,720 22,415 102,295	177,676 342,250 342,250 342,250 18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040 218,596 4,788 (3,053) 226,371 41,190 8,982 3,784 280,327 21,278 49,072 22,415 92,765	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 218,596 4,788 (3,053) - 229,017 48,226 8,982 3,012 289,238 21,771 50,209 22,415 94,395	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596 4,788 (3,053) - 228,565 55,196 8,982 3,038 295,781 22,518 51,932 22,415 96,865	1.0° 1.2°  CAGR 2020-25  -2.0° 6.2°  4.0° -2.5° -2.0° 11.0°  12.2°  -0.8°  13.0° -7.0°
Total liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Concent  Total funds invested: uses  Net Working Capital Inventories Accounts Receivables Other Current Assets Operating Current Assets  Trade Payables Accrued Expenses Other Current liabilities Operating Current liabilities Operating Current liabilities  Net Operating assets Net Operating assets Net PP&E Long-term receivables Other operating assets, net of other liabilities Operating Cash Invested Capital Non-operating assets Investments Tax loss carryforw ards Excess Cash Total Funds Invested  Total funds invested: sources Debt and Debt equivalents Short-term debt Long-Term Debt Postretirement benefits reserves Debt and Debt equivalents Equity and Equity equivalents Deferred income tax liabilities, operating	71,724 166,313 346,808 apital Reari 2013  16,135 33,152 5,377 54,664 30,920 10,578 55,916 (1,252) 243,650 6,118 6 (14,500) 1,252 235,268 19,734 3,393 3,392 261,787	64,633  168,429  349,493  angemen  2014  16,678 2 28,009 3,607 48,294 0 25,286 10,352 11,527 47,165 1,129 0 252,668 4,878 (14,122) 1 252,668 1 4,878 (14,122) 2 54,616 2 73,811 3 17,468 11,653 2 5,802 3 45,964 (8,140)	53,976 159,948 336,758 1-Exxoni 16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 3,704 251,605 4,524 (13,391) - 246,442 20,611 4,983 3,705 275,741 18,762 19,925 22,647 61,334 43,883 (6,286)	47,638  156,484  330,314  Histr 2016  15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951  244,224 4,695 (10,298) - 242,572  20,964 5,472 3,657 272,665  13,830 28,932 20,680 63,442  41,446 (6,053)	57,771  154,191  348,691  n)  orical 2017  16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841 4,116  252,630 5,520 (8,428) - 253,838  24,528 6,767 3,177 288,310  17,930 24,406 21,132 63,4680 (4,338)	57,138  147,668  346,196  2018  18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880  5,051  247,101 5,590 (6,745) - 250,997  26,592 6,321 3,042 286,952 17,258 20,272 58,068  34,471 (4,115)	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767) 257,944 29,481 7,404 3,089 297,918 20,578 26,342 22,304 69,224 34,468	168,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) - 233,912 29,915 8,982 4,364 277,173 20,458 47,182 22,415 90,055 27,691	2021F  23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 3,590  223,531 4,788 (3,053) - 228,856  33,588 8,982 8,747 280,173  24,768 57,123 22,415 104,306  27,691 (4,703)	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,565 4,788 (3,053) - 227,970  37,426 8,982 7,163 281,542  24,160 55,720 22,415 102,295	177,676 342,250 342,250 2023F 18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040 218,596 4,788 (3,053) - 226,371 41,190 8,982 3,784 280,327 21,278 49,072 22,415 92,765	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 218,596 4,788 (3,053) 229,017 48,226 8,982 3,012 289,238 21,771 50,209 22,415 94,395	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596 4,788 (3,053) - 228,565 55,196 8,982 3,038 295,781 22,415 96,865 27,691	1.0 1.2 CAGR 2020-25 -2.0 6.2 2.5 4.0 -2.5 -2.0 1.0 12.2 -0.8 13.0 -7.0 1.3 1.9 1.9 1.5
Total liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Concept of the Managerial Balance Sheet - Invested Conter Current Assets  Operating Current Assets  Trade Payables Accrued Expenses Other Current liabilities Operating Current liabilities Operating Current liabilities Operating Current liabilities Other operating assets Net Operating assets Net PP&E Long-term receivables Other operating assets, net of other liabilities Operating Cash Invested Capital Non-operating assets Investments Tax loss carryforw ards Excess Cash Total Funds Invested  Total funds invested: sources Debt and Debt equivalents Short-term debt Long-Term Debt Postretirement benefits reserves Debt and Debt equivalents Equity and Equity equivalents Deferred income tax liabilities, operating Deferred income tax liabilities, non-operating	71,724 166,313 346,808 apital Rearr 2013  16,135 33,152 5,377 54,664 30,920 10,578 14,418 55,916 (1,252) 243,650 6,118 (14,500) 1,252 235,268 19,734 3,393 3,392 261,787  15,808 6,891 20,646 43,345	64,633  168,429  349,493  angemen  2014  5 16,678 2 28,009 3,607 48,294 0 25,286 5 10,352 11,527 6 47,165 1,129 0 252,668 6 4,878 (14,122) 2 5 3 4,099 2 4,616 273,811  5 17,468 11,653 5 25,802 5 4,923	53,976 159,948 336,758 t - Exxoni  16,245 19,875 2,798 38,918 18,074 9,699 7,441 35,214 3,704 251,605 4,524 (13,391) - 246,442 20,611 4,983 3,705 275,741  18,762 19,925 22,647 61,334 43,883 (6,286) 170,811	47,638  156,484  330,314  Histr 2016  15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951  244,224 4,695 (10,298) - 242,572  20,964 5,472 23,657 272,665  13,830 28,932 20,680 63,442  41,446 (6,053) 167,325	57,771  154,191  348,691  n)  orical 2017  16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841 4,116  252,630 5,520 (8,428) - 253,838  24,528 6,767 3,177 288,310  17,930 24,406 21,132 63,468 (4,338) 187,688	57,138  147,668  346,196  2018  18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880  5,051  247,101 5,590 (6,745) - 250,997  26,592 6,321 3,042 286,952  17,258 20,272 58,068  34,471 (4,115) 191,794	163,659 362,597 2019 18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767) 257,944 29,481 7,404 3,089 297,918 20,578 26,342 22,304 69,224 34,468 (4,712)	188,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) 	2021F  23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 3,590  223,531 4,788 (3,053) - 228,856  33,588 8,982 8,747 280,173  24,768 57,123 22,415 104,306  27,691 (4,703)	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,565 4,788 (3,053) - 227,970  37,426 8,982 7,163 281,542  24,160 55,720 22,415 102,295	177,676 342,250  orecasted 2023F  18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040  218,596 4,788 (3,053) - 226,371  41,190 8,982 3,784 280,327  21,278 49,072 22,415 92,765  27,691 (4,703)	174,078 345,933 1 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 218,596 4,788 (3,053) - 229,017 48,226 8,982 3,012 289,238 21,771 50,209 22,415 94,395 27,691 (4,703)	177,201 353,129 2025F 16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596 4,788 (3,053) - 228,565 55,196 8,982 3,038 295,781 22,518 51,932 22,418 51,932 24,418 51,932 27,691 (4,703)	1.0°  1.2°  CAGR 2020-25  -2.0° 6.2°  2.5° -2.0° 1.0°  12.2°  -0.8°  13.0° -7.0° 1.3°  1.9° 1.9°
Total liabilities  Total liabilities  Total Liabilities & Equity  Managerial Balance Sheet - Invested Conduct  Account  Total funds invested: uses  Net Working Capital Inventories  Accounts Receivables Other Current Assets  Operating Current Assets  Trade Payables  Accrued Expenses Other Current liabilities  Operating Current liabilities  Operating Current liabilities  Net Operating working Capital  Other operating assets  Net PP&E  Long-term receivables Other operating assets, net of other liabilities Operating Cash Invested Capital  Non-operating assets Invested Capital  Non-operating assets Investments  Tax loss carryforwards Excess Cash  Total Funds Invested  Total funds invested: sources Debt and Debt equivalents Short-term debt Long-Term Debt Postretirement benefits reserves Debt and Debt equivalents Equity and Equity equivalents Deferred income tax liabilities, non-operating Deferred income tax liabilities, non-operating ExxonMobil Shareholder's equity	71,724 166,313 346,808 346,808 16,135 33,152 5,377 54,664 30,920 10,578 14,418 55,916 (1,252) 243,650 6,118 6,118 6,118 7,734 3,393 3,392 261,787 15,808 6,891 20,646 43,345	64,633  168,429  349,493  angemen  2014  16,678 28,009 3,607 48,294 25,286 10,352 11,527 47,165 1,129 252,668 4,878 (14,122) 244,553 20,543 4,099 24,616 273,811  17,468 11,653 25,802 54,923 45,964 (8,140) 174,399 26,6665	53,976  159,948  336,758  t - Exxoni  16,245 19,875 2,798 38,918 18,074 9,699 7,441 3,704  251,605 4,524 (13,391) 246,442 20,611 4,983 3,705 275,741  18,762 19,925 22,647 61,334 43,883 (6,286) 170,811 5,999	47,638  156,484  330,314  Histr 2016  15,080 21,394 1,285 37,759 17,801 8,644 7,363 33,808 3,951  244,224 4,695 (10,298)	57,771  154,191  348,691  n)  orical 2017  16,992 25,597 1,368 43,957 21,701 9,642 8,498 39,841  4,116  252,630 (8,428) - 253,838  24,528 6,767 3,177 288,310  17,930 24,406 21,132 63,468 (4,338) 187,688 6,812	57,138  147,668  346,196  2018  18,958 24,701 1,272 44,931 21,063 9,342 9,475 39,880  5,051  247,101 5,590 (6,745) - 250,997  26,592 6,321 3,042 286,952  17,258 20,538 20,272 58,068  34,471 (4,115) 191,794 6,734	2019  18,528 26,966 1,469 46,963 24,694 10,312 8,405 43,411 3,552 253,018 5,141 (3,767) - 257,944 29,481 7,404 3,089 297,918 20,578 26,342 22,304 69,224 34,468 (4,712) 191,650	188,620 332,750 2020 18,850 20,581 1,098 40,529 17,499 11,246 7,160 35,905 4,624 227,553 4,788 (3,053) 233,912 29,915 8,982 4,364 277,173 20,458 47,182 22,415 90,055 27,691 (4,703) 157,150	193,175 346,054 2021F 23,552 25,148 1,098 49,798 30,309 9,424 6,476 46,209 3,590 223,531 4,788 (3,053) - 228,856 33,588 8,982 8,747 280,173 24,768 57,123 22,415 104,306 27,691 (4,703) 146,292 6,588	192,035 348,294  F 2022F  22,795 28,857 1,098 52,750 30,819 9,785 6,476 47,080 5,670  220,565 4,788 (3,053) - 227,970  37,426 8,982 7,163 281,542  24,160 55,720 22,415 102,295  27,691 (4,703) 149,553	177,676 342,250  orecasted 2023F  18,501 28,692 1,098 48,291 26,325 9,450 6,476 42,251 6,040  218,596 4,788 (3,053) - 226,371  41,190 41,190 41,190 21,278 49,072 22,415 92,765  27,691 (4,703) 157,579	174,078 345,933 14 2024F 16,921 27,690 1,098 45,709 21,134 9,413 6,476 37,023 8,686 4,788 (3,053) - 229,017 48,226 8,982 3,012 289,238 21,771 50,209 22,415 94,395 27,691 (4,703) 164,605	177,201 353,129  2025F  16,997 27,815 1,098 45,910 21,306 9,893 6,476 37,676 8,234 218,596 4,788 (3,053) - 228,565  55,196 8,982 3,038 295,781  22,518 51,932 22,415 96,865 27,691 (4,703) 168,536	1.0° 1.2°  CAGR 2020-25  -2.0° 6.2° 2.5° 4.0° -2.5° -2.0° 11.0° 12.2°  -0.8°  13.0° -7.0° 1.3°  1.9° 1.5°  1.4°

Note: Managerial Balance Sheet prepared according to Koller, Tim et al in "Valuation - Measuring and managing the value of companies" Mckinsey & Company.

Excess cash (\$'Mn)														
Description	0040	0044	2045		orical	0040	2010	2000	20045		orecast		20055	2020-2
Cash and Cash equivalents	<b>2013</b> 4,644	<b>2014</b> 4,616	<b>2015</b> 3,705	<b>2016</b> 3,657	<b>2017</b> 3,177	<b>2018</b> 3,042	<b>2019</b>	<b>2020</b> 9 4,364	2021F 4 8,747	<b>2022F</b> 7 7,163	<b>2023F</b> 3,784	<b>2024F</b> 3,012	<b>2025F</b> 3,038	-7.
·		1,129	3,704	3,951	4,116	5,051						,	8,234	
(+) Net Working Capital	(1,252)		<u> </u>	· ·		· ·	<u> </u>						,	12.
Excess Cash estimation	3,392	4,616	3,705	3,657	3,177	3,042	3,089	4,36	4 8,747	7,163	3,784	3,012	3,038	-7.
Cash Flow Statement (\$'Mn)														
Caption	0040	2011	2045	Histo		0040	0040	0000	00045		orecaste 2023F	d 2024F	2025F	2020-2
Operating Activities	2013	2014	2015	2016	2017	2018	2019	2020	2021F	2022F	2023F	2024F	2025F	2020-2
Net income including noncontrolling interests	33,448	33,615	16,551	8,375	19,848	21,421	14,774	(23,251)	4,152	18,782	23,717	23,607	21,314	-198.
Depreciation/Depletion	17,182	17,297	18,048	22,308	19,893	18,745	18,998	46,009	19,384	19,946	20,566	21,246	22,069	11
Deferred Taxes Postretirement benefits expense in excess	754	1,540	(1,832)	(4,386)	(8,577)	(60)	(944)	(8,856)	-	-	-	-	-	-100
of/(less than) net payments	2,291	524	2,153	(329)	1,135	1,070	109	498	-	-	-	-	-	-100
Other long-term obligation provisions in excess	()		(000)		(2.12)	(0.0)	(0.000)	// ***						
of/(less than) payments	(2,566)	1,404	(380)	(19)	(610)	(68)	(3,038)	(1,269)	-	-	-	-	-	-100
Dividends received greater than/(less than)	3	(358)	(691)	(579)	131	(1,684)	(936)	979	(173)	(838)	(743)	(585)	(585)	-190
equity in current earnings of equity companies		` '	, ,	. ,		, , ,	` '		. ,	, ,	` ,	, ,	` '	
Changes in Working Capital	(4,720)	(4,932)	(3,113)	(1,392)	(649)	(1,356)	923	(1,653)	1,034	(2,080)	(370)	(2,646)	452	-177
Net (gain) on asset sales All other items - net	(1,828) 350	(3,151)	(226) (166)	(1,682) (214)	(334) (771)	(1,993) (61)	(1,710) 1,540	2,207	-	-	-	-	-	-100
Operating Activities (CFO)	44,914	45,116	30,344	22,082	30,066	36,014	29,716	14,668	24,397	35,809	43,170	41,622	43,250	-
Investment Activities														
Capex - Additions to PP&E	(33,669)	(32,952)	(26,490)	(16,163)	(15,402)	(19,574)	(24,361)	(17,282)	(15,362)	(16,980)	(18,597)	(21,246)	(22,069)	5
Proceeds of sales of subsidiaries, PP&E and sales and returns of investments	2,707	4,035	2,389	4,275	3,103	4,123	3,692	999	-	-	-	-	-	-100
Decrease/(increase) in restricted cash and	72	227	42											
cash equivalents				-	- /F 50=:	- (4.00::	(0.00=)	(4.05=)	(0.505)	(0.005)	(0.000	(0.45.)	(0.000	_
Additional investments and advances  Other investing activities including collection of	(4,435)	(1,631)	(607)	(1,417)	(5,507)	(1,981)	(3,905)	(4,857)	(3,500)	(3,000)	(3,021)	(6,451)	(6,385)	ll .
advances	1,124	3,346	842	902	2,076	986	1,490	2,681	-	-	-	-	-	-100
Investment Activities (CFI)	(34,201)	(26,975)	(23,824)	(12,403)	(15,730)	(16,446)	(23,084)	(18,459)	(18,862)	(19,980)	(21,618)	(27,697)	(28,454)	9
Financing Activities														
Issuance (Retirement) of Debt, Net	11,604 332	6,966 5,662	9,255 8,002	4,293 12,066	(1,048) <i>60</i>	(4,925) 46	8,662 7,051	20,141 23, <i>178</i>	14,251 9,9 <i>41</i>	(2,011)	(9,530)	1,630 1,137	2,470 1,723	11
Long-term debt Short term	11,272	1,304	1,253	(7,773)	(1,108)	46 (4,971)	1,611	(3,037)	9,941 4,310	(1,403) (608)	(6,647) (2,882)	493	747	-175
Cash Dividends Paid	(11,179)	(11,816)	(12,260)	(12,615)	(13,185)	(14,041)	(14,844)	(15,053)	(15,402)	(15,402)	(15,402)	(16,326)	(17,241)	11
Cash dividends to ExxonMobil shareholders	(10,875)	(11,568)	(12,090)	(12,453)	(13,001)	,	(14,652)	, ,			(14,865)	(15,757)	(16,639)	2.
Cash dividends to NonControlling Interests	(304)	(248)	(170)	(162)	(184)	(243)	(192)	(188)	(537)	(537)	(537)	(569)	(601)	26.
Issuance (Retirement) of Stock, Net  Common stock acquired	(15,948) (15,998)	(13,153) (13,183)	(4,034) (4,039)	(971) (977)	(747) (747)	(626) (626)	(594) (594)	(405) (405)	-	-	-	-	-	-100 -100
Common stock sold	50	30	5	6	-	-	-	-	_	-	_	-	-	700.
Other Financing Cash Flow	47	115	2	-	(150)	146	158	602	-	-	-	-	-	-100
Changes in noncontrolling interests	(1)	-	-	-	(150)	146	158	623	-	-	-	-	-	-100.
Contingent consideration payments  Tax benefits related to stock-based awards	48	115	2	-	-	-	-	(21)	-	-	-	-	-	
Financing Activities (CFF)	(15,476)	(17,888)	(7,037)	(9,293)	(15,130)	(19,446)	(6,618)	5,285	(1,151)	(17,413)	(24,932)	(14,696)	(14,771)	-222
Other Cash Flows														
Foreign Exchange Effects	(175.0)	(281.0)	(394.0)	(434.0)	314.0	(257.0)	33.0	(219.0)	-	-	-	-	-	-100
Change in Cash	(4,938.0)	(28.0)	(911.0)	(48.0)	(480.0)	(135.0)	47.0	1,275.0	4,383.0	(1,583.7)	(3,379.2)	(771.6)	25.2	-54
Begining	9,582.0	4,644.0	4,616.0	3,705.0	3,657.0	3,177.0	3,042.0	3,089.0	4,364.0	8,747.0	7,163.3	3,784.1	3,012.5	-0
End	4,644.0	4,616.0	3,705.0	3,657.0	3,177.0	3,042.0	3,089.0	4,364.0	8,747.0	7,163.3	3,784.1	3,012.5	3,037.706	-7
Cash Flow Breakdown (\$'Mn)														
· · ·				Histo	rical					F	orecaste	d		CAC
Caption	2013	2014	2015	2016	2017	2018	2019	2020	2021F	2022F	2023F	2024F	2025F	2020-
Cash Flows	44.00									05.000	40.4=0	44.000	10.00	
Cash Flow from Operations (CFO) Cash Flow from Investment (CFI)	44,914			00 000		00.011	00 7:0	44000			43,170	41,622	43,250	24
		45,116 (26,975)	30,344	22,082	30,066	36,014 (16,446)	29,716	14,668 (18,459)	24,397	35,809			(28 454)	
Total FCF (Management Definition)	(34,201) <b>10,713</b>	45,116 (26,975) <b>18,141</b>	30,344 (23,824) <b>6,520</b>	22,082 (12,403) <b>9,679</b>	30,066 (15,730) <b>14,336</b>	36,014 (16,446) <b>19,568</b>	29,716 (23,084) <b>6,632</b>	14,668 (18,459) <b>(3,791)</b>	24,397 (18,862) <b>5,534</b>	(19,980) <b>15,830</b>	(21,618) <b>21,553</b>	(27,697) <b>13,925</b>	(28,454) <b>14,796</b>	_
Total FCF (Management Definition)	(34,201)	(26,975)	(23,824)	(12,403)	(15,730)	(16,446)	(23,084)	(18,459)	(18,862)	(19,980)	(21,618)	(27,697)	,	-231
Total FCF (Management Definition)  Cash Flow from Financing Activities (CFF)	(34,201) 10,713	(26,975) <b>18,141</b>	(23,824) <b>6,520</b>	(12,403) <b>9,679</b>	(15,730) <b>14,336</b>	(16,446) <b>19,568</b>	(23,084) <b>6,632</b>	(18,459) (3,791)	(18,862) <b>5,534</b>	(19,980) <b>15,830</b>	(21,618) <b>21,553</b>	(27,697) <b>13,925</b>	14,796	- <b>23</b> 1
Total FCF (Management Definition)  Cash Flow from Financing Activities (CFF)  Organic FCF (CFO - Organic Capex)	(34,201) <b>10,713</b> (15,476)	(26,975) <b>18,141</b> (17,888)	(23,824) <b>6,520</b> (7,037)	(12,403) 9,679 (9,293)	(15,730) <b>14,336</b> (15,130)	(16,446) <b>19,568</b> (19,446)	(23,084) <b>6,632</b> (6,618)	(18,459) (3,791) 5,285	(18,862) <b>5,534</b> (1,151)	(19,980) <b>15,830</b> (17,413)	(21,618) <b>21,553</b> (24,932)	(27,697) <b>13,925</b> (14,696)	14,796 (14,771)	-23° -222
Total FCF (Management Definition)  Cash Flow from Financing Activities (CFF)  Organic FCF (CFO - Organic Capex)  Free Cash Flow to Equity  Capital Expenditures	(34,201) 10,713 (15,476) 7,934	(26,975) 18,141 (17,888) 13,879	(23,824) <b>6,520</b> (7,037) <b>4,089</b>	(12,403) 9,679 (9,293) 5,404	(15,730) 14,336 (15,130) 11,233	(16,446) 19,568 (19,446) 15,445	(23,084) 6,632 (6,618) 2,940	(18,459) (3,791) 5,285 (4,790)	(18,862) <b>5,534</b> (1,151) <b>6,539</b>	(19,980) <b>15,830</b> (17,413) <b>16,072</b>	(21,618) <b>21,553</b> (24,932) <b>21,553</b>	(27,697) 13,925 (14,696) 16,925	14,796 (14,771) 17,596	-231 -222 -229
Total FCF (Management Definition)  Cash Flow from Financing Activities (CFF)  Organic FCF (CFO - Organic Capex)  Free Cash Flow to Equity  Capital Expenditures  Capex (Management Definition)	(34,201) 10,713 (15,476) 7,934 21,154	(26,975) 18,141 (17,888) 13,879 13,950 38,537	(23,824) 6,520 (7,037) 4,089 7,037	(12,403) 9,679 (9,293) 5,404 11,856 19,304	(15,730) 14,336 (15,130) 11,233 5,810 23,080	(16,446) 19,568 (19,446) 15,445 9,049 25,923	(23,084) 6,632 (6,618) 2,940 15,373	(18,459) (3,791) 5,285 (4,790) 43,693	(18,862) 5,534 (1,151) 6,539 22,090 19,000	(19,980) 15,830 (17,413) 16,072 11,038	(21,618) 21,553 (24,932) 21,553 9,916 23,000	(27,697) 13,925 (14,696) 16,925 17,966 26,277	14,796 (14,771) 17,596 19,611 27,295	-23° -222 -229
Total FCF (Management Definition)  Cash Flow from Financing Activities (CFF)  Organic FCF (CFO - Organic Capex)  Free Cash Flow to Equity  Capital Expenditures  Capex (Management Definition)  (-) Exploration costs charged to expense	(34,201) 10,713 (15,476) 7,934 21,154 42,489 1,976	(26,975) 18,141 (17,888) 13,879 13,950 38,537 1,669	(23,824) 6,520 (7,037) 4,089 7,037 31,051 1,523	(12,403) 9,679 (9,293) 5,404 11,856 19,304 1,467	(15,730) 14,336 (15,130) 11,233 5,810 23,080 1,790	(16,446) 19,568 (19,446) 15,445 9,049 25,923 1,466	(23,084) 6,632 (6,618) 2,940 15,373 31,148 1,269	(18,459) (3,791) 5,285 (4,790) 43,693 21,374 1,285	(18,862) 5,534 (1,151) 6,539 22,090 19,000 1,142	(19,980) 15,830 (17,413) 16,072 11,038 21,000 1,263	(21,618) 21,553 (24,932) 21,553 9,916 23,000 1,383	(27,697) 13,925 (14,696) 16,925 17,966 26,277 1,580	14,796 (14,771) 17,596 19,611 27,295 1,641	-23° -222 -229 -14
Total FCF (Management Definition) Cash Flow from Financing Activities (CFF) Organic FCF (CFO - Organic Capex) Free Cash Flow to Equity Capital Expenditures Capex (Management Definition) (-) Exploration costs charged to expense (-) Affiliate Share of Capex	(34,201) 10,713 (15,476) 7,934 21,154 42,489 1,976 6,844	(26,975) 18,141 (17,888) 13,879 13,950 38,537 1,669 3,916	(23,824) 6,520 (7,037) 4,089 7,037 31,051 1,523 3,038	(12,403) 9,679 (9,293) 5,404 11,856 19,304 1,467 1,674	(15,730) 14,336 (15,130) 11,233 5,810 23,080 1,790 5,888	(16,446) 19,568 (19,446) 15,445 9,049 25,923 1,466 4,883	(23,084) 6,632 (6,618) 2,940 15,373 31,148 1,269 5,518	(18,459) (3,791) 5,285 (4,790) 43,693 21,374 1,285 2,807	(18,862) 5,534 (1,151) 6,539 22,090 19,000 1,142 2,495	(19,980) 15,830 (17,413) 16,072 11,038 21,000 1,263 2,758	(21,618) 21,553 (24,932) 21,553 9,916 23,000 1,383 3,021	(27,697) 13,925 (14,696) 16,925 17,966 26,277 1,580 3,451	14,796 (14,771) 17,596 19,611 27,295 1,641 3,585	-23° -2229 -14
Cotal FCF (Management Definition) Cash Flow from Financing Activities (CFF) Organic FCF (CFO - Organic Capex) Free Cash Flow to Equity Capital Expenditures Capex (Management Definition) (-) Exploration costs charged to expense (-) Affiliate Share of Capex Cash Capex (Reported Capex - CFS)	(34,201) 10,713 (15,476) 7,934 21,154 42,489 1,976 6,844 33,669	(26,975) 18,141 (17,888) 13,879 13,950 38,537 1,669 3,916 32,952	(23,824) 6,520 (7,037) 4,089 7,037 31,051 1,523 3,038 26,490	(12,403) 9,679 (9,293) 5,404 11,856 19,304 1,467 1,674 16,163	(15,730) 14,336 (15,130) 11,233 5,810 23,080 1,790 5,888 15,402	(16,446) 19,568 (19,446) 15,445 9,049 25,923 1,466 4,883 19,574	(23,084) 6,632 (6,618) 2,940 15,373 31,148 1,269 5,518 24,361	(18,459) (3,791) 5,285 (4,790) 43,693 21,374 1,285 2,807 17,282	(18,862) 5,534 (1,151) 6,539 22,090 19,000 1,142 2,495 15,362	(19,980) 15,830 (17,413) 16,072 11,038 21,000 1,263 2,758 16,980	(21,618) 21,553 (24,932) 21,553 9,916 23,000 1,383 3,021 18,597	(27,697) 13,925 (14,696) 16,925 17,966 26,277 1,580 3,451 21,246	14,796 (14,771) 17,596 19,611 27,295 1,641 3,585 22,069	-23° -222 -229 -14
Cotal FCF (Management Definition) Cash Flow from Financing Activities (CFF) Organic FCF (CFO - Organic Capex) Free Cash Flow to Equity Capital Expenditures Capex (Management Definition) (-) Exploration costs charged to expense (-) Affiliate Share of Capex Cash Capex (Reported Capex - CFS) (+) Net Advances and Affiliates	(34,201) 10,713 (15,476) 7,934 21,154 42,489 1,976 6,844 33,669 3,311	(26,975) 18,141 (17,888) 13,879 13,950 38,537 1,669 3,916 32,952 (1,715)	(23,824) 6,520 (7,037) 4,089 7,037 31,051 1,523 3,038 26,490 (235)	(12,403) 9,679 (9,293) 5,404 11,856 19,304 1,467 1,674 16,163 515	(15,730) 14,336 (15,130) 11,233 5,810 23,080 1,790 5,888 15,402 3,431	(16,446) 19,568 (19,446) 15,445 9,049 25,923 1,466 4,883 19,574	(23,084) 6,632 (6,618) 2,940 15,373 31,148 1,269 5,518 24,361 2,415	(18,459) (3,791) 5,285 (4,790) 43,693 21,374 1,285 2,807 17,282 2,176	(18,862) 5,534 (1,151) 6,539 22,090 19,000 1,142 2,495 15,362 2,495	(19,980) 15,830 (17,413) 16,072 11,038 21,000 1,263 2,758 16,980 2,758	(21,618) 21,553 (24,932) 21,553 9,916 23,000 1,383 3,021 18,597	(27,697) 13,925 (14,696) 16,925 17,966 26,277 1,580 3,451 21,246	14,796 (14,771) 17,596 19,611 27,295 1,641 3,585 22,069 3,585	-233 -222 -229 -14 -14 -10
Total FCF (Management Definition)  Cash Flow from Financing Activities (CFF)  Organic FCF (CFO - Organic Capex)  Free Cash Flow to Equity  Capital Expenditures  Capex (Management Definition)  (-) Exploration costs charged to expense (-) Affiliate Share of Capex  Cash Capex (Reported Capex - CFS)  (+) Net Advances and Affiliates	(34,201) 10,713 (15,476) 7,934 21,154 42,489 1,976 6,844 33,669	(26,975) 18,141 (17,888) 13,879 13,950 38,537 1,669 3,916 32,952	(23,824) 6,520 (7,037) 4,089 7,037 31,051 1,523 3,038 26,490	(12,403) 9,679 (9,293) 5,404 11,856 19,304 1,467 1,674 16,163	(15,730) 14,336 (15,130) 11,233 5,810 23,080 1,790 5,888 15,402	(16,446) 19,568 (19,446) 15,445 9,049 25,923 1,466 4,883 19,574	(23,084) 6,632 (6,618) 2,940 15,373 31,148 1,269 5,518 24,361	(18,459) (3,791) 5,285 (4,790) 43,693 21,374 1,285 2,807 17,282	(18,862) 5,534 (1,151) 6,539 22,090 19,000 1,142 2,495 15,362	(19,980) 15,830 (17,413) 16,072 11,038 21,000 1,263 2,758 16,980	(21,618) 21,553 (24,932) 21,553 9,916 23,000 1,383 3,021 18,597	(27,697) 13,925 (14,696) 16,925 17,966 26,277 1,580 3,451 21,246	14,796 (14,771) 17,596 19,611 27,295 1,641 3,585 22,069	-233 -222 -229 -14 -14 -10
Total FCF (Management Definition) Cash Flow from Financing Activities (CFF) Organic FCF (CFO - Organic Capex) Free Cash Flow to Equity Capital Expenditures Capex (Management Definition) (-) Exploration costs charged to expense (-) Affiliate Share of Capex Cash Capex (Reported Capex - CFS) (+) Net Advances and Affiliates Organic Capex % of CFO	(34,201) 10,713 (15,476) 7,934 21,154 42,489 1,976 6,844 33,669 3,311 36,980	(26,975) 18,141 (17,888) 13,879 13,950 38,537 1,669 3,916 32,952 (1,715) 31,237	(23,824) 6,520 (7,037) 4,089 7,037 31,051 1,523 3,038 26,490 (235) 26,255	(12,403) 9,679 (9,293) 5,404 11,856 19,304 1,674 16,163 515 16,678	(15,730) 14,336 (15,130) 11,233 5,810 23,080 1,790 5,888 15,402 3,431 18,833	(16,446) 19,568 (19,446) 15,445 9,049 25,923 1,466 4,883 19,574 995 20,569	(23,084) 6,632 (6,618) 2,940 15,373 31,148 1,269 5,518 24,361 2,415 26,776	(18,459) (3,791) 5,285 (4,790) 43,693 21,374 1,285 2,807 17,282 2,176 19,458	(18,862) 5,534 (1,151) 6,539 22,090 19,000 1,142 2,495 15,362 2,495 17,858	(19,980) 15,830 (17,413) 16,072 11,038 21,000 1,263 2,758 16,980 2,758	(21,618) 21,553 (24,932) 21,553 9,916 23,000 1,383 3,021 18,597 3,021 21,617	(27,697) 13,925 (14,696) 16,925 17,966 26,277 1,580 3,451 21,246 3,451 24,697	14,796 (14,771) 17,596 19,611 27,295 1,641 3,585 22,069 3,585 25,654	-23° -222 -229 -14 -5 -5 -5 -5 -5 -10
Total FCF (Management Definition) Cash Flow from Financing Activities (CFF) Organic FCF (CFO - Organic Capex) Free Cash Flow to Equity Capital Expenditures Capex (Management Definition) (-) Exploration costs charged to expense (-) Affiliate Share of Capex Cash Capex (Reported Capex - CFS) (+) Net Advances and Affiliates Organic Capex % of CFO Shareholder Cash Flows	(34,201) 10,713 (15,476) 7,934 21,154 42,489 1,976 6,844 33,669 3,311 36,980	(26,975) 18,141 (17,888) 13,879 13,950 38,537 1,669 3,916 32,952 (1,715) 31,237	(23,824) 6,520 (7,037) 4,089 7,037 31,051 1,523 3,038 26,490 (235) 26,255	(12,403) 9,679 (9,293) 5,404 11,856 19,304 1,674 16,163 515 16,678	11,233 14,336 (15,130) 11,233 5,810 23,080 1,790 5,888 15,402 3,431 18,833 62.6%	(16,446) 19,568 (19,446) 15,445 9,049 25,923 1,466 4,883 19,574 995 20,569 57.1%	(23,084) 6,632 (6,618) 2,940 15,373 31,148 1,269 5,518 24,361 2,415 26,776 90.1%	(18,459) (3,791) 5,285 (4,790) 43,693 21,374 1,285 2,807 17,282 2,176 19,458 132.7%	(18,862) 5,534 (1,151) 6,539 22,090 19,000 1,142 2,495 15,362 2,495 17,858	(19,980) 15,830 (17,413) 16,072 11,038 21,000 1,263 2,758 16,980 2,758	(21,618) 21,553 (24,932) 21,553 9,916 23,000 1,383 3,021 18,597 3,021 21,617	(27,697) 13,925 (14,696) 16,925 17,966 26,277 1,580 3,451 21,246 3,451 24,697	14,796 (14,771) 17,596 19,611 27,295 1,641 3,585 22,069 3,585 25,654	-23° -222 -229 -14
Total FCF (Management Definition)  Cash Flow from Financing Activities (CFF)  Organic FCF (CFO - Organic Capex)  Free Cash Flow to Equity  Capital Expenditures  Capex (Management Definition)  (-) Exploration costs charged to expense (-) Affiliate Share of Capex  Cash Capex (Reported Capex - CFS)  (+) Net Advances and Affiliates  Organic Capex  % of CFO  Shareholder Cash Flows  Dividends  Share Buy Backs	(34,201) 10,713 (15,476) 7,934 21,154 42,489 1,976 6,844 33,669 3,311 36,980 82%	(26,975) 18,141 (17,888) 13,879 13,950 38,537 1,669 3,916 32,952 (1,715) 31,237 69.2%	(23,824) 6,520 (7,037) 4,089 7,037 31,051 1,523 3,038 26,490 (235) 26,255 86.5%	(12,403) 9,679 (9,293) 5,404 11,856 19,304 1,467 16,74 16,163 515 16,678 75.5%	(15,730) 14,336 (15,130) 11,233 5,810 23,080 1,790 5,888 15,402 3,431 18,833 62.6%	(16,446) 19,568 (19,446) 15,445 9,049 25,923 1,466 4,883 19,574 995 20,569 57.1%	(23,084) 6,632 (6,618) 2,940 15,373 31,148 1,269 5,518 24,361 2,415 26,776 90.1%	(18,459) (3,791) 5,285 (4,790) 43,693 21,374 1,285 2,807 17,282 2,176 19,458 132.7%	(18,862) 5,534 (1,151) 6,539 22,090 19,000 1,142 2,495 15,362 2,495 17,858 73.2%	(19,980) 15,830 (17,413) 16,072 11,038 21,000 1,263 2,758 16,980 2,758 19,737 55.1%	(21,618) 21,553 (24,932) 21,553 9,916 23,000 1,383 3,021 18,597 3,021 21,617 50.1%	(27,697) 13,925 (14,696) 16,925 17,966 26,277 1,580 3,451 21,246 3,451 24,697 59.3%	14,796 (14,771) 17,596 19,611 27,295 1,641 3,585 22,069 3,585 25,654 59.3%	-23° -222 -229 -14 -100
Total FCF (Management Definition)  Cash Flow from Financing Activities (CFF)  Organic FCF (CFO - Organic Capex)  Free Cash Flow to Equity  Capital Expenditures  Capex (Management Definition)  (-) Exploration costs charged to expense (-) Affiliate Share of Capex  Cash Capex (Reported Capex - CFS)  (+) Net Advances and Affiliates  Organic Capex  % of CFO  Shareholder Cash Flows  Dividends  Share Buy Backs  Cash flows to shareholders	(34,201) 10,713 (15,476) 7,934 21,154 42,489 1,976 6,844 33,669 3,311 36,980 82% 10,875 15,998 26,873	(26,975) 18,141 (17,888) 13,879 13,950 38,537 1,669 3,916 32,952 (1,715) 31,237 69.2%	(23,824) 6,520 (7,037) 4,089 7,037 31,051 1,523 3,038 26,490 (235) 26,255 86.5%	(12,403) 9,679 (9,293) 5,404 11,856 19,304 1,467 16,163 515 16,678 75.5%	(15,730) 14,336 (15,130) 11,233 5,810 23,080 1,790 5,888 15,402 3,431 18,833 62.6%	(16,446) 19,568 (19,446) 15,445 9,049 25,923 1,466 4,883 19,574 995 57,1% 13,798 626 14,424	(23,084) 6,632 (6,618) 2,940 15,373 31,148 1,269 5,518 24,361 2,415 26,776 90.1%	(18,459) (3,791) 5,285 (4,790) 43,693 21,374 1,285 2,807 17,282 2,176 19,458 132,7%	(18,862) 5,534 (1,151) 6,539 22,090 19,000 1,142 2,495 15,362 2,495 17,858 73,2% 14,865	(19,980) 15,830 (17,413) 16,072 11,038 21,000 1,263 2,758 16,980 2,758 19,737 55.1%	(21,618) 21,553 (24,932) 21,553 9,916 23,000 1,383 3,021 18,597 3,021 21,617 50.1%	(27,697) 13,925 (14,696) 16,925 17,966 26,277 1,580 3,451 21,246 3,451 24,697 59,3%	14,796 (14,771) 17,596 19,611 27,295 1,641 3,585 22,069 3,585 25,654 59,3% 16,639	-23° -222 -229 -14 -100
Total FCF (Management Definition)  Cash Flow from Financing Activities (CFF)  Organic FCF (CFO - Organic Capex)  Free Cash Flow to Equity  Capital Expenditures  Capex (Management Definition)  (-) Exploration costs charged to expense (-) Affiliate Share of Capex  Cash Capex (Reported Capex - CFS)  (+) Net Advances and Affiliates  Organic Capex  % of CFO  Shareholder Cash Flows  Dividends  Share Buy Backs	(34,201) 10,713 (15,476) 7,934 21,154 42,489 1,976 6,844 33,669 3,311 36,980 82%	(26,975) 18,141 (17,888) 13,879 13,950 38,537 1,669 3,916 32,952 (1,715) 31,237 69.2%	(23,824) 6,520 (7,037) 4,089 7,037 31,051 1,523 3,038 26,490 (235) 26,255 86.5%	(12,403) 9,679 (9,293) 5,404 11,856 19,304 1,467 16,74 16,163 515 16,678 75.5%	(15,730) 14,336 (15,130) 11,233 5,810 23,080 1,790 5,888 15,402 3,431 18,833 62.6%	(16,446) 19,568 (19,446) 15,445 9,049 25,923 1,466 4,883 19,574 995 20,569 57.1%	(23,084) 6,632 (6,618) 2,940 15,373 31,148 1,269 5,518 24,361 2,415 26,776 90.1%	(18,459) (3,791) 5,285 (4,790) 43,693 21,374 1,285 2,807 17,282 2,176 19,458 132.7%	(18,862) 5,534 (1,151) 6,539 22,090 19,000 1,142 2,495 15,362 2,495 17,858 73.2%	(19,980) 15,830 (17,413) 16,072 11,038 21,000 1,263 2,758 16,980 2,758 19,737 55.1%	(21,618) 21,553 (24,932) 21,553 9,916 23,000 1,383 3,021 18,597 3,021 21,617 50.1%	(27,697) 13,925 (14,696) 16,925 17,966 26,277 1,580 3,451 21,246 3,451 24,697 59.3%	14,796 (14,771) 17,596 19,611 27,295 1,641 3,585 22,069 3,585 25,654 59.3%	-231 -222 -229 -14 -5 5 5 10 -10
Total FCF (Management Definition)  Cash Flow from Financing Activities (CFF)  Organic FCF (CFO - Organic Capex)  Free Cash Flow to Equity  Capital Expenditures  Capex (Management Definition)  (-) Exploration costs charged to expense (-) Affiliate Share of Capex  Cash Capex (Reported Capex - CFS)  (+) Net Advances and Affiliates  Organic Capex  % of CFO  Share Buy Backs  Cash flows to shareholders  % of Organic FCF	(34,201) 10,713 (15,476) 7,934 21,154 42,489 1,976 6,844 33,669 3,311 36,980 82% 10,875 15,998 26,873 339%	(26,975) 18,141 (17,888) 13,879 13,950 38,537 1,669 3,916 32,952 (1,715) 31,237 69.2% 11,568 13,183 24,751 178%	(23,824) 6,520 (7,037) 4,089 7,037 31,051 1,523 3,038 26,490 (235) 26,255 86.5%	(12,403) 9,679 (9,293) 5,404 11,856 19,304 1,467 16,163 515 16,678 75.5% 12,453 977 13,430 249%	(15,730) 14,336 (15,130) 11,233 5,810 23,080 1,790 5,888 15,402 3,431 18,833 62.6% 13,001 747 13,748 122%	(16,446) 19,568 (19,446) 15,445 9,049 25,923 1,466 4,853 19,574 995 20,569 57,1% 13,798 626 14,424 93%	(23,084) 6,632 (6,618) 2,940 15,373 31,148 1,269 5,518 24,361 2,415 26,776 90.1% 14,652 594 15,246 519%	(18,459) (3,791) 5,285 (4,790) 43,693 21,374 1,285 2,807 17,282 2,176 19,458 132.7% 14,865 405 15,270 -319%	(18,862) 5,534 (1,151) 6,539 22,090 19,000 1,142 2,495 15,362 2,495 17,858 73,2% 14,865 227%	(19,980) 15,830 (17,413) 16,072 11,038 21,000 1,263 2,758 16,980 2,758 19,737 55.1% 14,865 92%	(21,618) 21,553 (24,932) 21,553 9,916 23,000 1,383 3,021 18,597 3,021 21,617 50.1% 14,865 69%	(27,697) 13,925 (14,696) 16,925 17,966 26,277 1,580 3,451 21,246 3,451 24,697 59.3%	14,796 (14,771) 17,596 19,611 27,295 1,641 3,585 22,069 3,585 25,654 59.3% 16,639 95%	-231 -222 -229 -14 -5 5 5 10 -10

# Appendix 6.3 – Common-size Financial Statements

Common-size Income Statement - Exx	onMobil (\$	'Mn)											
Caption				Histor	rical					F	orecasted		
Сарион	2013	2014	2015	2016	2017	2018	2019	2020	2021F	2022F	2023F	2024F	2025F
Revenue	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of revenue	67.6%	67.7%	69.0%	67.1%	67.8%	69.0%	70.7%	69.7%	75.9%	74.3%	70.5%	66.2%	66.4%
Production and manufacturing expenses	9.6%	10.4%	14.8%	15.2%	13.8%	13.1%	14.4%	17.0%	14.0%	12.8%	12.9%	13.6%	13.6%
Crude oil and product purchases	58.0%	57.3%	54.2%	51.9%	54.1%	55.9%	56.3%	52.6%	61.9%	61.5%	57.6%	52.6%	52.9%
Sales Based Taxes	7.3%	7.4%	-	-	-	-	-	-	-	-	-	-	-
Gross Margin	25.1%	24.8%	31.0%	32.9%	32.2%	31.0%	29.3%	30.3%	24.1%	25.7%	29.5%	33.8%	33.6%
Operating expenses													
General and administrative expenses	3.1%	3.2%	4.8%	5.2%	4.5%	4.1%	4.5%	5.7%	4.3%	4.0%	4.0%	4.3%	4.5%
Exploration expenses, including dry holes	0.5%	0.4%	0.6%	0.7%	0.8%	0.5%	0.5%	0.7%	0.4%	0.4%	0.5%	0.6%	0.6%
Other taxes and duties	7.9%	8.2%	12.6%	14.5%	12.7%	11.7%	11.9%	14.6%	11.4%	10.4%	10.5%	11.6%	12.1%
Other operating expense	-	-	-	0.9%	0.7%	0.5%	0.5%	0.7%	-	-	-	-	-
Operating expenses	11.4%	11.8%	18.1%	21.3%	18.7%	16.8%	17.4%	21.7%	16.1%	14.8%	15.0%	16.5%	17.2%
Other income													
Income from equity affiliates	3.3%	3.4%	3.2%	2.4%	2.3%	2.6%	2.1%	1.0%	0.7%	2.9%	2.7%	2.3%	2.3%
Other Income	0.8%	1.1%	0.7%	1.3%	0.8%	1.3%	1.5%	0.7%	1.4%	1.4%	1.2%	1.0%	1.0%
Other income	4.1%	4.5%	3.9%	3.7%	3.0%	3.9%	3.7%	1.6%	2.1%	4.3%	3.9%	3.3%	3.3%
EBITDA	17.8%	17.6%	16.8%	15.3%	16.5%	18.1%	15.6%	10.2%	10.0%	15.2%	18.4%	20.6%	19.6%
Depreciation & depletion	4.1%	4.4%	7.5%	11.1%	8.4%	6.7%	7.4%	25.8%	7.6%	6.9%	7.4%	8.4%	8.7%
EBIT	13.7%	13.2%	9.3%	4.2%	8.1%	11.4%	8.2%	-15.5%	2.5%	8.3%	11.0%	12.2%	10.9%
Interest expense, net	0.0%	0.1%	0.1%	0.2%	0.3%	0.3%	0.3%	0.6%	0.5%	0.4%	0.4%	0.5%	0.5%
Earning Before Taxes	13.7%	13.1%	9.2%	4.0%	7.9%	11.1%	7.8%	-16.2%	2.0%	7.9%	10.6%	11.7%	10.5%
Income Taxes	5.8%	4.6%	2.3%	-0.2%	-0.5%	3.4%	2.1%	-3.2%	0.3%	1.3%	2.0%	2.4%	2.1%
Net Income	7.9%	8.5%	6.9%	4.2%	8.4%	7.7%	5.8%	-13.0%	1.6%	6.5%	8.6%	9.3%	8.4%
N.I. attributable to noncontrolling interests	-0.2%	-0.3%	-0.2%	-0.3%	-0.1%	-0.2%	-0.2%	0.5%	-0.1%	-0.2%	-0.3%	-0.3%	-0.3%
Net income attributable to ExxonMobil	7.7%	8.3%	6.7%	3.9%	8.3%	7.5%	5.6%	-12.6%	1.6%	6.3%	8.3%	9.0%	8.1%

Common-size Statement of Financial	Position - E	xxonMobil	(\$'Mn)										
				Histor	rical					F	orecasted		
Account	2013	2014	2015	2016	2017	2018	2019	2020	2021F	2022F	2023F	2024F	2025F
Assets													
Non-current assets													
Net Property and equipment	70.3%	72.3%	74.7%	73.9%	72.5%	71.4%	69.8%	68.4%	64.6%	63.3%	63.9%	63.2%	61.9%
Investments	5.7%	5.9%	6.1%	6.3%	7.0%	7.7%	8.1%	9.0%	9.7%	10.7%	12.0%	13.9%	15.6%
Long-term receivables	1.8%	1.4%	1.3%	1.4%	1.6%	1.6%	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%
Other long-term assets	5.2%	5.3%	5.2%	5.8%	5.4%	5.5%	6.9%	7.7%	7.4%	7.4%	7.5%	7.4%	7.2%
Non-current assets	82.9%	84.9%	87.3%	87.5%	86.5%	86.1%	86.2%	86.5%	83.1%	82.8%	84.8%	85.9%	86.1%
Current assets													
Inventories	4.7%	4.8%	4.8%	4.6%	4.9%	5.5%	5.1%	5.7%	6.8%	6.5%	5.4%	4.9%	4.8%
Accounts Receivables	9.6%	8.0%	5.9%	6.5%	7.3%	7.1%	7.4%	6.2%	7.3%	8.3%	8.4%	8.0%	7.9%
Other Current Assets	1.6%	1.0%	0.8%	0.4%	0.4%	0.4%	0.4%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%
Cash and cash equivalents	1.3%	1.3%	1.1%	1.1%	0.9%	0.9%	0.9%	1.3%	2.5%	2.1%	1.1%	0.9%	0.9%
Current assets	17.1%	15.1%	12.7%	12.5%	13.5%	13.9%	13.8%	13.5%	16.9%	17.2%	15.2%	14.1%	13.9%
Total Assets	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Equity													
Common stock	2.9%	3.1%	3.4%	3.7%	4.2%	4.4%	4.3%	4.7%	4.5%	4.5%	4.6%	4.5%	4.4%
Common stock held in treasury	-61.4%	-64.6%	-68.2%	-69.8%	-64.6%	-65.2%	-62.3%	-67.9%	-65.2%	-64.8%	-66.0%	-65.3%	-63.9%
Retained earning & other	102.3%	107.5%	117.7%	121.1%	113.2%	115.8%	112.2%	122.1%	106.7%	102.8%	105.6%	106.6%	106.1%
Net Income	9.4%	9.3%	4.8%	2.4%	5.7%	6.0%	4.0%	-6.7%	1.2%	5.2%	6.7%	6.6%	5.8%
Other comprehensive income	-3.1%	-5.4%	-7.0%	-6.7%	-4.7%	-5.7%	-5.4%	-5.0%	-4.8%	-4.8%	-4.9%	-4.8%	-4.7%
ExxonMobil Shareholder's equity	50.2%	49.9%	50.7%	50.7%	53.8%	55.4%	52.9%	47.2%	42.3%	42.9%	46.0%	47.6%	47.7%
Noncontrolling interests	1.9%	1.9%	1.8%	2.0%	2.0%	1.9%	2.0%	2.1%	1.9%	1.9%	2.0%	2.1%	2.1%
Total equity	52.0%	51.8%	52.5%	52.6%	55.8%	57.3%	54.9%	49.3%	44.2%	44.9%	48.1%	49.7%	49.8%
Liabilities													
Non-Current Liabilities													
Long Term Debt	2.0%	3.3%	5.9%	8.8%	7.0%	5.9%	7.3%	14.2%	16.5%	16.0%	14.3%	14.5%	14.7%
Deferred income tax liabilities	11.7%	11.2%	10.9%	10.3%	7.7%	7.9%	7.1%	5.5%	5.2%	5.2%	5.3%	5.3%	5.1%
Postretirement benefits reserves	6.0%	7.4%	6.7%	6.3%	6.1%	5.9%	6.2%	6.7%	6.5%	6.4%	6.5%	6.5%	6.3%
Other long-term obligations	7.6%	7.8%	7.9%	7.6%	6.9%	6.5%	7.0%	7.4%	7.1%	7.0%	7.2%	7.1%	6.9%
Non-current liabilities	27.3%	29.7%	31.5%	33.0%	27.7%	26.1%	27.5%	33.7%	35.3%	34.7%	33.4%	33.3%	33.1%
Current Liabilities													
Trade Payables	8.9%	7.2%	5.4%	5.4%	6.2%	6.1%	6.8%	5.3%	8.8%	8.8%	7.7%	6.1%	6.0%
Accrued Expenses	3.1%	3.0%	2.9%	2.6%	2.8%	2.7%	2.8%	3.4%	2.7%	2.8%	2.8%	2.7%	2.8%
Notes and loans payable	4.6%	5.0%	5.6%	4.2%	5.1%	5.0%	5.7%	6.1%	7.2%	6.9%	6.2%	6.3%	6.4%
Other Current liabilities	4.2%	3.3%	2.2%	2.2%	2.4%	2.7%	2.3%	2.2%	1.9%	1.9%	1.9%	1.9%	1.8%
Current liabilities	20.7%	18.5%	16.0%	14.4%	16.6%	16.5%	17.6%	16.9%	20.5%	20.5%	18.6%	17.0%	17.0%
Total liabilities	48.0%	48.2%	47.5%	47.4%	44.2%	42.7%	45.1%	50.7%	55.8%	55.1%	51.9%	50.3%	50.2%
Total Liabilities + Equity	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

# Appendix 6.4 – High Level rationale of assumptions

High level Rationale of Author's Assumpti	ons
Variable	Rationale
Macroeconomic assumptions	
Real GDP Growth	Projections of Real GDP Growth were based on EIU provided Forecasts. Several risks might require reassessment of base case projections: i) slow pace of global vaccine distribution, which make possible to emerge new COVID-19 variants; ii) worsening U.SChina diplomatic relations, including Inter-state cyberwar and the rising conflicts between China and Taiwan, which might force US to intervene; iii) severe droughts that prompt a famine; iv) the Afghanistan conflicts and tension.
Inflation rate	Assumptions were based on EIU Forecasts. Significant changes might impact GDP growth and, consequently, projections of Brent & WTI.
World Population	Long-term projections were based on ONU forecasts. World population growth is a major driver for oil & gas demand.
Industry assumptions	
Global Oil & Gas Demand / Production  Brent crude oil price index	Global oil & gas supply and demand forecasts were based on EIU and IEA projections. Long-term projections were based on IEA STEPS.  Author projections were based on EIU Forecasts, except for 2024F, in which the Author was slightly more conservative. Besides the global
•	GDP grow th risk referred above, a breakdown in the OPEC+ quota deals could lead to another crude oil price crash.
WTI crude oil price index	Assumptions are aligned with IHS Markit. It was determined based on historical correlation between Brent and WTI.
Henry Hub	Assumptions are aligned with ElU forecasts. It was determined based on historical correlation between Brent and Henry Hub.
XOM's Operational assumptions	
XOM's Global Commodities Realization	XOM's realizations were determined based on the historical relation with respective market proxies, i.e., Brent, WTI and Henry Hub. It was used quarterly data, to extend the number of observations (above 30 observations).  Author analysis, where it was analyzed each upstream segment project. It was determined the pipelines production for each project, based
XOM's Upstream Production	on Exxon/bolis' historical guidance, considering that XOM never accomplished the global target productions goals. Delays were estimated for several key projects.
XOM's Reserves	Author analysis, based on XOMs production projected. No data for Probable and Possible Reserves is provided by XOM. It was assumed no additions to Proved Reserves. A potential prolonged crash in oil prices might lead to several upstream projects to become uneconomical, which might require an impairment expense charge of these assets and reassessment of XOMs Proved Preserves.
XOM's Refining Capacity	Author analysis, where it was analyzed each downstream segment site capacity. It was projected based XOM's guidance over
	expansions in these sites, also considering several delays, due to reduction of capital expenditure.
XOM's Refining Throughput	Author analysis, based on projected XOMs Refining capacity and utilization rate. Industry's Refining utilization rates expected to grow.
XOM's Refining Margins	Based on the first semester of the evolution of Major Crack spreads in the first semester of 2021, it is expected an increase in the refining margins. Projections over economic activity corroborate these forecasts. The amounts determined, were based on the historical relation between XOM's refining margins and XOM's commodities realizations, using quarterly data, to extend observations to above 30.
XOM's Marketing Margins	Author analysis, based on XOMs historical flat marketing margins.
	Chemicals products were less impacted by pandemic, compared to Petroleum products. Nevertheless, recovery in the global economy will
XOM's Chemicals Prime product Sales	lead to a growth in sales. Chemicals sales, were determined based on project by project Chemical site capacity analysis (considering XOM
	guidance and probable delays due to low er capital expenditures) as w ell as to estimations to utilizations rates.
XOM's Chemicals Margins	It is expected that the recovery in the global economy will also lead to Chemicals margins growth. Chemicals margins and sales were based on historical relationship with oil & gas commodities, which has economical reasonability. It was used quarterly data, to perform this analysis (above 30 observations).
XOM's financial assumptions	
Income Statement	Author policie hand a VOM underground stign and sile and
Upstream segment revenue	Author analysis, based on XOMs upstream production and oil & gas realizations projections. Revenue and other Income is practically alined with consensus (please see "Consensus estimates and recommendation summary" appendix)
Other income	Author analysis, based on historical relationship with Brent oil price index.
Downstream segment revenue	Author analysis, based on XOMs Refining Throughput and Refining/Marketing margins projections.
Chemicals segment revenue	Author analysis, based on XOMs Chemicals implied margins and Prime product sales projections.
Crude Oil and Product Purchases	
Production and Manufacturing expenses	Author analysis, based on the historical relationship with XOMs upstream production and oil & gas realizations projections. It was
General and administrative expenses	determined based on quarterly data and adapted for annual projections.
	XOM's guidance in 2021 Investors Day, over Capital Expenditures (Management definition over capex includes this caption).
Income from equity affiliates	Author analysis, based on historical relations with Brent oil price index, since XOMs equity affiliates are E&P companies.
	Author analysis, based on historical relationship with XOMs upstream production and oil & gas realizations. It was used quarterly data
Other taxes and duties	(above 30 observations), and then adapted to annualization.
Depreciation & depletion	Author analysis, based on XOMs guidance over Capital expenditures and historical depreciation & depletion rates.
Interest expense	Author analysis, based on detailed debt schedule developed, with historical interest rates over past loans. Interest of new loans were
	determined based on Cost of Debt determined.
Income Tax	Author analysis. It was applied the Operating Cash Effective Tax rates. Please refer to Tax rates determination tables.
Statement of Financial Position	XOM's guidance in 2021 Investors Day, over Capital Expenditures.
Capital Expenditures	Author analysis, based on projections of Income from equity affiliates. Additional investments on affiliates performed based on guidance
Investments	over Capex. Other investments performed as well, considering the long-term investment policy regarding the excess cash obtained.
Inventories, Acc. Rec., Other Curr. Assets	Author analysis, based on historical XOMs DSO and DIO, which are aligned with the industry figures (provided by Damodaran).
Interest bearing Debt & Debt equivalents	Postretirement benefits reserves (debt equivalent) projected to be stable. Interest bearing debt to be aligned with Target Debt-to-Equity, based on XOMs guidance.
Trade Payables / Accrued Expenses Market Data	Author analysis, based on historical XOM's DPO, w hich are aligned with the industry figures (provided by Damodaran).
Cost of Capital	
Discount Factor Model	Capital Asset Pricing Model (CAPM).
Cost of Equity (R <sub>e</sub> )	Cost of Equity was determined using CAPM (either integrated and segments). Upstream cost of equity is aligned with the PV10 SEC's standard (i.e. 10%).  Based on 10 Year US Treasury Bond Yield to Maturity. It was also computed RFR with Typical Default Spread methodology and it was
Risk-free rate (RFR)	researched Fernandez (2021) survey, but results were less reasonable, as at June 2021.
Beta (β <sub>e</sub> ) - Integrated approach	Top Down Aproach, based on a regression over S&P500 Index. It was adjusted with Blume's methodology.
Beta (β <sub>e</sub> ) - SoP (for each segment)	Pure-Play Method, based on Damodaran's data.
Market Risk Premium (MRP)	Based on Fernandez (2021) Survey and adapted using the Author's determined RFR.
	Based on Default Risk Model / Credit Spread. It was also computed the cost of debt using: i) Real YTM (effective cost); ii) Synthetic interest
Cost of Debt (R <sub>d</sub> )	rate; and iii) historical average interest expense. However, results were less reasonable.
Terminal Period	
Long-run sustainable grow th rate (g)	For DCF models, it was based on IEA's expected oil & gas growth (IEA STEPS), adjusted with expected inflation rate. It was also
Free Cash Flow determination methodology	determined the stable grow th model (i.e. reinvesment rate x ROE), but results were not reasonable.  Stable grow th model, assuming the normalization of the FCFF, for 7-9 years, i.e., a business cycle.
Tree cash flow determination methodology	Number grow at model, accounting the northelization of the FOFF, 1017-3 years, i.e., a busiliess cycle.

# Appendix 6.5 – Free Cash Flow to the Firm – Sum of the Parts and Integrated approach valuations

Free Cash Flow to the Firm - Sum of the Parts							
Cook flow (CIMp)	Year						
Cash-flow (\$'Mn)	2023F	2024F	2025F	Terminal			
FCFF							
NOPAT	18,727	20,007	17,657	17,158			
Upstream	13,608	9,139	11,484	11,965			
Dow nstream	2,929	7,714	4,844	3,227			
Chemicals	2,895	3,846	2,062	2,265			
Corp.& Fin	(705)	(692)	(733)	(300)			
(+) Amort. & Dep.	20,566	21,246	22,069	22,069			
Upstream	16,311	16,798	17,470	17,470			
Dow nstream	1,942	2,059	2,121	2,121			
Chemicals	1,417	1,493	1,537	1,537			
Corp.& Fin	896	897	941	941			
(-) Net change in NWC	370	2,646	(452)	(452)			
Upstream	1	226	11	11			
Dow nstream	304	1,840	(391)	(391)			
Chemicals	65	580	(73)	(73)			
Corp.& Fin	0	0	(0)	(0)			
(-) Capex	18,597	21,246	22,069	22,069			
Upstream	12,169	16,798	17,470	17,470			
Dow nstream	3,907	2,059	2,121	2,121			
Chemicals	2,514	1,493	1,537	1,537			
Corp.& Fin	6	897	941	941			
FCFF	20,326	17,361	18,109	17,610			
Upstream	17,749	8,912	11,473	11,954			
Dow nstream	659	5,874	5,235	3,618			
Chemicals	1,733	3,266	2,134	2,338			
Corp.& Fin	186	(692)	(733)	(300)			

Enterprise Value determination - FCFF - SoP							
Cash-flow (\$'Mn)			Year				
Casii-ilow (\$ Will)	2022F	2023F	2024F	2025F	Terminal		
Free Cash Flow to the Firm							
FCFF- SoP		20,326	17,361	18,109	17,610		
Upstream		17,749	8,912	11,473	11,954		
Dow nstream		659	5,874	5,235	3,618		
Chemicals		1,733	3,266	2,134	2,338		
Corp.& Fin		186	(692)	(733)	(300)		
Weighted Average	Cost of Ca	pital					
Upstream		7.9%	7.9%	7.9%	7.9%		
Dow nstream		6.8%	6.8%	6.8%	6.8%		
Chemicals		6.8%	6.8%	6.8%	6.8%		
Corp.& Fin		7.2%	7.2%	7.2%	7.2%		
Enterprise Value							
EV - SoP	343,867	369,638	375,336	384,718	366,609		
Upstream	215,996	233,078	232,288	240,997	229,524		
Dow nstream	81,739	87,309	92,530	92,545	87,311		
Chemicals	52,559	56,141	58,100	58,560	56,426		
Corp.& Fin	(6,428)	(6,890)	(7,582)	(7,384)	(6,652)		

FCFF (WACC), Integrated Aproach							
Cash-flow (\$'Mn)	Year						
Casti-ilow (\$ Will)	2023F	2024F	2025F	Terminal			
FCFF							
NOPAT							
NOPAT	18,727	20,007	17,657	17,661			
% YoY	42.3%	6.8%	-11.7%				
(+) Non Cash Charges							
Amortizations & Depreciations	20,566	21,246	22,069	22,069			
% YoY	3.1%	3.3%	3.9%				
(-) Net Working Capital							
Change Total Current Assets	(4,459)	(2,582)	201	201			
Change Total Current Liabilities	(4,829)	(5,228)	653	653			
(-) Change in Net Working Capital	370	2,646	(452)	(452)			
% YoY	-82.2%	615.0%	-117.1%				
(-) Capital Expenditures							
Capex - Additions do PP&E	18,597	21,246	22,069	22,069			
% YoY	10%	14%	4%				
(=) FCFF	20,326	17,361	18,109	18,113			
% YoY	10%	14%	4%				

FCFF (WACC) - Price Target Determination (\$'Mn), Integrated Approach							
Forecast Year	Free cash flow	WACC	Dis count Factor	Present Value of FCFF			
(+) Enterprise Value							
2023F	20,326	7.2%	0.933	18,963			
2024F	17,361	7.2%	0.871	15,114			
2025F	18,109	7.2%	0.812	14,710			
Terminal Value	401,648	7.2%	0.812	326,266			
Enterprise Value				375,053			
(+) Non Operating Assets							
Investments				37,426			
Tax loss carryforw ards				8,982			
Excess Cash				7,163			
Total Non Operating Assets				53,571			
Firm Value value				428,625			
(-) Debt and Debt equivalents							
Short-term debt				24,160			
Long-Term Debt				55,720			
Postretirement benefits reserves				22,415			
Total Debt and Debt equivalents				102,295			
(-) Non controlling assets							
Noncontrolling interests				6,705			
Equity Value				319,624			
Outstanding Shares (Mn)				4,233			
Price Target (\$/Share)				\$75.5			

FCFF - Sum of the Parts Valuation (\$'Mn)									
Caption	Upstream	Downstream	Chemicals	Corp.&Fin.	Synergies	Total	\$/ Sh.	% FV	% Eq. V
Enterprise Value	215,996	81,739	52,559	(6,428)	31,187	375,053	88.6	88%	117%
Non Operating Assets						53,571	12.7	12%	17%
Firm Value						428,625	101.3	100%	134%
Debt and Debt equivalents						(102,295)	(24.2)	-24%	-32%
Non controlling interests						(6,705)	(1.6)	-2%	-2%
Equity Value						319,624	75.5	75%	100%
Out. Shares (Mn)						4,233			
Price Target (\$/Share)						\$ 75.5			

# Appendix 6.6 – WACC Breakdown

WACC Determination							
Cook flow (f:Mm)	Year						
Cash-flow (\$'Mn)	2023F	2024F	2025F	Terminal			
Cost of Equity							
Risk-free Rate	1.3%	1.3%	1.3%	1.3%			
Unlevered Beta (βu) - Integrated	1.02	1.02	1.02	1.02			
Upstream	1.14	1.14	1.14	1.14			
Dow nstream	0.95	0.95	0.95	0.95			
Chemicals	0.95	0.95	0.95	0.95			
Corp.& Fin	1.02	1.02	1.02	1.02			
Tax Rate	18.8%	20.4%	19.7%	19.7%			
Beta (βe) - Integrated	1.26	1.26	1.26	1.26			
Upstream	1.42	1.41	1.41	1.41			
Dow nstream	1.18	1.18	1.18	1.18			
Chemicals	1.18	1.18	1.18	1.18			
Corp.& Fin	1.26	1.26	1.26	1.26			
Market Risk Premium	6.0%	6.0%	6.0%	6.0%			
Cost of Equity - Integrated	8.9%	8.9%	8.9%	8.9%			
Upstream	9.8%	9.8%	9.8%	9.8%			
Dow nstream	8.4%	8.4%	8.4%	8.4%			
Chemicals	8.4%	8.4%	8.4%	8.4%			
Corp.& Fin	8.9%	8.9%	8.9%	8.9%			
Cost of Debt							
Cost of Debt	1.9%	1.9%	1.9%	1.9%			
Tax Rate	18.8%	20.4%	19.7%	19.7%			
After-tax cost of debt	1.6%	1.5%	1.5%	1.5%			
WACC	7.2%	7.2%	7.2%	7.2%			

Target Weights							
Description	Year						
Description	2021F	2022F	2023F	2024F	2025F	Terminal	
Debt w eight	29.8%	27.3%	23.1%	23.1%	23.1%	23.1%	
Equity weight	70.2%	72.7%	76.9%	76.9%	76.9%	76.9%	
Debt-to-Equity	42.5%	37.5%	30.0%	30.0%	30.0%	30.0%	

Market Risk Premium					
Description	Value				
Market Return - Fernandez (2021)	7.30%				
Risk-Free	1.3%				
Market Risk Premium	6.0%				
Sovereign Default Risk Spread	-				
Equity Risk Premium	6.0%				

Risk-Free Rate					
Description	Value				
U.S. Treasury Bond 10Y YTM	1.28%				
Excess CDS spread	-				
Country Default Spread	-				
Risk-Free Rate	1.28%				

Beta unlevered, Pure-Play Method					
	Industry				
Description	Oil & Gas	Chemicals (Diversified)			
	(Upstream)	(Diversified)			
β <sub>u</sub> , corrected for Cash	1.14	1.18			

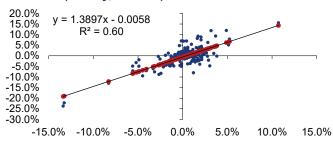
Source: Damodaran (2021)

## Beta (Integrated) Top-Down aproach (Regression)

Regression Statistic	s
Multiple R	0.78
R Square	0.60
Adjusted R Square	0.60
Standard Error	3%
Observations	157

Regression	
Regression Beta	1.39
Regression Beta Blume adjustment	1.26

## XOM Beta (Weekly, SP&500)



Source: Author Analysis

# Cost of Debt

Company Default Spread estimation		
Ratios	<b>A</b> m ount	
Interest Coverage Ratio - 2019		
Interest Coverage Ratio	25.16	
Company Default spread - 2019	0.63%	
Interest Coverage Ratio - 2020		
Interest Coverage Ratio	(23.94)	
Company Default spread - 2020	15.12%	
Interest Coverage Ratio - 2025F		
Interest Coverage Ratio	22.74	
Company Default spread - 2025F	0.63%	

Source: Author Analysis

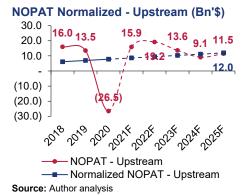
Cost of Debt Estimation (Default Risk Model)					
Indicator	CDS 2019	CDS 2020	CDS 2025F		
Risk-free Rate	1.28%	1.28%	1.28%		
Country Default Spread	0.00%	0.00%	0.00%		
Company Default Spread	0.63%	15.12%	0.63%		
Cost of Debt (DRM)	1.91%	16.40%	1.91%		

Source: Author analysis

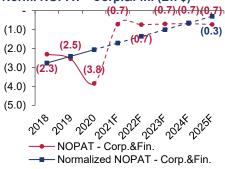
Default Sprea	d Table			
Interest Cov	Interest Coverage Ratio		Rating Fitch	Default
Greater than	Less than	Moody's	& S&P	Spread
(100,000.00)	0.20	D2	D	15.12%
0.20	0.65	C2	С	11.34%
0.65	0.80	Ca2	CC	8.64%
0.80	1.25	Caa	ccc	8.20%
1.25	1.50	В3	B-	5.15%
1.50	1.75	B2	В	4.21%
1.75	2.00	B1	B+	3.51%
2.00	2.25	Ba2	BB	2.40%
2.25	2.50	Ba1	BB+	2.00%
2.50	3.00	Baa2	BBB	1.56%
3.00	4.25	A3	A-	1.22%
4.25	5.50	A2	Α	1.08%
5.50	6.50	A1	A+	0.98%
6.50	8.50	Aa2	AA	0.78%
8.50	100,000.00	Aaa	AAA	0.63%

Source: Damodaran (2021)

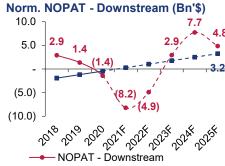
# Appendix 6.7 - Terminal Value





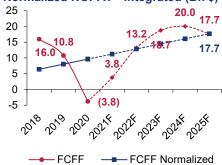


Source: Author analysis



Normalized NOPAT - Integrated (Bn'\$)

--- Normalized NOPAT - Downstream



Source: Author's analysis

Source: Author analysis

	AT - Chemicals (F	3n <b>'</b> \$)
6.0 ]		3.8
4.0 -	1.9	.9 2.1
2.0	).3	2.3
- <del>105 -</del>		2.3
(2.0) (4.0)	(3.2) (0.4)	
(4.0) <sup>]</sup>	•	
2018 201	? <sup>3</sup> 20 <sup>2</sup> 202 <sup>16</sup> 202 <sup>16</sup> 202 <sup>5</sup>	2024 2025k
—•— N	OPAT - Chemicals	
No	ormalized NOPAT - 0	Chemicals
Source: Author	analysis	

Source: Autnor analysis Source: Autnor's analysis						
Terminal Value (\$'Mn) - Segments						
ltem	Upstream	Downstream	Chemicals	Corp.&Fin		
FCFF (norm.)	11,954	3,618	2,338	(300)		
WACC(%)	7.9%	6.8%	6.8%	7.2%		
Exp. grow th rate	2.5%	2.5%	2.5%	2.5%		
Terminal Value	229,524	87,311	56,426	(6,652)		

TV (\$'Mn) - Integrated		
ltem	Amount	
FCFF (norm.)	18,113	
WACC(%)	7.2%	
Exp. grow th rate	2.5%	
Terminal Value	401,648	

 $TV_T = \text{Terminal Value} = \frac{FCF_{T+1}}{k_{wacc \infty} - g_{\infty}}$ 

## Appendix 6.8 - Flow-to-Equity model breakdown

Flow-to-Equity Valuation (\$'Mn)					
Forecast Year	Free cash flow to Equity	Cost of Equity	Discount Factor	Present Value of FCFE	
Free Cash Flow to Equi	ty				
2023F	9,916	8.9%	0.918	9,107	
2024F	17,966	8.9%	0.844	15,159	
2025F	19,611	8.9%	0.775	15,199	
Terminal Value	318,450	8.9%	0.775	246,810	
Present Value of FCFE				286,275	
(+) Non Operating Asse	ts				
Investments				37,426	
Tax loss carryforw ards				8,982	
Excess Cash				7,163	
Total Non Operating As	Total Non Operating Assets 53,571				
(-) Non controlling asse	ts				
Noncontrolling interests				6,705	
Equity Value				333,140	
Outstanding Shares (Mn)				4,233	
Price Target (\$/Share)				78.7	

FCFE Determination (\$'Mn)					
Cash-flow	Year				
Cash-now	2022F	2023F	2024F	2025F	Terminal
FCFF		20,326	17,361	18,109	18,113
( - ) Interest Expense (1-T)		880	1,025	968	968
(+) Net borrowing		(9,530)	1,630	2,470	2,470
FCFE		9,916	17,966	19,611	19,615

Terminal Value (\$'Mn)		
ltem	Amount	
FCFE (normalized)	19,615	
Exp. grow th rate	2.5%	
Cost of Equity (%)	8.9%	
Terminal Value	318,450	

# Appendix 6.9 – Capital Cash Flow model breakdown

Price Target Determination - Capital Cash Flow (\$'Mn)						
Forecast Year	Free cash		Discount	PV of FCF		
	flow	Cost of Capital	Factor			
(+) Free Cash Flow						
2023F	20,326		0.942	-, -		
2024F	17,361	6.1%	0.888	- , .		
2025F	18,109	6.1%	0.837	15,154		
Terminal Value	383,396	6.1%	0.837	320,835		
Present Value of FCF				370,560		
(+) Interest Tax Shield						
2023F	234	6.1%	0.942	220		
2024F	272	6.1%	0.888	242		
2025F	257	6.1%	0.837	215		
Terminal Value	4,201	6.1%	0.837	3,515		
Present Value ITS				4,193		
Enterprise value				374,753		
(+) Non Operating Assets						
Investments				37,426		
Tax loss carryforwards				8,982		
Excess Cash				7,163		
Total Non Operating Assets				53,571		
Firm value				428,32		
(-) Debt and Debt equivalents						
Short-term debt				24,160		
Long-Term Debt				55,720		
Postretirement benefits reserves				22,415		
Total Debt and Debt equivaler	nts			102,29		
(-) Non controlling assets						
Noncontrolling interests				6,705		
Equity Value				319,324		
Outstanding Shares (Mn)				4,233		
Odiotariang Orianoo (Will)				-,		

Interest Tax Shield Determination (\$'Mn)										
Description	Fo	recaste	ed							
Description	2018	2019	2020	2021F	2022F	2023F	2024F	2025F		
Interest Expense	766	830	1,158	1,279	1,267	1,114	1,297	1,226		
Marginal Tax Rate (%)	21%	21%	21%	21%	21%	21%	21%	21%		
Interest Tax Shield	161	174	243	269	266	234	272	257		

Terminal Value (\$'Mn)							
Item Amount							
FCFF (norm.)	18,113						
Ru (%)	7.4%						
Exp. grow th rate	2.5%						
Terminal Value 383,							

# Appendix 6.10 - Dividend Discount Model breakdown

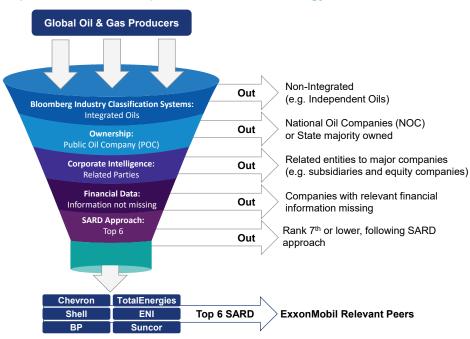
Divident Discour	nt Model (\$'Mn)						
Forecast Year	Shareholders Dividends	Cost of Equity	Dis count Factor	PV of Dividends			
Present Value o	f Dividends						
2023F	23F 14,865 8.9% 0.918						
2024F	15,757	8.9%	0.844	13,295			
2025F	12,896						
Terminal Value	280,238						
Equity Value - P\	320,081						
Terminal Value							
Terminal Period div	ridend			17,654			
Short Period Grow	th (g <sub>s</sub> )			6.1%			
Long Period Grow	th (g <sub>L</sub> )			2.5%			
High grow th period	d (H)			8			
Terminal Period Co		8.9%					
Terminal Value				361,582			
Equity Value				320,081			
Outstanding Share	es (Mn)			4,233			
Price Target (\$/\$	Share)			75.6			

# Appendix 6.11 - Net Asset Value model breakdown

								Ye	ar						
Caption	Unit	2021F	2022F	2023F	2024F	2025F	2026F	2027F	2028F	2029F	2030F	2031F	2032F	2033F	2034F
Operational Data															
Oil															
Proved Reserves, Beginning	MMBbls	8,885	8,054	7,182	6,312	5,360	4,328	3,296	2,264	1,232	222	-	-	-	
Annual Production	MMBbls	831	872	869	953	1,032	1,032	1,032	1,032	1,010	222	-	-	-	
Proved Reserves, Ending	MMBbls	8,054	7,182	6,312	5,360	4,328	3,296	2,264	1,232	222	-	-	-	-	
Avg. Price	\$/Bls	55.2	59.4	54.4	46.0	46.0	46.0	46.0	46.0	46.0	46.0	-	-	-	
Natural Gas															
Proved Reserves, Beginning	MMBoe	6,327	5,817	5,330	4,858	4,395	3,916	3,437	2,959	2,480	2,012	1,561	1,128	713	313
Annual Production	MMBoe	509	487	473	463	479	479	479	479	469	450	433	416	400	313
Proved Reserves, Ending	MMBoe	5,817	5,330	4,858	4,395	3,916	3,437	2,959	2,480	2,012	1,561	1,128	713	313	
Avg. Price	\$/Mcf	3.5	3.8	3.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Cash-Fows	Cash-Fows														
Revenue															
Oil	\$'Mn			47,299	43,855	47,508	47,508	47,508	47,508	46,513	10,222	-	-	-	
Natural Gas	\$'Mn			9,904	8,207	8,486	8,486	8,486	8,486	8,308	7,984	7,673	7,373	7,086	5,548
Total	\$'Mn			57,203	52,061	55,994	55,994	55,994	55,994	54,821	18,206	7,673	7,373	7,086	5,548
Production and Development Expenses															
Exploration & Production Expenses	\$'Mn			1,383	1,580	1,641	1,686	1,686	1,686	1,651	750	483	464	446	349
Other Taxes and duties	\$'Mn			6,889	6,707	6,757	7,087	7,157	7,157	7,007	3,186	2,051	1,971	1,894	1,483
Pre-Tax Cash-Flows, before Dev. Costs	\$'Mn			48,931	43,775	47,597	47,222	47,151	47,151	46,163	14,270	5,139	4,939	4,746	3,716
Income Taxes	\$'Mn			10,117	8,934	9,714	9,637	9,623	9,623	9,421	2,912	1,049	1,008	969	758
Development Costs	\$'Mn			12,024	13,737	14,269	14,269	14,269	14,269	6,601	-	-	-	-	
After-Tax Cash Flows from Proved Reserves	\$'Mn			26,790	21,104	23,613	23,315	23,259	23,259	30,141	11,358	4,090	3,931	3,778	2,958
Discount Rate - Cost of Equity	%			9.8%	9.8%	9.8%	9.8%	9.8%	9.8%	9.8%	9.8%	9.8%	9.8%	9.8%	9.8%
PV Cash Flows from Proved Reserves	\$'Mn			24,403	17,507	17,841	16,044	14,577	13,277	15,670	5,378	1,764	1,544	1,351	96
Total Present Value of Cash Flows	\$'Mn	200,079													
Value of properties - Undeveloped acres	\$'Mn	13,929													
Enterprise Value - Upstream	\$'Mn	214.008													

SoP (NAV & FCFF SoP M	SoP (NAV & FCFF SoP Model) (\$'Mn)											
Caption	Upstream	Downstream	Chemicals	Corp.&Fin.	Synergies	Total	\$/ Sh.	% FV	% Eq. V			
Enterprise Value	214,008	81,739	52,559	(6,428)	31,187	373,065	88.1	87%	117%			
Non Operating Assets						53,571	12.7	13%	17%			
Firm Value						426,636	100.8	100%	134%			
Debt and Debt equivalents						(102,295)	(24.2)	-24%	-32%			
Non controlling assets						(6,705)	(1.6)	-2%	-2%			
Equity Value						317,636	75.0	74%	100%			
Out. Shares (Mn)						4,233						
Price Target (\$/Share)						\$ 75.0						

Appendix 6.12 - Multiple Based Valuation peer selection Methodology



Appendix 6.13 – Top 6 Peers - SARD Approach

	Entity Details		SA	RD Variables	•		Rankings					SARD
#	Name	ROE	Debt / EBIT	Market Cap. (\$'Bn)	EPS Growth	EBIT Margin	ROE	De bt / EBIT	Market Cap.	EPS Growth	EBIT Margin	Result
Po	tencial Peers											
1	CVX	(4.0%)	(108.4) x	196,426	15.2%	12.9%	47	53	2	10	15	18
2	BP	(23.9%)	(7.6) x	85,934	30.0%	9.3%	62	48	7	4	22	22
3	RDSA	(12.7%)	20.7 x	160,154	14.3%	9.6%	55	7	3	11	21	46
4	TTE	(6.9%)	6.6 x	117,967	6.3%	10.6%	49	19	5	19	18	47
5	ENI	(20.3%)	7.7 x	43,485	28.6%	13.2%	61	17	13	6	13	55
6	SUNCOR	(11.1%)	12.4 x	29,766	18.0%	14.6%	53	13	15	9	11	58

Source: Author Analysis

Appendix 6.14 – Multiple Based Valuation (Trailing Twelve Months and 2022F Forecast)

Peer Group Multiples -	ттм мву									
	Pri	ce Multiple	s			Enterpr	ise Value	Multiples	s	
Company Name	PER	P/B	Price / Sales	EV / EBIT	EV / EBITDA	EV / EBITDAX	EV / Sales	EV / DACF	EV / Proved Res.	EV / Daily Prod.
Peer Group Selected										
CVX	(1,437.2) x	1.5 x	1.7 x	(466.2) x	14.7 x	14.2 x	2.1 x	14.1 x	22.2 x	80.2 x
BP	711.2 x	81.6 x	0.4 x	(13.0) x	12.8 x	7.0 x	1.1 x	7.5 x	8.7 x	44.8 x
RDSA	2,086.2 x	68.8 x	0.6 x	40.6 x	6.5 x	6.2 x	1.2 x	6.6 x	26.5 x	71.1 x
TTE	15.5 x	0.9 x	0.7 x	13.4 x	6.2 x	6.0 x	1.2 x	6.6 x	13.2 x	56.6 x
ENI	(212.6) x	0.8 x	0.6 x	12.3 x	4.8 x	4.6 x	1.0 x	7.5 x	9.2 x	36.7 x
SUNCOR	22.9 x	1.3 x	1.5 x	32.7 x	6.7 x	6.6 x	1.9 x	8.0 x	9.7 x	64.5 x
ExxonMobil Multiples										
ExxonMobil	17.8 x	2.2 x	1.1 x	17.8 x	9.7 x	9.4 x	1.5 x	11.5 x	33.9 x	113.9 x
Multiples										
Maximum	2,086.2 x	81.6 x	1.7 x	40.6 x	14.7 x	14.2 x	2.1 x	14.1 x	26.5 x	80.2 x
75th Percentile	539.1 x	52.0 x	1.3 x	27.9 x	11.3 x	6.9 x	1.7 x	7.9 x	19.9 x	69.5 x
Median	19.2 x	1.4 x	0.6 x	12.8 x	6.6 x	6.4 x	1.2 x	7.5 x	11.4 x	60.5 x
25th Percentile	(155.6) x	1.0 x	0.6 x	(6.7) x	6.2 x	6.1 x	1.1 x	6.8 x	9.3 x	47.7 x
Minimum	(1,437.2) x	0.8 x	0.4 x	(466.2) x	4.8 x	4.6 x	1.0 x	6.6 x	8.7 x	36.7 x
Valuation - Price Target	(\$/Share)									
Maximum	8,934	2,882	115	215	139	138	131	110	82	57
75th Percentile	2,309	1,837	91	144	104	60	102	56	59	48
Median	82.2	48.6	43.8	59.2	54.8	55.4	66.3	52.2	27.9	40.2
25th Percentile	(666)	36	39	(51)	51	51	62	46	20	29
Minimum	(6,154)	27	29	(2,640)	37	36	56	44	18	19

Peer Group Multiples -	Forecast 202	2F MBV										
	Price Mu	ltiples	Enterpri	se Value Mul	tiples							
Company Name	PER	Price / Sales	EV / EBIT	EV / EBITDA	EV / Sales							
Peer Group Selected												
CVX	13.5 x	1.3 x	12.5 x	6.2 x	1.6 x							
BP	350.5 x	0.2 x	5.7 x	3.3 x	0.5 x							
RDSA	389.6 x	0.3 x	5.8 x	3.1 x	0.6 x							
TTE	7.1 x	0.5 x	7.8 x	4.7 x	0.8 x							
ENI	8.3 x	0.5 x	6.2 x	3.4 x	0.8 x							
SUNCOR	9.1 x	1.1 x	9.3 x	4.0 x	1.4 x							
ExxonMobil												
ExxonMobil	17.8 x	1.1 x	17.8 x	9.7 x	1.5 x							
Multiples												
Median	11.3 x	0.5 x	7.0 x	3.7 x	0.8 x							
Valuation - Price Target	(\$/Share)											
Median	48.4	33.1	26.4	25.4	42.7							

Source: Author's analysis, Bloomberg

**Note:** Althought it is not visible, EV Multiples have been adjusted with the Non-Operating Assets, Debt and debt equivalents and Non-Controling Interests, i.e., It was determined the Enterprise Value and performed adjustments to reach Equity Value.

# Appendix 7 - Financial analysis

Projected Financial Ratios - ExxonMobil													
Key Financial Ratios				Histo							orecaste		
·	2013	2014	2015	2016	2017	2018	2019	2020	2021F	2022F	2023F	2024F	2025F
Industry Specific Ratios Mix oil % - Production	53%	53%	57%	58%	57%	59%	60%	62%	62%	64%	65%	67%	68%
Mix oil % - Reserves	53%	54%	59%	53%	57%	64%	65%	58%	58%	57%	57%	55%	52%
Reserves life ratio (x)	16.5 x	17.4 x	16.6 x	13.5 x	14.6 x	17.4 x	15.6 x	11.1 x	10.3 x	9.2 x	8.3 x	6.9 x	5.5 x
PD / PR (%)	66%	65%	73%	69%	66%	68%	66%	67%	64%	60%	56%	49%	40%
Liquidity Ratios													
Current Ratio (%)	82.7%	81.9%	79.0%	86.9%	81.6%	84.0%	78.2%	79.6%	82.5%	84.1%	82.0%	82.9%	81.3%
Quick Ratio (%) Cash Ratio (%)	14.0% 6.5%	12.7% 7.1%	12.0% 6.9%	10.4% 7.7%	7.9% 5.5%	7.6% 5.3%	7.1% 4.8%	9.7% 7.7%	13.9% 12.3%	11.6% 10.1%	7.7% 6.0%	7.0% 5.1%	6.9% 5.0%
Efficiency Ratios	0.576	7.170	0.970	1.1 70	3.376	J.J /6	4.070	1.1 70	12.570	10.170	0.078	J. 1 /0	3.076
Total Assets Turnover (x)	1.24 x	1.13 x	0.70 x	0.60 x	0.70 x	0.80 x	0.72 x	0.51 x	0.75 x	0.83 x	0.80 x	0.74 x	0.73 x
Trades Receivables Turnover (x)	15.4 x	17.6 x	15.0 x	13.6 x	12.7 x	13.6 x	12.5 x	9.5 x	13.7 x	12.9 x	12.1 x	11.3 x	11.3 x
DSO (days)	24	20.7	24.4	26.8	28.8	26.8	29.2	38.4	26.6	28.2	30.1	32.2	32.2
Other Receivables Turnover (x)	60.8 x	47.2 x	29.7 x	31.8 x	43.7 x	54.4 x	43.9 x	32.9 x	36.6 x	40.3 x	44.0 x	44.0 x	44.0 x
DSO - Other (days)	6	7.7	12.3	11.5	8.3	6.7	8.3	11.1	10.0	9.1	8.3	8.3	8.3
Inventory Turnover (x)	27.4 x	24.0 x	14.6 x	12.8 x	14.8 x	15.5 x	13.6 x	9.6 x	10.9 x	12.6 x	15.0 x	15.0 x	15.0 x
DIO (days) Payables Turnover (x)	13 8.8 x	15.2 9.5 x	25.1 7.6 x	28.5 7.5 x	24.7 8.1 x	23.5 9.0 x	26.8 7.9 x	38.2 5.9 x	33.6 6.4 x	29.0 6.9 x	24.3 7.4 x	24.3 7.9 x	24.3 7.9 x
DPO (days)	41	38.4	47.8	48.6	44.8	40.5	46.2	61.9	56.9	52.7	49.1	46.0	46.0
Operating Cash Cycle (days)	(5)	(2.5)	1.6	6.7	8.7	9.8	9.7	14.7	3.2	4.4	5.3	10.6	10.6
Profitability Ratios	(-/	(=:=)											
Gross Profit Margin (%)	25.1%	24.8%	31.0%	32.9%	32.2%	31.0%	29.3%	30.3%	24.1%	25.7%	29.5%	33.8%	33.6%
EBITDA Margin (%)	17.8%	17.6%	16.8%	15.3%	16.5%	18.1%	15.6%	10.2%	10.0%	15.2%	18.4%	20.6%	19.6%
EBITDAX Margin (%)	18.4%	18.1%	17.5%	16.1%	17.6%	18.6%	16.1%	11.0%	10.5%	15.7%	18.9%	21.2%	20.2%
EBIT Margin (%)	13.7%	13.2%	9.3%	4.2%	8.1%	11.4%	8.2%	-15.5%	2.5%	8.3%	11.0%	12.2%	10.9%
Net Profit Margin (%)	7.7% 9.4%	8.3% 9.3%	6.7%	3.9%	8.3%	7.5%	5.6% 4.0%	-12.6%	1.6%	6.3%	8.3% 6.6%	9.0% 6.6%	8.1%
ROA (%) ROIC (%)	9.4%	9.3%	4.7% 3.5%	2.4% 0.9%	5.8% 0.9%	6.0% 6.3%	4.0%	-6.5% -1.5%	1.2% 1.6%	5.2% 5.8%	8.2%	8.8%	5.9% 7.7%
ROCE(%)	19.4%	16.1%	6.0%	1.5%	5.6%	9.7%	6.1%	-1.4%	2.0%	6.8%	10.2%	11.0%	9.6%
Operating Margin	10.4%	9.8%	6.1%	1.8%	5.9%	8.7%	6.0%	-2.0%	1.8%	5.4%	8.3%	9.9%	8.6%
Capital Turnover	186.3%	164.3%	97.7%	82.1%	95.6%	110.7%	100.4%	72.6%	110.6%	125.8%	122.1%	111.4%	111.4%
ROE (%)	19.2%	18.7%	9.4%	4.6%	11.1%	11.0%	7.5%	-12.9%	2.6%	12.3%	14.9%	14.1%	12.3%
DuPont Analysis													
Net Profit Margin (%)	7.7%	8.3%	6.7%	3.9%	8.3%	7.5%	5.6%	-12.6%	1.6%	6.3%	8.3%	9.0%	8.1%
Asset Turnover (%) Equity Multiplier (X)	186.3% 133.0%	164.3% 137.7%	97.7% 142.2%	82.1% 144.6%	95.6% 139.8%	110.7% 133.0%	100.4% 132.7%	72.6% 141.0%	110.6% 152.5%	125.8% 154.4%	122.1% 147.9%	111.4% 141.3%	111.4% 137.4%
Equity Multiplier (X)	7.37	7.59	3.85	1.88	4.63	4.88	3.36	(5.25)	0.94	4.24	5.36	5.33	4.82
DPS	2.46	2.70	2.88	2.98	3.05	3.23	3.43	3.48	3.48	3.48	3.48	3.69	3.90
Payout Ratio (%)	33.4%	35.6%	74.9%	158.8%	66.0%	66.2%	102.2%	-66.2%	371.0%	82.0%	64.9%	69.2%	80.9%
Dividend Coverage Ratio (Organic FCF)	0.73 x	1.20 x	0.34 x	0.43 x	0.86 x	1.12 x	0.20 x	(0.32) x	0.44 x	1.08 x	1.45 x	1.07 x	1.06 x
SG&A/Sale (%)	3.1%	3.2%	4.8%	5.2%	4.5%	4.1%	4.5%	5.7%	4.3%	4.0%	4.0%	4.3%	4.5%
Solvency Ratios													
Total interest bearing Debt Ratio (%)	6.55%	8.33%	11.49%	12.95%	12.14%	10.92%	12.94%	20.33%	42.47%	41.62%	39.57%	39.62%	39.51%
Long-term interest bearing Debt Ratio (%)	12.50%	15.72%	18.21%	19.21%			19.09%		35.31%		33.35%	33.33%	33.13%
Total Debt and debt equivalents Ratio (%) Long-term Debt and debt equivalents Ratio (%)	1.99% 7.94%	3.33% 10.72%	5.92% 12.64%	8.76% 15.02%	7.00% 13.06%	5.93% 11.79%	7.26% 13.42%	14.18% 20.92%	16.51% 22.98%	16.00% 22.43%	14.34% 20.89%	14.51% 20.99%	14.71% 21.05%
Short-term Debt Ratio (%)	4.56%	5.00%	5.57%	4.19%	5.14%	4.99%	5.68%	6.15%	7.16%	6.94%	6.22%	6.29%	6.38%
Interest bearing Debt to Shareholder's Equity Ratio (%)	13.0%	16.7%	22.6%	25.6%	22.6%	19.7%	24.5%	43.0%	56.0%	53.4%	44.6%	43.7%	44.2%
Total Debt to Shareholder's Equity Ratio (%)	24.9%	31.5%	35.9%	37.9%	33.8%	30.3%	36.1%	57.3%	71.3%	68.4%	58.9%	57.3%	57.5%
Equity Multiplier (x)	1.33 x	1.38 x	1.42 x	1.45 x	1.40 x	1.33 x	1.33 x	1.41 x	1.53 x	1.54 x	1.48 x	1.41 x	1.37 x
Interest bearing Debt to EBITDA (x)	1.47 x	1.75 x	3.09 x	3.99 x	2.92 x	2.14 x	3.01 x	0.20 x	5.72 x	3.31 x	2.65 x	2.62 x	2.79 x
Total Debt and debt equivalents to EBITDA (x)	0.12 x	0.16 x	0.18 x	0.19 x	0.18 x	0.17 x	0.19 x	0.27 x	0.30 x	0.29 x	0.27 x	0.27 x	0.27 x
Interest Coverage Ratio (x)  Cash Flow Ratios	6,413	181.52	71.63	18.59	32.07	41.41	25.16	(23.94)	4.93	18.83	27.39	23.89	22.74
Interest bearing Debt Coverage (%)	147.4%	115.4%	42.8%	19.6%	46.9%	56.7%	31.5%	-34.4%	5.1%	23.5%	33.7%	32.8%	28.6%
Debt and debt equivalent Coverage (%)	77.2%	61.2%	27.0%	13.2%	31.3%	36.9%	21.3%	-25.8%	4.0%	18.4%	25.6%	25.0%	22.0%
Dividend Coverage Ratio (x)	0.73 x	1.20 x	0.34 x	0.43 x	0.86 x	1.12 x		(0.32) x	0.44 x	1.08 x	1.45 x	1.07 x	1.06 x
Operational Cash to Operating Income (x)	0.78 x	0.87 x	1.36 x	2.62 x	1.56 x	1.14 x		(0.53) x	3.87 x	1.50 x	1.41 x	1.34 x	1.55 x
DACF to NOPAT (x)	1.78 x	1.76 x	3.51 x	10.27 x	13.11 x	2.29 x	2.81 x	(4.22) x	6.71 x	2.80 x	2.35 x	2.13 x	2.51 x
Segment Information													
EBITDA Margin (%)	17.8%	17.6%	16.8%	15.3%	16.5%	18.1%	15.6%	10.2%	10.0%	15.2%	18.4%	20.6%	19.6%
Upstream	69.6%	70.1%	52.6%	44.7%	51.7%	59.7%	55.1%	36.4%	63.5%	71.7%	68.2%	63.3%	65.1%
Downstream	1.6%	1.7%	4.7%	4.0%	3.6%	3.6%	1.9%	0.8%	-3.3%	-1.1%	2.4%	5.4%	3.8%
	10.6%	12.2%	17.1%	19.4%	15.4%	10.8%	5.2%	12.5%	-6.0%	3.4%	11.8%	12.4%	8.4%
Chemicals	10.078												40.00/
	13.7%	13.2%	9.3%	4.2%	8.1%	11.4%	8.2%	-15.5%	2.5%	8.3%	11.0%	12.2%	10.9%
Chemicals  EBIT Margin (%)  Upstream	<b>13.7%</b> 55.1%	53.7%	22.8%	-1.3%	19.9%	35.8%	31.3%	-60.5%	36.2%	46.5%	39.7%	31.0%	33.9%
Chemicals EBIT Margin (%)	13.7%												

# Appendix 8 - Investment Risks

## Appendix 8.1 – Minor risks description and characterization

#### Other Market Risks (M4)

ExxonMobil's business is also exposed to changes in interest rates, inflation, currency exchange rates, and other local or regional market conditions, although with potential lower financial impacts.

#### Regulatory and Litigation Risks (P3)

ExxonMobil is exposed to changes in laws or interpretation of settled laws, even in well-developed legal systems, that might affect adversely the Company operations. These changes might include: i) increases in taxes, duties, or government royalty rates; ii) price controls; iii) actions by political actors or regulators to delay/deny necessary licenses and permits; iv) adoption of regulations mandating efficiency standards, v) adoption of government payment transparency regulations that can require disclose of competitive and sensitive commercial information; and, vi) government actions to cancel contracts, re-denominate the official currency, renounce or default on obligations, renegotiate terms unilaterally, or expropriate assets.

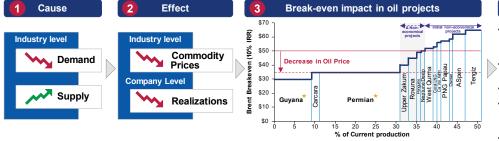
#### **International Sanctions Compliance (P4)**

ExxonMobil is required to comply with U.S. sanctions or other laws imposed by local jurisdictions, which can impact adversely the Company's operations in certain regions.

## Cybersecurity (O2)

ExxonMobil has been regularly been subject to attempted cybersecurity disruptions, which might lead to industrial hazards or productions disruptions, damage or destruction of assets; or, compromise business systems; or, sensitive data disclosure. Significant costs might be incurred in the remediation of a major cybersecurity disruption, in addition to regulatory, litigation or reputational costs.

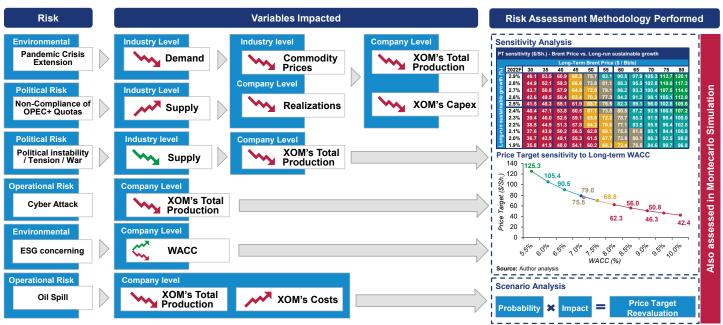
Appendix 8.2 - High level representation of the changes in commodities demand and supply



#### Possible tactical / remediation measures

- Disciplined investment and execution of a dynamic capital reallocation from lower-return businesses to the highest return opportunities;
- **Decrease in Capex**, mainly related to non-economical projects, considering the oil prices are below breakeven;
- Decrease in oil production, to minimize losses;
- Leverage value chain integration and maximize opportunities in Downstream and Chemicals segments;
- · Preserve organizational capacity to capture upswing.

Appendix 8.3 – High level risks impacts on ExxonMobil's key value drivers



Source: Author analysis

#### Appendix 8.4 - Sensitivity Analysis



CC	CCF Sensitivity Analysis - Brent Price vs. Terminal Period Growth											
	Long-Term Brent Price											
	2021F	30	35	40	45	50	55	60	65	70	75	80
	2.9%	45.8	53.1	60.4	67.8	75.1	82.5	89.8	97.2	104.5	111.9	119.2
ے ا	2.8%	44.6	51.8	59.0	66.2	73.4	80.6	87.8	95.0	102.2	109.4	116.6
×	2.7%	43.5	50.6	57.6	64.7	71.8	78.8	85.9	92.9	100.0	107.0	114.1
Growth	2.6%	42.5	49.4	56.3	63.3	70.2	77.1	84.0	90.9	97.8	104.8	111.7
70	2.55%	41.5	48.3	55.1	61.9	68.6	75.4	82.2	89.0	95.8	102.6	109.4
Perio	2.4%	40.6	47.2	53.9	60.5	67.2	73.9	80.5	87.2	93.8	100.5	107.2
Ē	2.3%	39.6	46.2	52.7	59.2	65.8	72.3	78.9	85.4	92.0	98.5	105.0
ina	2.2%	38.8	45.2	51.6	58.0	64.4	70.9	77.3	83.7	90.1	96.6	103.0
Terminal	2.1%	37.9	44.2	50.5	56.8	63.1	69.5	75.8	82.1	88.4	94.7	101.0
ı	2.0%	37.1	43.3	49.5	55.7	61.9	68.1	74.3	80.5	86.7	92.9	99.1
	1.9%	36.3	42.4	48.5	54.6	60.7	66.8	72.9	79.0	85.1	91.2	97.3

#### Appendix 8.5 - Oil Spill scenario breakdown

Annual Prol	Annual Probability of at least 1 Blowout for offshore Operations in Europe								
	Operation	Blow out Probability / Unit	Unit						
	Exploration Drilling, deep (normal w ells)	3.1×10 <sup>-4</sup>	Per drilled w ell						
Drilling	Exploration Drilling, deep (HPHT w ells)	1.9×10 <sup>-3</sup>	Per drilled w ell						
Drilling	Development Drilling, deep (normal w ells)	6.0×10 <sup>-5</sup>	Per drilled w ell						
	Development Drilling, deep (HPHT w ells)	3.7×10⁴	Per drilled w ell						
	Completion	9.7×10 <sup>-5</sup>	Per operation						
Well	Wirelining	6.5×10 <sup>-6</sup>	Per operation						
Intervention	Coiled Tubing	1.4×10 <sup>-4</sup>	Per operation						
litter verition	Snubbing	3.4×10 <sup>-4</sup>	Per operation						
	Workover	1.8×10 <sup>-4</sup>	Per operation						
Producing W	ells (excluding external causes)	9.7×10 <sup>-6</sup>	Per w ell year						
Producing W	ells (external causes)	3.9×10 <sup>-5</sup>	Per w ell year						

XOM's probability of Blowout									
Type of well	Volume	Blowout	XOM's						
Type of well	Volume	Probabilit	probability						
Drilling wells	1,285		0.77%						
Producing Wells	471	3.9×10 <sup>-5</sup>	0.18%						
Total			0.95%						

Oil spill estimated Impact (\$'Mn)				
Historical event	Payment period (years)		Discount Rate	PV Costs
BP horizon Impact	8	65,000	7.2%	37,347
Exxon Valdez Impact	15	5,000	7.2%	1,769

Source: Author analysis based on European Commission (2011), Table 6

## Appendix 8.6 - Damodaran and Cornell's ESG Punitive Vision

Operating expenses lower in short term, Customers will buy less from bad Capital invested in good business will but higher in long term: Unchanged companies: Lower or negative deliver lower returns: Lower initially, but lower margins in long revenue growth sales/capital and returns on capital term **Revenue Growth Operating Margins Growth/Investment efficiency** Function of the size of the total Determined by pricing power and cost Measure of how much investment is accessible market & market share efficiencies needed to deliver growth Expected FCFF = Revenues \* Operating Margin - Taxes - Reinvestment Failure Risk Bad companies are more Value of Lower Change of grievous or exposed to big, negative event **Business Value** catastrophic event putting (crisis): Higher failure risk Risk-adjusted Discount Rate Cost of Debt **Cost of Equity** Rate of Return that equity investors demand Cost of borrowing money, net of tax advantages Investors will put money out of "bad" companies, Lenders will balk at lending to "bad" companies, demanding higher interest rates: Higher cost of debt pushing down their stock prices: Higher cost of equity Source: Damodaran & Cornell (2020), adapted by Author.

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