

CRM

Customer Relationship Management

Mestrado em Marketing

Aula 8

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LISBON
SCHOOL OF
ECONOMICS &
MANAGEMENT
UNIVERSIDADE DE LISBOA



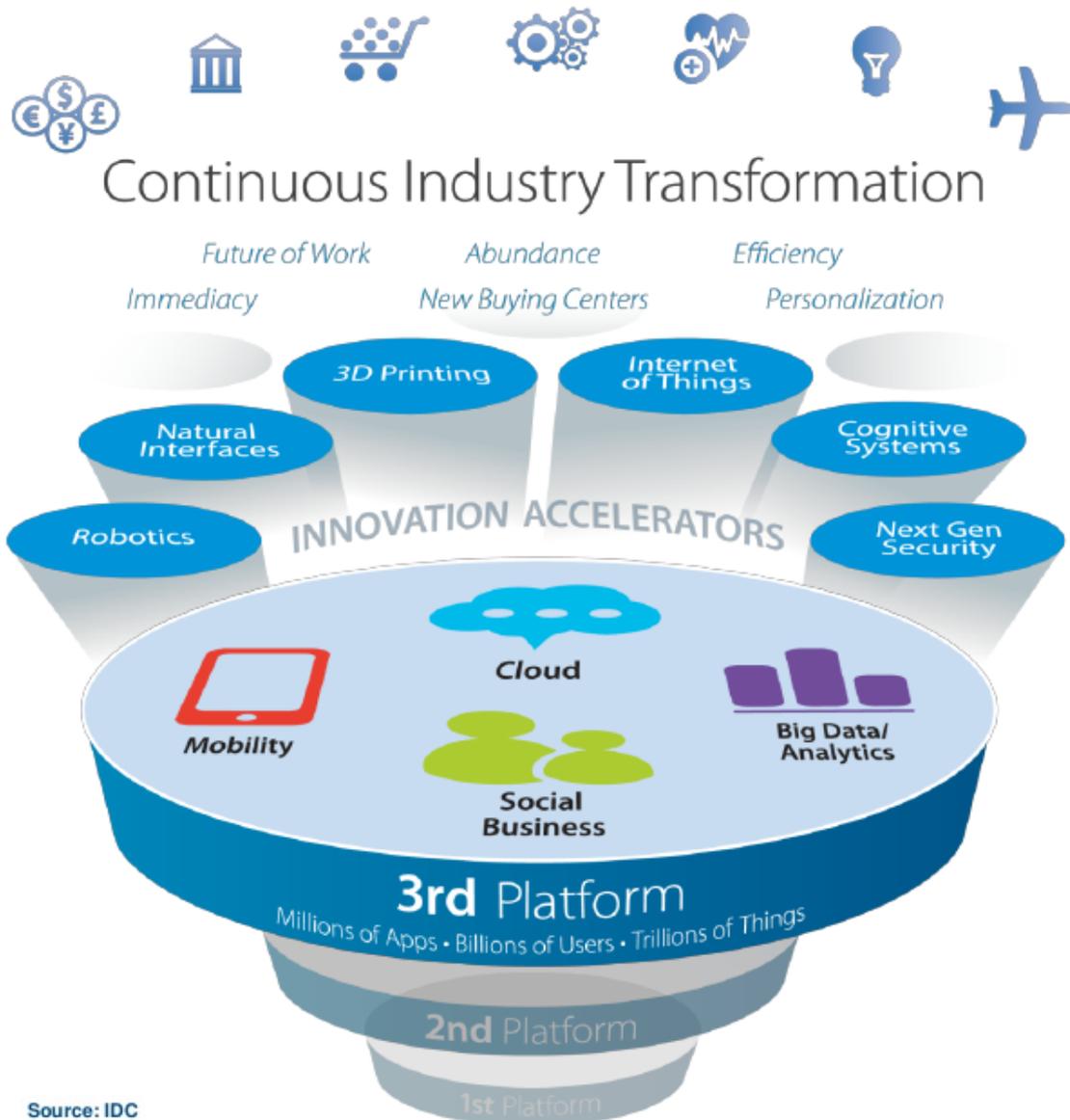
Cronograma

Aula	Dia	Agenda	Artigo	Caso
1	19 Fev	Conceitos introdutórios.		1
2	26 Fev	Estratégia. Valor. Integração multicanal. Fidelização.	1	2
3	5 Mar	Gestão de informação. Tecnologias.	2	3
4	12 Mar	Tecnologias. Implementação. ERP.	3	4
5	19 Mar	Web 2.0. CRM Social.	4	5
6	9 Abr	Apresentação de soluções de software de CRM da Oracle [Aula às 13h00]		
7	16 Abr	Apresentação de soluções de software de CRM da Zoho e da Vtiger		6
8	23 Abr	Customer Experience. Cloud. Social Media. Mobile. Analytics. Big Data.	5	7
9	30 Abr	CRM para PMEs.	6	
10	7 Mai	Apresentação de soluções de software de CRM da Salesforce [Aula às 13h00]		
11	14 Mai	Apresentação de trabalhos.	7	
12	21 Mai	Apresentação de trabalhos.	8	

Artigos acadêmicos

#	Artigo
1	Chen, I. J., & Popovich, K. (2003). Understanding customer relationship management (CRM) People, process and technology. <i>Business Process Management Journal</i> , 9(5), 672-688.
2	Frow, P., Payne, A., Wilkinson, I. F., & Young, L. (2011). Customer management and CRM: Addressing the dark side. <i>Journal of Services Marketing</i> , 25(2), 79-89.
3	Nguyen, B., & Mutum, D. S. (2012). A review of customer relationship management: successes, advances, pitfalls and futures. <i>Business Process Management Journal</i> , 18(3), 400-419.
4	Shokohyar, S., Tavallaee, R., & Karamatnia, K. (2016). Identifying Effective Indicators in the Assessment of Organizational Readiness for Accepting Social CRM. <i>International Journal of Management, Accounting and Economics</i> , 3(2), 85 -104.
5	Orenga-Roglá, S., & Chalmeta, R. (2016). Social customer relationship management: Taking advantage of Web 2.0 and Big Data technologies. <i>SpringerPlus</i> , 5(1), 1462.
6	Paliouras, K., & Siakas, K. V. (2017). Social Customer Relationship Management: A Case Study. <i>International Journal of Entrepreneurial Knowledge</i> , 5(1), 20-34.
7	Valacherry, A. K., & Pakkeerappa, P. (2018). Customer Knowledge Management via Social Media: A Case Study of an Indian Retailer. <i>Journal of Human Values</i> , 24(1), 39-55.
8	Clark, M., & Melancon, J. (2013). The influence of social media investment on relational outcomes: A relationship marketing perspective. <i>International Journal of Marketing Studies</i> , 5(4), 132.

3ª Plataforma



Source: IDC

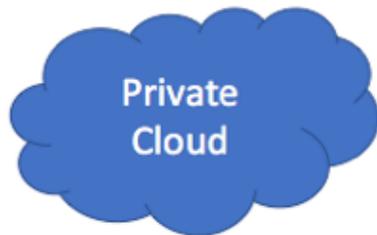
Agenda

- **Cloud**
- Social media
- Mobile
- Analytics
- Big Data
- IoT

O que define a *Cloud*

- Disponibilização de recursos de computação – desde aplicações a *data centers*, numa base de *pay-per-use*
 - On-demand self-service
 - Broad network access
 - Resource pooling
 - Rapid elasticity
 - Measured service
- Sem necessidade de investimentos iniciais, implementação, nem provisionamento de capacidades

Cloud Computing Deployment Models



Operated solely
for a single
organization

Maybe on
premise or off
premise



Shared by several
entities that have
a common
purpose.

Maybe on
premise or off
premise



Available to the
general public
and owned by a
single
organization
selling cloud
services.



Any combination
of two or more
private /
community or
public clouds.

Drivers de Adoção da *Cloud*



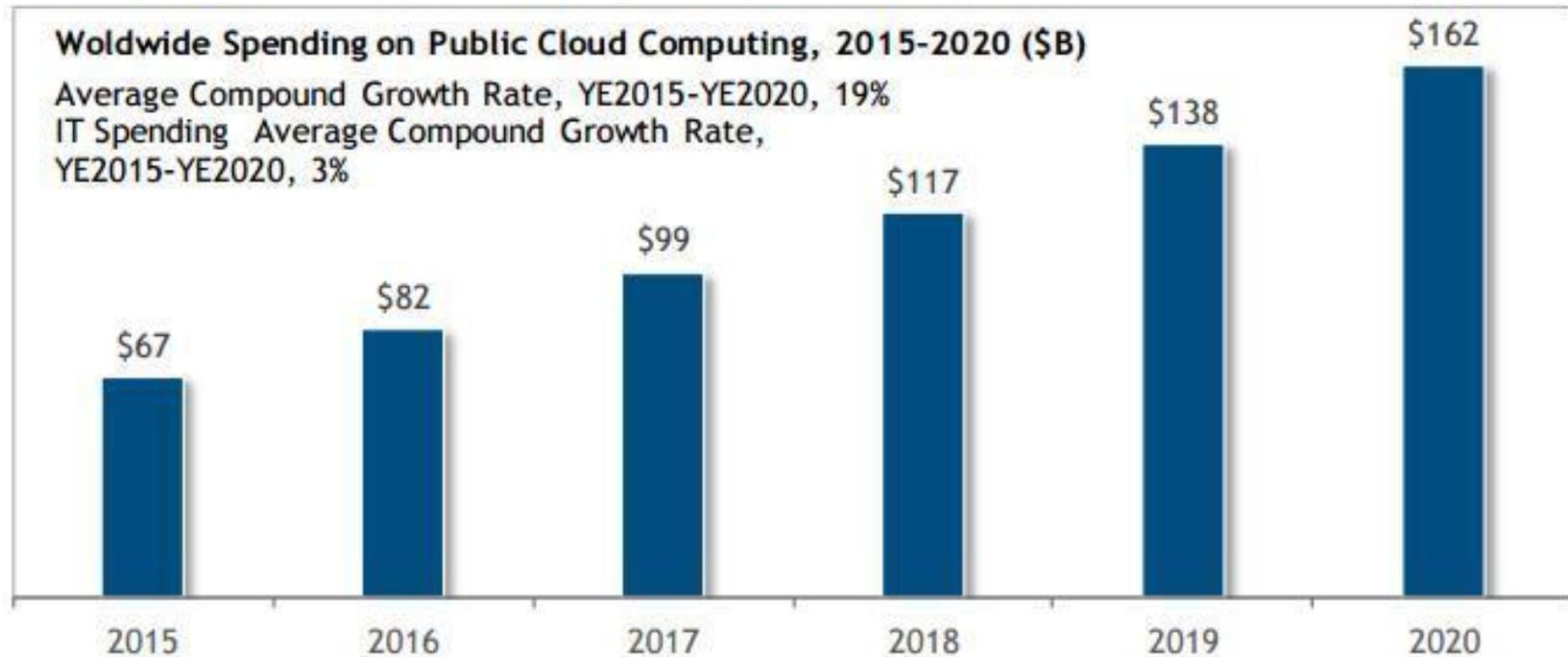
The top ways businesses are using cloud to drive business transformation in 2014

- Drive cost efficiencies
- Better enable mobile workforce
- Improve alignment with customers/partners
- Better leverage data to provide insight
- New product development/innovation
- Develop new business models
- Shift to a global shared services model
- Faster time to market

Source: 2014 KPMG Cloud Survey Report

Indicadores de Adoção da *Cloud*

The Rapid Growth of Cloud Computing, 2015-2020



Source: IDC, 2016

- Legislação
 - Localização geográfica dos dados
- Dependência do fornecedor
 - SLA, backup/ recovery
- Fornecedor lock in
 - Como mudar de fornecedor
 - Capacidade de importar/ exportar dados
- Gestão
 - Shadow IT: Compra de serviços cloud pelo negócio sem o conhecimento do IT
- GDPR (25 Maio 2018)

- Diminui as barreiras para a rápida utilização de software
- Foco essencial nas necessidades do negócio e não no IT
- Redução de custo de infraestruturas
- Recursos escaláveis em função das necessidades
- Driver de negócio

- Continuação da **migração das companhias para a *Cloud***, pequenas e grandes (parcialmente, originando o aumento das *Clouds* híbridas, por já terem *Clouds* privadas e não expondo assim dados críticos)
- Continuação das iniciativas visando o reforço da **segurança** (Security Information and Event Management (SIEM) e sistemas de malware detection) como mecanismos fundamentais de defesa na cyber segurança
- **Aumento da utilização de *containers***, como garantia da portabilidade entre serviços cloud e flexibilidade, associadas a baixos custos

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- Cloud
- **Social media**
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“You can use social media to turn strangers into friends, friends into customers and customers into salespeople”.

(Seth Godin)



Participação das empresas em iniciativas de social media

- Existe uma **falta de compreensão** sobre o que é social media e as diversas formas que pode tomar (Kaplan & Haenlein, 2010)
- Muitas **empresas ignoram, ou gerem mal**, as oportunidades e ameaças apresentadas pelos seus consumidores mais criativos (Berthon et al., 2007)
- Embora seja claro que - para melhor ou para pior - social media é um meio muito poderoso, **muitos executivos são relutantes ou incapazes de desenvolver estratégias** e de alocar recursos para envolver efetivamente as suas empresas (Kietzmann et al., 2011)

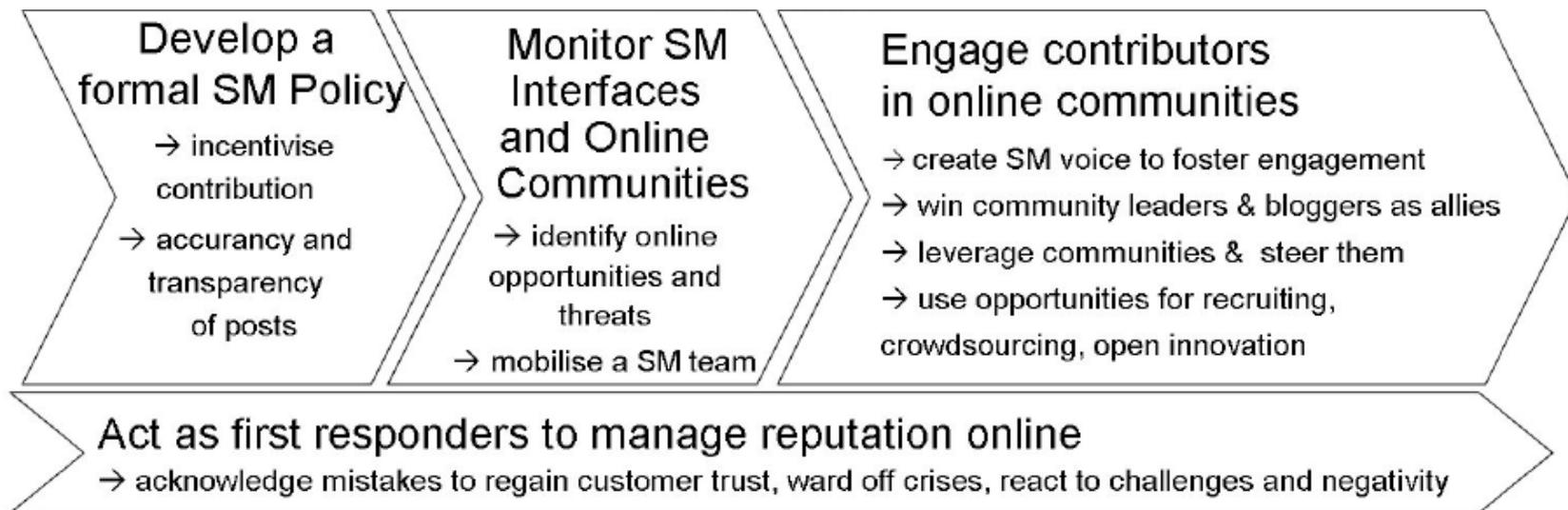
Customer engagement em social media

- **Engagement** é uma qualidade da experiência do utilizador com a tecnologia que se caracteriza por desafio, estética e apelo sensorial, feedback, novidade, interactividade, percepção e controle de tempo, consciência, motivação, interesse e afecto. (O'Brien and Toms, 2008)
- **Engaging em social media** ajuda a fortalecer a experiência de marca que irá apoiar a construção da marca;
- Social media ajuda a **construir uma boa reputação** para uma organização;
- Através de social media, a empresa pode **reforçar a marca duma forma continuada**;
- O social media funciona como uma **poderosa forma de comunicar o valor e os atributos da marca**, pois facilita formas de comunicação abertas.

Estratégia de implementação de social media

Equipa dedicada de Social Media

As empresas precisam de uma **equipa dedicada** de social media, que deve desenvolver **políticas e estratégias** para a gestão das comunidades online, tanto na defesa contra ameaças, como para encontrar formas construtivas para fomentar o engagement.



(Kane et al., 2009)

Social Media Policies and Guidelines

<http://socialmediagovernance.com/policies.php>

Social media

- “Today’s digital landscape - saturated, splintered, algorithmic - is not kind to anything other than brilliantly executed marketing.”

Will Francis, Founder & Creative Director, VANDAL

- "The power of social media continues to **drive value** for a majority of brands [...].

At best, social media, in particular Facebook, can **target audiences at scale and reach them with content that resonates**, whilst allowing us to **measure the impact** of this effectively.

At worst, brands can target audiences at scale with poorly crafted content that **interrupts and weakens a user's experience**, whilst **potentially damaging their reputation.**"

Greg Allum, Head of Social, Jellyfish

Social commerce

- Social commerce can be defined as the ability to make a product purchase from a third-party company within the native social media experience.
 - You can browse and compare products on Facebook and then make the purchase on Facebook itself.
- There are three social media sites that are owning the social commerce space: Facebook, Twitter and Pinterest.

Agenda

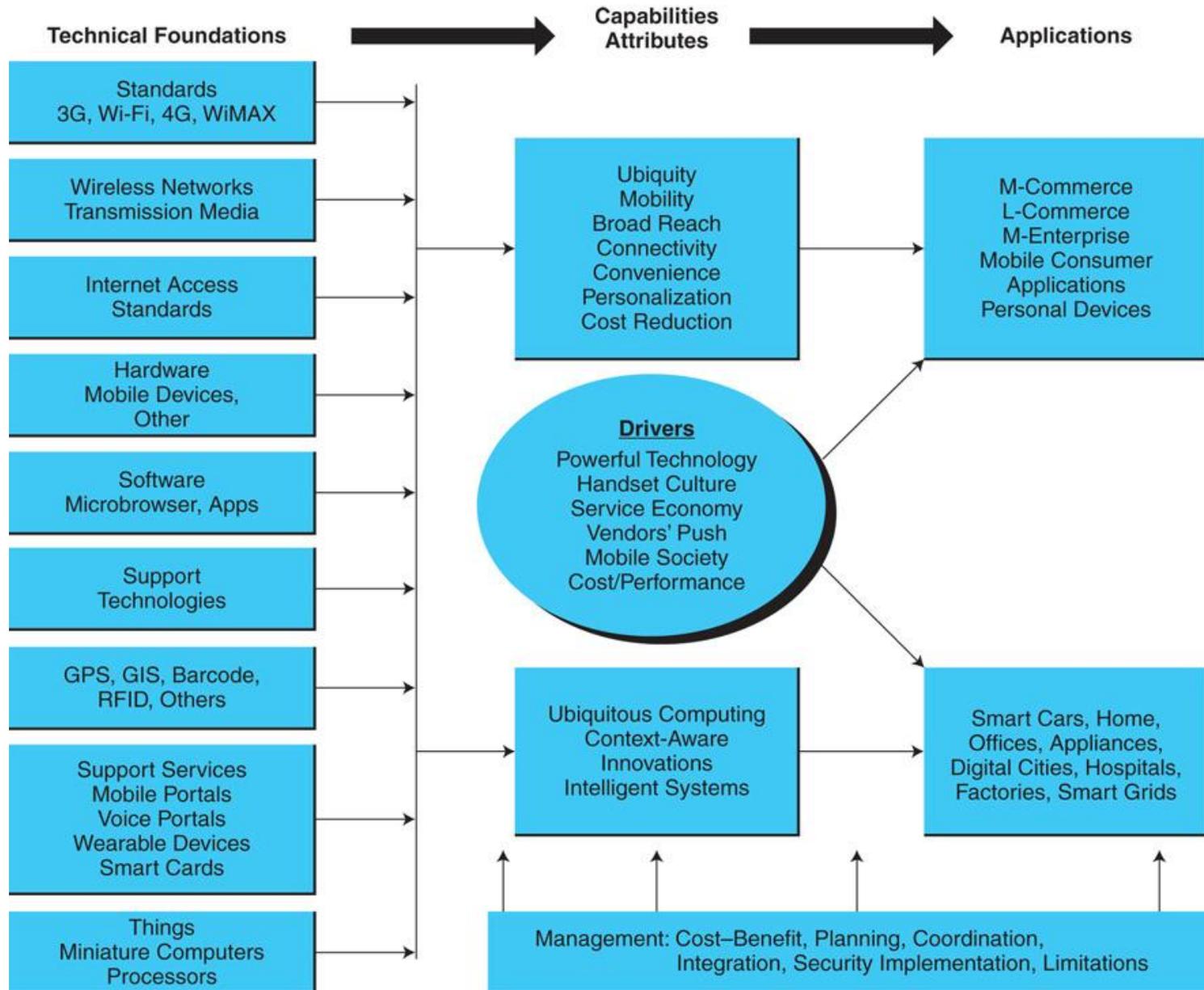
- Cloud
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- **Mobile**
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- IoT

Mobile market key drivers

- Ubiquity
- Reachability
- Security
- Convenience
- Localization of service and applications
- Instant Internet connectivity from a mobile phone
- Personalization

(Ranjan and Bhatnagar, 2009)

The Landscape of Mobile Computing and M-Commerce



Location-Based Mobile Commerce and Mobile Social Networks

- ***Location-based m-commerce (l-commerce)**
- **Basic Concepts in L-Commerce**
 - **Location**
 - **Navigation**
 - **Tracking**
 - **Mapping**
 - **Timing**
 - ***Real-time location systems (RTLs)**



Mobile is changing our lives



Mobile phone lane for pedestrians in Chongqing, China



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“If you can’t measure it, you can’t manage it”

Peter Drucker

Métricas de CRM

Marketing metrics

- Number of campaigns
- New customer retention rates
- Number of responses by campaign
- Number of purchases by campaign
- Revenue generated by campaign
- Cost per interaction by campaign
- Number of new customers acquired by campaign
- Customer retention rate
- Number of new leads by product
- Number of customer referrals

Sales metrics

- Number of prospects
- Number of new customers
- Number of retained customers
- Number of open opportunities
- Close rate
- Renewal rate
- Number of sales calls
- Number of sales call per opportunity
- Amount of new revenue
- Amount of recurring revenue
- Time-to-close by channel
- Margin
- Sales stage duration
- Sales cycle duration
- Number of sales calls made
- Number of proposals given
- Competitive knockouts

Service metrics

- Cases closed same day
- Number of cases handled by agent
- Number of service calls
- Average number of service requests by type
- Average time-to-resolution
- Average number of service calls per day
- Percentage compliance with service-level agreement (SLA)
- Percentage of service renewals
- Customer satisfaction level
- Complaint time-to-resolution
- Propensity for customer defection

Source: October 1, 2007, "The Right CRM Metrics For Your Organization" report

Source: Forrester Research, Inc.

Social media analytics

- Social media analytics refere-se ao **desenvolvimento e avaliação de ferramentas e estruturas** para **colectar, monitorizar, analisar, resumir e visualizar dados de social media**
- A investigação em social media analytics serve diferentes objectivos:
 - Facilitar conversas e interacção entre comunidades online
 - Extrair padrões significativos e a inteligência associada
- Análise de um conjunto enriquecido de dados ou metadados:
 - Tags (anotações ou labels com texto livre) /opiniões subjectivas, avaliações e comentários / classificações /perfis de utilizador
- Os dados de social media são fluxos **dinâmicos**, com o seu volume a aumentar rapidamente e o seu tratamento coloca desafios significativos

Métricas de monitorização

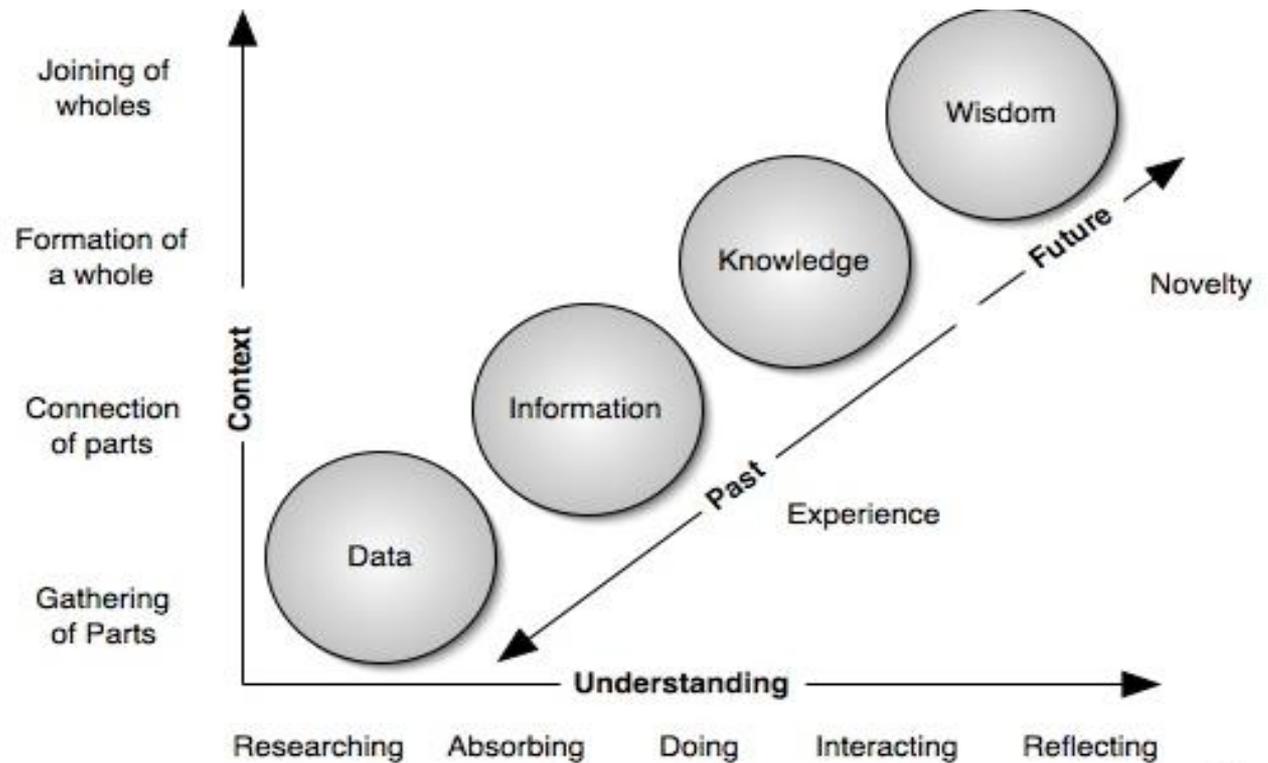
Metric	Description
Conversation buzz	The amount of discussion around certain topics, generally determined by the number of responses to blog posts or online discussions. A widely read news site may post a story, but if there are no comments and no readers discussing the topic, then it shows little consumer interest.
Conversation value	The revenue contribution of a conversation about a particular product or brand. Proposed by Chat Threads, this metric comes from understanding how conversations spread through different channels and the incremental value each conversation adds to the brand's bottom line.
Conversation volume	The number of social media entities (blog posts, forum discussions, tweets, etc.) discussing a topic. Volume is a stronger metric when measured over time — marketers use conversation volume to set baselines for future campaigns.
Demographic metrics	The collection of metrics making up the background details of online consumers. Listening platforms can collect data on consumer location, gender, and age. Marketers use demographic data to determine whether their campaigns reach targeted consumers.
Level of influence	The authority of an online consumer, measured by his or her overall reach online. A consumer with a highly read blog and thousands of Twitter followers is assigned a high influence score, while a commenter on a small forum has low influence.

Métricas de monitorização

Metric	Description
Message reach	The number of eventual impressions of an online discussion. Measured by the number of different sources covering a topic and each source's potential page views. Many discussions start small, but once picked up by a larger source, will reach a large number of consumers.
Sentiment type	The positive or negative attitudes consumers express, scored positive, negative, or neutral. Although many online brand mentions are neutral, containing no sentiment, listening platforms track adjectives around keywords to determine consumers' tonality about a topic.
Share of voice	The ratio of discussion volume between multiple brands — often represented as a percentage pie chart. Many marketers track their brands against competitors' to determine which company has a larger share of voice.
Topic frequency	The most common themes for consumer discussion around a brand. Marketers use topic frequency data to collect insight into how consumers view their brands and how they discuss them online.
Virality	The amount and speed at which a discussion spreads, measured by the number of different entries around the same topic within a certain time period. Around a highly viral event, such as the Motrin Moms saga, hundreds of bloggers write posts in the following days.

Predictive Analyses

Attempts to develop models of organizational systems that can be used to predict future outcomes and understand the consequences of hypothetical changes in organizations.



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Big Data: 3 Vs

World Economic Forum (2012) opined that **big data represents a new form of economic asset.**

- **Volume**

- Todos os dados que são recolhidos

- **Velocidade**

- Criação, transmissão e recepção de dados em tempo real

- **Variedade**

- Multi-estruturados
- Com origem em múltiplas interacções de clientes
 - clickstream (website visits)
 - comentários
 - Email
 - SMS
 - pesquisas
 - sensor data
 - georeferenciação
 - social posts
 - Tweets

2015 BIG DATA AND ANALYTICS SURVEY



Business Goals Driving Investments



Big Data Landscape 2016

Infrastructure

Hadoop On-Premise
 cloudera Hortonworks MAPR Pivotal IBM InfoSphere splice bluedata jethro

Hadoop in the Cloud
 amazon Microsoft Azure Google Cloud Platform IBM InfoSphere CAZENA TREASURE DATA altiscale Qubole xplenty

Spark
 databricks GridGain TACHYON NEXUS

Cluster Services
 amazon web services kubernetes docker HPCC SYSTEMS MESOSPHERE CoreOS pepperdata StackIQ

Analytics

Analyst Platforms
 Palantir AYASDI Quid enigma Digital Reasoning ORBITAL INSIGHT

Analytics Platforms
 Microsoft GUAVUS Datameer interana

Data Science Platforms
 context relevant CONTINUUM DataRobot Alpine MODE plotly ADATAQ dataiku notorian DOMINO sense yhat ALGORITHMIA

Visualization
 tableau Google Cloud Platform Roambi GOMDATA Qlik CHARTIO

Applications

Sales & Marketing
 RADIUS Gainsight bloomreach Zeta livefyre blueyonder kahuna Lattice SAILTHRU persado infer sense AVISO infer sense ACTIONIQ QUANTIFIND EN GAGIO

Customer Service
 MEDALLIA ATTENITY CLARABRIDGE STELLA Service NGDATA Preact DigitalGenius appuri fuse/machines

Human Capital
 gold Connectifier textic entelo hiQ

Legal
 RAVEL JUDICATA Everlaw Brevia PREMONITOR

NoSQL Databases
 amazon DynamoDB Google Cloud Platform ORACLE Microsoft Azure MarkLogic mongoDB DATASTAX Couchbase SequoiaDB redislabs influxdata

NewsQL Databases
 SAP HANA Clustrix Pivotal paradigm4 NUODB MariaDB VOLTDB citusdata doopdb Trafodion Cockroach LABS

BI Platforms
 Power BI amazon web services Domo Wave Analytics GoodData birst platforma looker atscale ARCADIA BUSINESS

Statistical Computing
 sas SPSS MATLAB

Log Analytics
 splunk sumologic kibana CLOUD PHYSICS loggly

Social Analytics
 NETBASE DATASIFT tracx bitly synthosio bottlenose simple reach

Ad Optimization
 MediaMath Integral OpenX rocketfuel Adgorithms theTradeDesk LiveIntent DataXu Appier TAPAD

Security
 CYLANCE CounterTack cyberason ThreatMetrix AREA 1 SECURITY SentinelOne Recorded Future FORTSCALE siftscience Keybase feedzai SIGNIFYD

Vertical AI Applications
 facebook Clara KASIST lumina

Graph Databases
 neo4j OrientDB InfiniteGraph

MPP Databases
 TERADATA VERTICA Netezza koginitio dremio

Cloud EDW
 amazon web services Google Cloud Platform Microsoft Azure Pivotal snowflake WATERLINE DATA Infoworks

Data Transformation
 alteryx TRIFACTA tamer StreamSets Alation

Data Integration
 informatica Put potential to work MuleSoft snapLogic Bedrock Data

Real-Time
 amazon web services METAMARKETS confluent DATATOURNMENT dataArtisans

Machine Learning
 Azure Machine Learning amazon H2O SKYFREE rapidminer DATARPM deepgenio VISENZE PredictionIO glowfish

Speech & NLP
 NarrativeScience api.ai NUANCE Dato semantic machines rapidminer cortical.io MindMeld IDIBON vscope

Horizontal AI
 IBM Watson Cortana sentient VIV Numenta MetaMind clarifai

Publisher Tools
 Outbrain mixpanel Chartbeat yieldbot Yieldmo

Govt/ Regulation
 Socrata OPENGOV EN FiscalNote enigma mark43 PREPOPL OpenDataSoft

Finance
 Affirm LendingClub OnDeck Kreditech zebra finance LendUp Kabbage tidemark Pufft INSIKT uora Dataminr Lenddo KENSHC AIDYIA iSENTIUM Quantopian sentient

Management / Monitoring
 New Relic APPDYNAMICS amazon web services actifio Numerify splunk DATADOG TROCANA Anodot

Security
 TANIUM illumio CODE42 DataGravity CIPHERCloud VECTRA sqrrl BlueTalon

Storage
 amazon web services Google Cloud Platform Microsoft Azure panasas nimblestorage Qumulo

App Dev
 apigee CASK KORE IO Typesafe

Crowd-sourcing
 amazon mechanical turk CrowdFlower WorkFusion

Search
 hp AUTONOMY ORACLE INEMGA EXALEAD Lucidworks elastic ThoughtSpot MAANA swifttype Algolia SINEQUA

Data Services
 OPERA Mu Sigma DATA SCIENCE kaggle datakind

For Business Analysts
 OrigamiLogic ClearStory CIRRO import io

SMB / Commerce
 Google Analytics AMPLITUDE RUMetrics BLUECORE sumall granify Airtable retention custora

Education / Learning
 KNEWTON Clever deClara PANORAMA knowre

Life Sciences
 23andMe Counsel REcombine KYRUS FLATIRON zymergen HealthTap METABIOTA ZEPHYR HEALTH ovia Gingerio transcriptic Glow enlitic AICure Atomwise

Industries
 OP@WER eHarmony RetailNext duetto STITCH FIX WorkFusion TACHYUS Seeq FarmLogs SwiftKey HowGood select NIGHT MACHINE statmuse B@XEVER

Cross-Infrastructure/Analytics

amazon web services Google Microsoft IBM SAP SAS hp Autonomy vmware talend TIBCO TERADATA ORACLE NetApp

Open Source

Framework
 Hadoop YARN Spark MESOS TEZ Flink CDAP

Query / Data Flow
 SLAMDATA Apache ORILL Google Cloud Dataflow CouchDB riak OPENTOSCA nifi

Data Access
 HBASE accumulo cassandra mongoDB kafka riak

Coordination
 talend Apache Zookeeper Apache Ambari

Real-Time
 STORM Spark APEX Flink TACHYON druid

Stat Tools
 Scala NumPy SciPy

Machine Learning
 mlilb Aerosolve Apache SINGA MADlib Caffe TensorFlow CNTK FeatureFu jupyter DL4J VELES WEKA DIMSUM

Search
 Elasticsearch Solr

Security
 Apache Ranger Zeppelin

Data Sources & APIs

Health
 Apple JAWBONE GARMIN practicefusion fitbit Withings VALIDIC netatmo kinsa Human API

IOT
 UPTAKE ThingWorx helium samsara AUGURY estimate

Financial & Economic Data
 Bloomberg DOW JONES YDLEE PREMISE S&P CAPITAL IQ quandl xignite CBINSIGHTS mattermark estimate PLAUD

Air / Space / Sea
 PLANET LABS spire WINDWARD CRUISE Airware DroneDeploy SKYCATCH

Location/People/Entities
 GARMIN foursquare InsideView esri STREETLINE CONNECTING THE REAL WORLD CARTODB factual PlaceIQ Crimson Hexagon placemeter BASIS Sense360

Other
 qualtrics panjiva DATA.GOV

Incubators & Schools
 GA DataCamp INSIGHT METIS DataElite The Data Incubator

Big Data in Banking



<https://www.youtube.com/watch?v=1RYKgj-QK4I>

Agenda

- Cloud
- Social media
- Mobile
- Analytics
- Big Data
- **IoT**

- The Internet of Things (IoT) is a novel paradigm that is rapidly gaining ground in the scenario of modern wireless telecommunications;
- The basic idea of this concept is the pervasive presence around us of a variety of things or objects – such as Radio-Frequency IDentification (RFID) tags, sensors, actuators, mobile phones, etc. – which, through unique addressing schemes, are able to interact with each other and cooperate with their neighbors to reach common goals;
- The US National Intelligence Council (NIC) foresees that “by 2025 Internet nodes may reside in everyday things – food packages, furniture, paper documents, and more”.
(Atzori et al., 2010)
- Cisco estimates that by 2020 over 50 billion objects will be connected to the Internet:
- HP estimates that by 2015 over 1 trillion objects will be connected.

IoT

Smart Cities

- Smart surveillance, automated transportation, smart energy management systems, water distribution, urban security and environmental monitoring

Smart Vending Machines

- Monitoring inventory and communication
- Visual recognition to offer past choices, and collecting demographic data on customers

Smart Homes

- Command air conditioning, lights and appliances. Lock doors

Wearables

- Fitness, health and entertainment

Connected Cars

- Vehicles able to optimize their own operation, maintenance as well as comfort of passengers using onboard sensors and Internet connectivity

Smart Retail

- Remain connected with consumers even out of store through smartphones and using Beacon technology

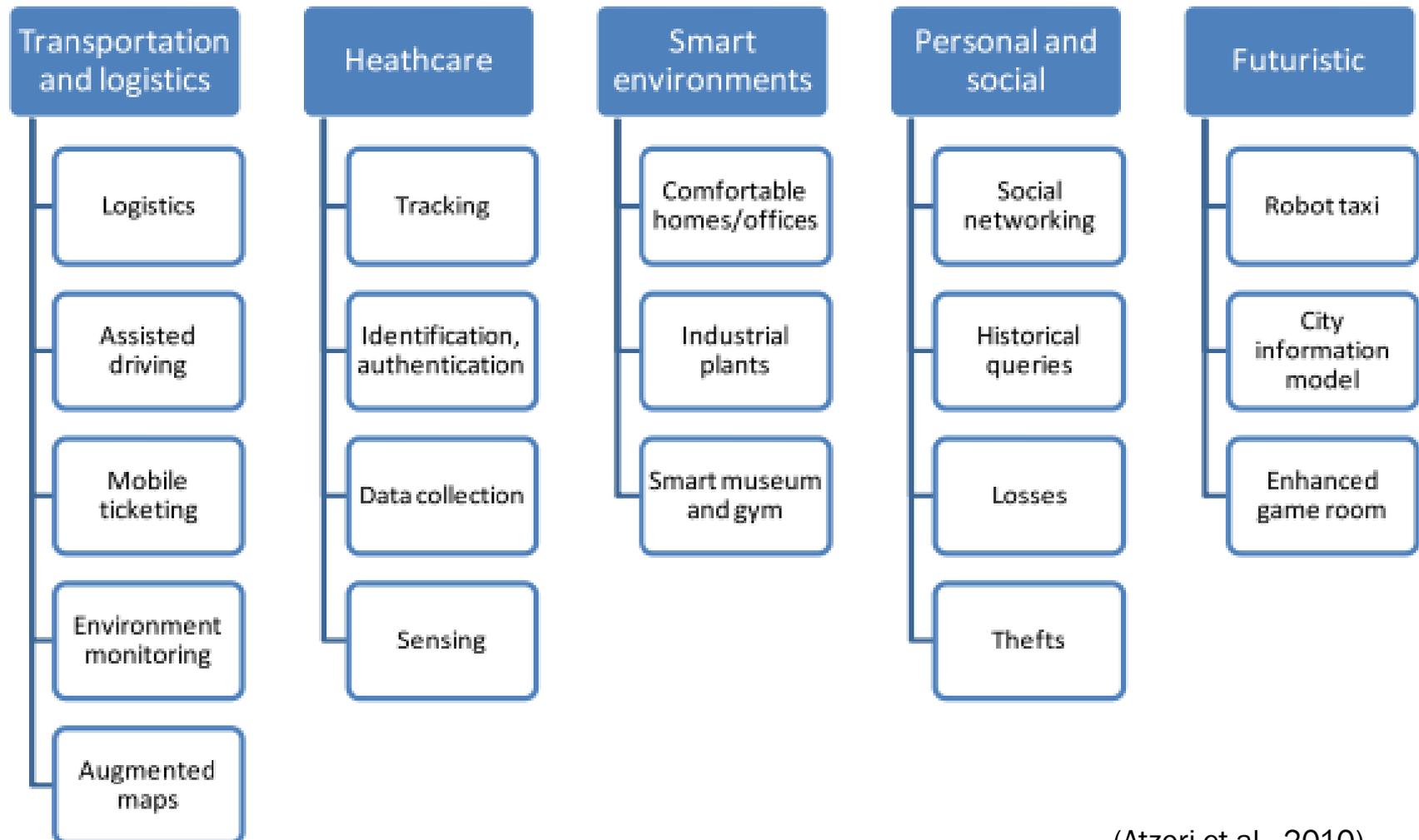
Healthcare

- Connected healthcare system and smart medical devices

Industrial IoT

- Tracking goods, real time information exchange about inventory among suppliers and retailers and automated delivery

IoT – Application domains



(Atzori et al., 2010)

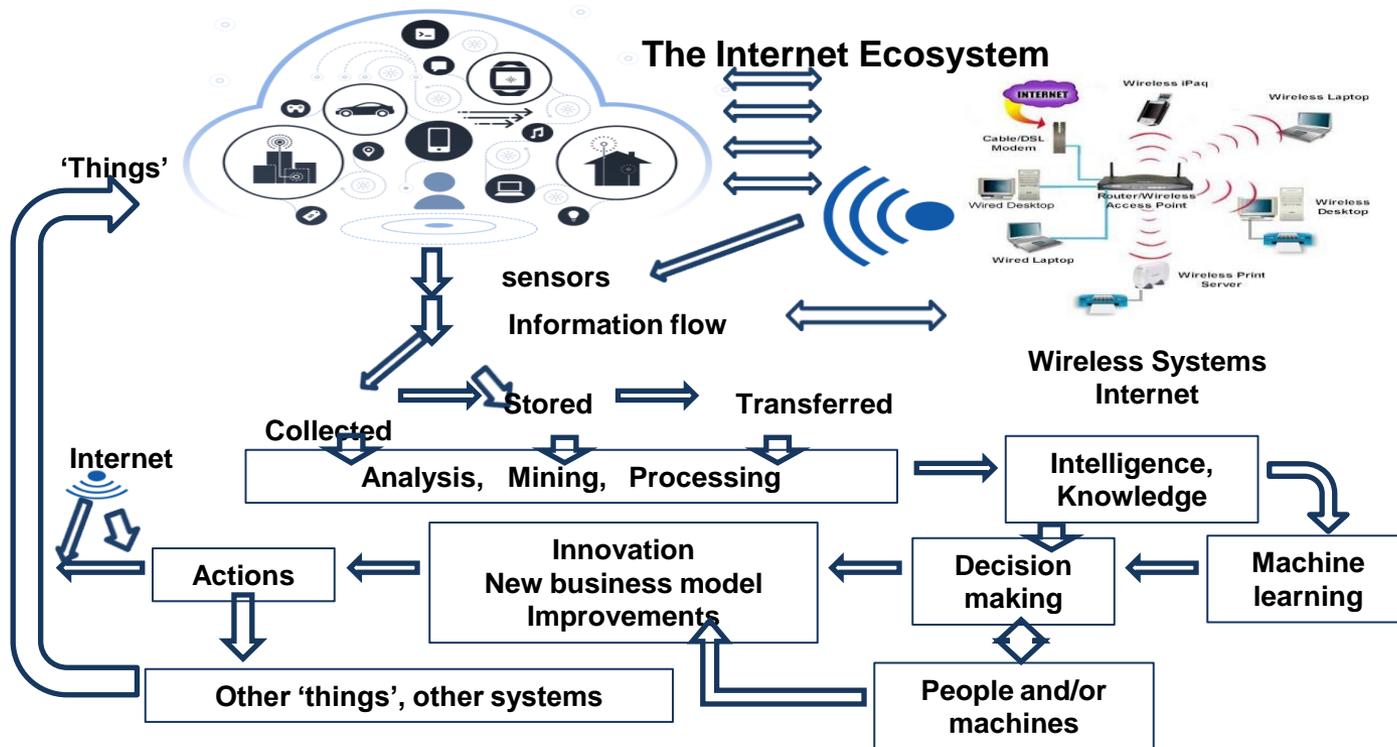


Figure 7.6 The process of the IoT

THE INTERNET OF THINGS AND E-COMMERCE

- **The Essentials of IoT**
- **The Structure of IoT Applications**
- **The Major Benefits of IoT**
 - Creates new revenue stream
 - Optimizes asset utilization
 - Improves sustainability
 - Improves workers' productivity
 - The Internet of Things is changing and improving everything (McCafferty 2015)
 - Systems will anticipate our needs
 - People will make smarter decisions/purchases
 - Greater accuracy
 - Identify problems quickly (even before they occur)
 - Reduces cost by automating processes
 - Instant information availability
 - Quick and inexpensive tracking
 - Expedites problem resolution and recovery
 - Supports facility integration

THE INTERNET OF THINGS AND E-COMMERCE

- **The Drivers of IoT**

- 50 to 75 billion 'things' - may be connected (by 2020 - 2025)
- Connected autonomous 'things'/systems (e.g., cars) are all over the IoT
- Broadband Internet is more widely available and increasing with time
- Cost of connecting devices is decreasing
- More devices are created (via innovation) and they are interconnected (e.g., see Fenwick 2016)
- More sensors are built into devices
- Smartphones' penetration is sky-rocketing
- Wearable devices are all over
- Speed of moving data is increasing; to 60Hz
- Protocols are developing for IoT (e.g., WiGig)
- Customer expectations are on the rise

INTELLIGENT PERSONAL ASSISTANTS AND ROBOT ADVISERS

- **Amazon's Alexa**
 - *Alexa Skills*
 - *Voice Interface and Speakers in Alexa*
 - *Amazon Echo*
 - *Amazon Echo Dot*
 - *Amazon Echo Tap*
- **Apple's Siri**
- **Microsoft Cortana**
- ***IBM Watson***
- **Alfie**
- **Personal Robots**
- ***Robo Advisers***

Experiência do consumidor

- A experiência do consumidor **engloba todos os aspectos da oferta** de uma empresa;
- É a **resposta interna e subjectiva do consumidor face a qualquer contacto directo ou indirecto com uma empresa:**
 - O contacto directo geralmente ocorre no decurso de uma compra, utilização, ou serviço e é normalmente iniciado pelo cliente;
 - Contato indirecto na maioria das vezes envolve encontros não planeados com representações de uma empresa, serviço ou marca e assume a forma de word of mouth ou críticas, publicidade, notícias, revistas, etc.
- A satisfação do consumidor é, essencialmente, **o culminar de uma série de experiências do cliente** ou o **resultado líquido das boas experiências menos as más.**
- Devido ao poder dos consumidores, quando existe **insatisfação do cliente**, a sua **disseminação é cada vez mais perigosa;**

(Meyer and Schwager, 2007)

The future today

The world's largest taxi company owns no vehicles

Uber

The largest accommodation provider owns no real estate

Airbnb

The most popular media provider creates no content

Facebook

The most valuable photo company sells no cameras

Instagram

The fastest growing television network lays no cables

Netflix

The most valuable retailer has no inventory

Alibaba

The future today

JAN
2018

DIGITAL AROUND THE WORLD IN 2018

KEY STATISTICAL INDICATORS FOR THE WORLD'S INTERNET, MOBILE, AND SOCIAL MEDIA USERS

TOTAL
POPULATION



7.593
BILLION

URBANISATION:
55%

INTERNET
USERS



4.021
BILLION

PENETRATION:
53%

ACTIVE SOCIAL
MEDIA USERS



3.196
BILLION

PENETRATION:
42%

UNIQUE
MOBILE USERS



5.135
BILLION

PENETRATION:
68%

ACTIVE MOBILE
SOCIAL USERS



2.958
BILLION

PENETRATION:
39%

7

SOURCES: POPULATION: UNITED NATIONS; U.S. CENSUS BUREAU; **INTERNET:** INTERNETWORLDSTATS; ITU; EUROSTAT; INTERNETLIVESTATS; CIA WORLD FACTBOOK; MIDEASTMEDIA.ORG; FACEBOOK; GOVERNMENT OFFICIALS; REGULATORY AUTHORITIES; REPUTABLE MEDIA; **SOCIAL MEDIA AND MOBILE SOCIAL MEDIA:** FACEBOOK; TENCENT; VKONTAKTE; KAKAO; NAVER; DING; TECHRASA; SIMILARWEB; KEPIOS ANALYSIS; **MOBILE:** GSMA INTELLIGENCE; GOOGLE; ERICSSON; KEPIOS ANALYSIS. **NOTE:** PENETRATION FIGURES ARE FOR TOTAL POPULATION (ALL AGES).

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<https://wearesocial.com/blog/2018/01/global-digital-report-2018>



FUTURE

NEXT EXIT ↗

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