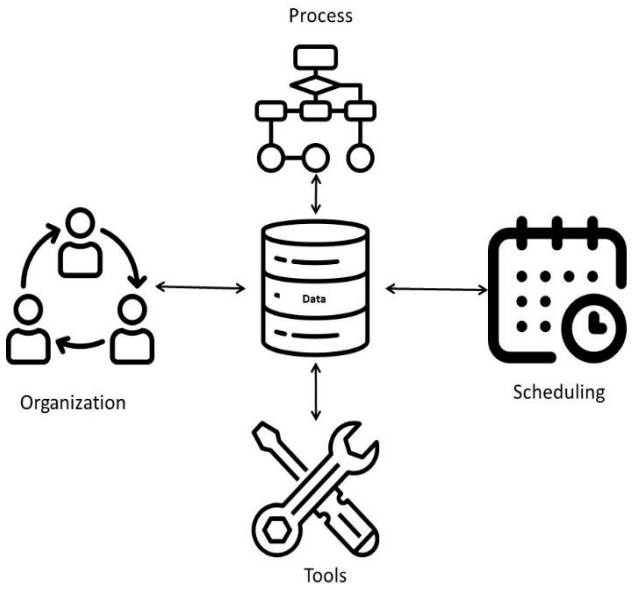


THE BUSINESS INTELLIGENCE PROJECT

Prof. Carlos J. Costa, PhD

Associate Professor of Information Systems and Operation Management

BI Project

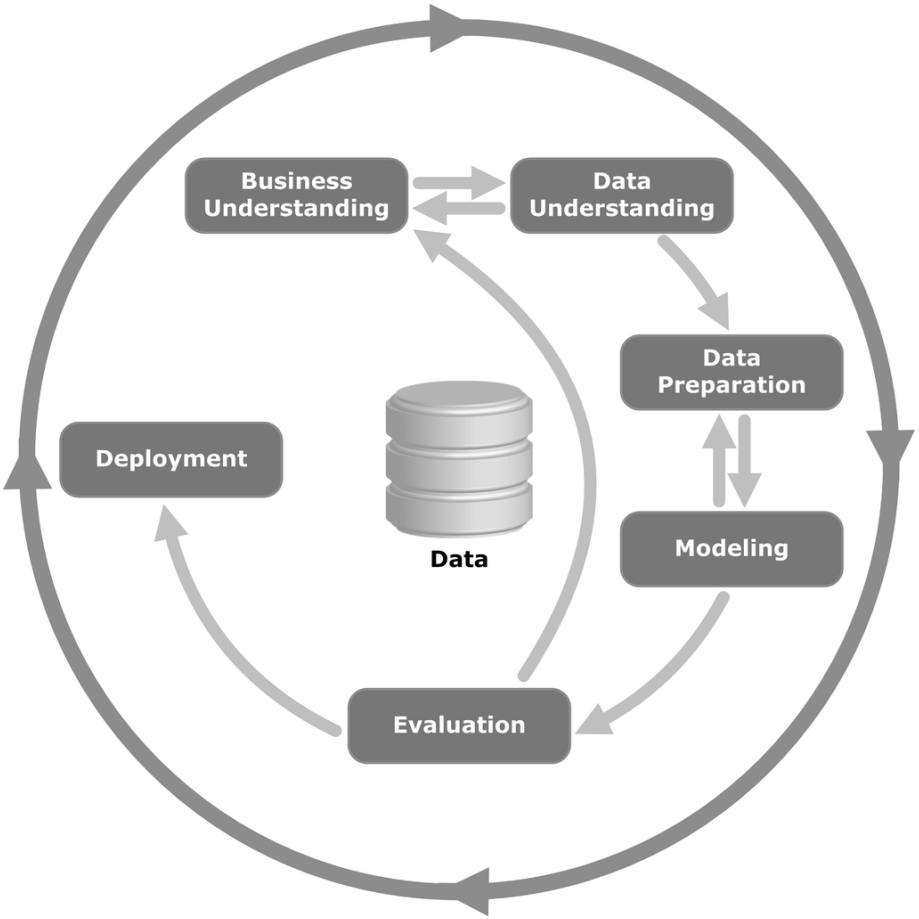
Process (e.g. Crisp-DM)

Organization (e.g. RACI)

Scheduling (e.g. Gantt)

Tools

Process


Business Understanding
Data Understanding
Data Preparation
Modeling
Evaluation
Deployment
Data

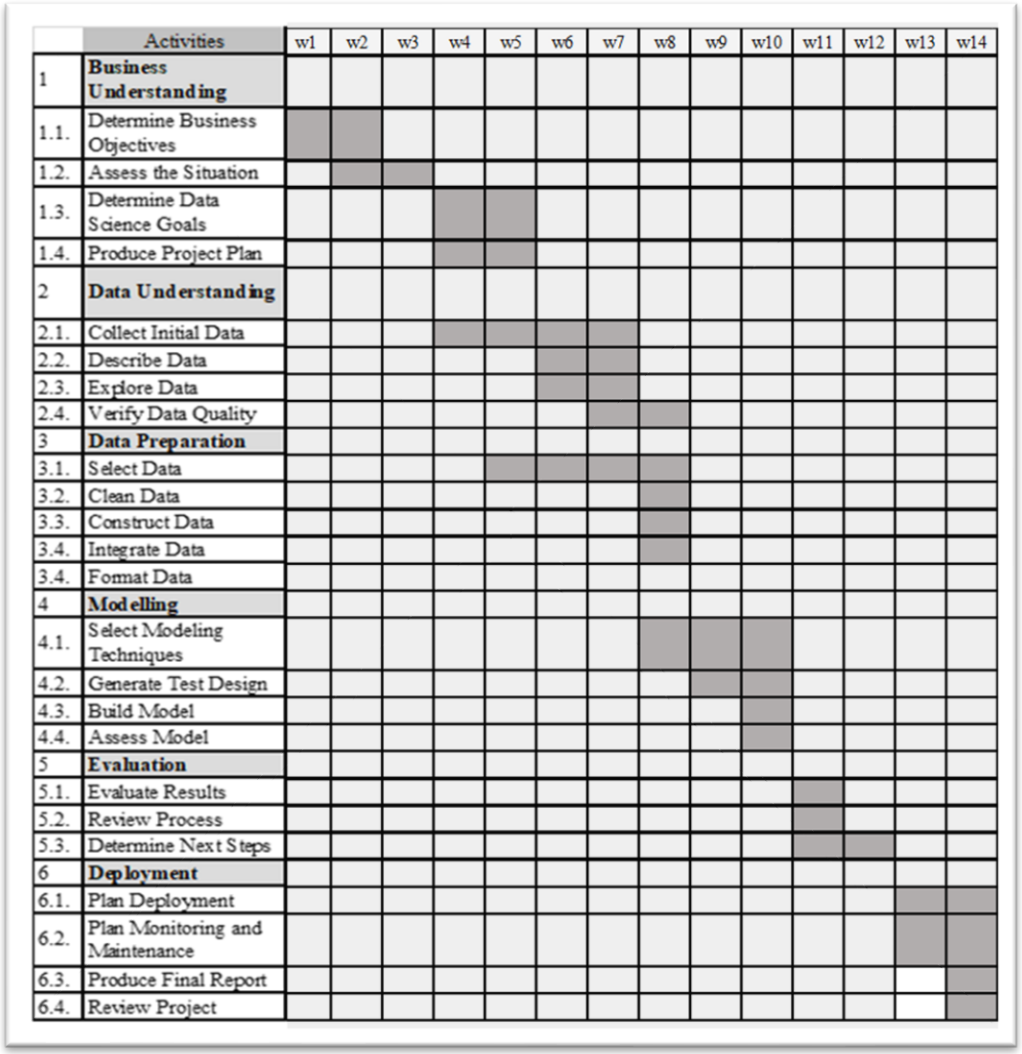
Organization

- R – Responsible
- A – Accountable
- C – Consulted
- I – Informed

RACI

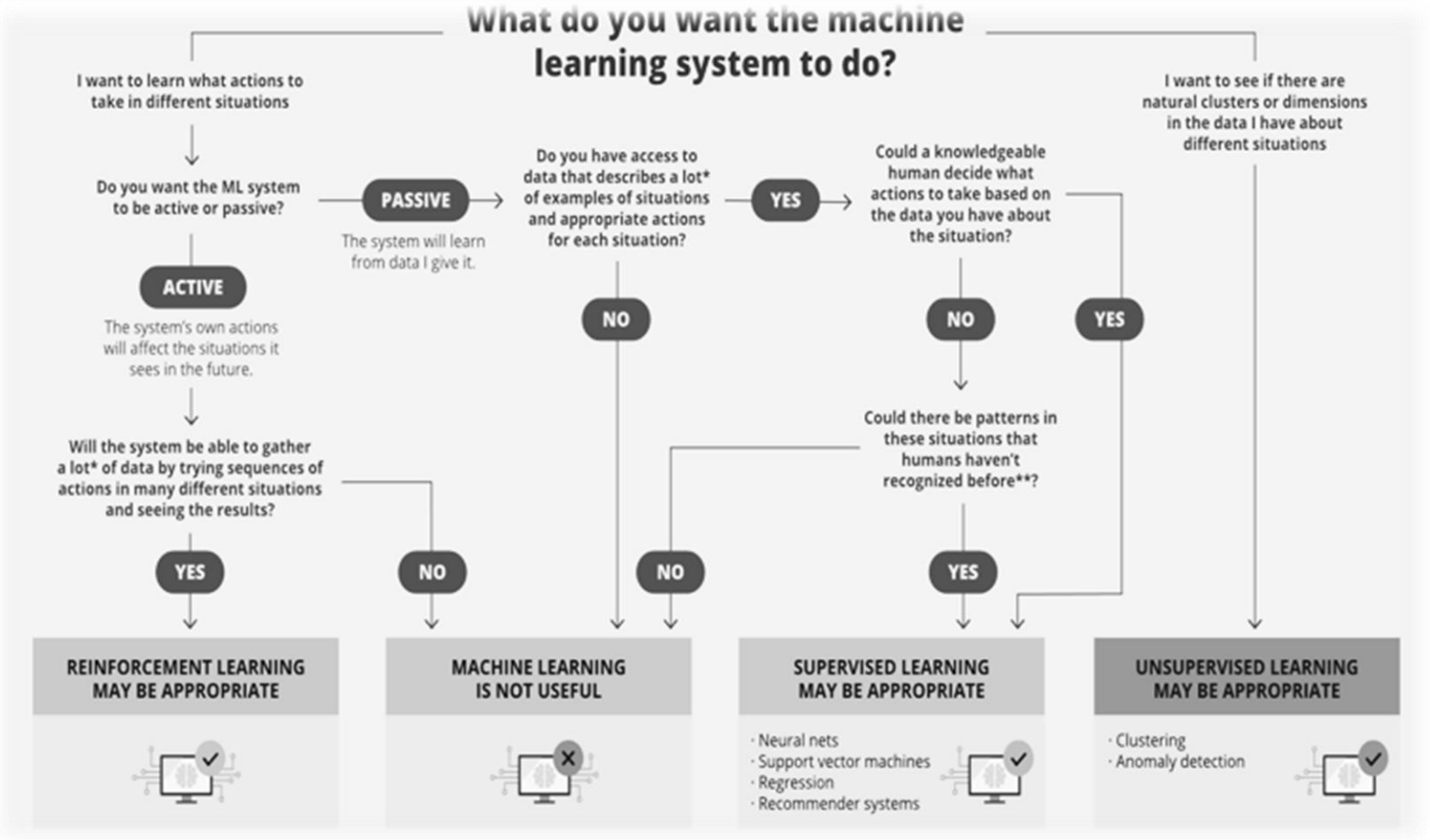
	Activities	BA	DE	DS
1	**Business Understanding**			
1.1.	Determine Business Objectives	A/R		
1.2.	Assess the Situation	A/R		
1.3.	Determine Data Science Goals	A/R		
1.4.	Produce Project Plan	A/R	R	R
2	**Data Understanding**			
2.1.	Collect Initial Data	C	A/R	I
2.2.	Describe Data	C	A/R	I
2.3.	Explore Data	C	A/R	I
2.4.	Verify Data Quality	C	C	A/R

Scheduling



	Activities	w1	w2	w3	w4	w5	w6	w7	w8	w9	w10	w11	w12	w13	w14
1	**Business Understanding**														
1.1.	Determine Business Objectives														
1.2.	Assess the Situation														
1.3.	Determine Data Science Goals														
1.4.	Produce Project Plan														
2	**Data Understanding**														
2.1.	Collect Initial Data														
2.2.	Describe Data														
2.3.	Explore Data														
2.4.	Verify Data Quality														
3	**Data Preparation**														
3.1.	Select Data														
3.2.	Clean Data														
3.3.	Construct Data														
3.4.	Integrate Data														
3.4.	Format Data														
4	**Modelling**														
4.1.	Select Modeling Techniques														
4.2.	Generate Test Design														
4.3.	Build Model														
4.4.	Assess Model														
5	**Evaluation**														
5.1.	Evaluate Results														
5.2.	Review Process														
5.3.	Determine Next Steps														
6	**Deployment**														
6.1.	Plan Deployment														
6.2.	Plan Monitoring and Maintenance														
6.3.	Produce Final Report														
6.4.	Review Project														

Tools



What do you want the machine learning system to do? Source: MIT

References

- Costa, C & Aparicio, J. (2020) POST-DS: A Methodology to Boost Data Science; 15th Iberian Conference on Information Systems and Technologies (CISTI). IEEE