Creating value with data: an holistic perspective

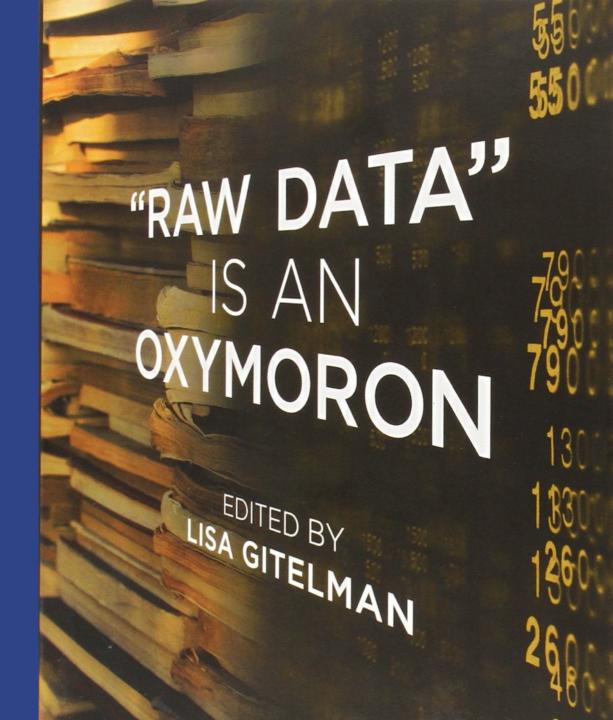
henri.isaac@dauphine.psl.eu





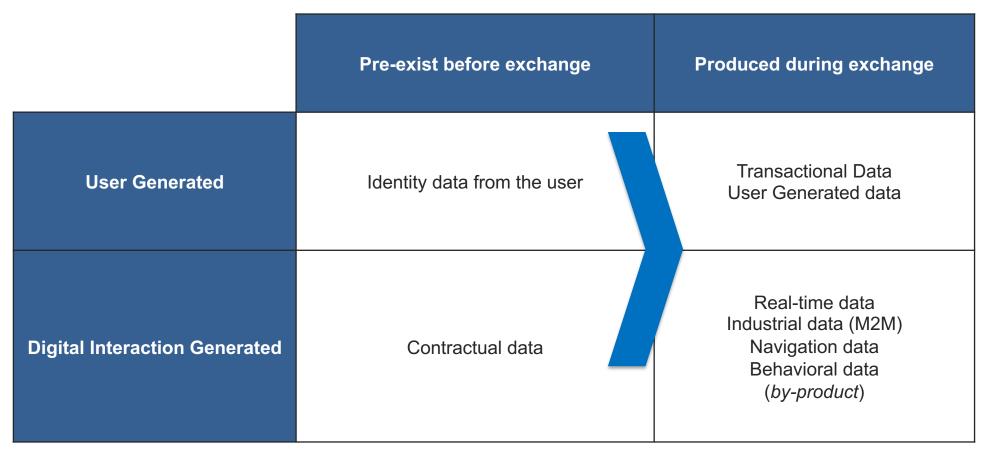
we should definitely not talk about "data"

Latour B., 1993 in « The invisible work of data », Denis J., 2018





Variety & Complexity of data collection & production process



Source: Isaac, (2018)

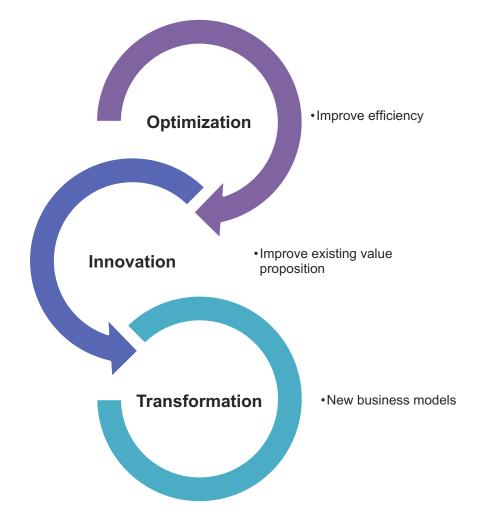


From CDO to CDO

- From CDO to CDO
 - Chief Digital Officer to Chief Data Officer
- separation of the data management function from the information systems management function
- Data has become so strategic and complexe that it requires a dedicated team, an organization, processes, even a culture



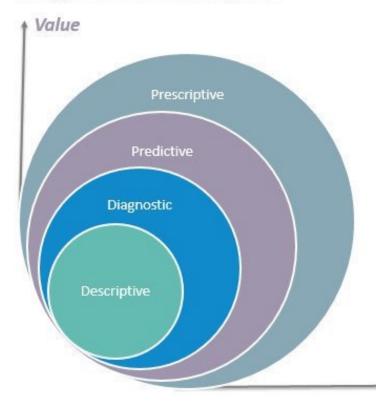
Data is not only an enabler, it's a game changer





From descriptive to prescriptive

4 types of Data Analytics



What is the data telling you?

Descriptive: What's happening in my business?

- · Comprehensive, accurate and live data
- Effective visualisation

Diagnostic: Why is it happening?

- Ability to drill down to the root-cause
- · Ability to isolate all confounding information

Predictive: What's likely to happen?

- · Business strategies have remained fairly consistent over time
- Historical patterns being used to predict specific outcomes using algorithms
- Decisions are automated using algorithms and technology

Prescriptive: What do I need to do?

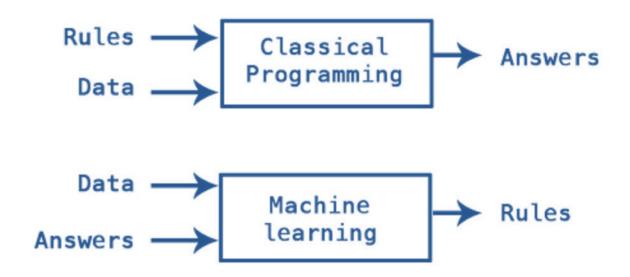
- Recommended actions and strategies based on champion / challenger testing strategy outcomes
- Applying advanced analytical techniques to make specific recommendations

Complexity



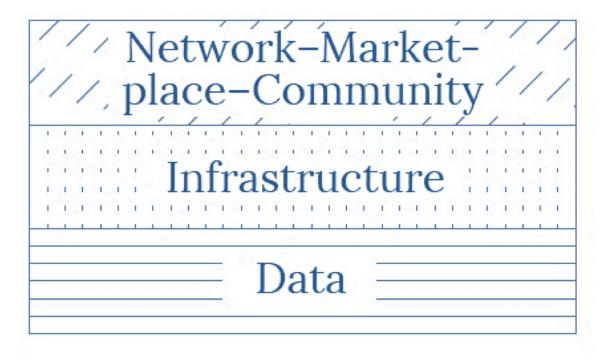


Machine learning heavily relies on data





Platform stack



Platform Stack

Source: S.P. Choudary, (2015), Platform Scale

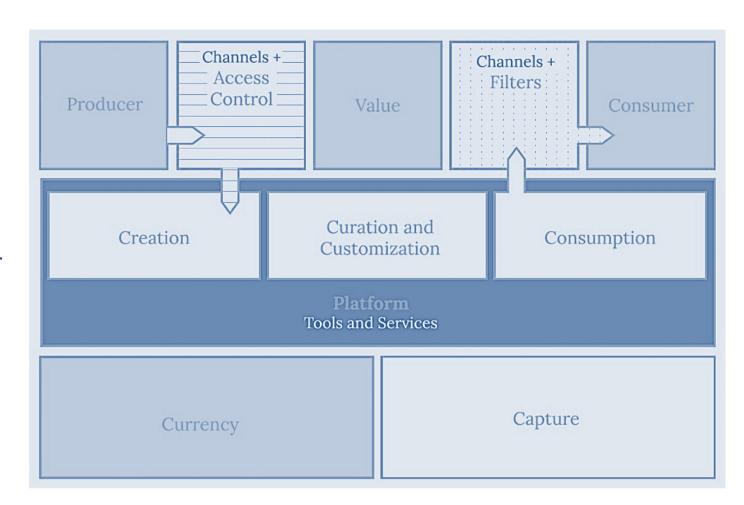


Data driven business model

Transaction layer

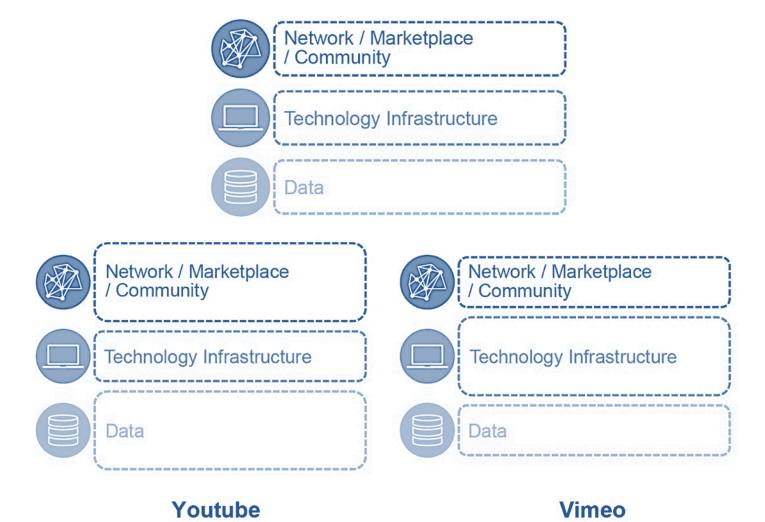
IT/IS/process layer

Data layer

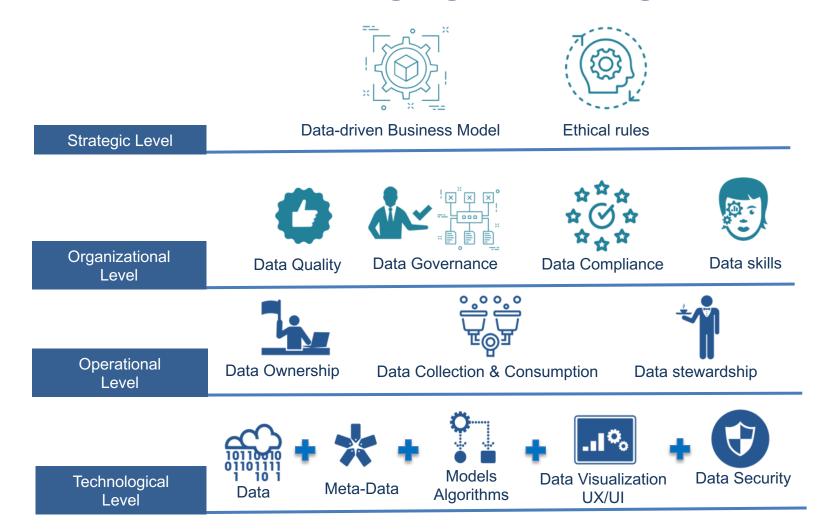




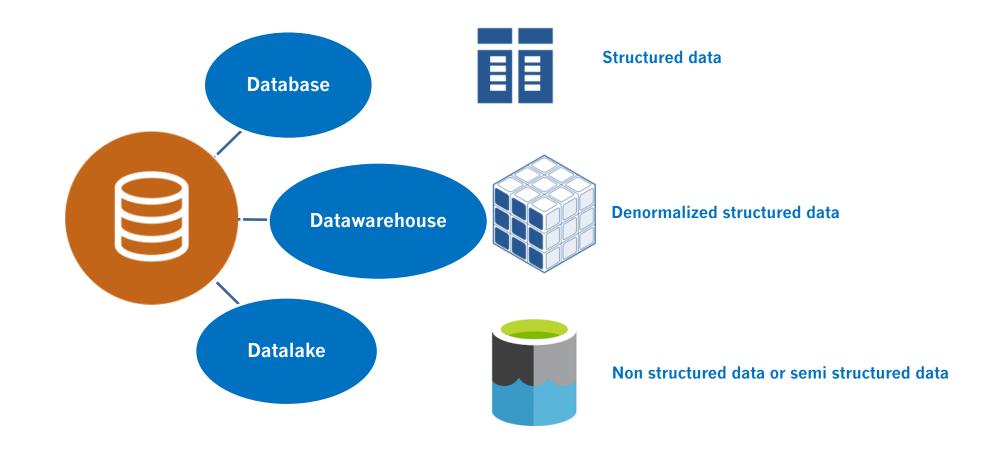
Relative importance of data in a platform model



A general framework for Managing & creating value with data



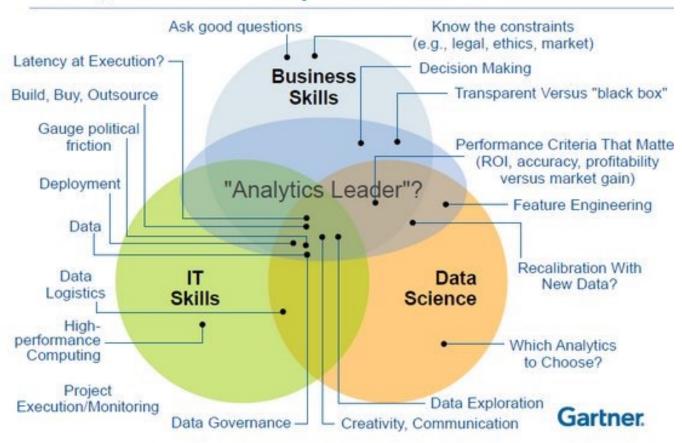
Technical Organization of data





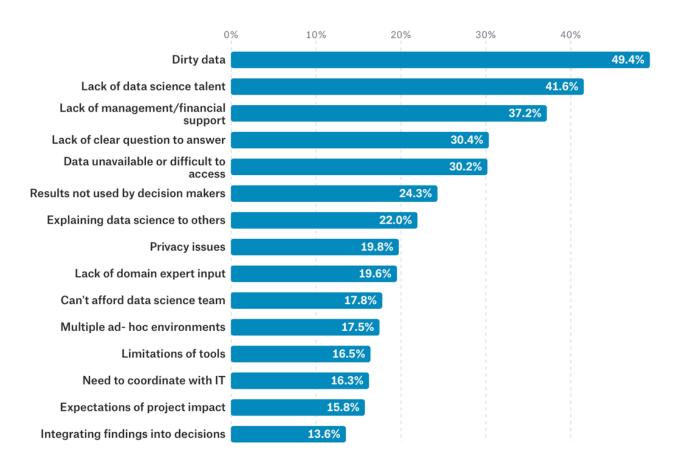
Managing new skills

Driving the Success of Data Science Solutions: Skills, Roles and Responsibilities ...





Hurdles in extracting value from data

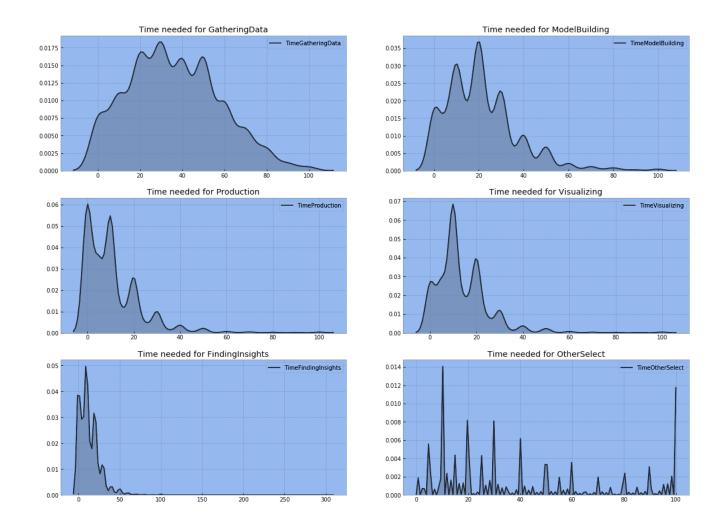




7,376 responses
Only displaying the top 15 answers. There are 7 answers not shown.



Time in data projects





Thanks for your attention

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