# **Data Literacy**

Are you Ground axians or PorcuBl Air Crew?

# Thank you!

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**CEÐAL** 

### REBTECH









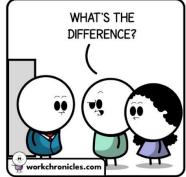


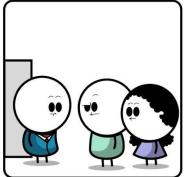
# **Data Literacy**

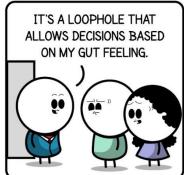
- Is it data?
- Is it knowledge?
- Is it technology?
- ▶ Is it functional?

What do you think?









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#### **Reitse Eskens**

Axians business analytics Groningen

DBA, Data Engineer

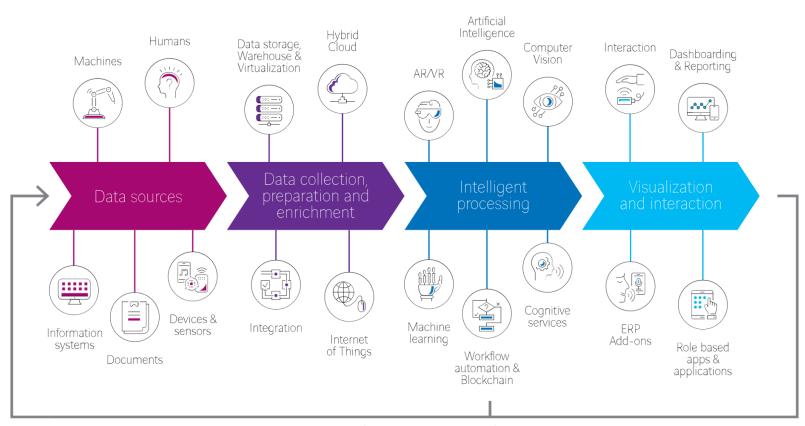


#### **Valerie Junk**

PorcuBl Utrecht

Data Analytics & Visualization



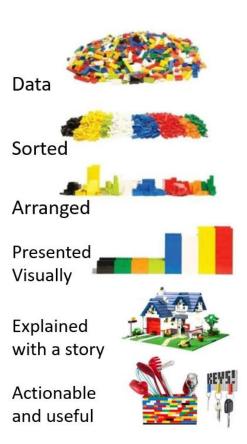


Feedback (data updates & commands)

### Where to start?

- Are you using data to tell a story?
- Are you telling a story using data?

**Team Tech or team Functional?** 



# Data literacy

- What is it?
- ▶ Why is it important?
- No one size fits all.
- ▶ The framework.
- Dream big, start small!

#### Gartner:

### Importance of data literacy

#### Companies realize they can achieve more with data

#### Supported by:

- More advanced tools
- Increase in "modern" workforce (less gut feeling)

#### **But:**

- Data initiatives lead to less real change
- Risk of 'anarchy'
- Employees lack the enthusiasm to change the way of working

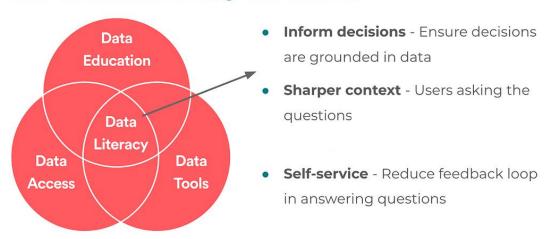


## How do we make this work?

### How to make it work?

An example: Airbnb

### Data education is the key to raising the bar of data literacy at Airbnb



### Customization is key

- Content needs to be specific and customized to the needs of your company, your employees and their work.
- Use your own data, own tools, and own use cases/problems.
- What you learn is what you need! Everything you learn is part of your actual work by tackling real problems and answering real questions.
- Measure success (dashboards, user access..)

### 3 Levels of Skills

#### Level 1 – Base

- Consuming data
- Working with data is not a daily task
- Manager thinks data is important but does not take actions (currently) based on data

### 3 Levels of Skills

#### Level 2 – Advanced

- Working with data
- Employees who want to create their own dashboards
- Combining and analyzing data

### 3 Levels of Skills

#### **Level 3 - Expert**

- Employees who want to start making their own predictions based on data.
- Understand availability and possibility of different available techniques.

### Level 1. Concuming data Correlation vs causality. h/t Doug

Put the da

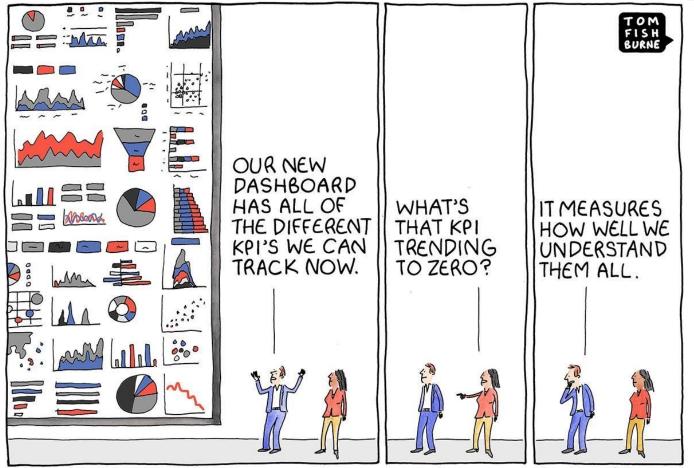
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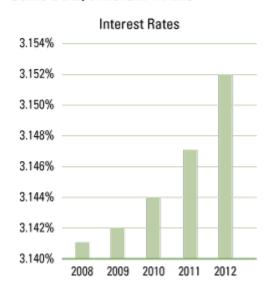


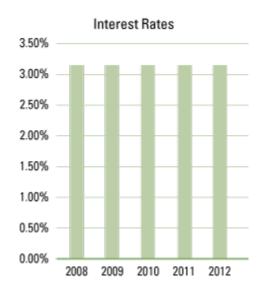


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# Data presentation

#### Same Data, Different Y-Axis





# Level 3: Data Scientists and Programmers

- Which technique is best to use for which problem?
- Implementation of data science models
- Machine learning
- R, python, Alteryx
- Time series analysis and prediction
- Advanced statistics



### Knowledge and Skills

- Functional (what data do I have)
- Technical (how do I get it out)
- Presentation (how do I tell the story)
- Synergy!

### Starting point — Architecture Design Session

Define what end users want and need.

Define the data sources, current data platform(s) and pain points.

Define knowledge level inside the organisation.

### All good and well, but

... If my employees want all the things with data, it increases the pressure on the BI department. They are overwhelmed as it is right now!

... can my data platform handle all the extra users?

### The magical 2nd step





### Think big but start small!

- With 1 department, for instance HR
- With 1 domain where the data is verified, for instance salaries
- With 1 layer, for instance management
- With 1 skill, for instance story telling
- ▶ With 1 level, for instance data scientists

## Key takeaway

- If you want to work data driven make sure you:
  - Make data literacy part of the data strategy!
  - Make sure everyone get's the time they need.
  - Training is a must and not a "nice to have".
  - Responsibility is key (and tracking progress).
  - Track progress, celebrate successes, and show interest.

### Questions?





