Dashboarding

An approach by Merkle

Joyce Thomas 14-11-2019





Even voorstellen..

Joyce Thomas

Data Scientist in Team **Insights**









Dashboarding & Reporting Data Consultancy

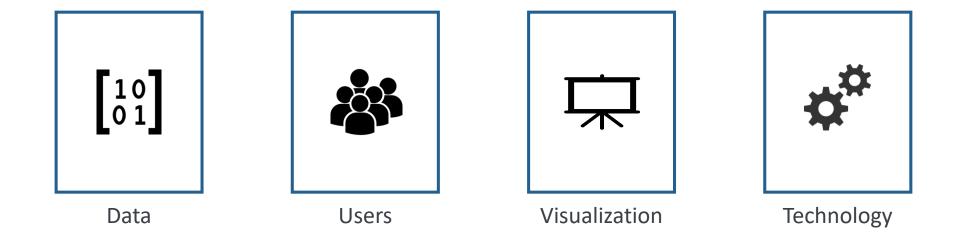
Advanced Analytics

Technology

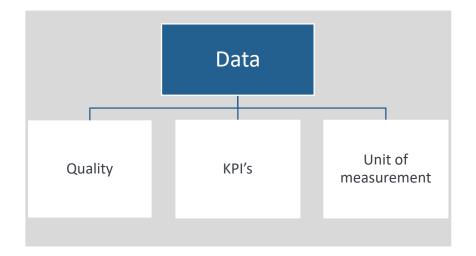


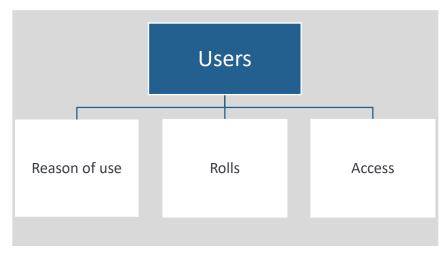


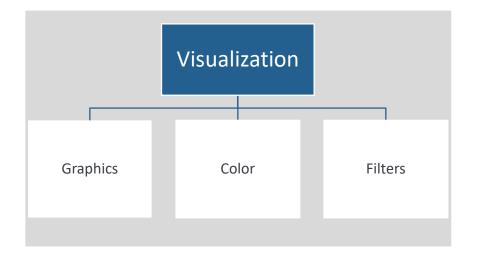
Reporting & Dashboarding

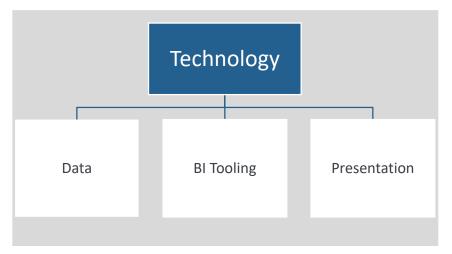


Foundation of dashboarding







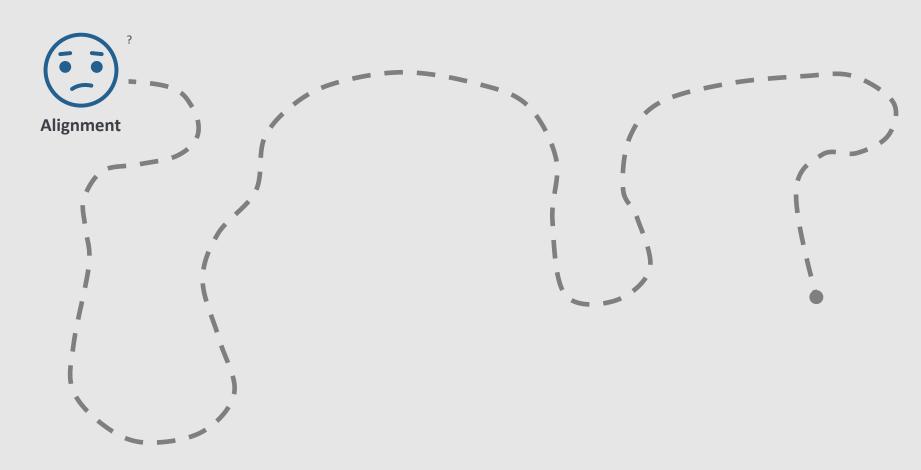




Roadmap – "From data to dashboards"









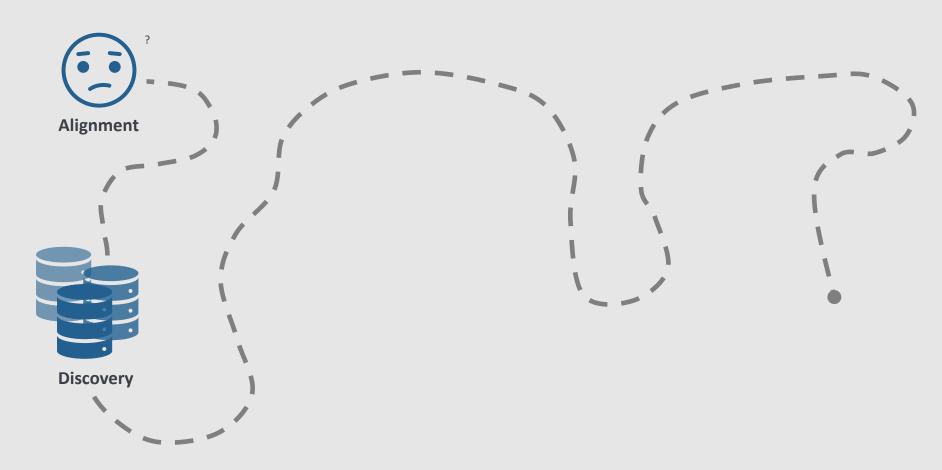


Frustrated?

- Your campaign is not performing good, but why?
- In what area are the sales high?
- And what is a potential are for increasing sales?
- Why are certain stores lagging behind the rest?











Discover the data

Availability

- Is the data you need available?

Accessibility

- How accessible is the data?

- Is all data coming from the same source?

Functional

- Can you answer the questions in the storyboard?

- Can assumptions be made if data is missing?

- Does there exist a logical funnel in the data?

Technical

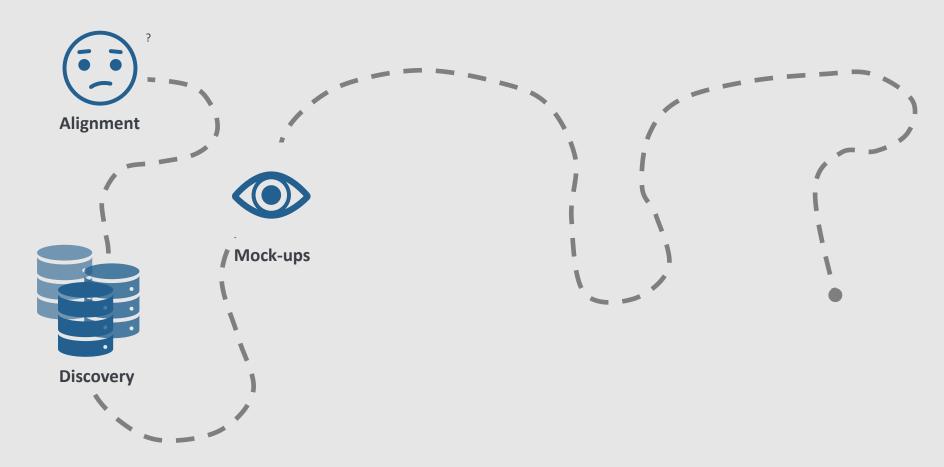
- What is the quality and quantity of the data?

- Which keys are available in the data?

- Can we automate the supply of data?









Audience Story Chart and White space Filters

color usage

















Q P A

6 5 2

Q A

Pareto chart

QQA

Venn diagram

And a

6 exact value

2) Design your chart

Let your data speak

do's

Show in context



Rank your data in patterns and outliers become

relevant ranking



Enrich you chart with target or benchmarks, to give the values

target or benchmark





space between

don'ts

a column or bar-

chart distorts the

Multiple Y-axis give a false

meaning to lines

crossing or to the

relative size of the

When you have more than 4 serie change you chart to small multiples.



easter to compare length of columns and bars and help to see the steep-



senting the data properly.





De-emphasize all non-data elements like axis and legend. The data is more Important.

less is more





Show and tell

Feam a is second

Important element to make it stand



Create a title to the chart.



data to tell a store



Text and numbers zontal aligned are harder to read.

align text other than horizontally



floating bar

09

dumbbell two groups

bullet graph bad/ok/good

dot matrix

Q 🖵 🛆

error bars

6

Q 🖵 🛆

Θ=0

grouped bar

lollipop like bar but thinner

vertical waterfall

data chart

numbers graph

wordcloud

gauge not recommended

frequency polygon

Q 💭

ridgeplot distributions over time

in bar labeling

A

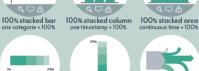


area chart















































Q P A sorted stream graph rank + size over time

Q PA

Gantt chart





Q scatterplot correlation





prettier, it will make tt harder and more confusing to read.

Beauty over accuracy



make a chart

Too much



can only process of maximum of 4 series in a chart.



same, should have the same color

too much or meaningless color



Always show the same number of decimals



What would you like to show?



QQA

proportional sizing

parallel coordinate

radial bar

age distribution

green € 5 20s red € 2 13s



panel bar multiple categories

x/y coordinate plot measure combination

pictograph using icons

radar chart

histogram per interval

deviation box



Q D A line chart

deviation column

2005 2007

a 🕢 🗿 _ь о — •

___d______

QQA

dot plot before and after

Q P A

route map

QQA

chloropeth map value by region

QQA

- 0 G

2004 20 2011









Q D A

100% stacked bar



































info@Chart.Guide f /ChartGuide 🥑 @Chart_Guide

Find more tips to **choose** and <mark>design</mark> your **Perfect Chart** at





deviation line

√ 5

76

CERT CORE CORE CORE CORE

Q A

cycle plot repeating time series

symbol map

QQA

isopleth map value by area

bubble map







horizon graph high and low

Q PA

flow map

QQA

chart on map













heatmap

dendrogram clustering

www. Chart. Guide /poster











waffle chart

100% bar chart



Support easy comparison



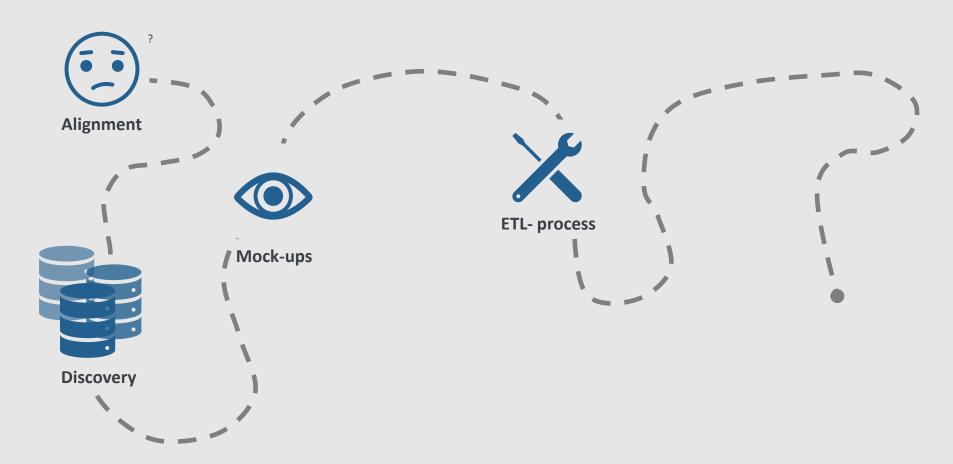








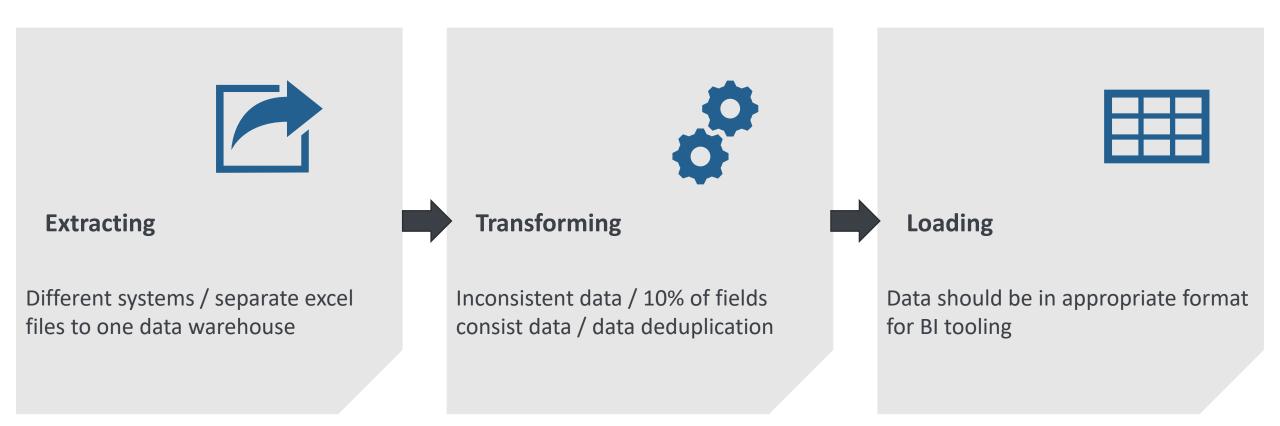








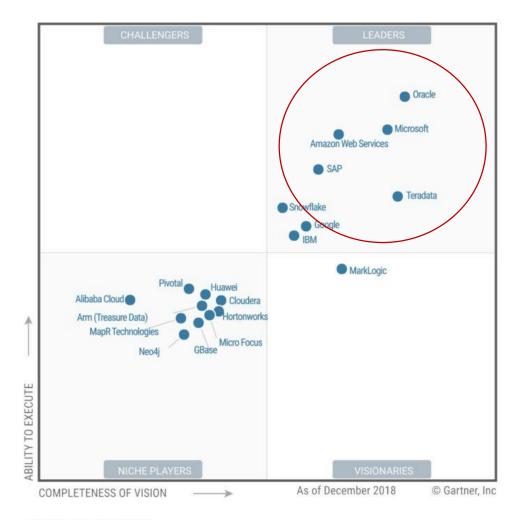
ETL-proces





Data Warehouses

- How advanced is the BI tooling itself?
- What do you want to spend on a DWH?
- Can you automate processes within the DWH?



Source: Gartner (January 2019)



Inconsistency

New York

New-York

NY

Brooklyn

Nieuw York

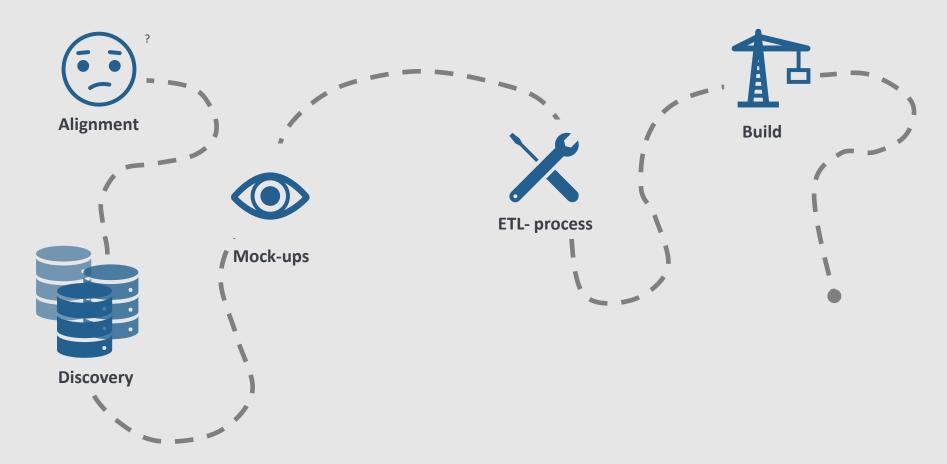
Manhattan

newyork

NEW YORK



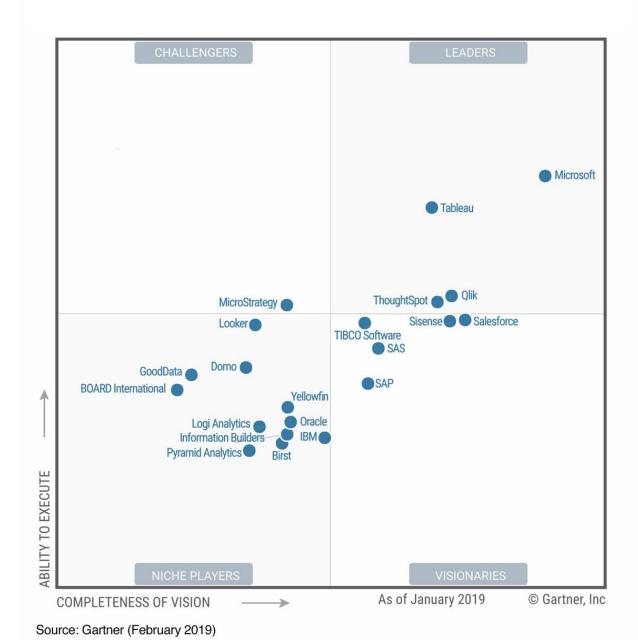








The best BI tooling





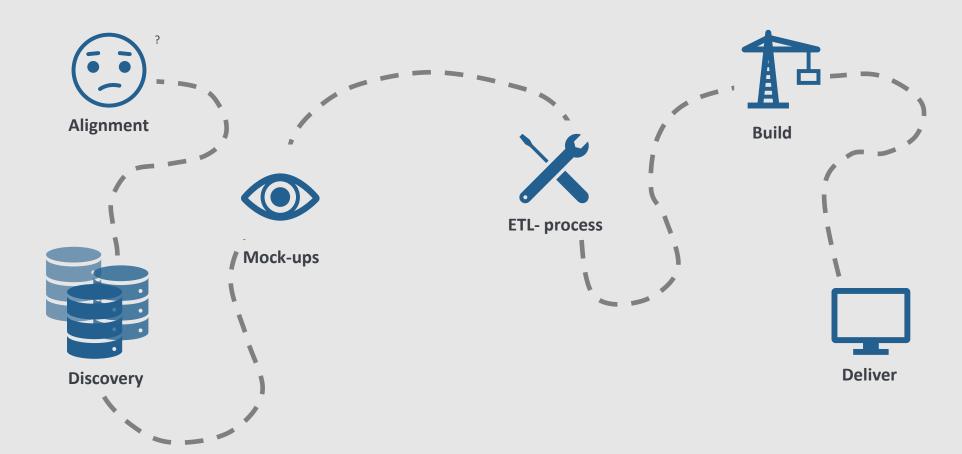






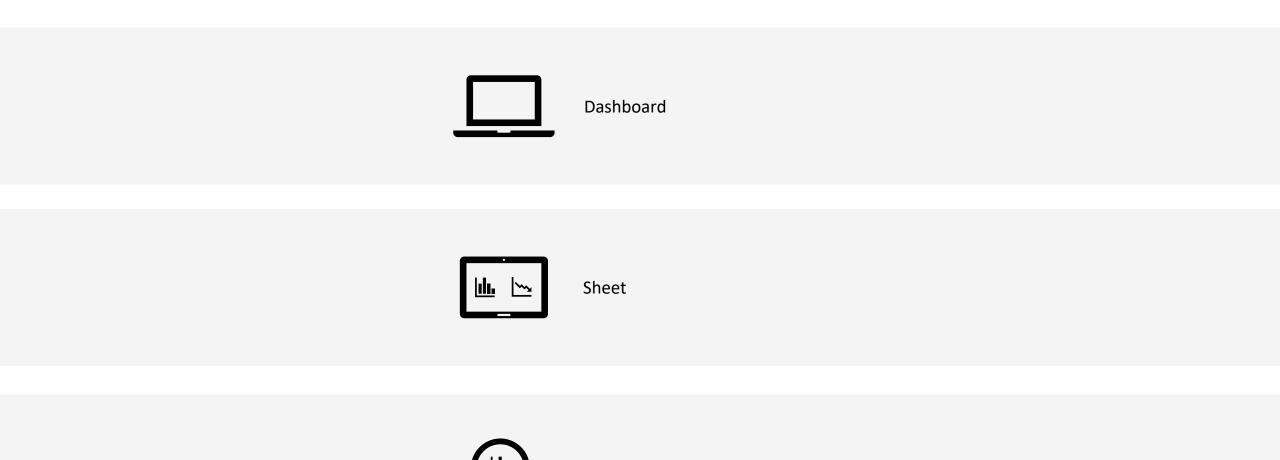








Storytelling



Object





THANK YOU

MERKLE