Data Visualization in Corporate Environments

Data Visualization Group / University of Bern

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Sebastian Baumhauer, D ONE
www.d-one.ai

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Typical BI Tool Functionality

An overview

Get data & shape it

- Connect
- Transform
- Load
- Test
- Add data

Deploy / Publish

- Publish on server / in cloud
- Automate refresh
- Share securely

Build interactive Report / Dashboard

- Visualizations
- Filters
- Navigation

Consume Reports

- Always the latest data
- Managed centrally (by business users!)
- Everyone sees what they are allowed to see (report or row-level security)

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Demo Time!

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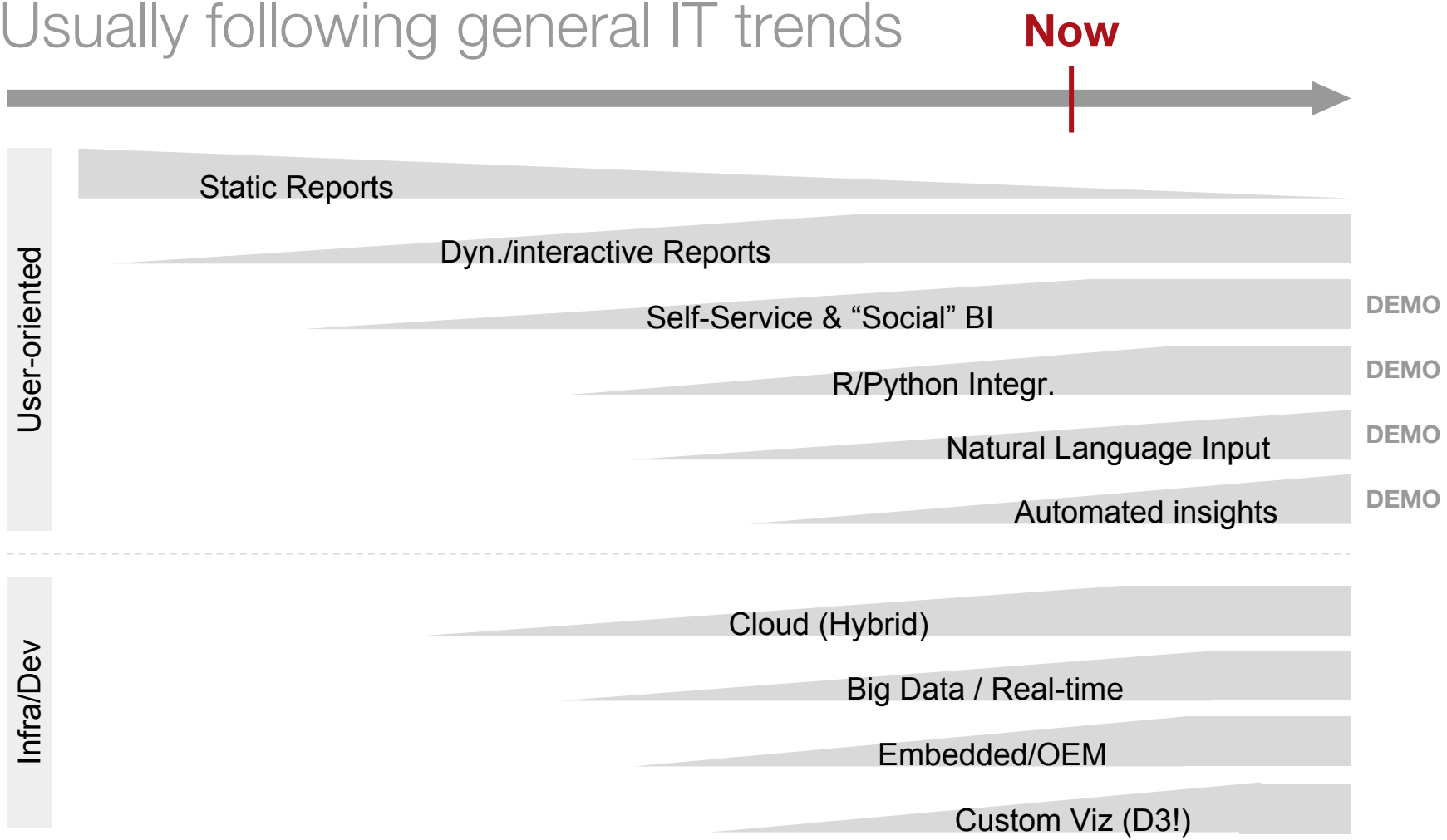
BI Tool Trends

Usually following general IT trends



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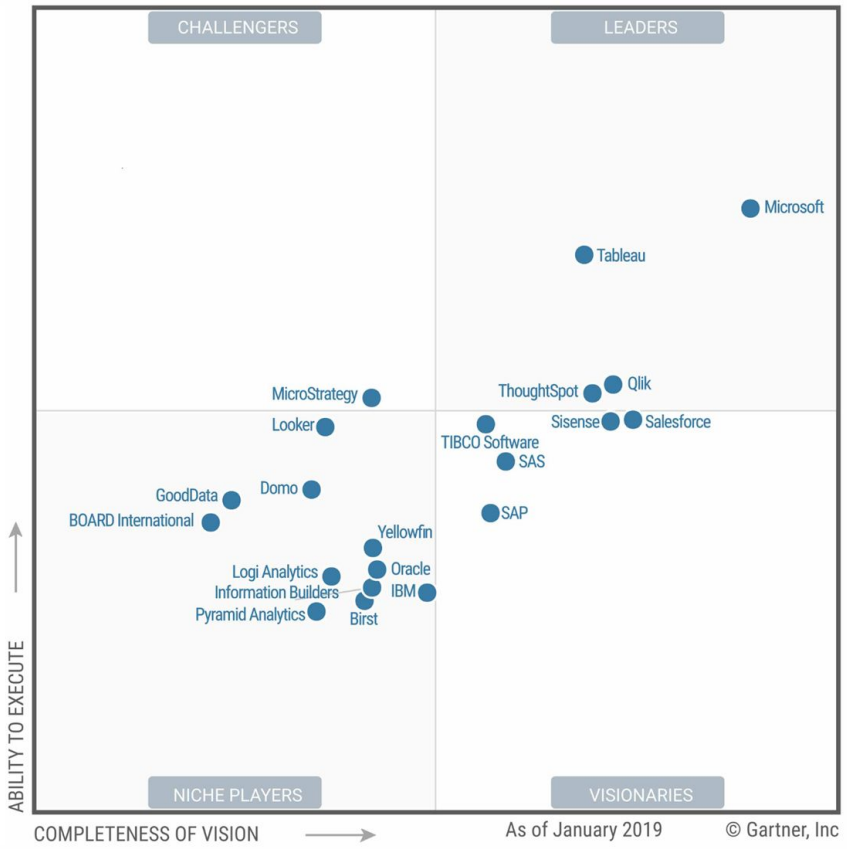
Gartner Magic Quadrant

What companies look at to preselect a BI tool...



Source: www.gartner.com

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Commercial BI Tools

Overview of 3 market leaders

	Qlik Sense	Power BI	tableau SOFTWARE
Company	Qlik	Microsoft	Tableau
What Sebastian finds cool about it	• Mobile first: End-to-end on the tablet • Powerful scripting language for data prep which works in cloud, too • Advanced data modeling	• Powerful visual data prep • Advanced data modeling • Platform (PowerApps, Flow, Azure, Excel…)	• Visual ad-hoc analysis with high data density • Highly flexible for advanced and creative visualizations • Most spread in opendata circles
Usage for open data / free version	• Fully functional local version • Limited free cloud, share with up to 5	• Fully functional local version • Publish to web	• Local version for open projects that can (only) be saved publicly in web
Link	https://eu.qlikcloud.com/	https://powerbi.microsoft.com/en-us/	https://public.tableau.com/en-us/s/gallery

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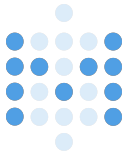
Open Source BI Tools

2 challengers which I see up and coming



Metabase

- Based on Java
- Readily available as standalone on Mac OS, as Docker container etc.
- Very modern appearance
- https://metabase.com/

Superset

- Based on Python
- Open-sourced by Airbnb
- In Apache incubator program
- A bit geeky…
- https://superset.incubator.apache.org/

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