

BUSINESS INTELLIGENCE AS A TOOL TO INCREASE MANAGEMENT EFFICIENCY



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FAKULTA V KARVINĚ

Ing. Hana Kováčková

Silesian University in Opava,
OPF in Karvina

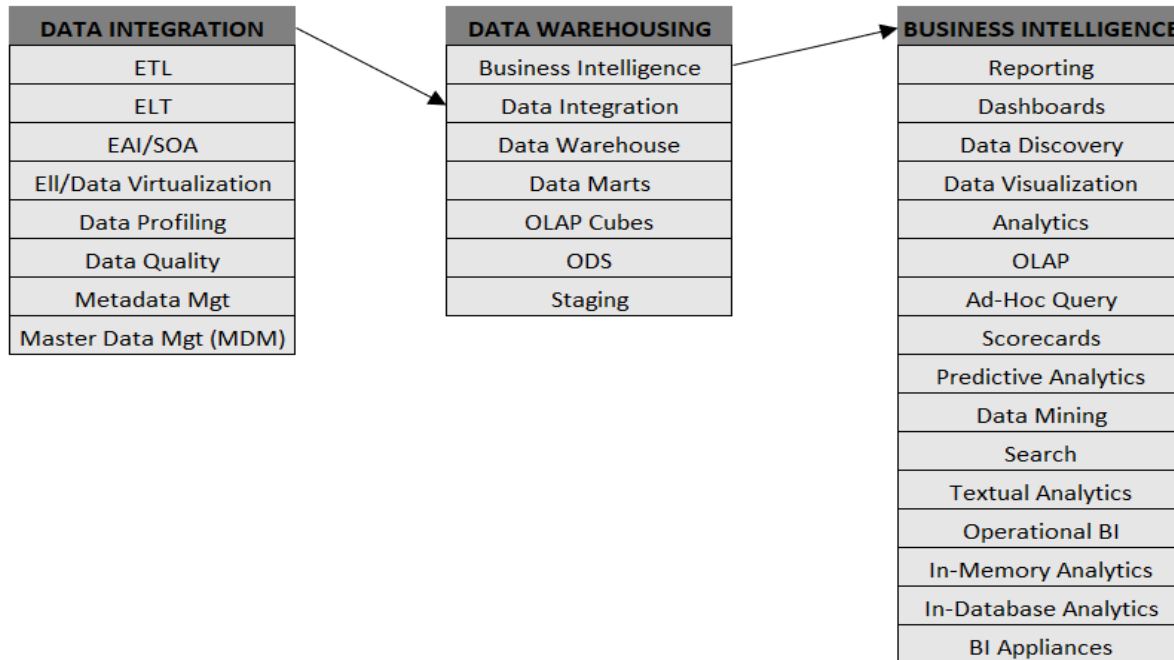
Business Intelligence (BI)



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"Without data, you are just another person with an opinion." – W. Edwards Deming

- Raw data
- **Quality data**
- Data warehouses
- Data mining
- Make a good decision

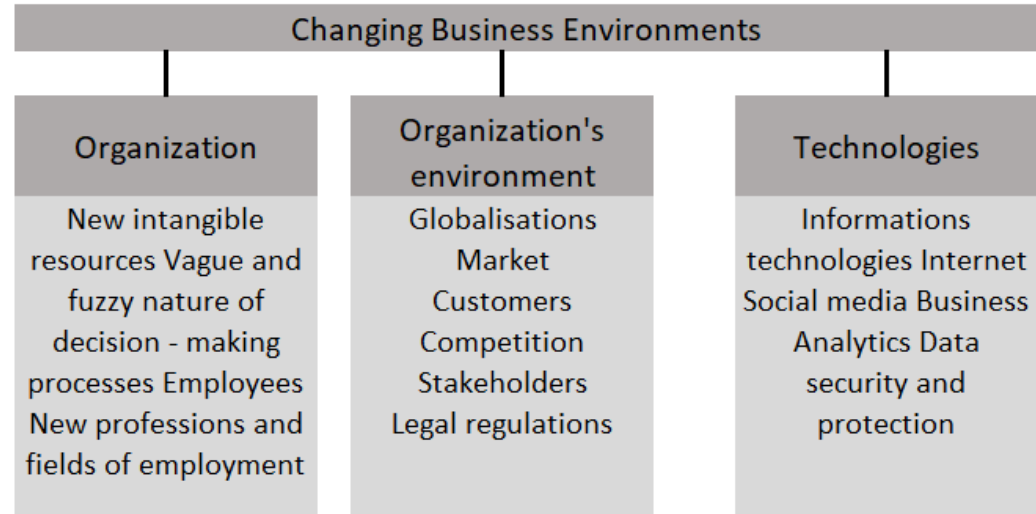


Three main trends in the development

- a) the Japanese approach
- b) the resource approach
- c) the process approach

Changing Business Environment

- 21st century
- expectations of modern organizations
- growing informations flow
- increasing business efficiency



Big data for Business Intelligence

Today is about 98% of all information stored in a digital form.

The data is increasing 40 times faster than the populations.

Oracle company (2014) internet is expanding at the rate of more than 40% from year to year. Today, it has more than 6 zettabytes of data and in 2020 its size, in all probability, will reach to 45 zettabytes.

In 2012, Google processed 24 petabytes of information per day.

Facebook every hour received about 10 million photographs for publication and about 3 billion likes and comments during the day (Mayer-Schoenberger & Cukier, 2013).

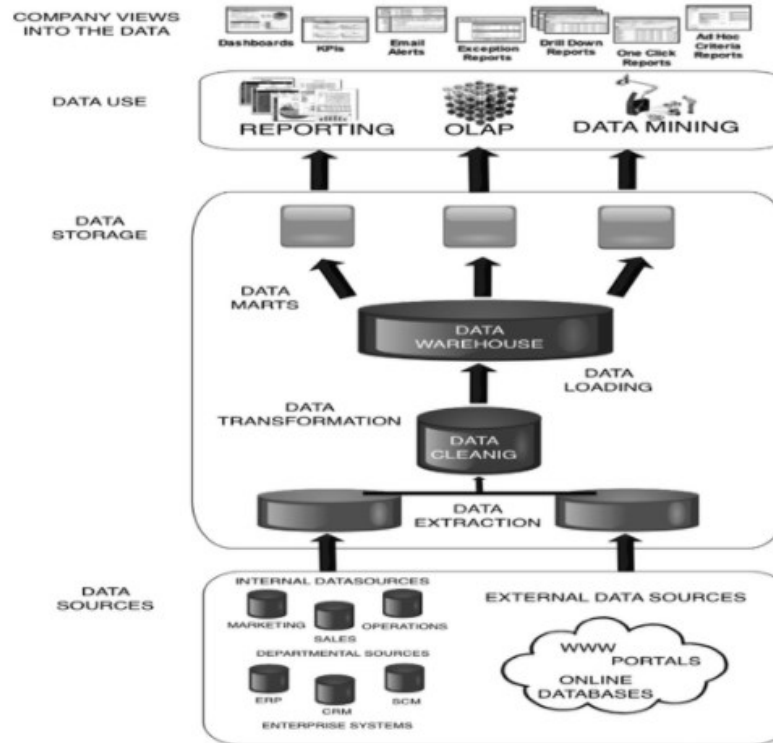
BI in Management of Organizations



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Architecture of BI Systems

- Data warehouse
- Data extraction and transmission tools
- Data analysis and exploration tools
- Data visualization

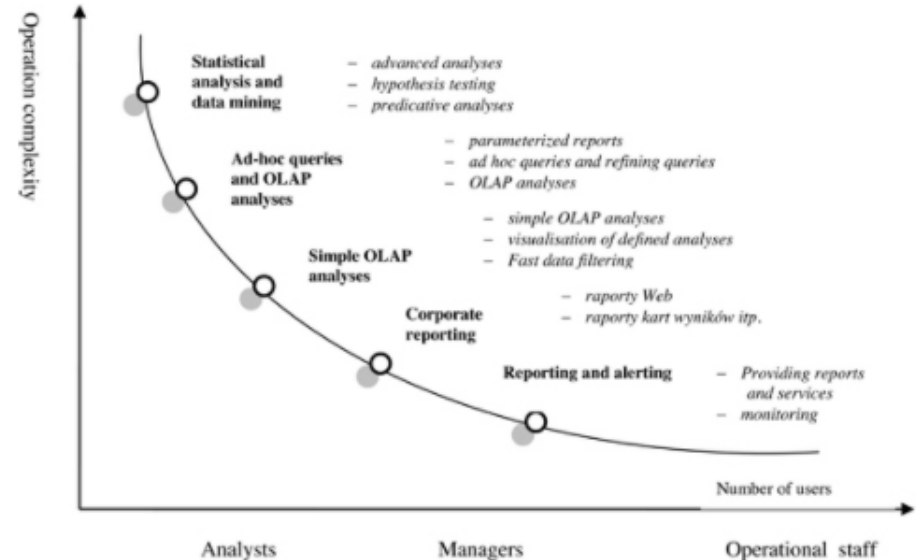


Model of Business Intelligence Systems



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- Corporate reporting
- Simple analysis
- Ad hoc queries and multidimensional analysis
- Statistical analysis and data mining
- Reporting and active alerting





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Thank you for your attention
