Impact of new Trends in DWH and BI on digital requirements
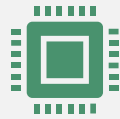
BY DOMINIK BAUER AND PASCAL DE VRIES

Content

SaaS is getting more popular

Greater usage of alternative Data

Rising demand for real time Data

Corporation needs to start earlier

DOMINIK BAUER, PASCAL DE VRIES

SaaS is getting more popular

BUT WHAT IS SAAS?

Software only available as cloud Service

Access through Browser or API

New usage based license models

Software as a Service

Impact on digital requirements?

Availability

Scalability and elasticity

Cost

Complex planning

Short Term

Immediate switch to more SaaS solutions

Medium Term

First the important data storage systems are migrated to the cloud, then the applications.

Long Term

By 2022, public cloud services will be the foundation for 90% of innovations in data and analytics.

Development

Current Situation

o Small projects are already use SaaS
  o Projects started in the last year

o Corona moved Projects to the cloud
  o Projects that rely on availability
  o Cost's savings

Greater usage of alternative Data

WHAT WAS THAT AGAIN?

Alternative Data

Usage of external/non-traditional Data

Finding corelations in the Data

Extracting new Information form the corelations

Impact on digital requirements?

Need to make external Data accessible

Experts to find correlations

The extracted Information must be trustworthy

The Information then can be used to gain benefits

Short Term	**Medium Term**	**Long Term**
Companies realise the value of alternative Data.	Correlation detection and Information extraction from alternative Data will be a Standard analysis process.	Content analysis with alternative Data will be used in 75% of the fortune 500 Companies to achieve changes and innovations.

Development

Current Situation

o Earlier discovery of Corona Virus

  o Analyse search requests

  o Monitor Traffic around Hospitals

o Predict Corona Hotspots

  o Scientists started analysing wastewater

  o Can predict the number of Infected Persons in the Area

  o Possible use as an early warning system

Rising demand for real time Data

I NEED FRESH DATA. NOW.

Realtime Data

Usage of external/non-traditional Data

Finding corelations in the Data

Extracting new Information form the corelations

Impact on digital requirements?

Make real time Data accessible

Make real time Legal requirements for real time data

Faster response to new information

Faster / automated analysis

Short Term

Capturing data changes faster is critical to success.

Medium Term

The responses based on this data must be at the same pace as the business processes. This is decisive for the step from reactive to pre-active action.

Long Term

By the end of 2024, 75% of companies will no longer use AI only as a pilot project, but operationally. As a result, data streaming and analysis infrastructures will grow by a factor of 5

Development

Current Situation

o Fast changing Demand
  o Toilet paper
  o Personal protection eqipment

o Fast chaning Supplychains
  o Diffent kinds of Covid-19 in different countries.
  o Fast changing political landscape

Corporation needs to start earlier

BUT WHY?

What is changing?

CLASSES GET ONLINE

MORE PEOPLE WORK
FROM HOME

EVERYONE IS CONNECTED
ALL THE TIME

Results

o There is less time to prepare the Data

o The need for a simple way to access and prepare Data rises

o This must be implemented in Coworking Software

o This would allow to work together more efficient and earlier

Short Term

Greater share of online Classes and Work

Medium Term

The Workflow between the people that prepare the Data and those that use them get Optimised. New coworking options rise and Data is faster available.

Long Term

Through the optimisation of reoccurring processes IT specialists are no longer needed for this work. They can use the 20% time they gained for other projects.

Development

Thank you for Listening

Sources

https://elearning.dhbw-stuttgart.de/moodle/pluginfile.php/330418/mod_folder/content/0/BI_Daten_Trends_2021.pdf?forcedownload=1

https://www.aerzteblatt.de/nachrichten/115929/Forscher-ueberpruefen-Abwasser-auf-Coronaviren