Creating Business Value through Digital Technology. The Central Role of Business Process Management



Prof. Dr. Jan vom Brocke,
Hilti Chair of Business Prozess Management
Institute of Information Systems
University of Liechtenstein



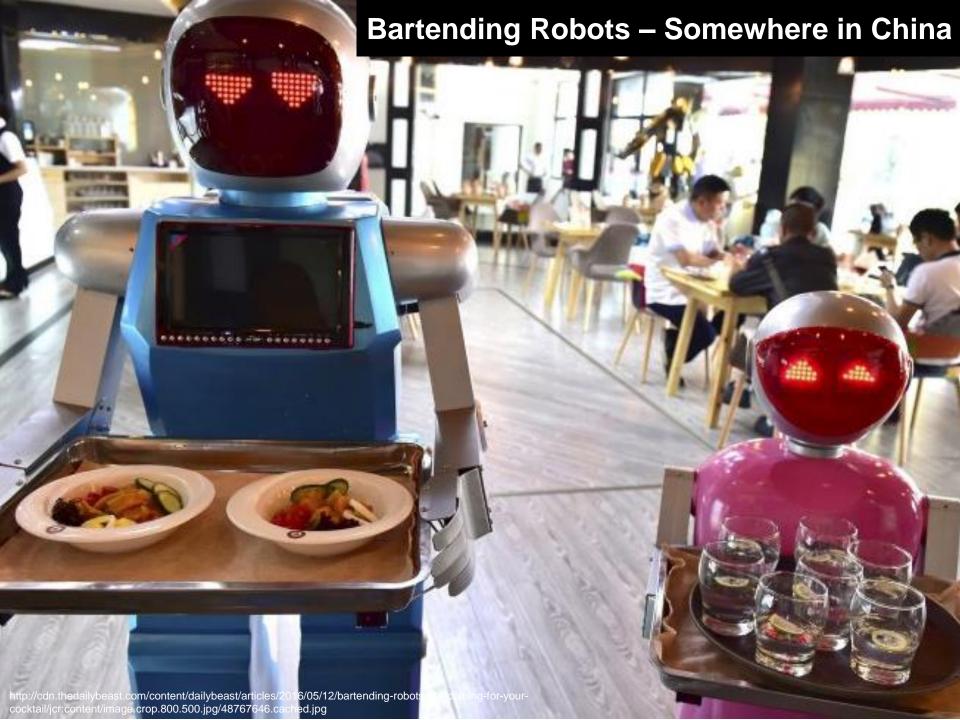




IT for the real world





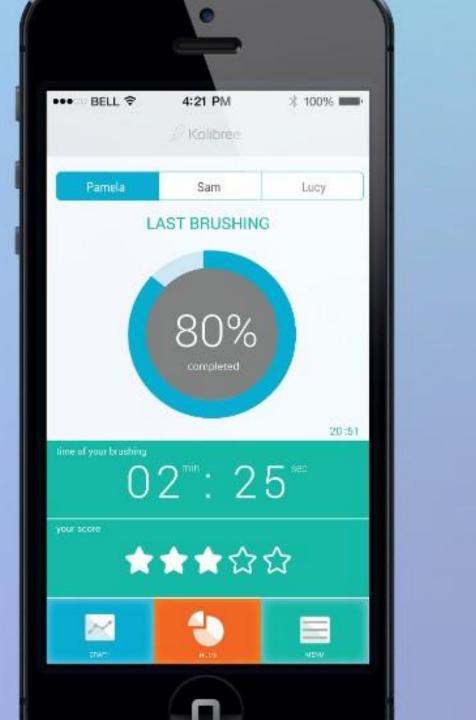




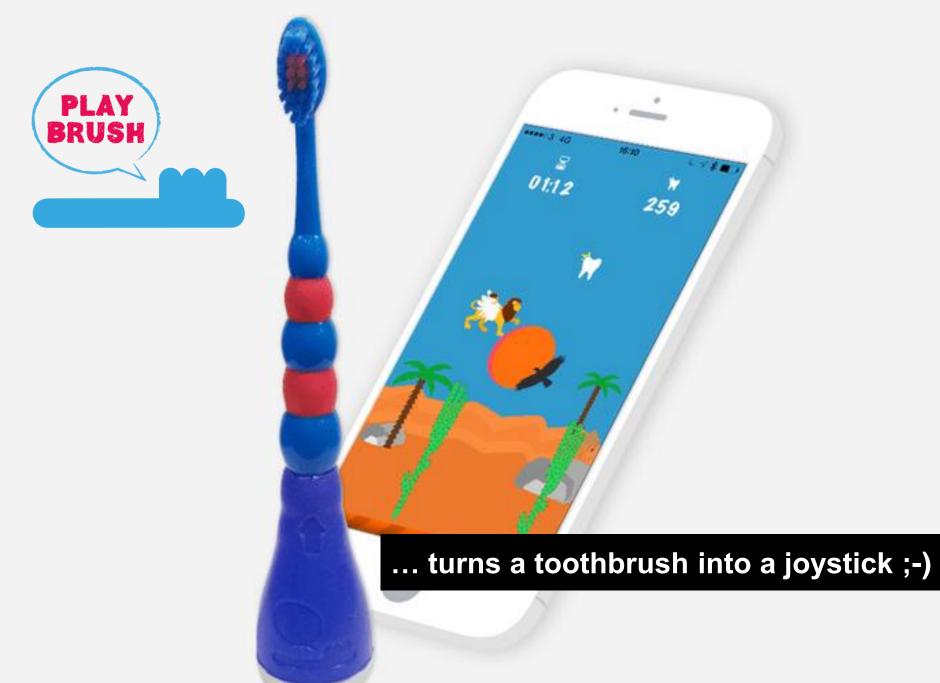


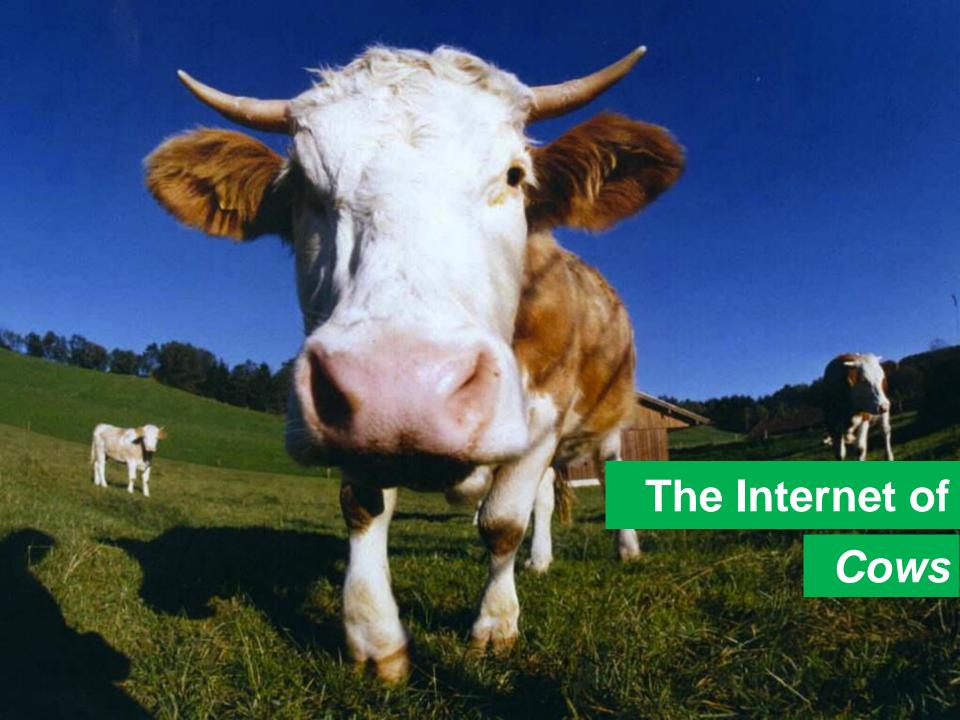




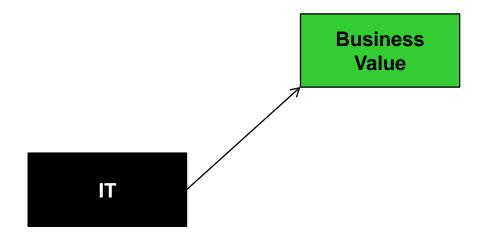




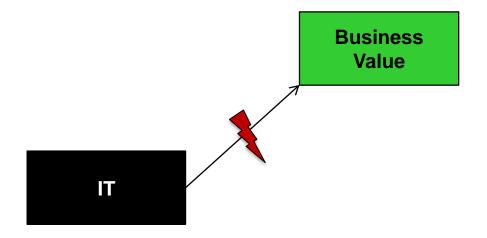




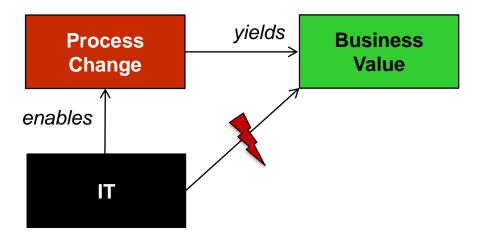
How to create business value from digital technology?



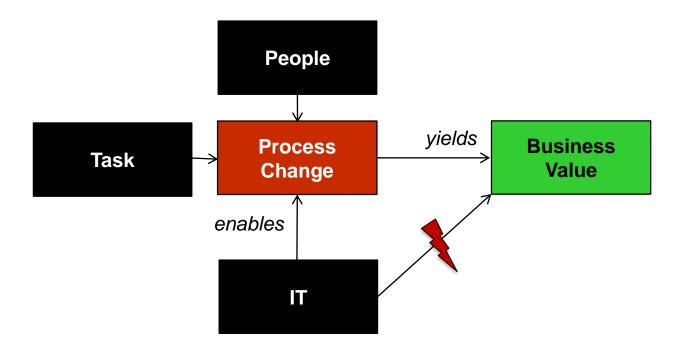




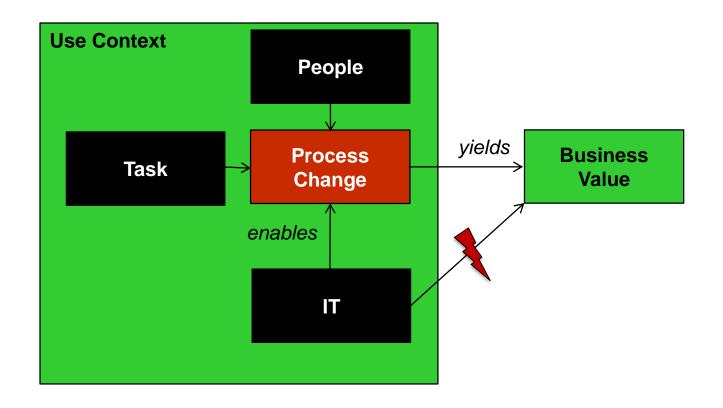






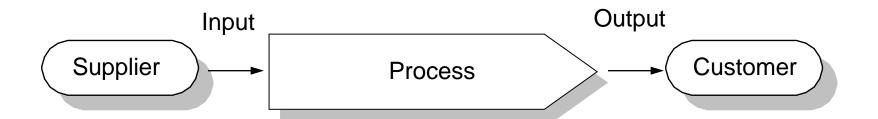




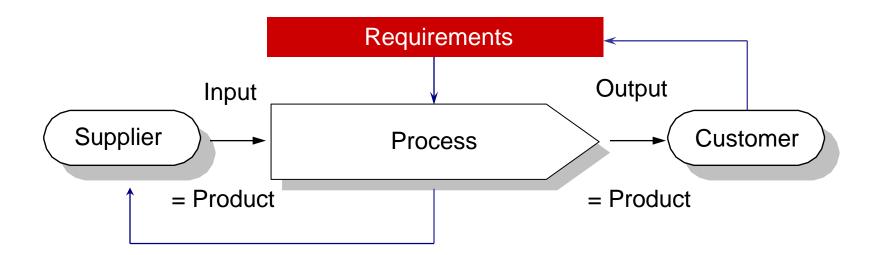




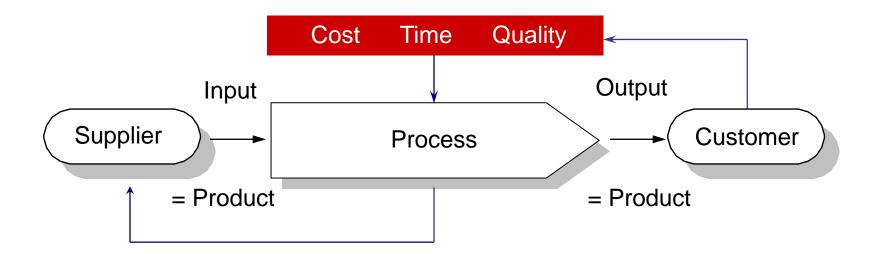
What is a process?



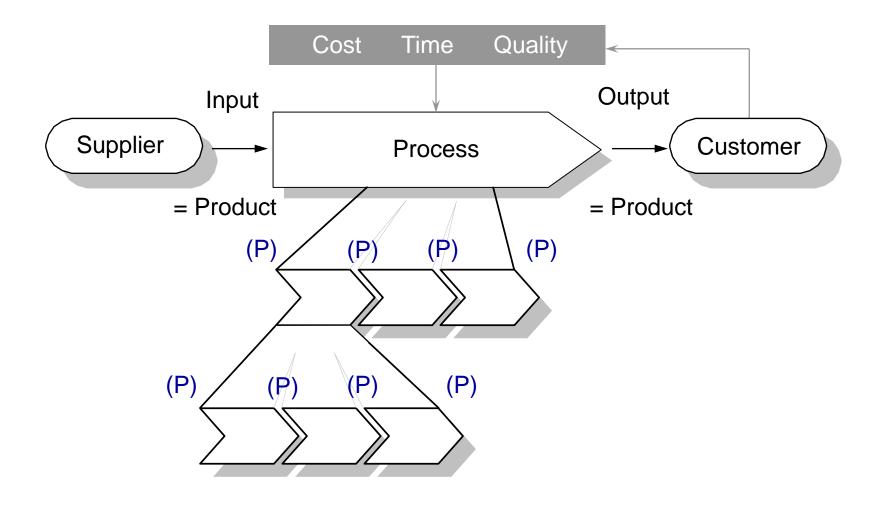














What is BPM?

Modelling





Information Technology





Performance Measurement



Culture

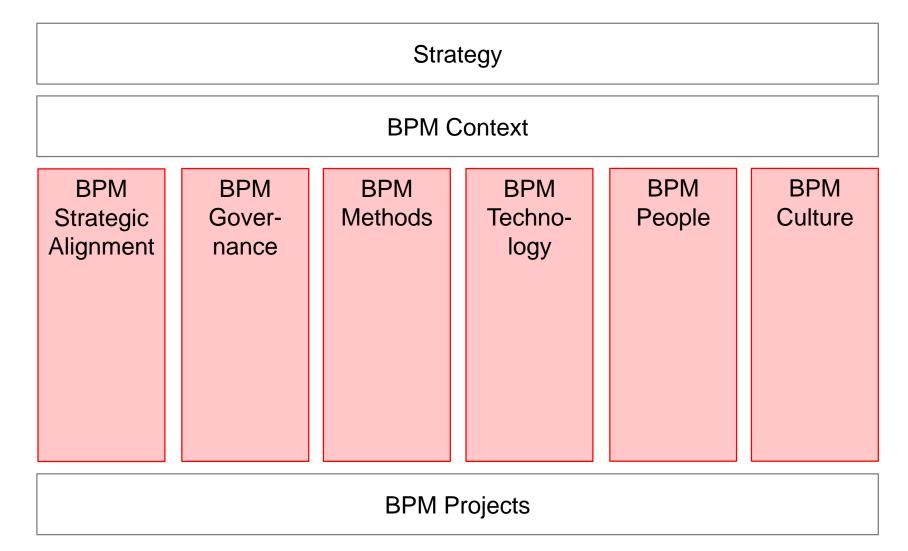




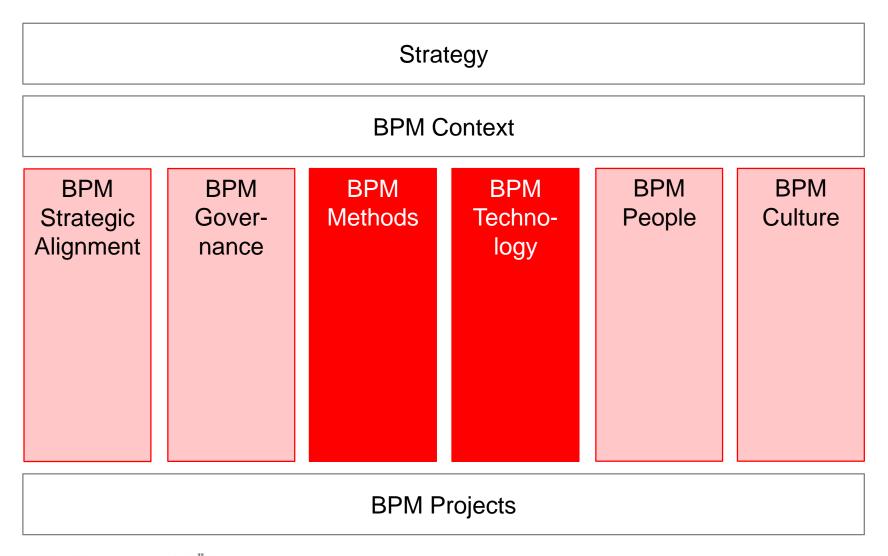
Business Value



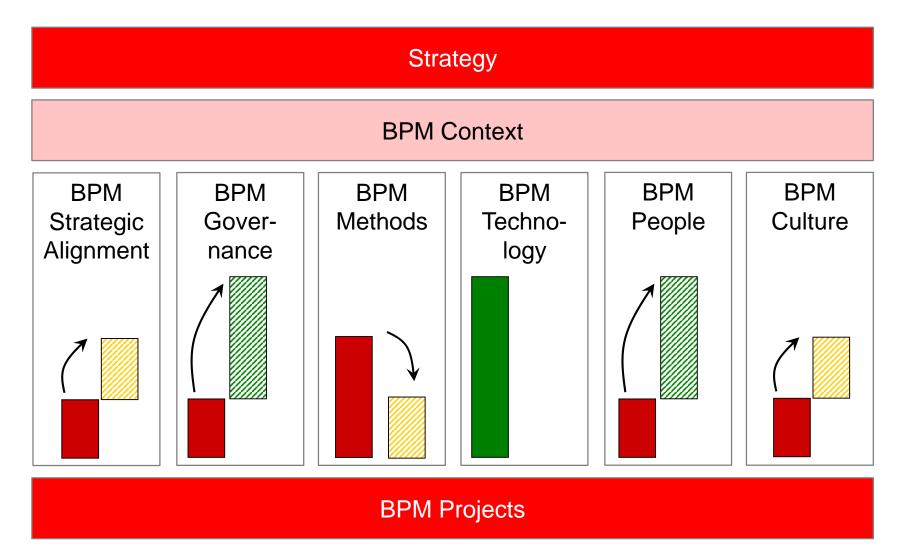














International Handbooks on Information Systems

Jan vom Brocke
Michael Rosemann Editors

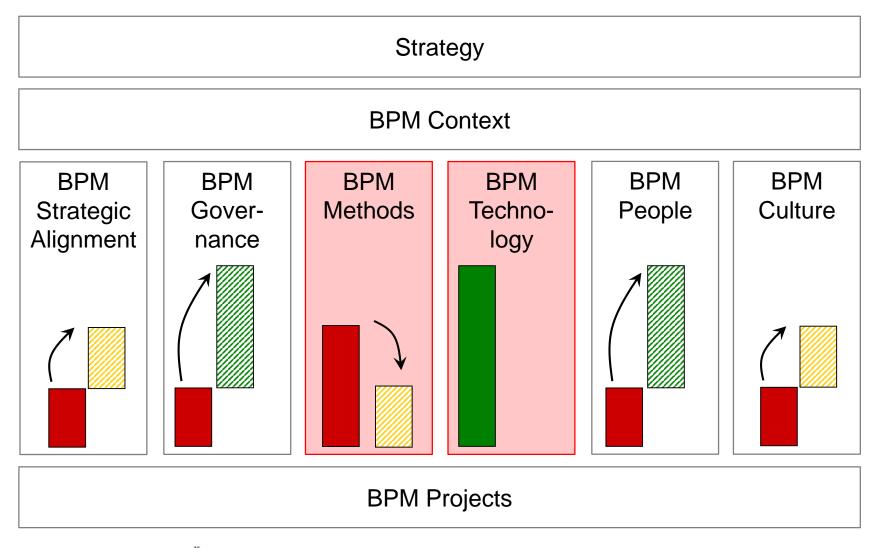
Handbook on Business Process Management 1 & 2

2nd Edition



www.bpmhandbook.com

- Covers all six elements
- On 1.700 pages
- By 121 authors
- Including authors, such as Michael Hammer, Tom Davenport
- Cases from leading companies, such as Hilti, SAP, Lufthansa
- 1st edition 2010
- 2nd edition 2015
- Top 25% of Springers eBook Collection
- Translations to Portuguese-> Russian? ;-)





66

Data is the new oil"

Clive Humby



Data is the new oil. It's only useful when it's refined!

Jess Greenwood, Contagious







Customer Care Note (CCN)





Customer Care Note (CCN)





Customer Care Note (CCN)

Topic 01	
uzm	0.12
nicht	0.11
sendung	0.06
zugestellt	0.05
info	0.04
abc	0.03
referenz	0.03
zustellung	0.03
empfänger	0.03
xyz	0.03

Topic 02	
says	0.14
rtm	0.11
failed	0.11
drs	0.11
pickup	0.11
not	0.04
arrived	0.03
adapter	0.02
nobody	0.02
reached	0.02

Topic 03	
nicht	0.12
kunde	0.07
passen	0.02
kartusche	0.02
braucht	0.02
kein	0.02
bekommen	0.02
falsch	0.02
auspressgerät	0.01
bestellt	0.01

Topic 04	
erhalten	0.09
nicht	0.09
rechnung	0.08
auftrag	0.08
kunde	0.07
gutschrift	0.06
zurück	0.03
schicken	0.03
mail	0.02
vb	0.02

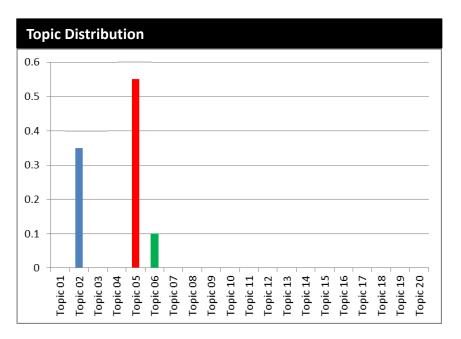
Topic 05	
maintenance	0.2
te	0.0
customer	0.0
fleet item	0.0
fleet mgnt	0.0
vc	0.0
item	0.0
fleet	0.0
dd	0.0
number	0.0

Topic 06	
article	0.14
price	0.12
items	0.10
number	0.08
euro	0.06
wrong	0.06
pos	0.05
net	0.04
right	0.04
agreement	0.03





Customer Care Note (CCN)



Topic 01	
uzm	0.12
nicht	0.11
sendung	0.06
zugestellt	0.05
info	0.04
abc	0.03
referenz	0.03
zustellung	0.03
empfänger	0.03
xyz	0.03

Topic 02	
says	0.14
rtm	0.11
failed	0.11
drs	0.11
pickup	0.11
not	0.04
arrived	0.03
adapter	0.02
nobody	0.02
reached	0.02

Topic 03	
nicht	0.12
kunde	0.07
passen	0.02
kartusche	0.02
braucht	0.02
kein	0.02
bekommen	0.02
falsch	0.02
auspressgerät	0.01
bestellt	0.01

Topic 0	4
erhalten	0.09
nicht	0.09
rechnung	0.08
auftrag	0.08
kunde	0.07
gutschrift	0.06
zurück	0.03
schicken	0.03
mail	0.02
vb	0.02

Topic 05	
maintenance	0.21
te	0.09
customer	0.06
fleet item	0.05
fleet mgnt	0.04
vc	0.03
item	0.03
fleet	0.03
dd	0.03
number	0.02

Topic 06	
article	0.14
price	0.12
items	0.10
number	0.08
euro	0.06
wrong	0.06
pos	0.05
net	0.04
right	0.04
agreement	0.03

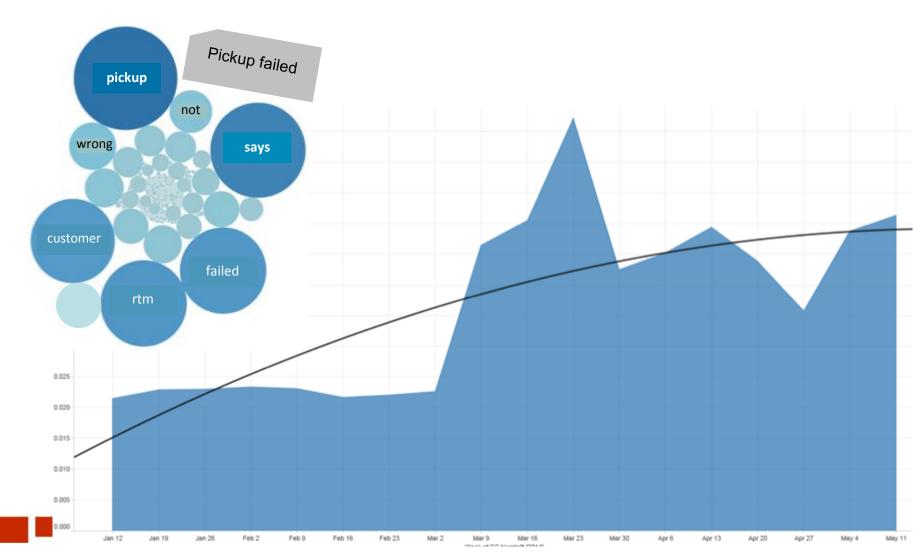






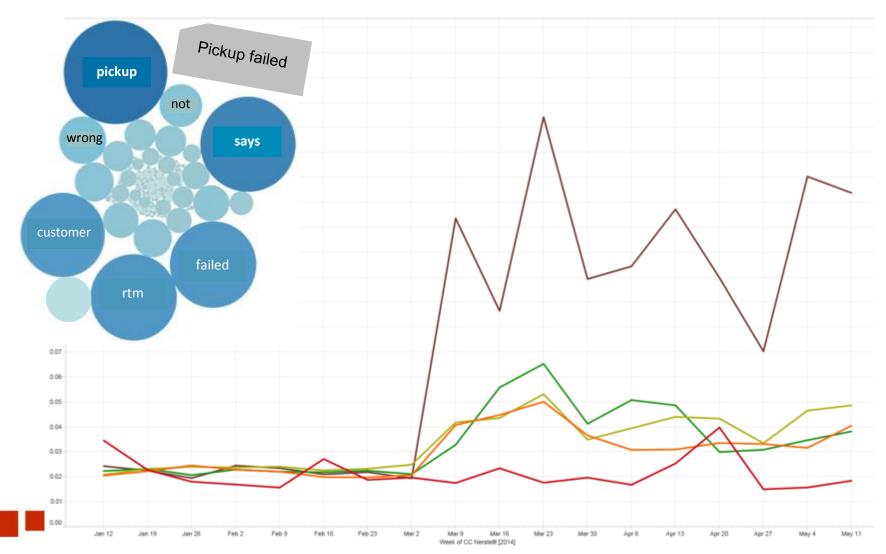






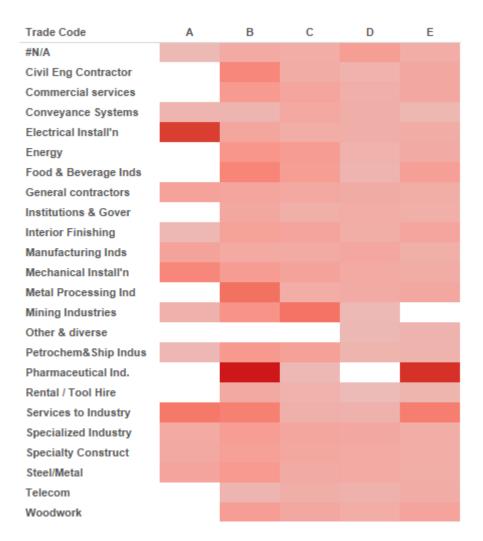
Source: Müller, Junglas, Debortoli, vom Brocke, MISQe (2016)





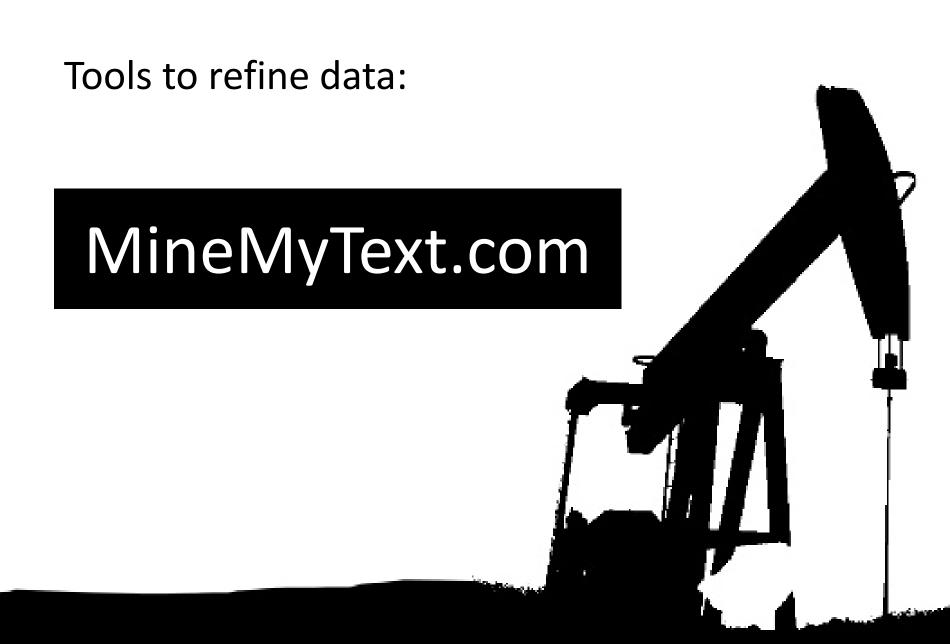






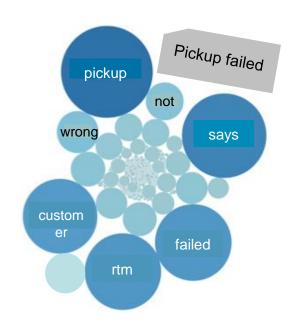


Whow to do this?



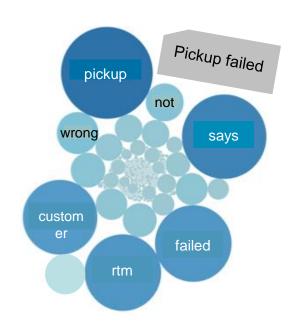
MineMyText.com - Suite

1. Upload Data 2. Set Parameters 3. Get Results



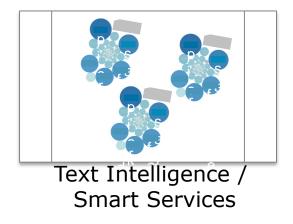
MineMyText.com - Suite

1. Upload Data 2. Set Parameters 3. Get Results



MineMyText.com - API

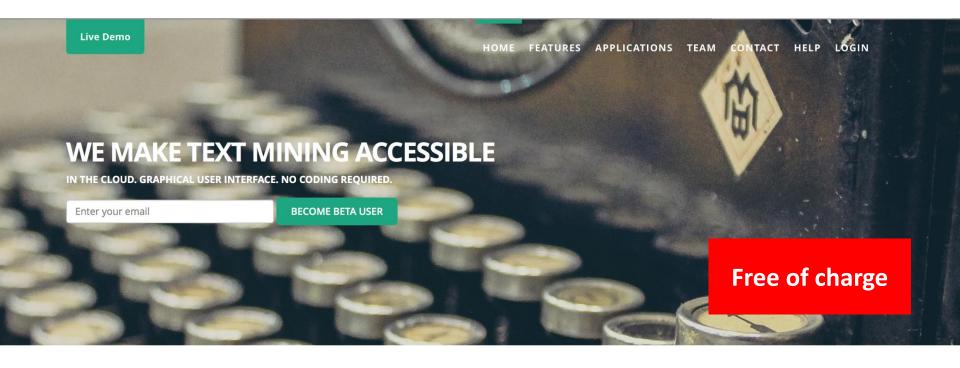
1. Call API



2a. Process Optimization

2b. Process Innovation

MineMyText.com



TOPIC MODELING

Discover topics running through large collections of unstructured texts in a completely automated, data-driven manner.

SENTIMENT ANALYSIS

Quantify the positive and negative emotions expressed in texts. Observe the temporal dynamics of the emotions.

NATURAL LANGUAGE PRE-PROCESSING

Clean noisy texts through stopword removal, n-gram analysis, parts-of-speech tagging, stemming, and lemmatization.

VISUALIZATION

Visualize topics and sentiments in intuitive ways. Observe the emergence of new topics and apply drill down and filter options.

API AND WIDGETS

Manage your analysis via APIs and embed the results in the frontend tool of your choice with our selection of widgets.

The data-driven company

R&D by "Customer Feedback" at Starbucks







Management by "Customer Feedback" at AVIRA





Lessons learned

 In order to generate value through digital technology you need to innovate processes through digital technology

© Prof. Dr. Jan vom Brocke

- Business Process Management is a rich field with fantastic job opportunities
- BPM is about innovative technology, methods, governance, strategic alignment, people and culture





Study Further Education Research Transfer Liechtenstein University

Master's degree programme in Information Systems (MSc)









