

Blue Yonder

MCNet meeting November 2016

blueyonder



Leading SaaS
provider of machine
learning applications
in retail

Decisions beat
insights, any time.

Prof. Dr. Michael Feindt - Founder of Blue Yonder



We believe that 99% of all
business decisions can be
automated.

99%



Italian Peppers
2.99

Hot Peppers
2.99

Peppers
2.99

Italian Peppers
2.49

Pickling Peppers
1.49

Peppers
1.99

Green Peppers
1.99

Multi-Color Peppers
3.99

Green Beans
3.99

Eggplants
2.99

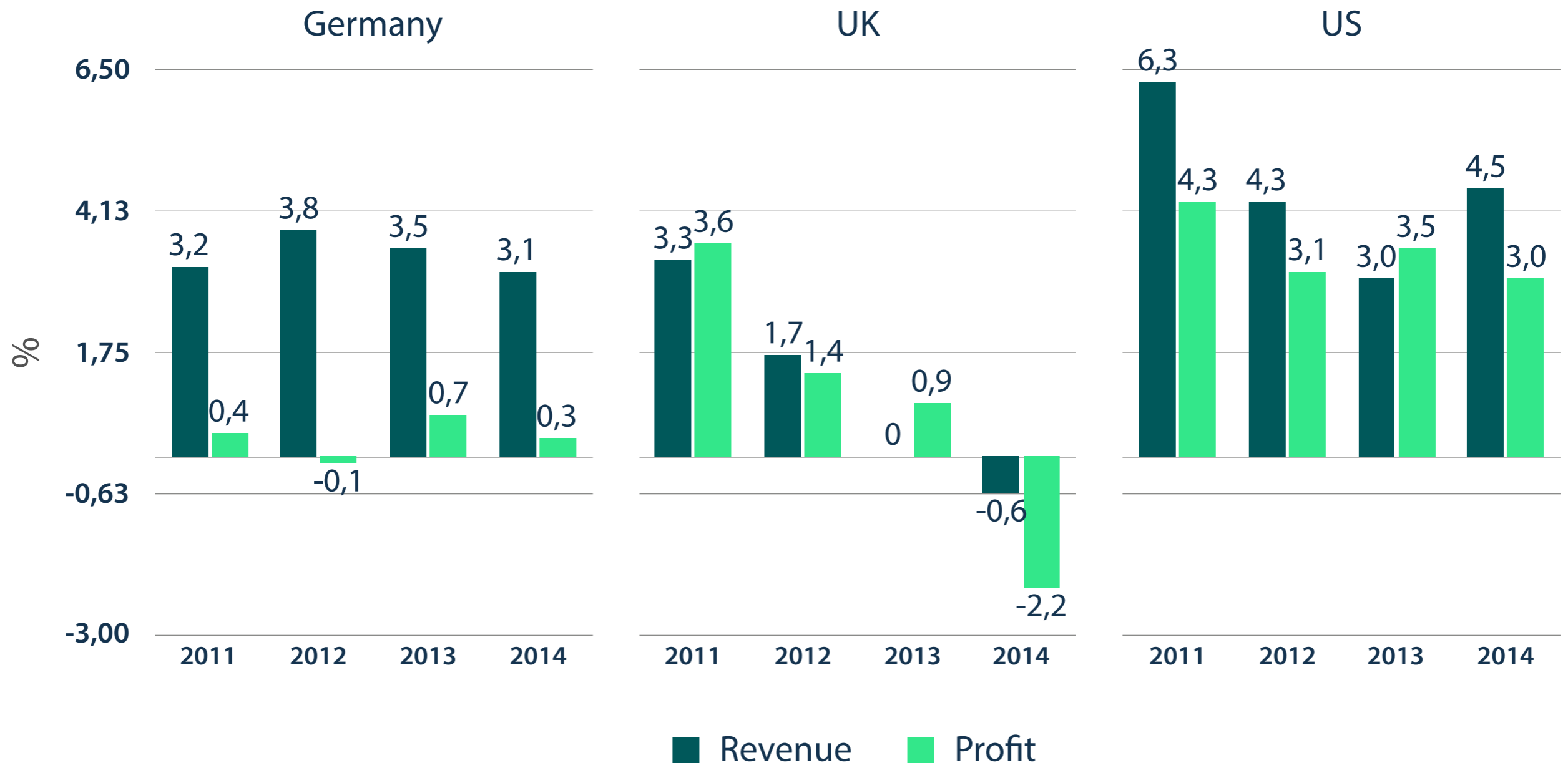
Red Peppers
3.99

Yellow Peppers
3.99

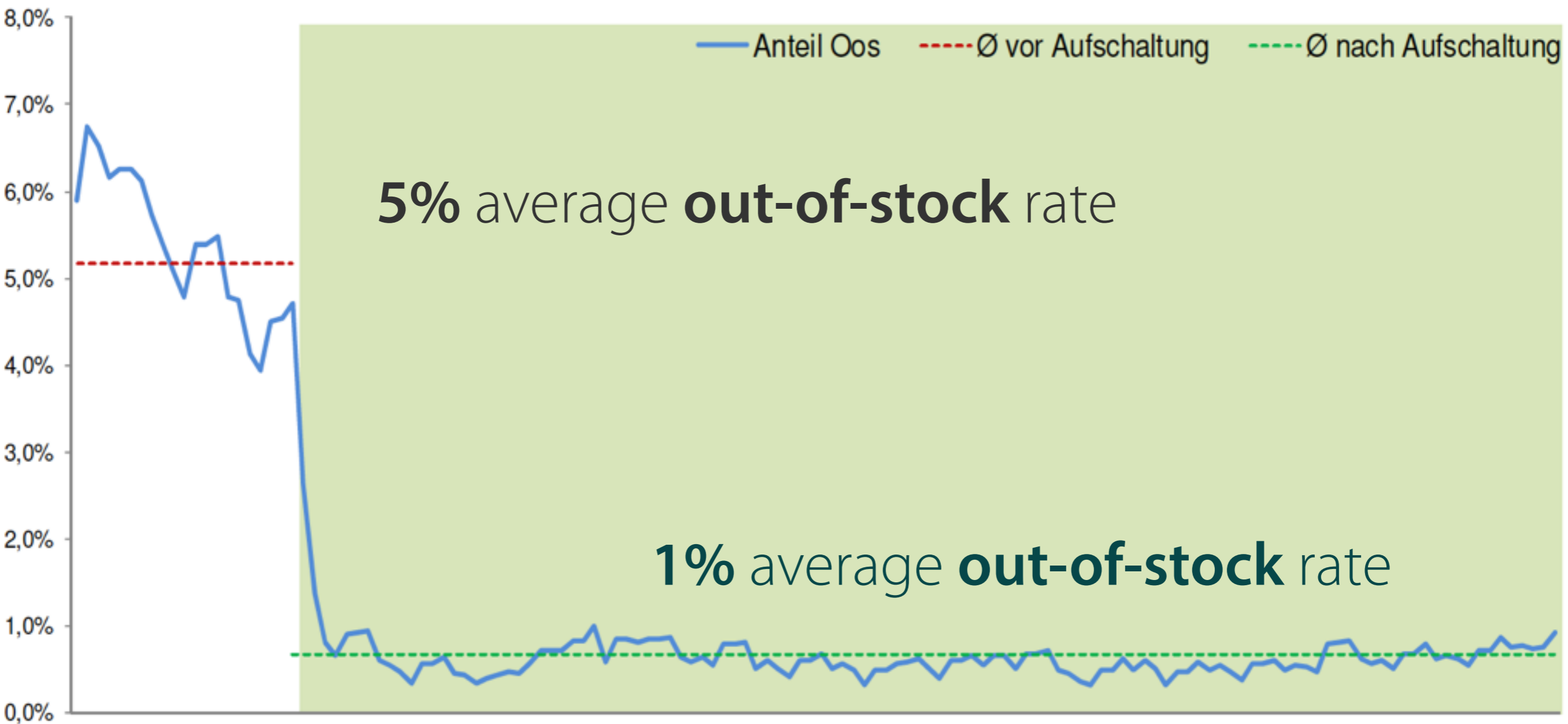
Orange Peppers
3.99

Yellow Squash
3.99

Blue Yonder serves the hyper-competitive retail market



Automation leads to better results



Our Stack



We offer APIs via python web applications for our customers to send us their data and retrieve results

Data is stored in in-memory columnar databases

Machine Learning models in python process these data in a communication-efficient distributed memory implementation



Studentship topics

Most probably work on open source projects

Avoid discussions about intellectual property of the results

Collect credits in the currency for future employment

Warehouse-Scale computing

Your datacenter as a computer

DevOps for Data Scientists

High-availability

Performance



Apache
MESOS™



Apache
AURORA™

Efficient Data Access

Parquet format to store
columnar data

Access relational databases
from python with turbodbc



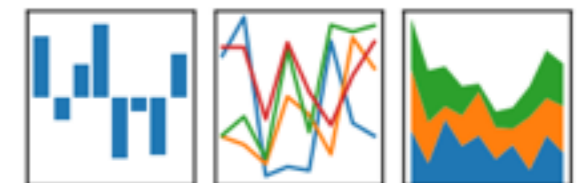
Python productivity tools

Apache Airflow used to automate daily operations



Jupyter notebooks for interactive work

pandas
 $y_{it} = \beta' x_{it} + \mu_i + \epsilon_{it}$



Pandas for „data-wrangling“

Flask + SQLAlchemy for web applications



Use the opportunity for direct contact while I am on site!

Dr. Manuel Bähr

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