



KONUX – Transforming Industrial Operations with AI and IoT

Münchener Kreis - Data Analytics

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“In an AI first world we are rethinking all our products and apply machine learning and AI to solve user problems. We are doing that across every one of our products”.

- Sundar Pichai, CEO Google



The Case of an... Internet Company

Frequently seen misperception

Shopping mall + website ≠ internet company

Typical characteristics of a genuine example (excerpt)

A/B testing

Short sale cycles

Decision making by engineers / product managers

The Case of an... AI Company

Frequently seen misperception

Traditional tech company + neural networks ≠ AI company

Typical characteristics of a genuine example (excerpt)

Data acquisition strategy

Unified data store

Pervasive automation

The Winning Formula: Achieving Self-Amplification

By Closing the Loop, Tremendous Momentum Can Be Gained

A sophisticated and application-centric **Data Acquisition Strategy** is the foundation for building any data-based product.

Enabled by this, hypotheses can be transformed quickly into truly groundbreaking **Products**.

Through showing the **Customer** immediate benefit, trust is built to further engage and expand the data acquisition.

In turn enabling even more advanced products, leading to even more customer value.



1. Phase AI for ... Real World Recognition

For interfacing machines with the real world
From unstructured analog to digital useful information

2. Phase AI for ... Business Model Innovation

Leveraging new structured information for BM innovation
Generate new value that was not do able before



Let's Bring It
To The Real World!



9,000,000



12%



20%

Lack of insights into the condition of assets causes losses of millions of dollars every year



High Maintenance Costs

Frequent and often unnecessary manual inspections are very expensive and do not support failure traceability.



Low Network Capacity

Unforeseen downtimes disrupt the efficient routing of traffic, resulting in penalties and revenue suffer.



High Capital Expenditures

Premature replacement of healthy assets results in unnecessary high yearly CAPEX.

Moving Into a Smarter and More Efficient Future with the help AI



100%

Automated Inspections

No more manual routine inspections thanks to full automatization.

100%

Punctuality

Passengers and freight arrives always on time and infrastructure related delays are of the past.

100%

Asset Utilization

Components will never again be replaced before it is actually needed.

Technology Stack to Make The Future Reality

Act

The user-friendly interface visualizes asset condition and recommends optimal maintenance actions.

Analyze

Algorithms using artificial intelligence detect anomalies and predict failures.

Connect

Data is transmitted to the cloud and stored collectively.

Measure

Problem-relevant parameters from multiple sources are measured.

Data
Visualization



Data
Analytics



Data
Fusion



Data
Generation

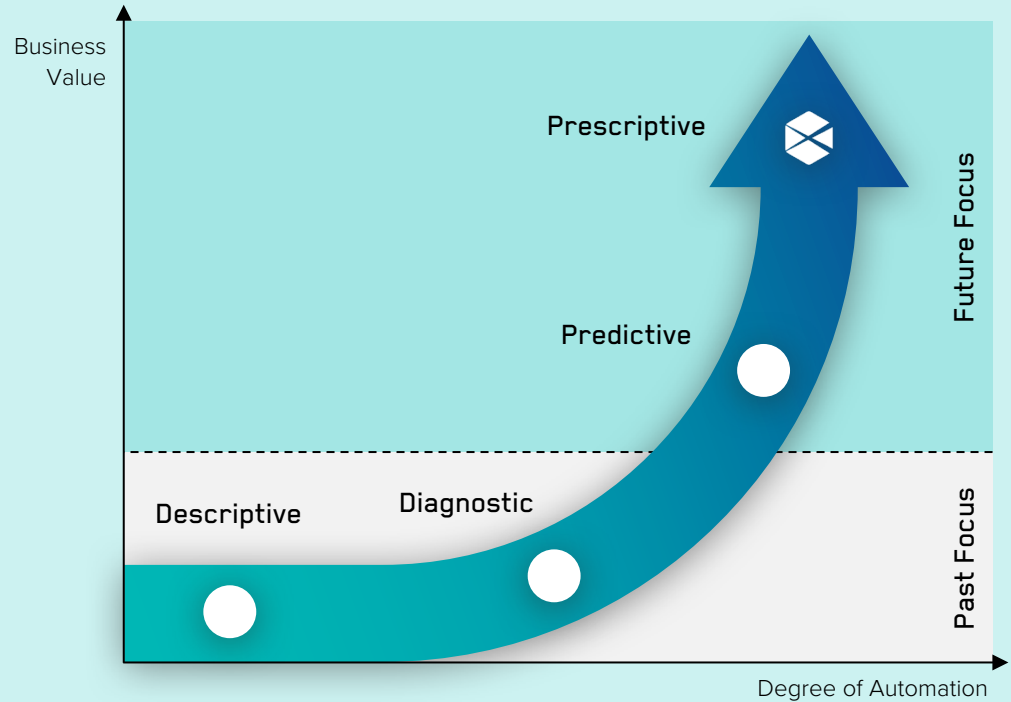


Taking Maintenance Analytics one Step Further

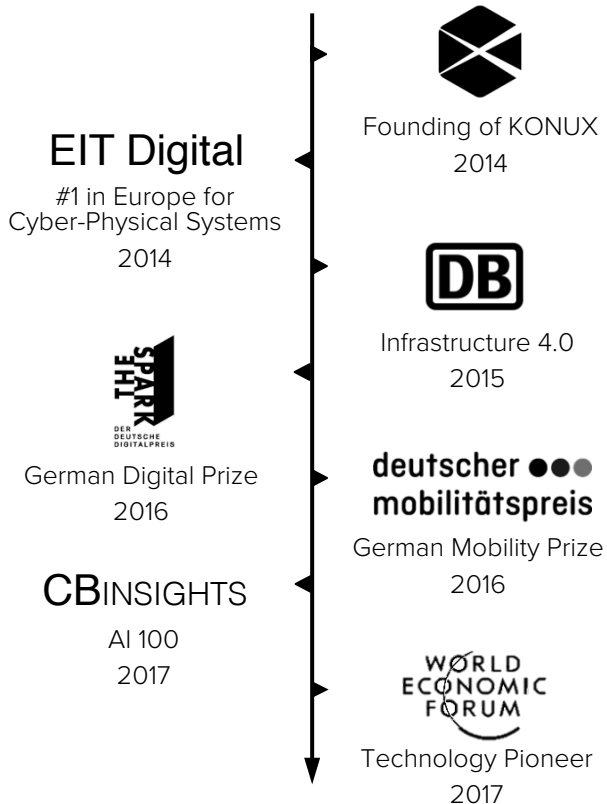
Prescriptive Analytics

Not only is the remaining useful life of an asset predicted, also the required actions to take to optimize the outcome for the business are prescribed.

The optimal plan of maintenance actions describes the best trade-off between the costs of running to failure versus the cost of “too early” preventative maintenance – hence prescribing the optimal action to be taken in response to future asset failures.



The Leading Team Behind KONUX's Mission



KONUX Management Team



Andreas Kunze
CEO & Co-founder



Vlad Lata
CTO & Co-founder



Dennis Humhal
COO & Co-founder



Max Hasler
CFO



Dr. Christian Brandlhuber
VP Engineering



Yvonne Hofstetter
VP Product



Dr. Thomas Kolar
VP Customer Success



Dr. Jonathan Paddison
VP Sales

Board of Directors



Michael Baum
Founding CEO Splunk



Dr. Sören Hein
f. VP of Technology Infineon



Dr. Greg Papadopoulos
f. CTO of Sun Microsystems

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Dr. Torsten Kreindl
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Dr. Dieter Wilhelm
f. Board Knorr-Bremse



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