SPONSORS

BECKHOFF

Kepware TECHNOLOGIES

NOVOTEK

KLINKMANN

MatrikonOPC

NESTEJACOBS

PROSYS OPC

Unified Automation

Valmet FORWARD

VTT

TO ERR IS HUMAN,

TO IMPROVE

IS NAPCON.

Andreas Frejborg, Technical Sales Manager, NAPCON
andreas.frejborg@nestejacobs.com

NAPCON

SPEAKER

Andreas Frejborg has 20 years of experience in real time information. He has deep knowledge in design, configuration, testing and commissioning real time information system. Furthermore Andreas has acted as Project Manger and Project Lead in several real time information related projects ranging from study phase to execution. For the past years Andreas has acted as advisor to several clients in their efforts to push digitalization of their process to the next level.

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NESTE JACOBS
Personnel
1300
No. 1
Engineering Company in Finland on Industry Sector*
No. 2
Engineering Company in Finland measured on Exports*
Customers
100% ready to use us again.
* Source: SKOL Statistics and Customer survey 2015

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CUSTOMER SEGMENTS

Biopharma

Food Industry

Biochemicals

Biorefining

Petroleum Refining

Petrochemicals

Gas

Natural Gas – Biogas - LNG

Industrial Infrastructure

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OFFICES

NAPCON

OUR FOCUS AREAS

BUSINESS
OPTIMIZATION

PRODUCTION
OPTIMIZATION

BIG DATA

QUALITY
OPTIMIZATION

ENERGY
EFFICIENCY

ENVIRONMENT

SAFETY

LOGISTICS

NAPCON

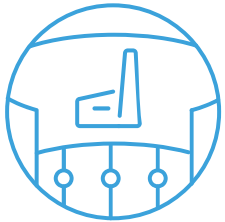
OUR PRODUCTS

UNDERSTAND

NAPCON Understand solutions will turn the data provided by your plant into relevant information that help optimize your company's production.

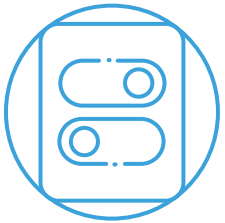
IMPROVE

NAPCON Improve solutions will bring out the maximum potential of your operations and help you ensure that your investments meet your strategic goals.



TRAIN

NAPCON Train solutions will bring the real life plant into the virtual world, making training operators and testing the limits of your plant safe and exciting.



DECIDE

NAPCON Decision support enables you to make the right decisions, even in complex conditions.

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NAPCON INFORMER

KNOWS IT ALL.

NAPCON INFORMER KEY FEATURES

AUTOMATION
Built-in information models that allow true system-to-system communication improving performance and scalability without requiring any human interface.

SAFETY
OPC UA technology that provides user authentication by certificates and enables cyber secure communication between server and client.

EFFICIENCY
Time series database (TSDB) enables efficient data handling that truly matches your needs.

STANDARDIZED
Standardized interface through OPC UA real-time database build on top of time series database with premium performance.

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NAPCON ANALYTICS IS
THE LINK BETWEEN DATA
AND REAL KNOWLEDGE.
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NAPCON ANALYTICS BENEFITS

INTELLIGENCE
NAPCON Analytics makes your existing operational and business intelligence systems even smarter.

EXPERTISE
We offer in-depth knowledge of industry specific calculations including calculation packages designed for process industry.

UNDERSTANDABILITY
NAPCON Analytics provides one coherent view of information.

RELIABILITY
Our solid experience of calculating models is fully at your service.

CUSTOMIZATION
We provide customizable, easily tailored solutions.

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PULLING THE INFORMATION OUT OF YOUR PROCESS INSTRUMENTS –

UTILIZE AVAILABLE OPC UA INFORMATION INTEGRATION

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A DIGITAL PLANT – WHAT WOULD BE THE ULTIMATE GOAL?

Key features of a modern digitalized plant

- Current state of plant is **transparent** and **visible** to every stakeholder
- Information gathered is transformed to **wisdom**
- Operations are **Cyber Secure** in every aspect
- Production is **Optimized** on every level of the Enterprise and Plant

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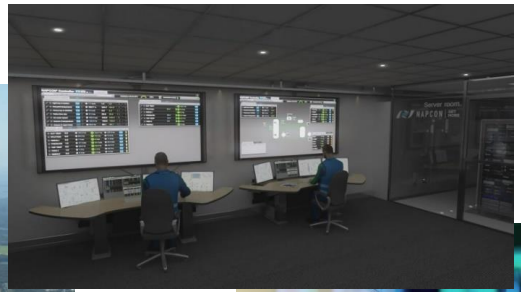
LETS TALK ABOUT INDUSTRIAL INTERNET OF THINGS INSTEAD



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HOW TO COMMUNICATE – THERE IS A PLETHORA OF WAYS TO DO IT

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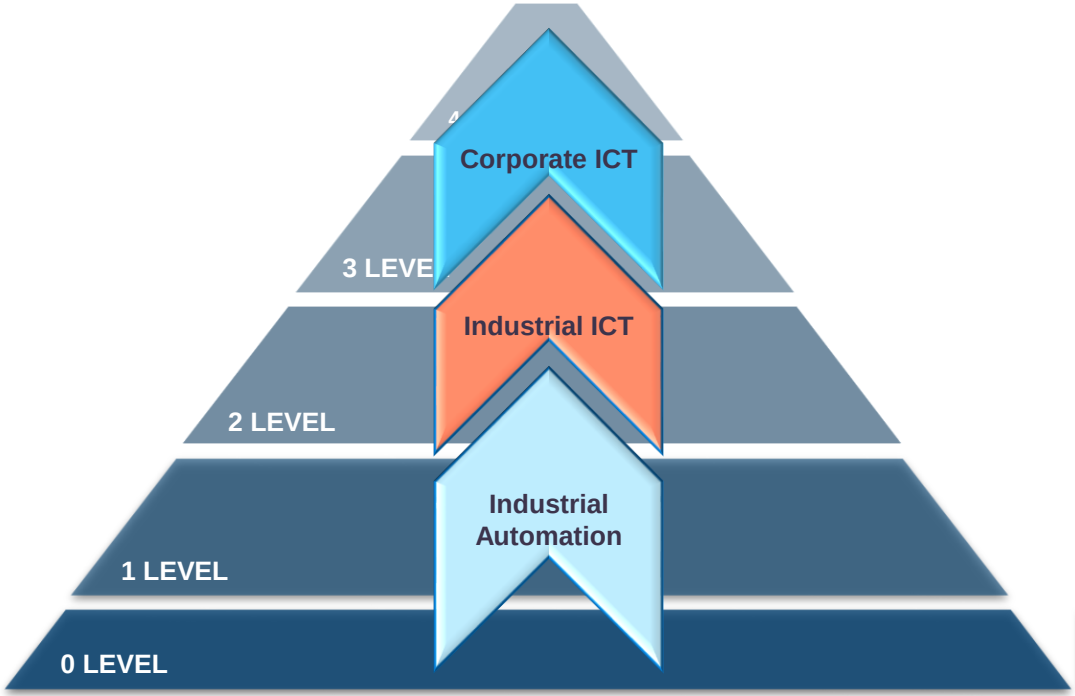
THE INFORMATION PYRAMID



4 LEVEL
ESTABLISH THE PLANT SCHEDULE - PRODUCTION, MATERIAL USE, DELIVERY AND SHIPPING
MTH
WK, D
ERP
PLM, CRM, HRM

3 LEVEL
WORKFLOW / RECIPE CONTROL, MAINTAINING RECORDS, OPTIMIZATION
SHIFT
H, MIN, S
MES
LIMS, WMS, CMMS

2 LEVEL
OPERATION, MONITORING, SUPERVISORY CONTROL AND AUTOMATED CONTROL
ms
SCADA
HMI, DCS, PLC

1 LEVEL
SENSING PRODUCTION PROCESS, MANIPULATING SAFETY
ms
SIS, I/O

0 LEVEL
PHYSICAL PRODUCTION PROCESS

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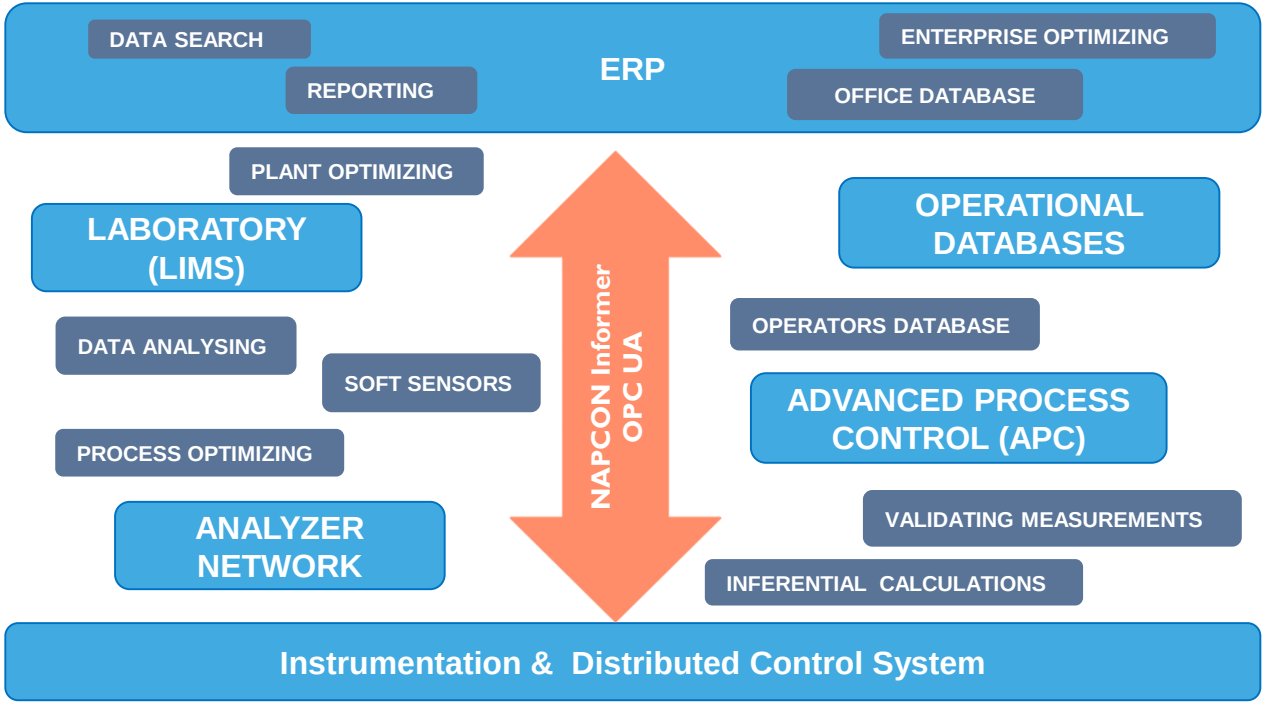
COMMON PROCESS INDUSTRY INFORMATION HIGHWAY



CERTIFIED FOR COMPLIANCE OPC FOUNDATION

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ANALYZER INTEGRATION IN

PROCESS INDUSTRY

CASE EXAMPLE

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HOW DO WE CONNECT TO A PROCESS ANALYZER?

Two ways to do it

The old fashion way with mA signal, by picking only those few needed for plant operations.

OR

Select an analyzer vendor that do OPC UA (with or without ADI) and one get all in no time!

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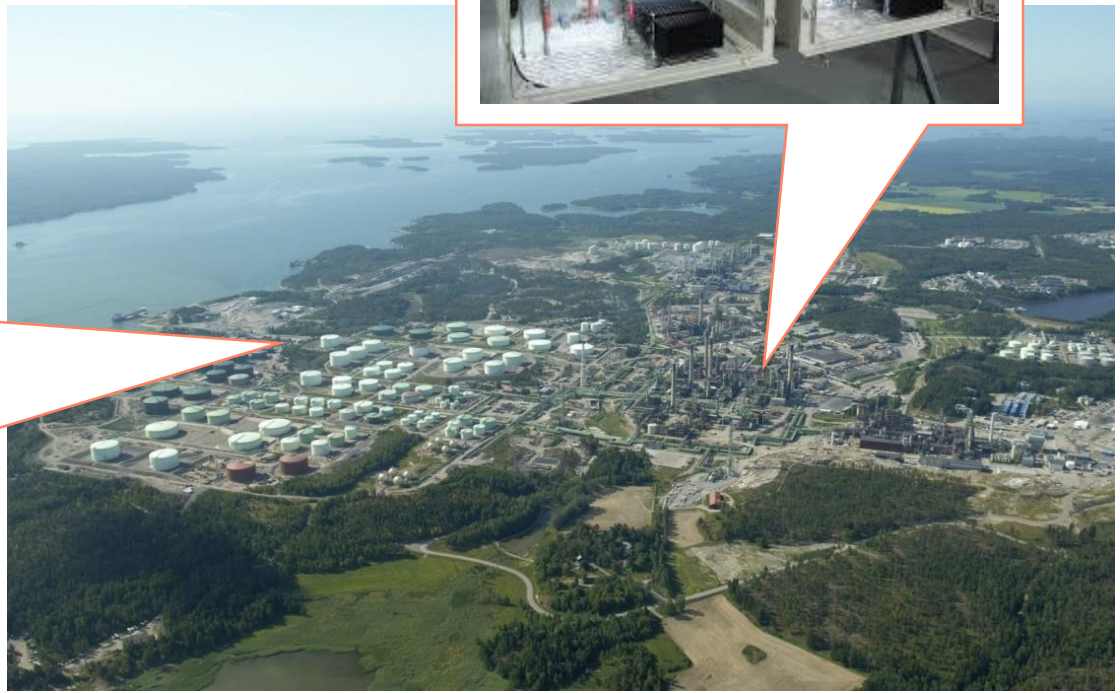
SOMETHING LIKE THIS…..



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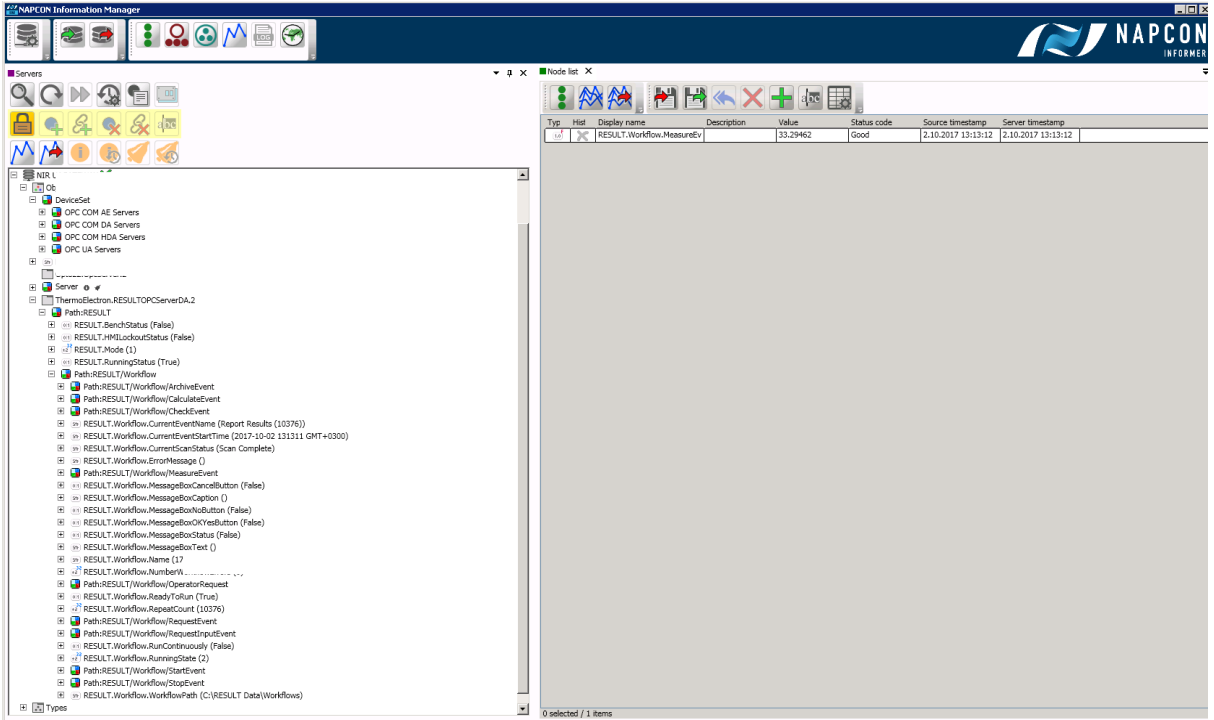
SO ONLY A FEW CLICKS AWAY

1. Browse up the analyzer
2. And start taking use of the information



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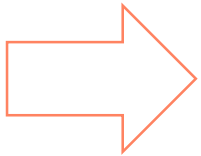
WHAT DID WE GET…?

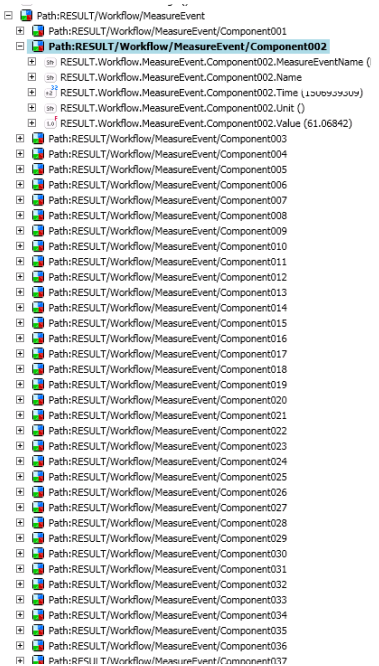
With a click

- 37 components
- Each containing 4 information points

Which makes

- **148 information points!!!**





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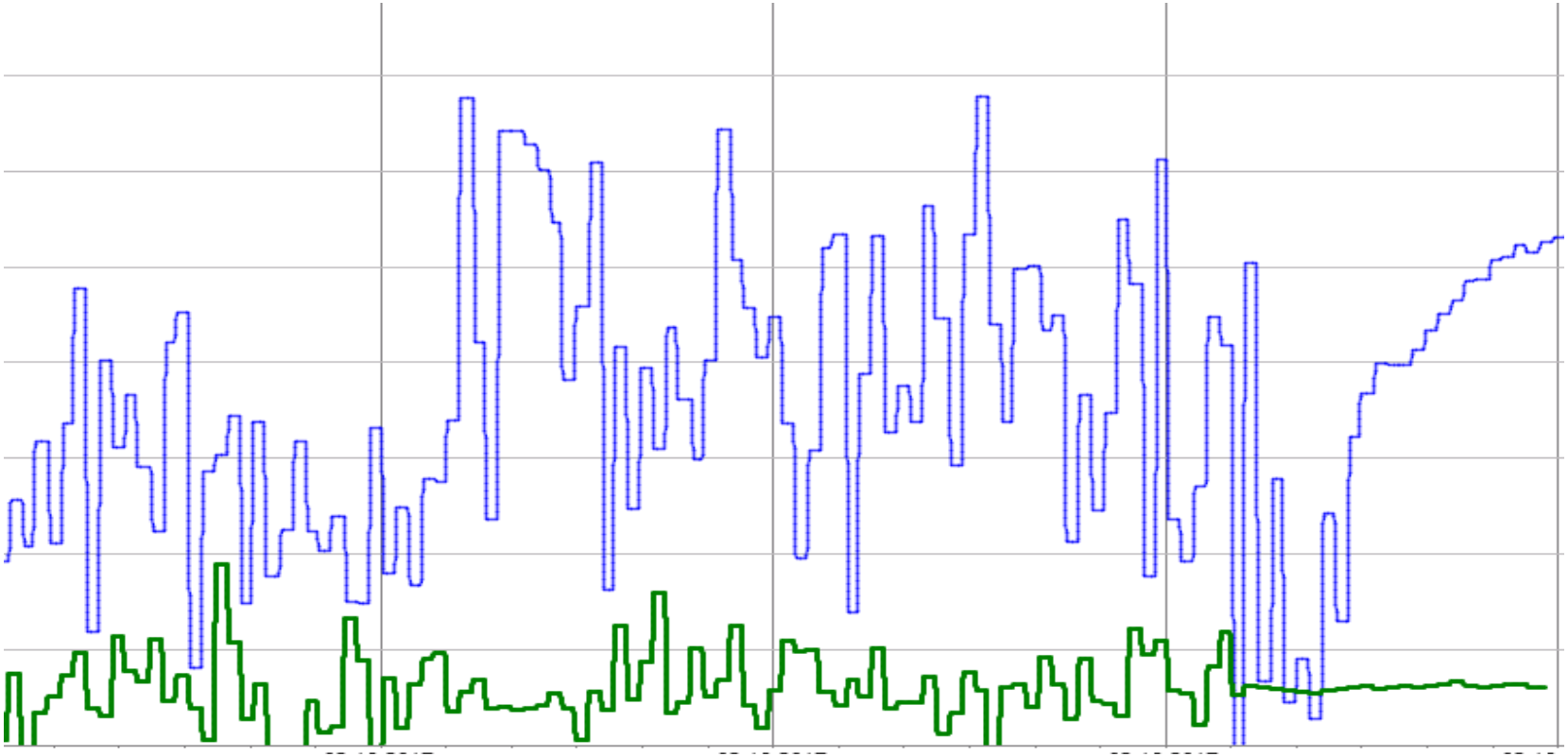
WHAT DOES IT LOOK LIKE?



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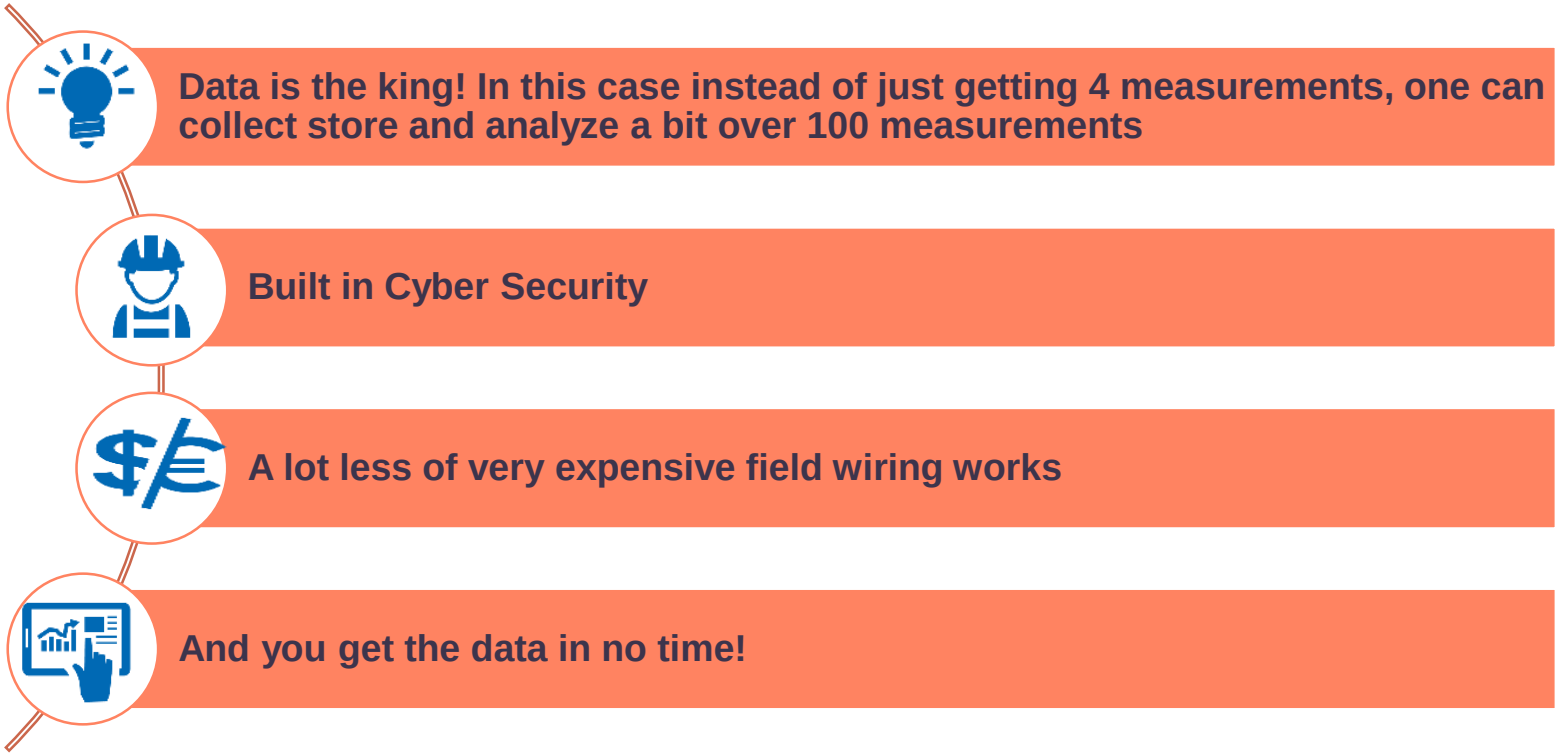
BENEFITS



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