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# Edge Data Store enables Industry 4.0 / IoT for SKAN Isolators

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**AVEVA**

# SKAN

Together always one step ahead

- Founded 1968; trading Scandinavian health products
- Currently 1000+ employees worldwide
- Headquarter in Allschwil, Switzerland
- Net sales (2021) > 200 mCHF

Global market and technology leader for

- Isolators
- Cleanroom devices
- Decontamination processes



# What we are standing for

- We support our customers in improving their products and manufacturing them even more **efficiently**
- Relying on our industry **expertise**, we collaborate with our customers to find the best solution for every application
- We act as a **reliable** partner for our customers and employees

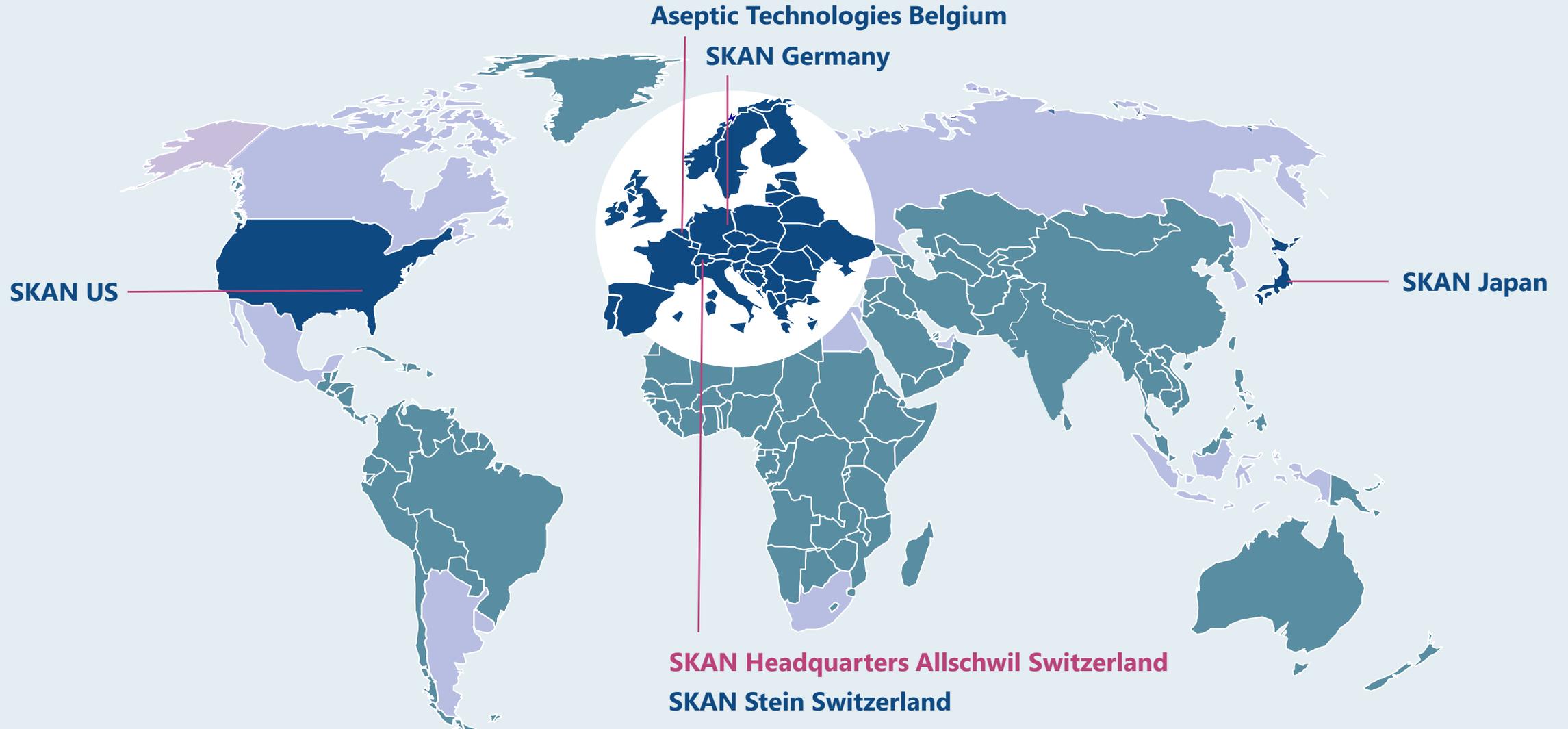


# Headquarter in Allschwil

- Center of Design and Research
- Sales and LifeCycle support
- Microbiolab to support GMP study and validate BI's
- Production of bio indicators
- Production / Assembling Hall
- PURE solution: Lab equipment sales and Services



# Global presence



- The design and development of process isolators for the aseptic filling of biopharmaceutical products is our core competency.
- Further
  - Process support
  - Services
  - Consumables
  - Digital Solutions



“... SKAN is implementing a number of Industry 4.0 initiatives such as the use of artificial intelligence for predictive maintenance.”

SKAN Annual Report 2021

# How to make great equipment even better?

- Our equipment is very reliable, but how can we make it perfect?
- What are the most common reasons for unplanned downtimes?

**We need data to learn how our products are performing in the field!**

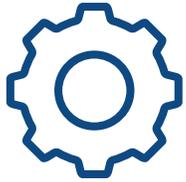
- SKAN is AVEVA Premier Partner

**We need to collect and analyze data on the edge!**



# The problem with collecting customer data

# Accessing the forbidden fruit – and getting away with it ;)



## Challenge

- Collect and analyze data from operational machines at customers production sites.



## Solution

- Edge Data Store, because it works on the edge without the need for a PI System or internet access, with EDS we can bring data-driven decisions to all our customers.



## Benefits

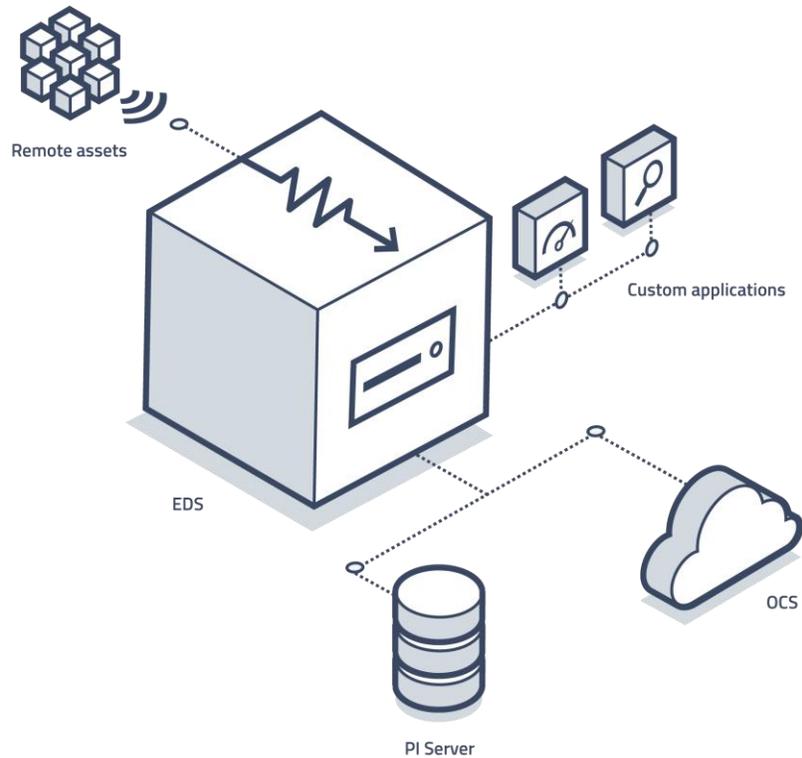
- Data-driven decisions on the edge, expandable to PI Systems and AVEVA Data Hub for site and fleet comparison.

### **Resulting in:**

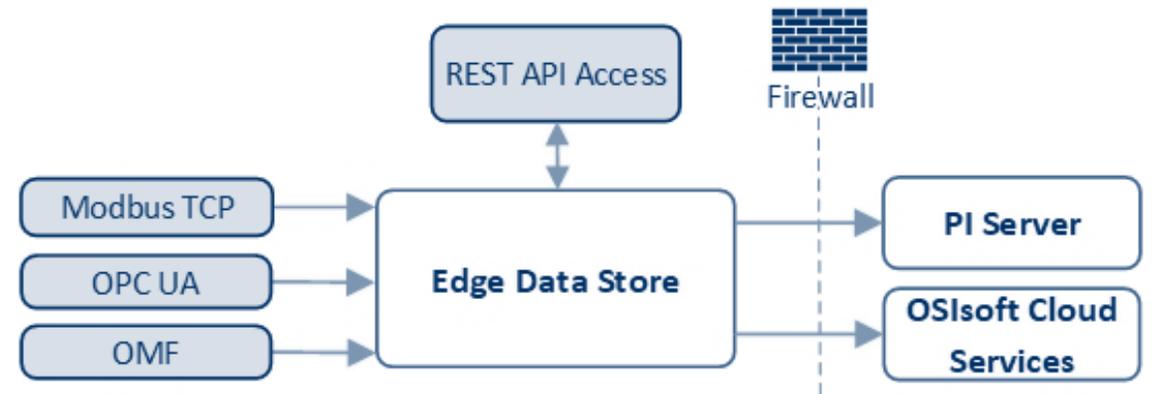
- Transparency of asset health status
- Robust operations
- Reduction of cost of non-quality
- And more!

# Edge Data Store – the perfect fit

# Edge Data Store – the perfect fit

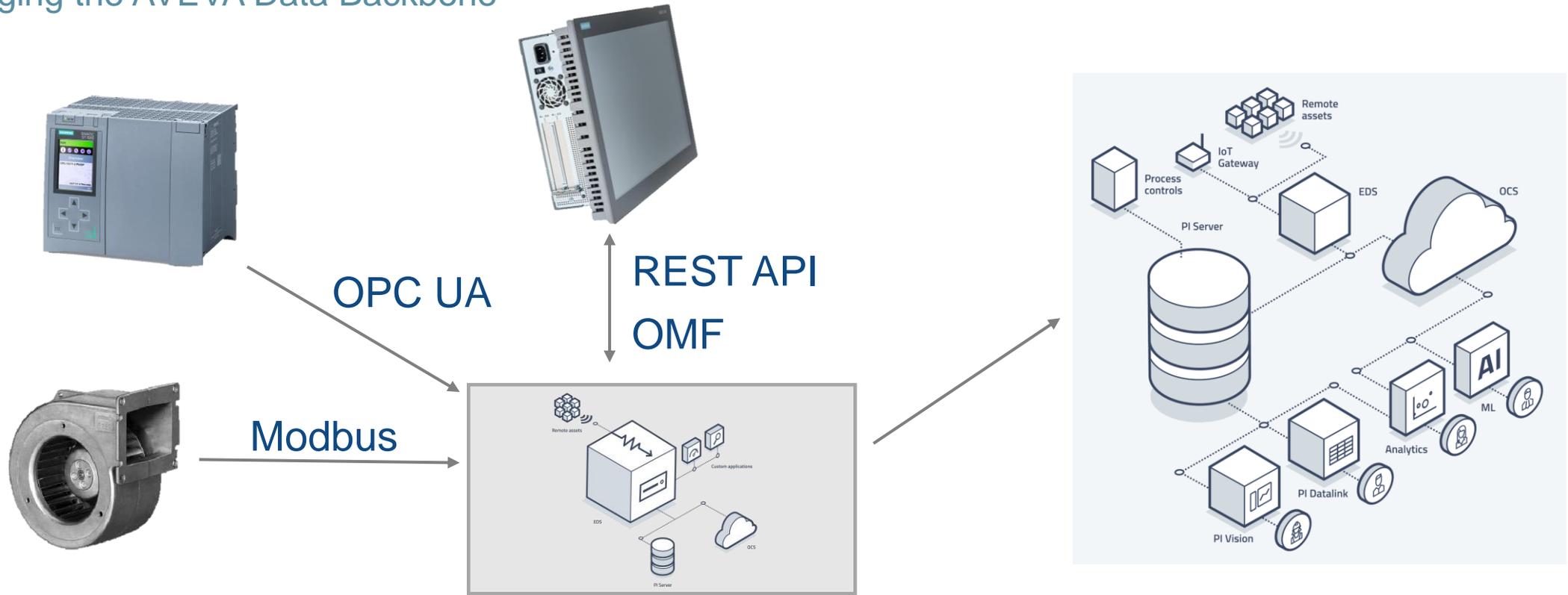


## Edge Data Store Conceptual Diagram



# EDS – evaluated with Lighthouse project

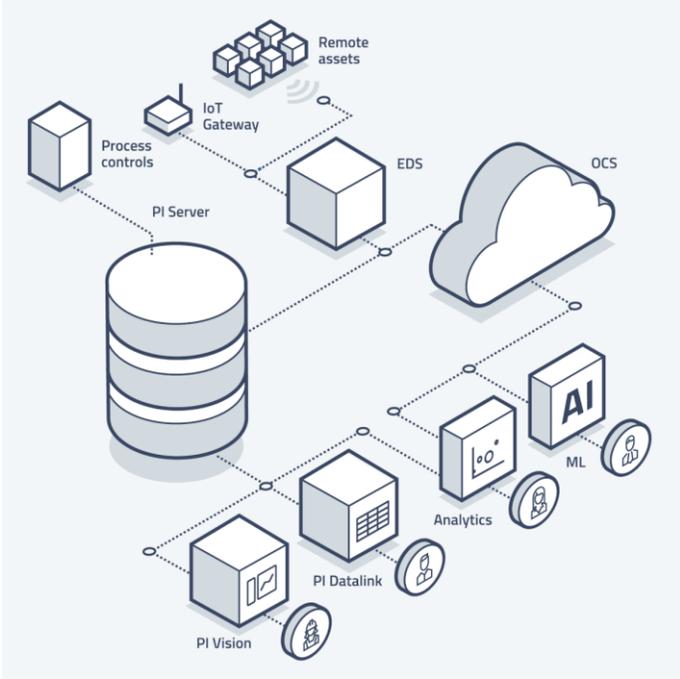
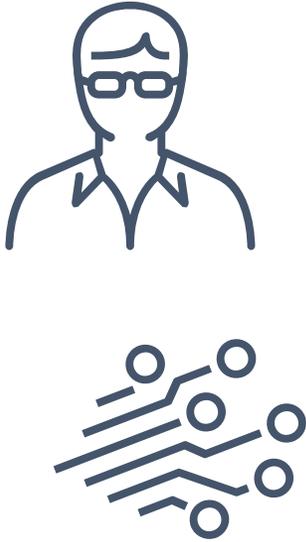
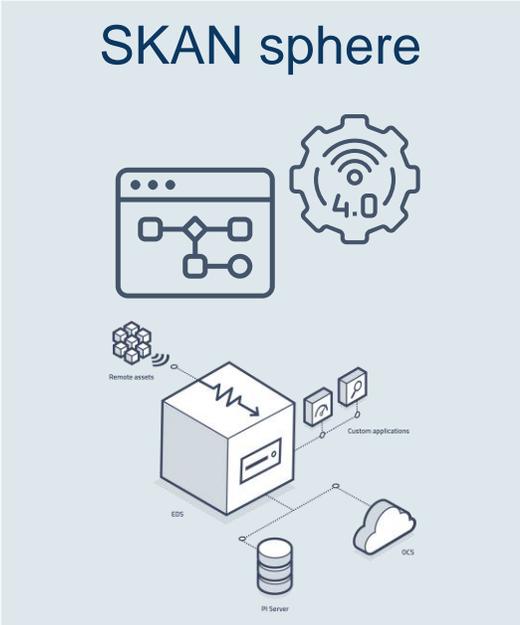
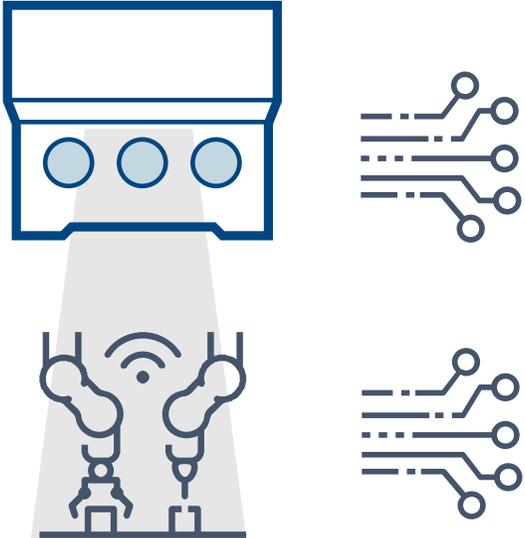
Leveraging the AVEVA Data Backbone



# How we use Edge Data Store for our advantage

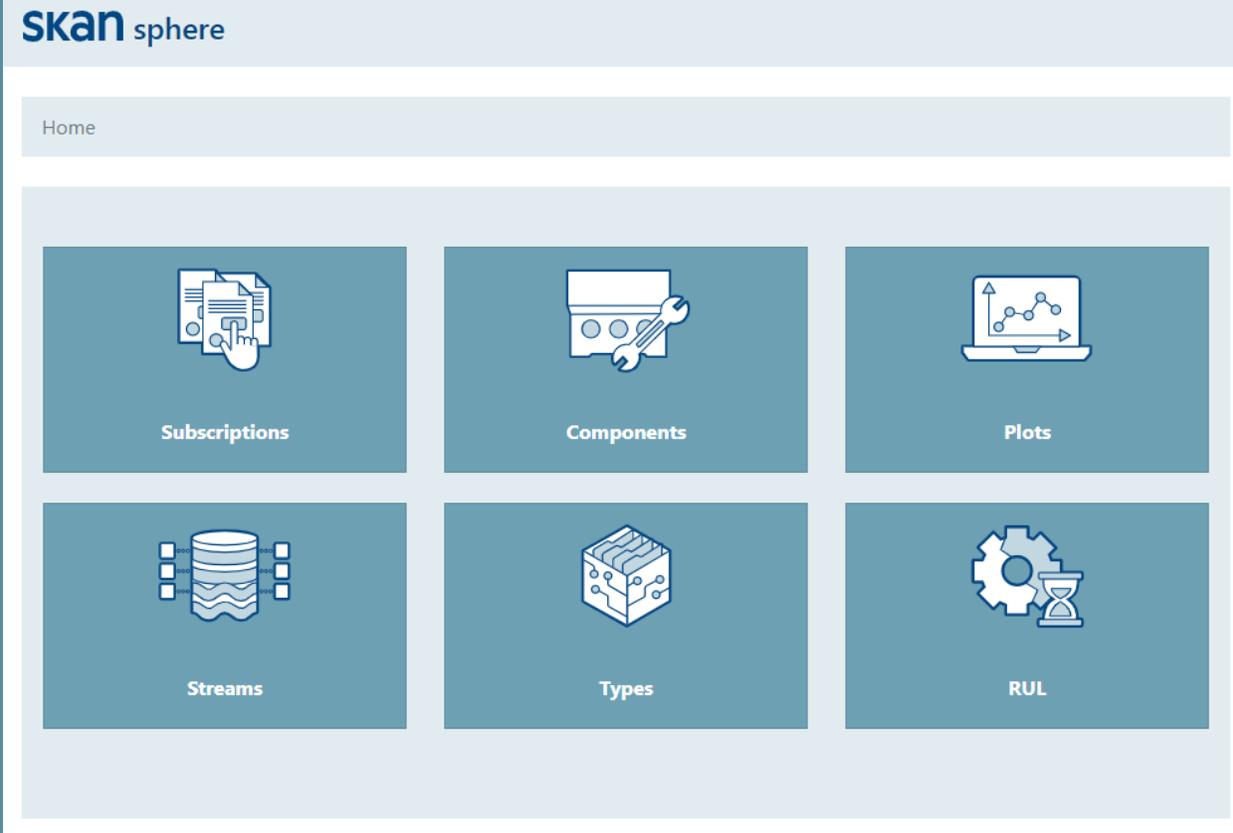
# Adding value to the data with SKAN sphere

Kick-start your digital transformation journey!

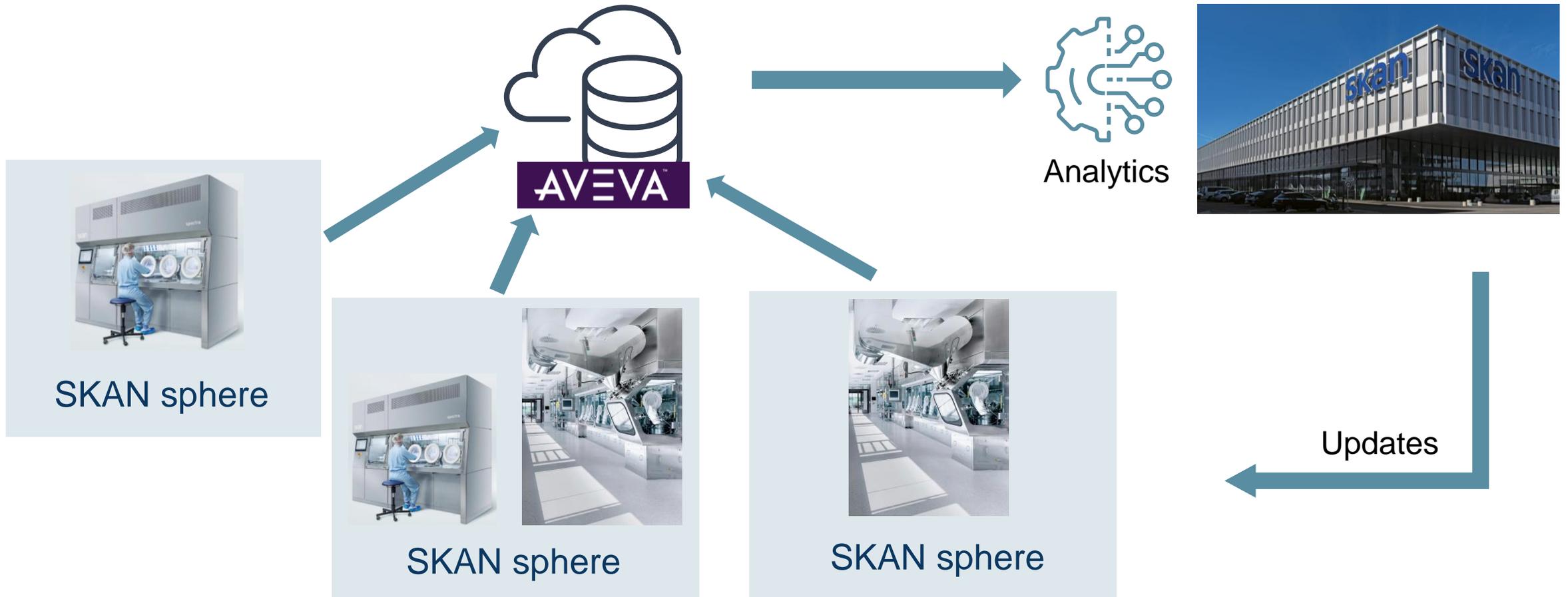


# SKAN sphere

- Advanced data analytics on the edge to provide **data-driven decision making**
- Visualize EDS data
- Analyse EDS data
  - Calculate KPIs
  - Estimate component health
- Maintenance planning tool with maintenance logbook
- Component tracking tool with component logbook
- All generated data is saved to EDS for (optional) data forwarding to PI Systems and/or AVEVA Data Hub
- And more to come...



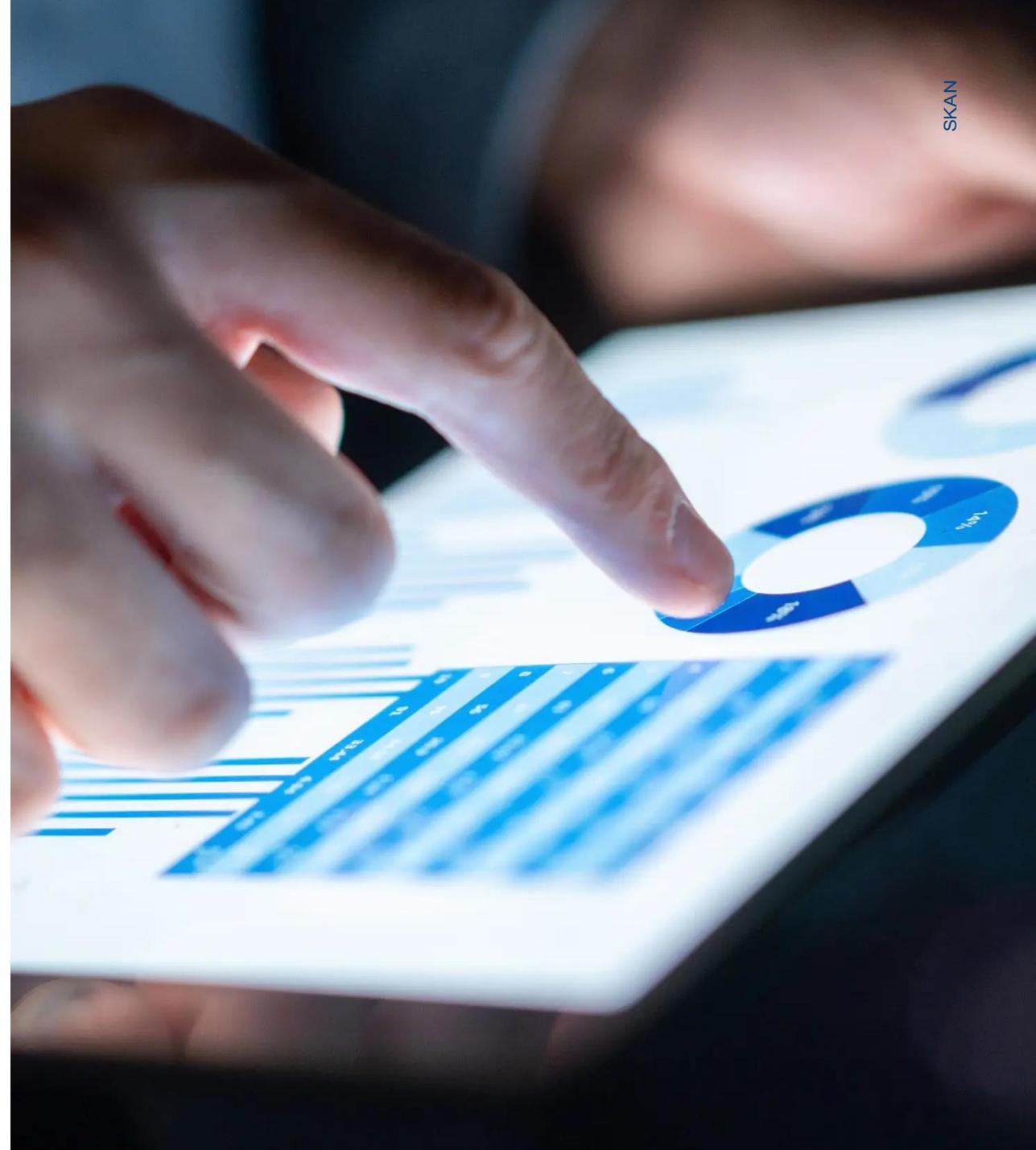
# SKAN sphere – the big picture



# What the benefits are

# Benefits for the customer

- Data-driven decision making without the need to manually collect and analyze the data
- Transparency of maintenance activities
- More robust processes
- Reduction of deviations
- Reduction of the cost of non-quality



# Benefits for SKAN

- Means to collect data to improve our products
- Transparency of spare parts performance
- New revenue possibilities with SaaS
- Modular and scalable software solution to fulfil customers needs

Together always one step ahead



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# Summary

## Conclusion

### SKAN sphere with Edge Data Store

- Edge Data Store offers the perfect interfaces for collecting and analyzing data on the edge and forwarding them to a PI System or AVEVA Data Hub
- Adding a custom application for data analysis generates additional value for the customer and for SKAN, making our assets truly industry 4.0 worthy
- This setting opens up new revenue possibilities for SKAN
- The added value of SKAN sphere enables customers to make data-driven decisions, optimizing their asset usage





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THANK YOU

謝謝

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TEŞEKKÜR EDERİM

DANKIE

TERIMA KASIH

GRACIES

WHAKAWHETAI KOE

DANKON

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TAPADH LEAT

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HATUR NUHUN

PAXMAT CAĠA

DI OU MÈSI

ĎAKUJEM

CẢM ƠN BẠN

FALEMINDERIT

ありがとうございました

SIPAS JI WERE

TERIMA KASIH

UA TSAUG RAU KOJ

TI БЛАГОДАРАМ

СИПОС

WAZVIITA

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