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Edge Data Store enables Industry 4.0 / IoT for SKAN Isolators

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AVEVA



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

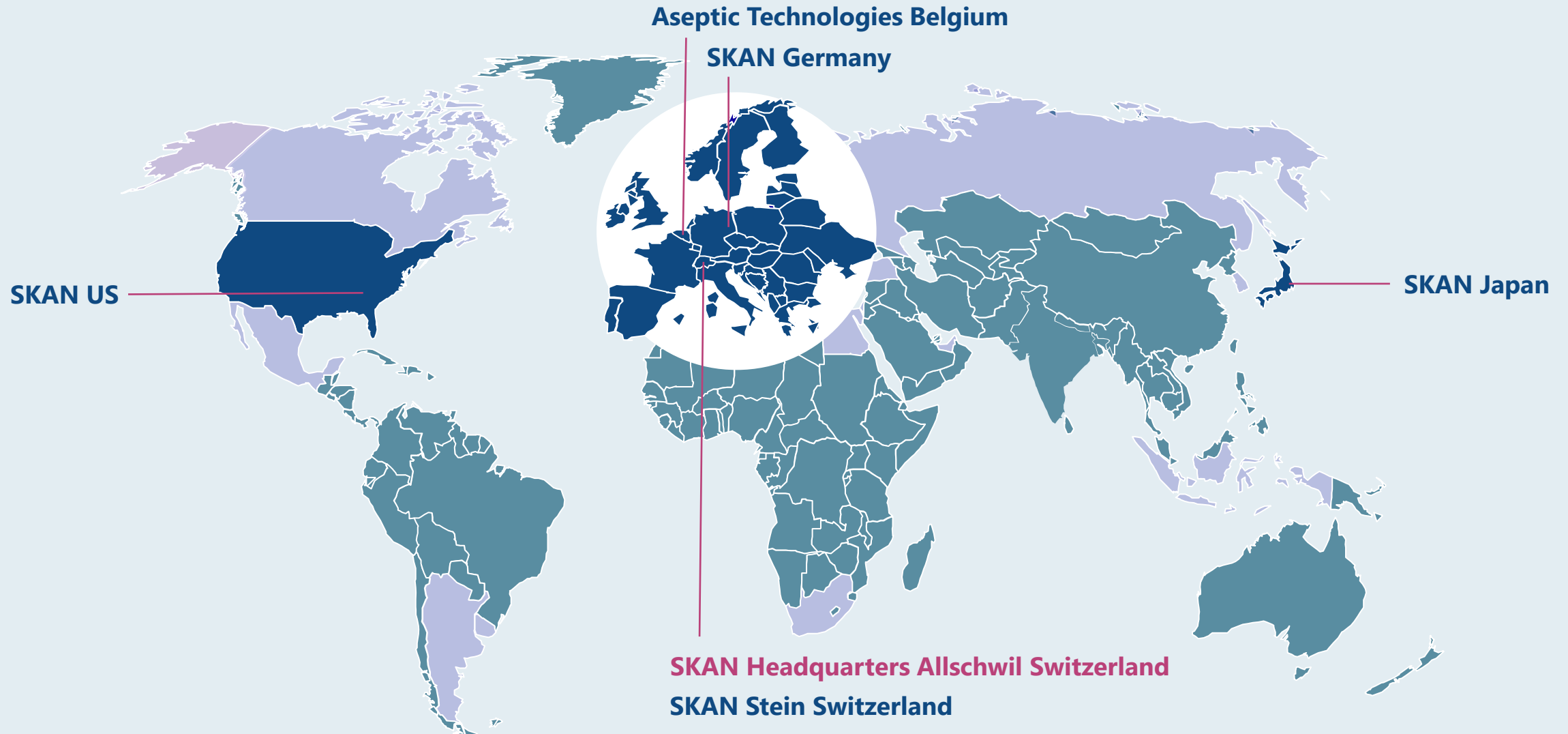


Headquarter in Allschwil

- 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





To protect and secure life

- > 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!

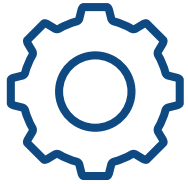
- SKAN is AVEVA Premier Partner

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

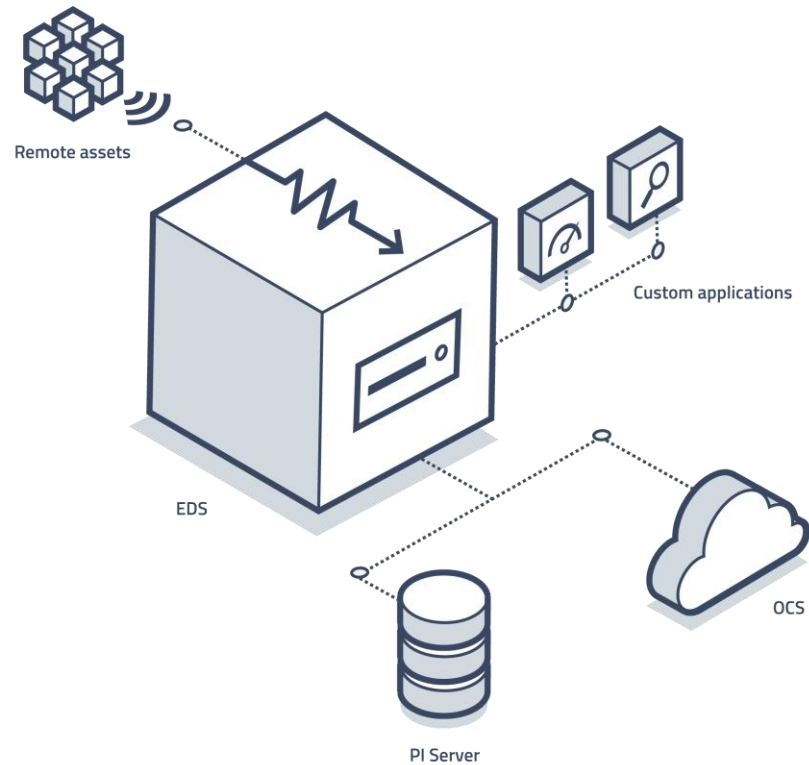
- Data-driven decisions on the edge, expandable to PI Systems and AVEVA Data Hub for site and fleet comparison.

Resulting in:

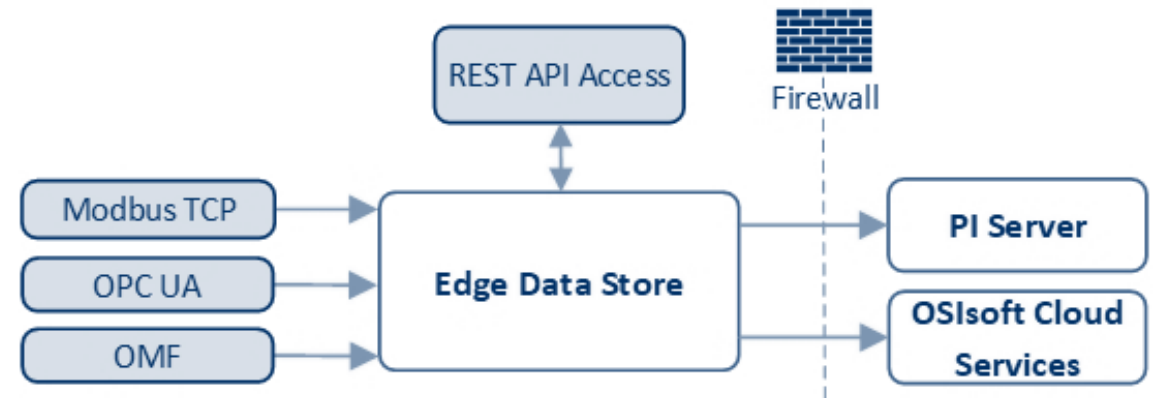
- Transparency of asset health status
- Robust operations
- Reduction of cost of non-quality
- And more!

Edge Data Store – the perfect fit

Edge Data Store – the perfect fit



Edge Data Store Conceptual Diagram



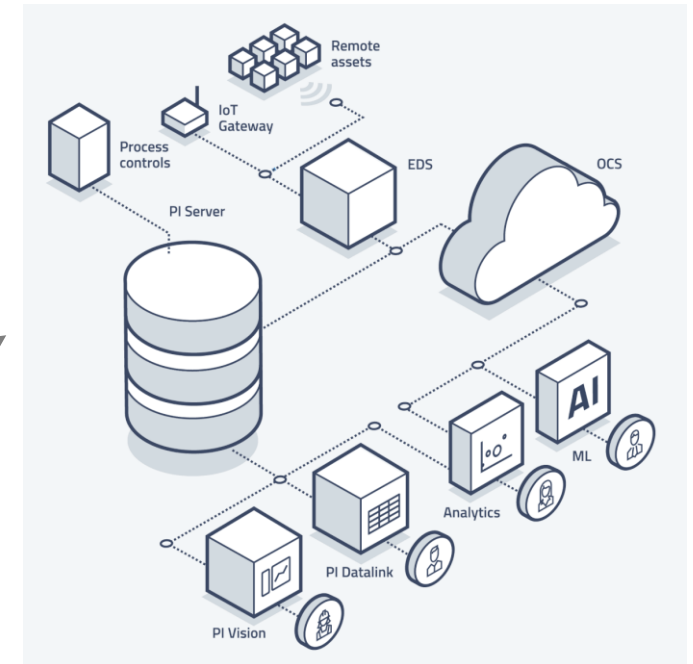
SKAIN

The diagram illustrates the XVEVA Data Backbone architecture. It shows three types of industrial devices connected to a central IT Server:

- Siemens PLC:** Connected to the IT Server via **OPC UA**.
- Industrial PC:** Connected to the IT Server via **REST API** and **OMF**.
- Fan:** Connected to the IT Server via **Modbus**.

The central **IT Server** is shown with various components and connections:

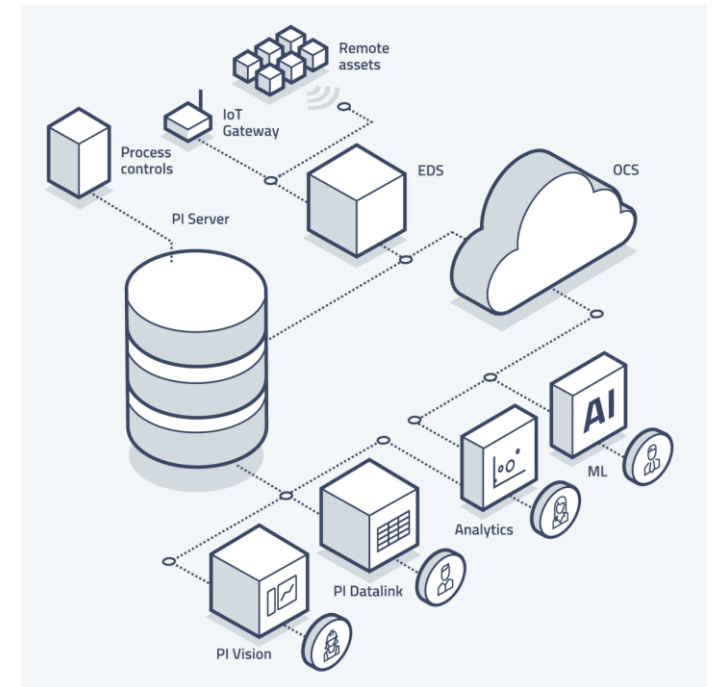
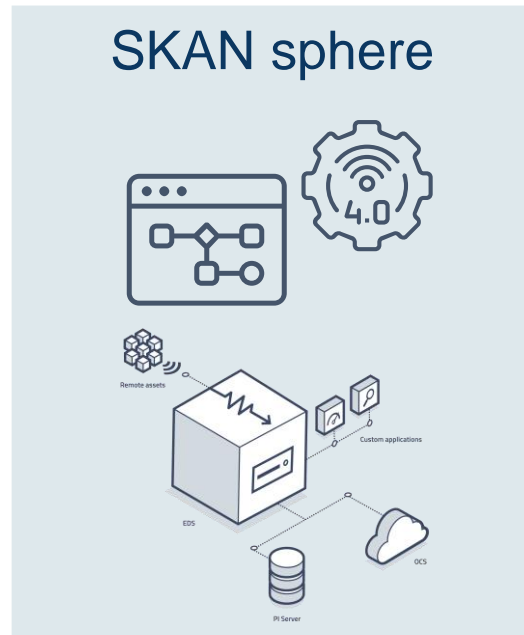
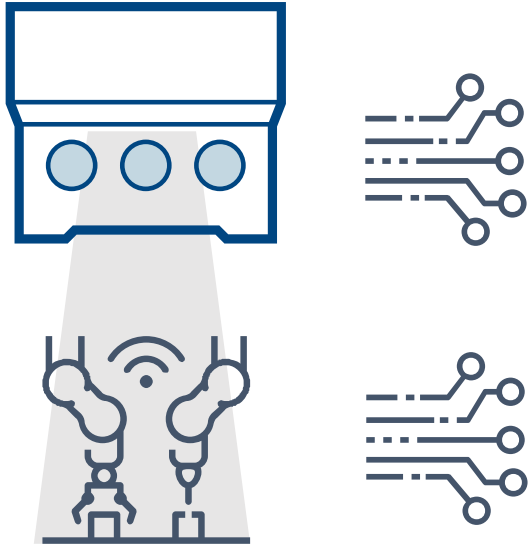
- Remote assets:** Represented by a cluster of server icons.
- Custom applications:** Represented by two small application icons.
- Database:** Represented by a cylinder icon.
- Cloud:** Represented by a cloud icon.



How we use Edge Data Store for our advantage

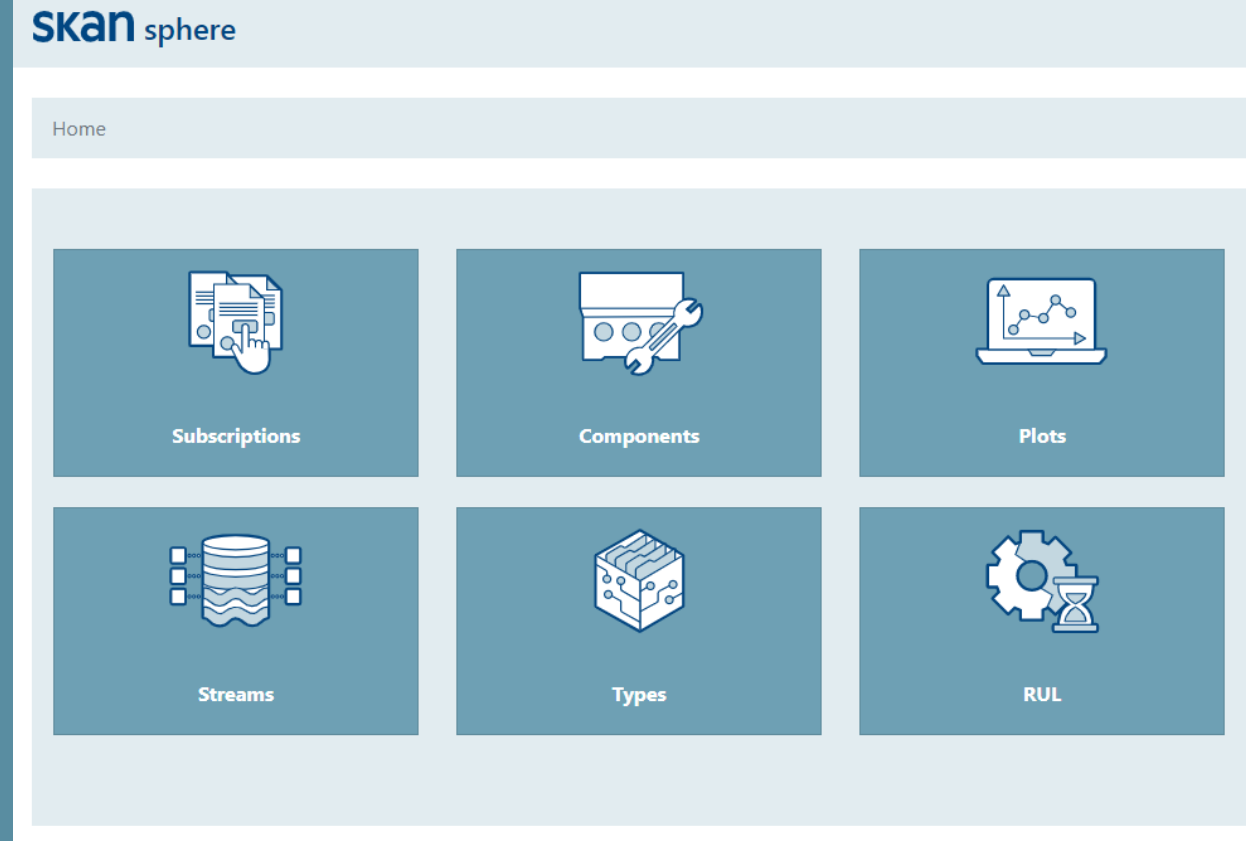
Adding value to the data with SKAN sphere

Kick-start your digital transformation journey!

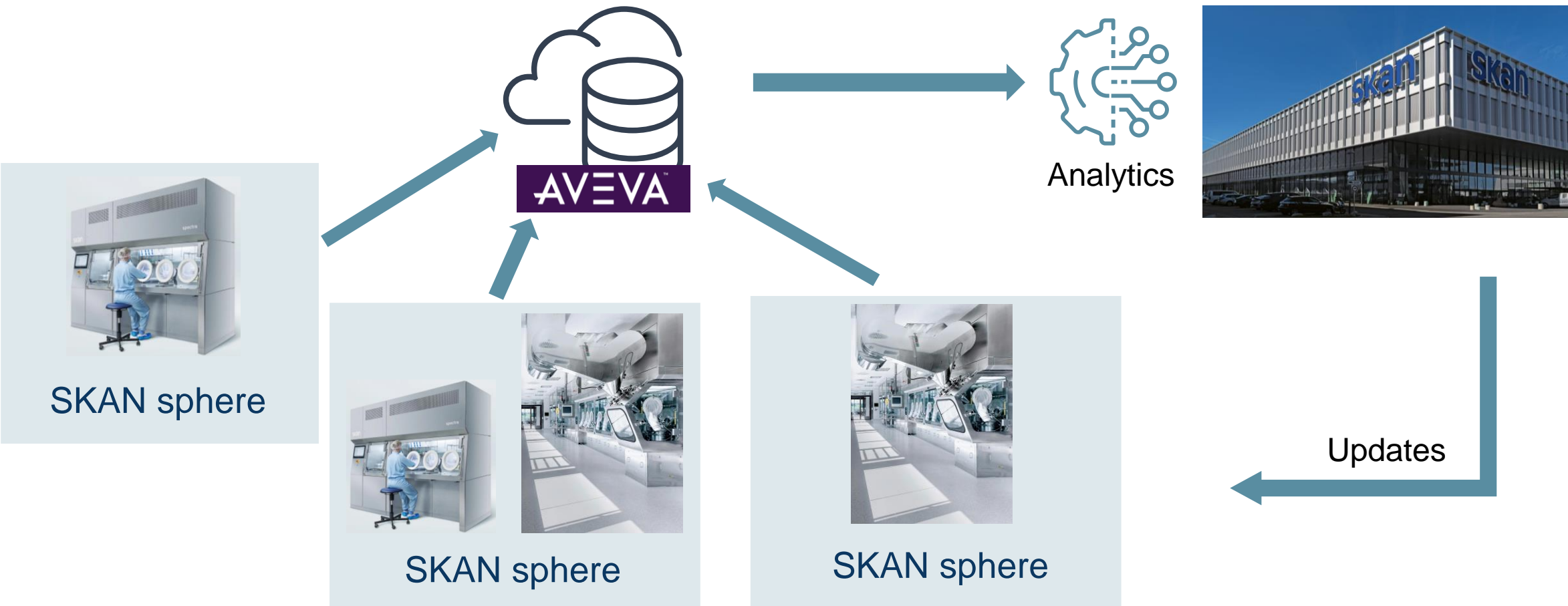


SKAN sphere

- 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...



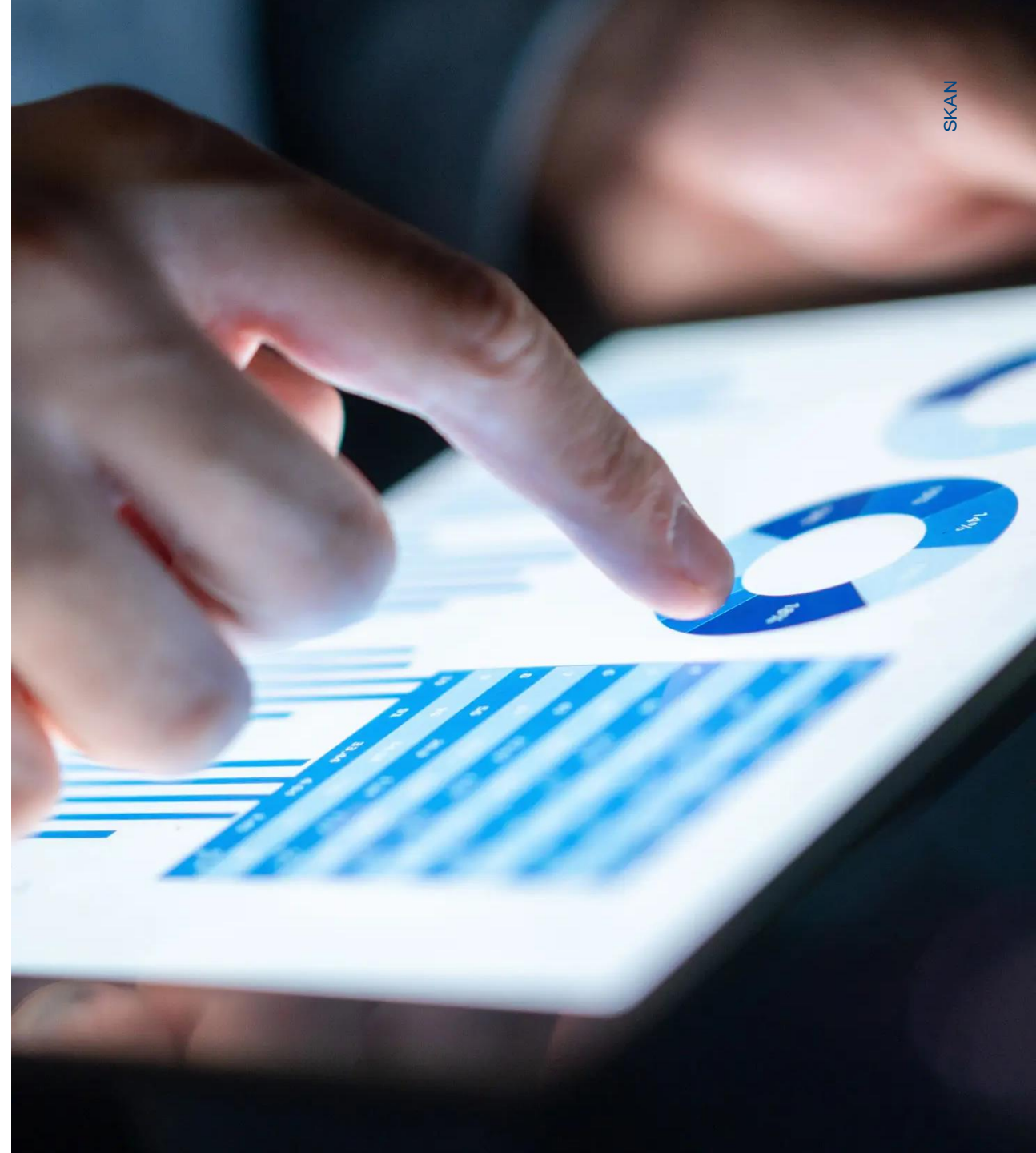
SKAN sphere – the big picture



What the benefits are

Benefits for the customer

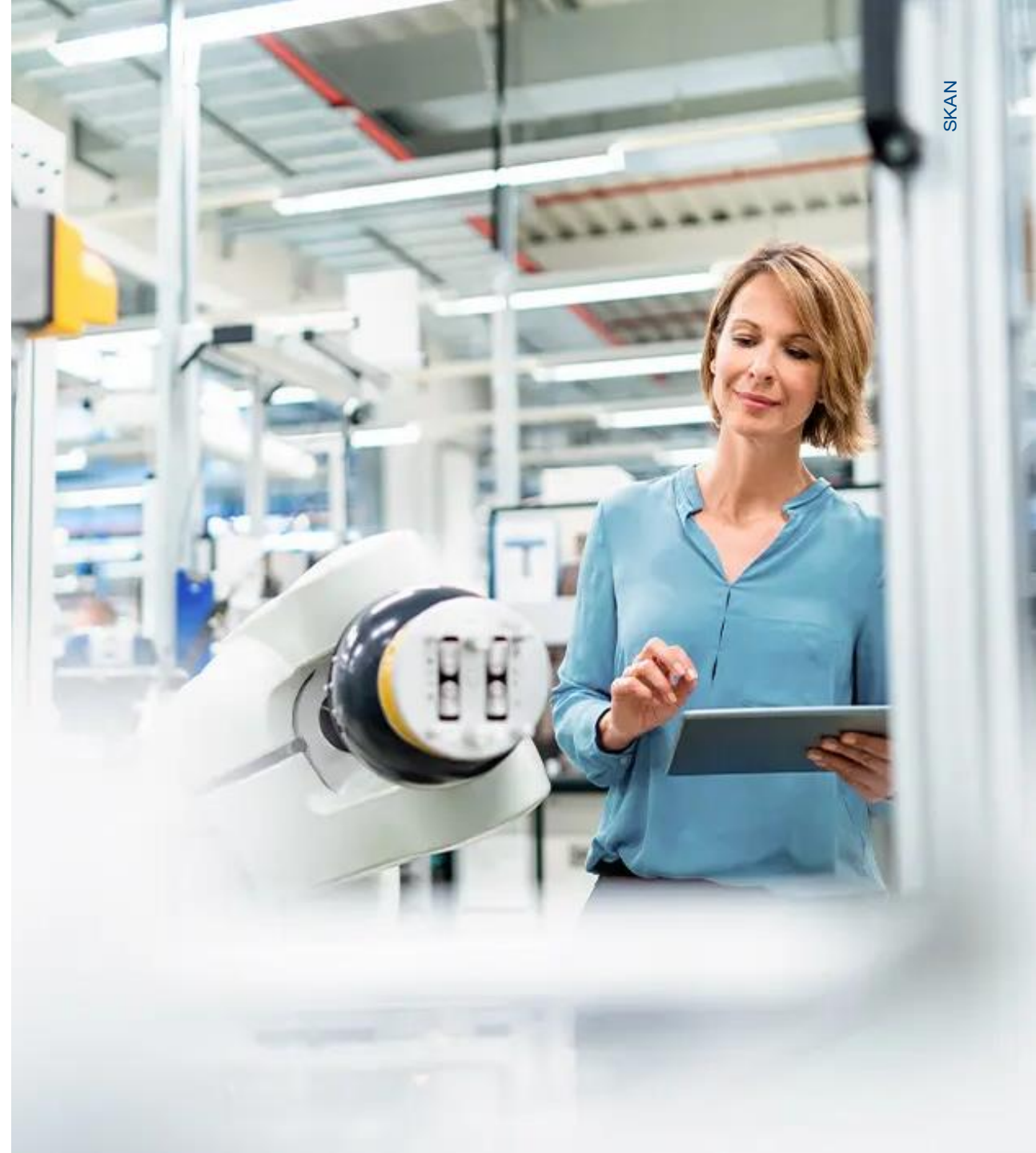
- Data-driven decision making without the need to manually collect and analyze the data
- Transparency of maintenance activities
- More robust processes
- Reduction of deviations
- Reduction of the cost of non-quality



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



Summary



Conclusion

SKan

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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