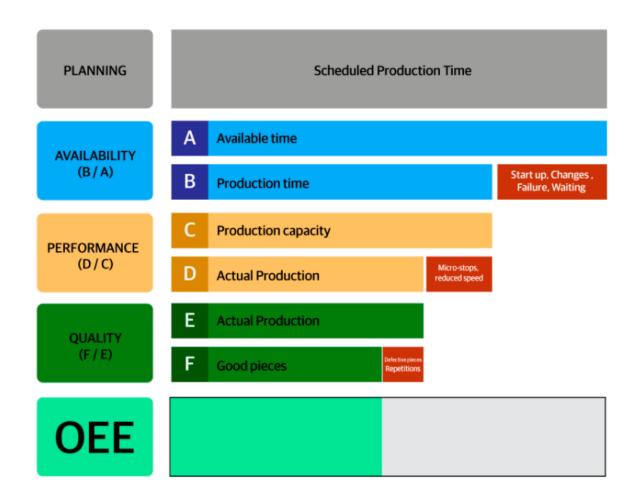


The big 6 losses

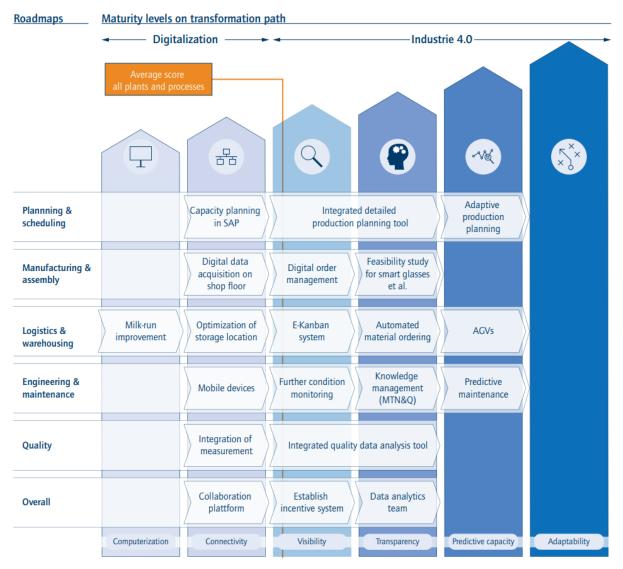




Availability	Performance	Quality
Planned Downtime	Minor Stops	Production Rejects
Breakdowns	Speed Loss	Rejects on Start up

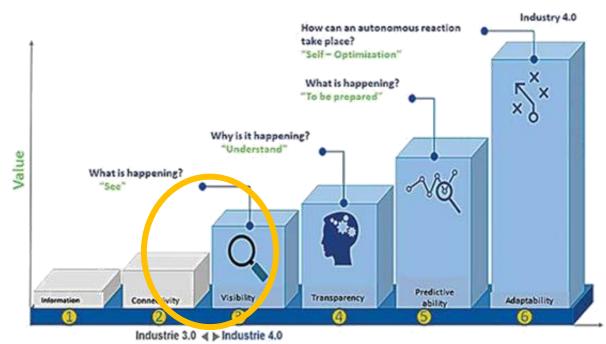
The road to digitalization





PLM Analytics Rapid Deployment Kit





Customer Profile:

Customers in the early stages of Industry 4.0 and "Digital Transformation".

Looking for easy entry solutions to acquire and visualize additional data

- 1. Reduce manual data input and processes
- 2. Visualize Real Time and Historical data (KPI's)
- 3. Lean/optimize production and operations
- 4. Without impacting existing automation systems



PLM Analytics Rapid Deployment Kit





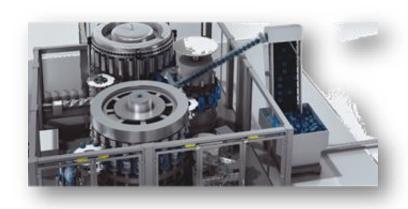




Target Applications:

Factory Automation Customers in:

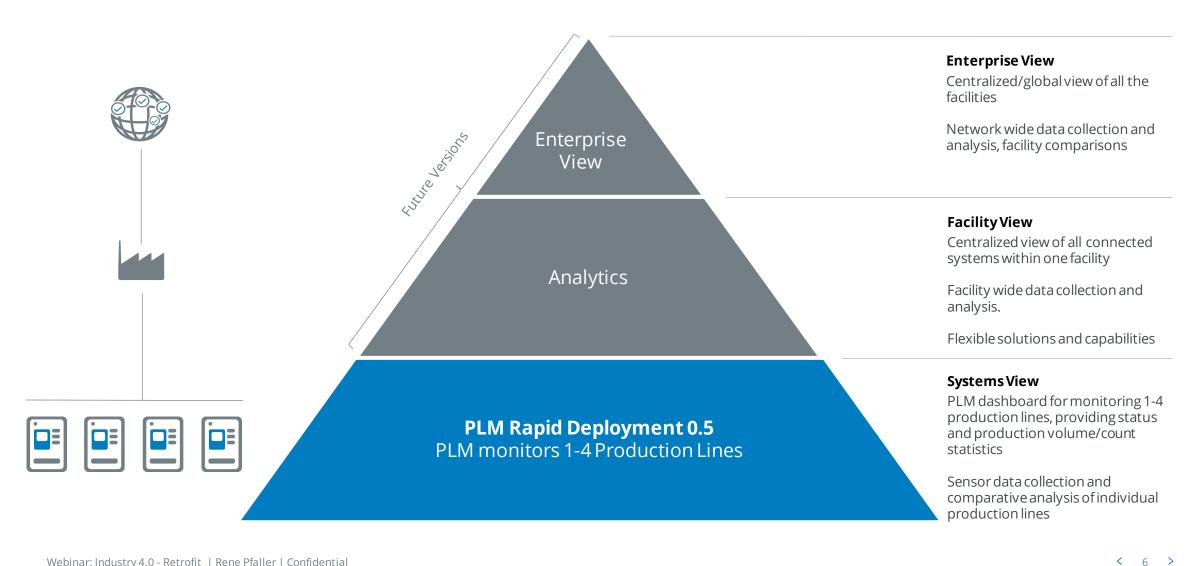
- Consumer Goods
- > Food and Beverage
- Any Factory Vertical concerned with gaining accurate insight into their actual production capabilities



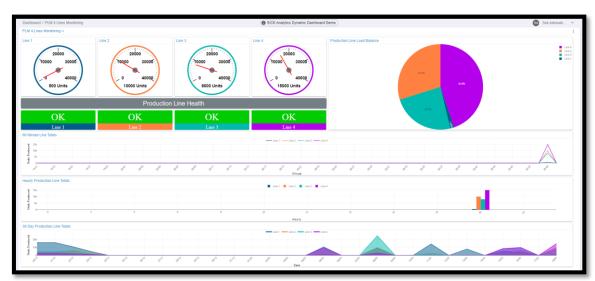


From the field-level to the cloud









With:

<u>Product</u> Count Production Volume/Count = Time

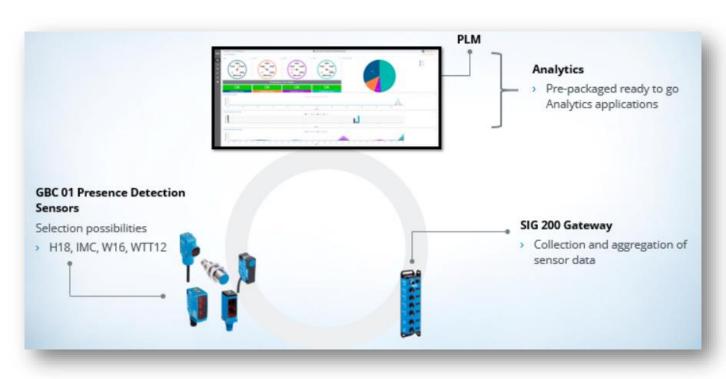






Software and Hardware Industry 4.0 solution to communicate, visualize and analyze production floor capabilities.

- > Pre-configured to make installation fast and easy
- > Automated and accurate data transparency of Real-Time and Historical KPI's
- Gain insights for optimization, productivity and profitability
- > Investigate root causes of production deviations





PLM RDK:

PLM Rapid Deployment Kit bundles Software and Hardware for fast data → actionable information.

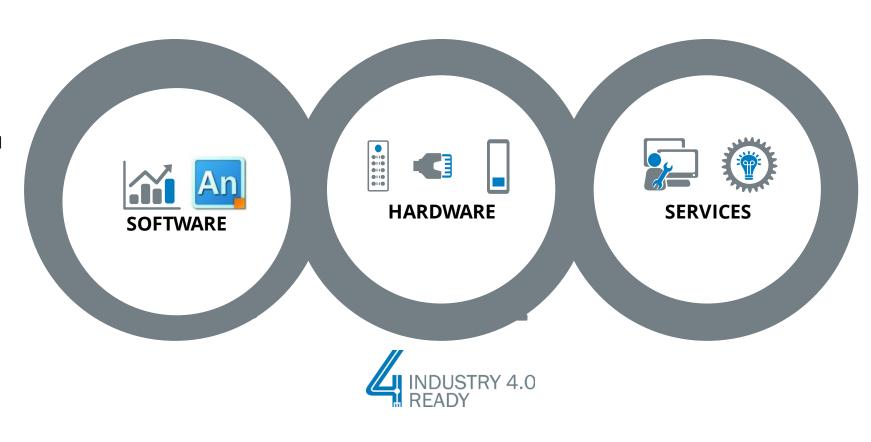
- PLM Pre-defined Analytics Dashboard
 - Real-Time and Historical insight of production throughput of a machine/s or production line/s over time.
 - Licensable for 1 to 4 production lines hosted on customers target PC
- **SIG200**
 - Collection and aggregation of sensor data
- 1 to 4 digital I/O sensors to measure production throughput
 - Production Line 1
 - Production Line 2
 - **Production Line 3**
 - **Production Line 4**





Solution: Powered by SICK Analytics, "Rapid Deployment Kits"

- The Rapid Deployment Kit bundles predefined Hardware and Software for fast data → actionable information.
 - PLM Predefined Analytics Dashboards
 - i. Licensable for 1 to 4 production Lines
 - SIG200
 - 1 to 4 Digital I/O Sensors
- Commissioning by SICK
- **Easy Entry Level Solution for** customers



System components





PLM Analytics

Runs on customers IT Environment/PC's and connected to SIG200 gateway to collect data

GBC 01 Presence Detection Sensors

Selection possibilities

 Devices that can be connected to SIG200 via Digital I/O

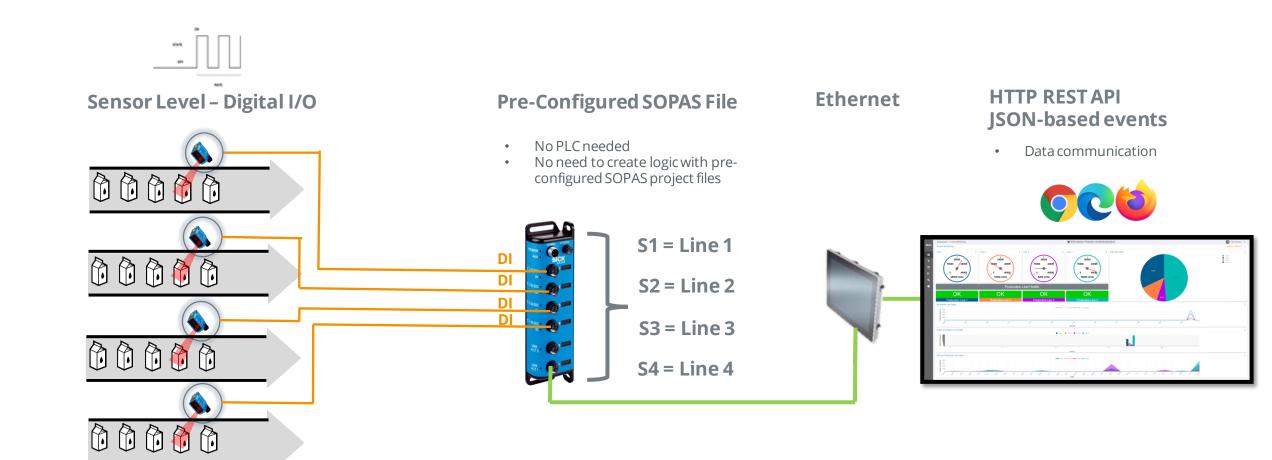
> PNP or NPN Trigger

SIG 200 Gateway

- Communication REST API via JSON
 Format to Analytics Dashboard
- > Ethernet

System components





Data Source

SIG200 Gateway

Webinar: Industry 4.0 - Retrofit | Rene Pfaller | Confidential

Production Line

Monitored by SICK Sensor Components

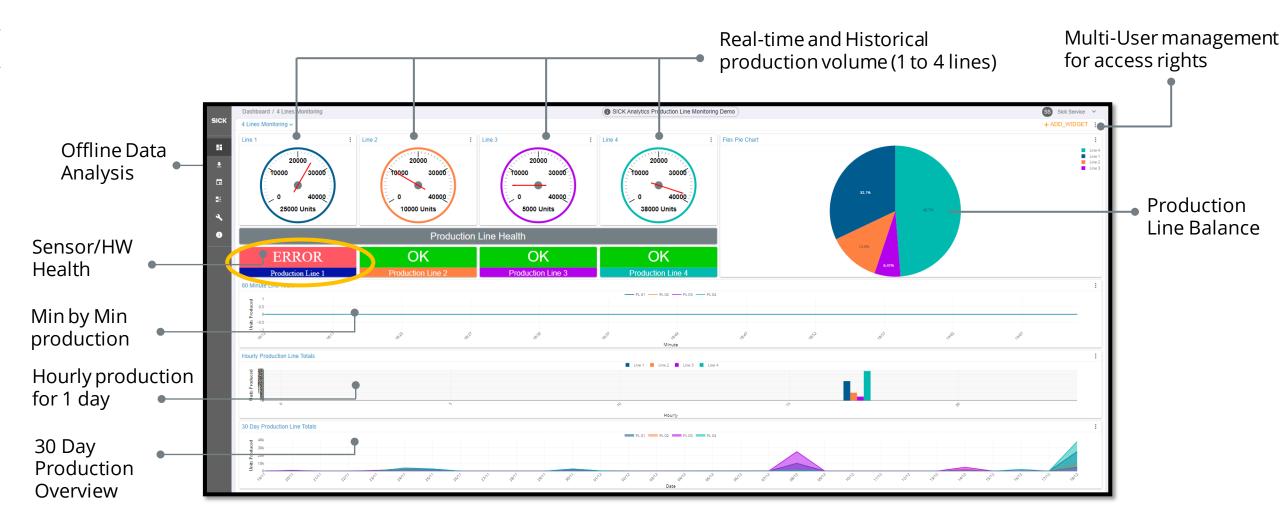
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Installed in customers IT environment or PC's

PLM Analytics

System dashboard



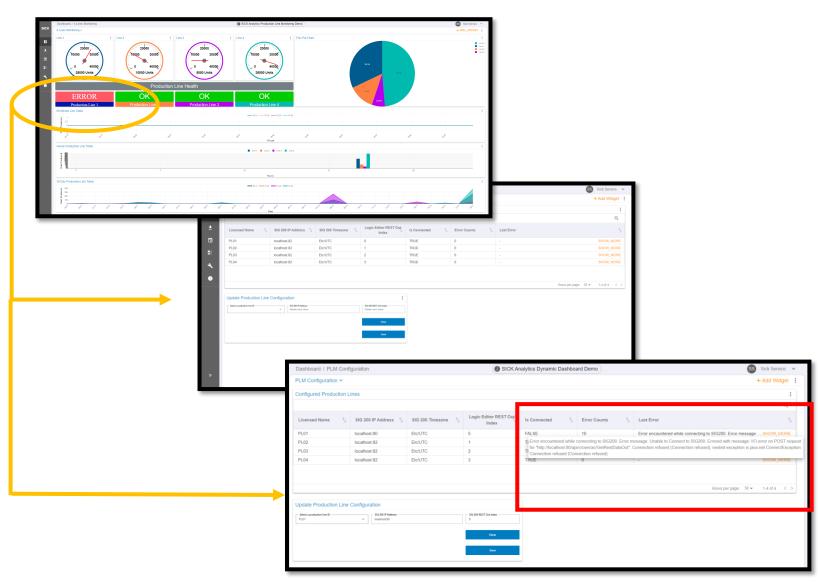


System dashboard



Hardware configuration in Analytics

- Configuration of SIG200 and **Production Line Sensors**
 - IP address management of SIG200
 - Connection Status (On/Off Line)
 - **Error Counts**
 - Error messages for troubleshooting

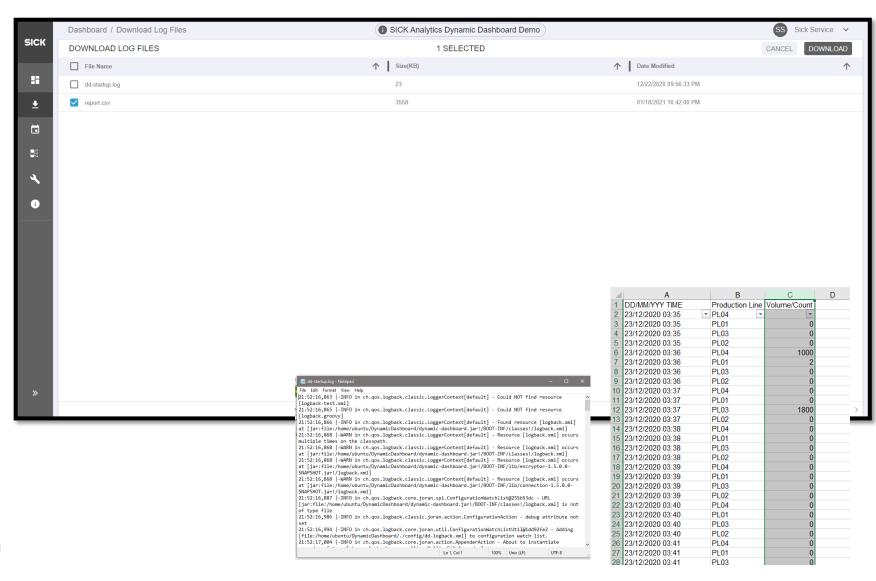


System log



PLM Analytics Data Download and Log Files

- > Production Data Download
 - Downloadable production data for additional offline analysis
- Log Files
 - Trouble shooting and support
 with application or services
 - Analytics Team is there to support our customers

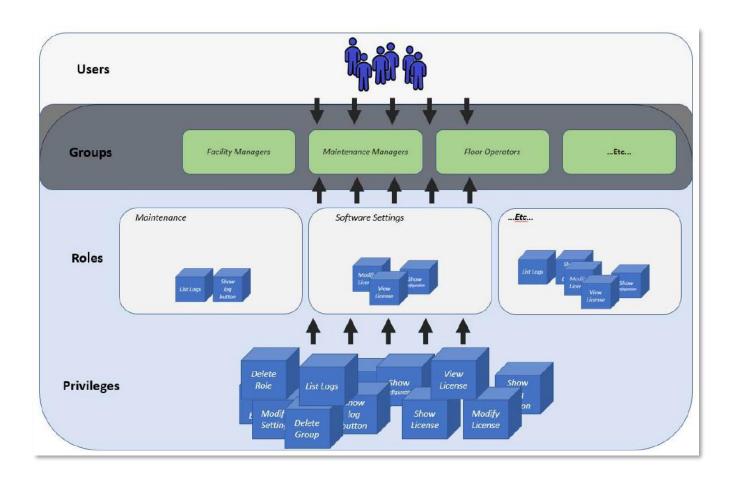


User & Role Management



User role management for secure access management

- Different levels of privileges to different users
- > Analytics is providing Pre-defined user groups and roles
 - Administrator
 - operator1
- Customer can then define additional users, groups and roles



Languages Supported

Currently available in EN







Baselining and Tracking Real-Time and Historical PLM metrics over time

- > Operations/Maintenance:
- > Accurate insight into true production line capabilities to avoid over and under producing with automated data collection and transparency
- Identify and resolve process variances faster to improve efficiencies to keep up with business demand
- > Automated data collection:
 - Reduce risk of inaccurate reporting caused by human error, resulting in better data driven business decision
 - Allows operators to perform other value added tasks
- Analyze data to improve production predictability
- > Customer Service/Sales: Improved predictability equals greater accuracy and on-time delivery of customers orders
- Finance: Improving on-time order performance and quality drives more sales, competitive edge and brand awareness.
- User management for privileged access to sensitive data
- > Via the SICK Support Portal, you can count on quick and professional support provided by SICK experts









WHY?









- Leaner operations
- Improved order ful-fillment

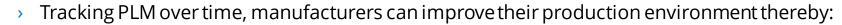






- Less Paperwork
- More time to perform other operational value added tasks
- Reduction in production counting errors









Improving productivity

Increasing production capacity

Key Massages



PLM Analytics RDK: Easy to Integrate I4.0 Solution for quick data to actionable insight

Key Feature	Benefit
Real-time and Historical visualization of critical operational metrics	Complex production metrics into simple accessible information
	Identify Bottlenecks for process improvements



Stabilize and Optimize using the power of data for better business gains

Gain transparency

Getting Started



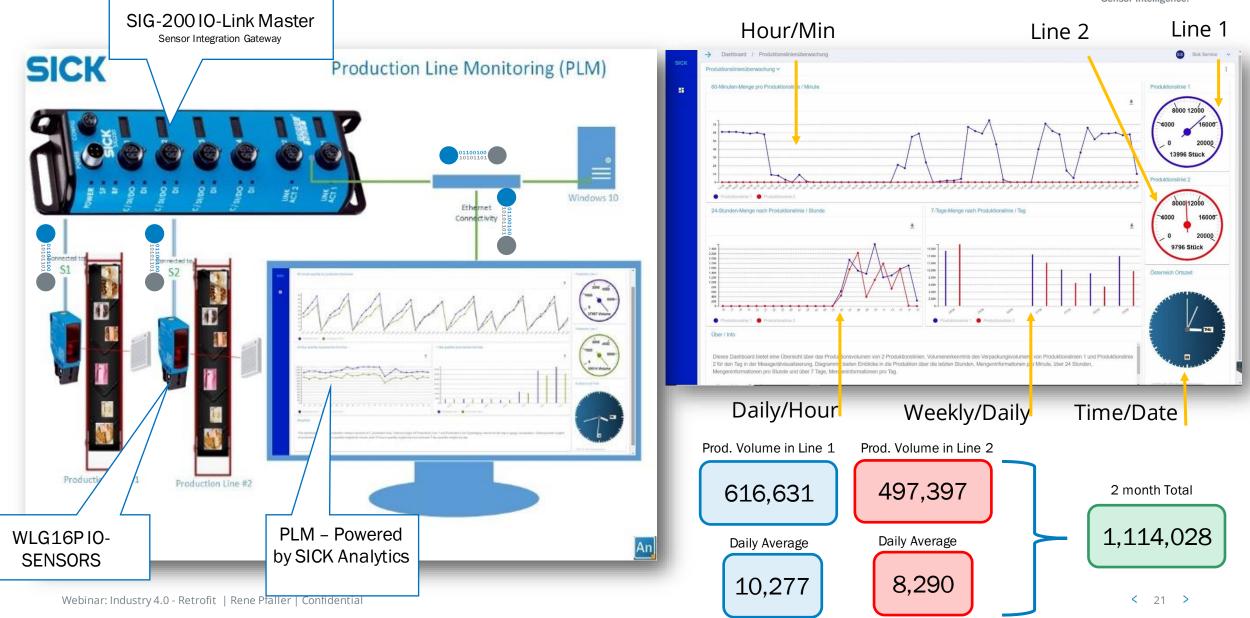
Time limited trial license available

Internal and external customers can request a trial license for the PLM Analytics software for evaluation with purchased HW (SIG200 and associates sensors) purposes by submitting required information to SICK (contact us!)

- > Duration of trial requested will be 90 days
- MAC address(es) of the PC/server/VM that will host the software
- > PLM Analytics cannot be used without a license key. A trial version also requires a license key from SICK.

Out of the field a real usecase!





Want more? Go for our IO-Link Starter Kit!





