

Digital Shadow

Ascon's Digital Shadow is the **contextualised storage and processing of data** that is collected during your production process or product use. Monitor and optimize your production data in near real-time, without negatively impacting your running systems.

“Our Mission is to allow our customers to monitor and analyse production processes, identify bottlenecks and make data-driven decisions for process optimization and quality improvements”

Ksenia Sushko, Product Manager / Ascon Systems

How can you use a Digital Shadow?

Machine Monitoring



Observe real-time health, performance and maintenances of your shopfloor.

Analyze sensor data for early issue detection, enabling predicted maintenance and reducing downtime.

Predictive Maintenance



Use digital shadow and sensor data for predictive maintenance to prevent unplanned downtime.

Identification of patterns or trends in deteriorating machine conditions.

Material Flow



Real-time tracking of products & materials.

Digital shadows offer enhanced visibility, planning and controlling possibilities, forecastable capabilities, and data-driven decision-making, contributing to a more agile, resilient, and efficient production.

Quality Control



Real-time product quality monitoring.

Real-time monitoring, predictive capabilities, and integration with AI technologies – proactive detection and prevention of decreasing product quality.

Why Ascon's Digital Shadow?

- Process optimization through data transparency
- Minimized downtime boosts machine availability and productivity
- Lower operating costs and higher profitability
- Increased product quality
- Seamless integration into existing production landscape

End-to-End Automation – the Ascon Qube


The Digital Shadow technology is part of the revolutionary Ascon Qube. The collected and contextualized data is needed for and can be found in every other aspect of the Qube. Using this contextualized data generates valuable insights.

Ascon Qube is an edge-to-cloud platform that lets you break free from the inefficiencies of hard-coded PLCs and integrate heterogeneous landscapes. Live-synced digital twins deliver complete transparency and an interface to execute low-code changes.

What does Ascon Systems hold for you?

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