

ENGINEER YOUR OWN DIGITAL KNOW-HOW

Process Ownership

Industrial Security

Efficiency

Scalability

Code Reusability

Flexibility

SERICY.PLATFORM SERICY.ENGINE

Maintain full process and data sovereignty in the digitization of your value chain – with the autonomous IIoT platform SERICY.

Digitize all processes.
Protect all business secrets.

SERICY.



„For the first time, SERICY provides small and medium-sized enterprises in particular with the means of retaining full sovereignty over their processes and data in the digital transformation.

From manufacturing companies to machine builders, anyone who wants to stay ahead of global competition has to tackle the digitization of production and supply chain. The development of a digitization solution requires valuable resources and specific know-how. Using external third-party suppliers means that small and medium-sized enterprises in particular frequently have to face the risk of having to reveal business secrets to these partners.

That is why we have developed SERICY – the first IIoT platform with an integrated development engine. The software is based on flexible standard modules. Companies can develop, adjust or expand them quickly and efficiently with their own know-how. In this way, any company can develop its own completely customized digitization solution and nevertheless maintain full sovereignty over their data and process know-how. That way it will safeguard its competitive advantages in the future.”

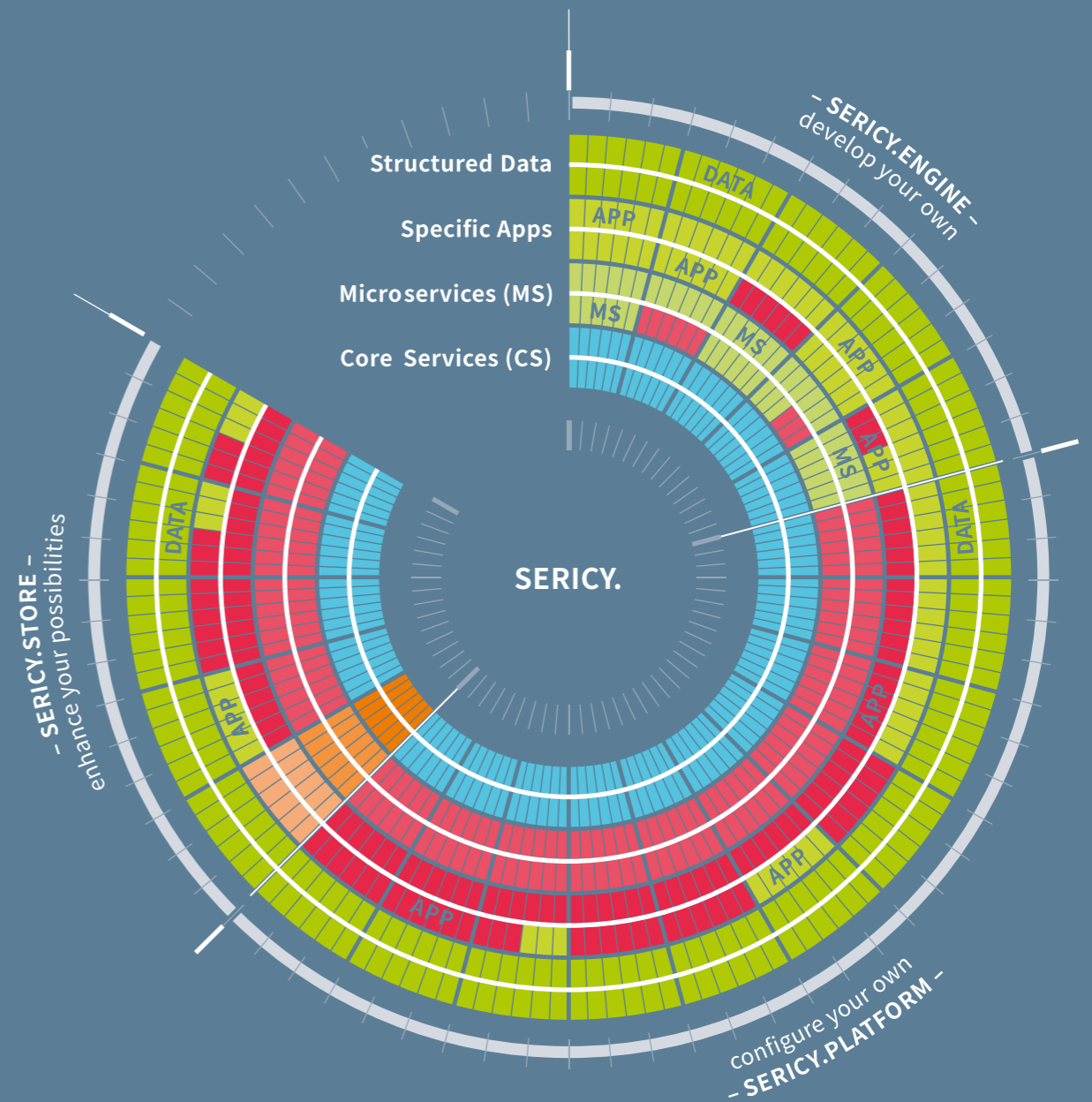
Renato Luck,
CEO Grenzebach Group

SERICY – the IIoT platform with an integrated development engine.

SERICY ensures that you maintain full sovereignty over sensitive data and process know-how.

SERICY is based on a highly flexible IT architecture comprising microservices and apps.
SERICY.PLATFORM: modular standard modules that can be adapted quickly and easily to meet any requirements.
SERICY.ENGINE: custom designed and developed applications and services in the integrated development environment.

- Your own know-how. Now and in the future
– 100% secure.
- Structured data – 100% data sovereignty
- Customer developed microservices and apps
– 100% process sovereignty
- Customer adapted apps
– 100% process sovereignty
- Predefined microservices and apps
– individually adaptable
- IT infrastructure – 100% operational reliability
- Modern software architecture and rolling updates



Core Services (CS)

High-performance core services ensure the reliable, failsafe IT infrastructure of the platform into which all microservices and apps can be seamlessly integrated.

Flexible Microservices (MS)

Reusable microservices make the development and adaptation of apps particularly quick and easy. The modular services can be freely provided, scaled and combined as required.

Specific apps

Specific apps can be used to map, control and monitor all processes. The apps can be obtained from the SERICY.STORE and adapted or companies can develop their own apps from scratch using the development engine.

Structured data

The individual adaptation option enables the structured collection, analysis and use of all data without the need to disclose sensitive information.

Intelligent, digital networking of the entire value chain.

SERICY.PLATFORM SERICY.ENGINE



„SERICY enables customers to link all machines, sensors, processes and software solutions, irrespective of the manufacturer or system.

Open interfaces and the individual adaptation options of SERICY allow limitless possibilities for the digital transformation. Every machine, every component and every process can be seamlessly integrated with little effort.

For manufacturing companies, that means maximum security of investment, as they can quickly and adapt to new business models or changing requirements.

Companies that use SERICY can not only offer their customers perfectly digitized machines, but also supply the perfect IIoT platform for the customized networking of the entire value chain – without having to disclose their own process know-how.“

Dr. Clemens Weis,
Geschäftsführer Grenzebach digital

SERICY – the perfect architecture for individual digitization solutions.

Limitless compatibility for greater security of investment.

Web-based front end

Thanks to web interfaces, SERICY and all apps developed on it are available on all devices. Development is not platform-specific, resulting in saving potentials compared to conventional apps.

From the shop floor to higher-level IT systems such as ERP or CRM – SERICY uses open interfaces and flexible connectors to ensure that all machines, sensors, systems and processes along the entire value chain can be connected.

Data analytics

SERICY ensures consistent data transfer between machines, systems and interfaces. Along the entire value chain, all data can be collected in a structured manner, processed and used profitably for the monitoring and further optimization of processes.

Future-proof

Modern software architecture and rolling updates ensure that up-to-date services and apps are always available.

IT (system) connectors

Information can be exchanged and made usable by means of perfect interaction with higher-level ERP and CRM systems.*

Shop floor connectors

SAP®	DYNAMICS®
ORACLE®	SALESFORCE®

MACHINE	ROBOT	CONVEYOR	AGV	SENSOR
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Open interfaces and customized apps enable cross-system integration of machines and systems of all manufacturers.

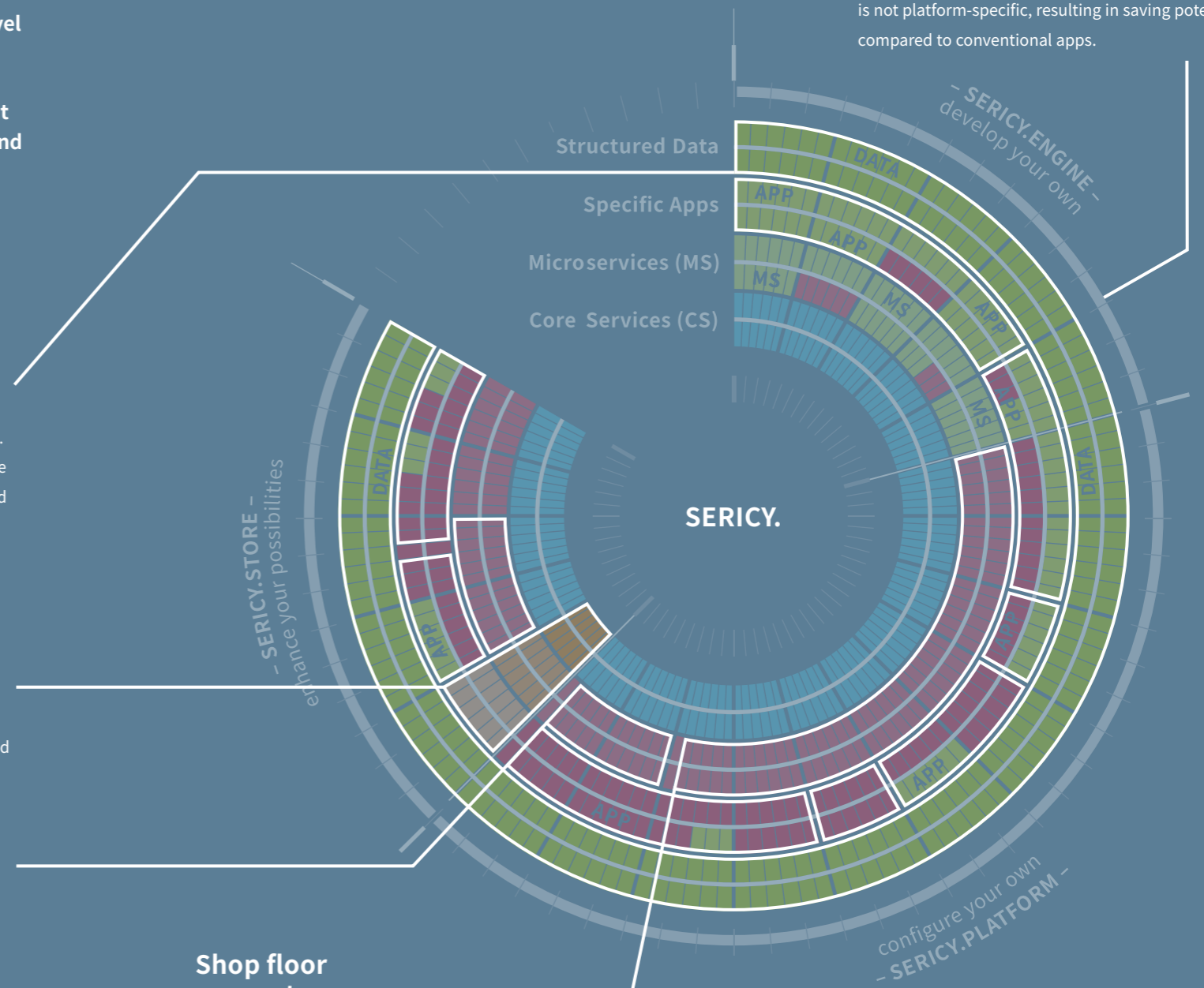
Robotic systems use data and analysis results from advanced system sources and can thus optimize processes more comprehensively than before.

Thanks to the seamless integration of machines and sensors, all transport solutions can be controlled and monitored fully automatically.

Automatic supply using automated guided vehicles (AGVs) allows flexible networking of individual production steps.

The connection of intelligent sensor solutions of different devices and manufacturers is a prerequisite for efficient data collection and analysis.

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More independence. More productivity.
More efficiency.

SERICY.

From improved utilization and shorter lead times to more flexible options for responding to new and changed requirements – SERICY offers a wide range of advantages at every level of the value chain. In this way, sustainably optimized production can be achieved with reduced costs, improved quality and consistent data transparency.

Increase your productivity sustainably

SERICY enables processes to be accelerated at a wide range of different levels and thus significantly increases gross margins while reducing costs. This gain in productivity thanks to successful digital transformation can correspond to up to 10% of annual turnover according to a recent study.*

Perfect adaptation to individual requirements

All apps and microservices can be adapted individually to specific processes and requirements – extremely quickly, easily and cost-efficiently.

Optimization of production processes

Production processes can be sustainably optimized and improved on the basis of regular target-actual comparisons.

50–80% less development costs and minimized development times

Compared to conventional software development, the use of ready-made microservices, adaptable apps and the integrated development engine allows cost savings of between 50 and 80%. The flexible IT architecture based on reusable microservices also reduces the development times for new apps to an absolute minimum. DevOps structures and a powerful CI/CD pipeline greatly accelerate the further development, adaptation and updating of existing apps.



Ready for business models of the future

Access to relevant process or usage data and the safeguarding of data integrity by using blockchain technology enable data-driven business models, e.g. pay per use.

Maximum transparency and security

Continuous data analysis, reliable blockchain-based logging and comprehensive reporting provide a complete overview of all processes at all times.

Up to 30% lower maintenance costs and 50% less downtime

Thanks to predictive maintenance, SERICY can reduce maintenance costs by up to 30%. Predictive maintenance and unambiguous fault messages with precisely defined escalation processes reduce machine failures by at least 50%.

Process data enable precise forecasts of remaining useful life and allow early planning and preparation of maintenance works. This reduces the occurrence of unplanned machine failure and minimizes downtime.

Complete automatization

From production line and logistics to surrounding IT landscapes, agile and flexible digitization scenarios enable all processes to be networked and automated. Optimization potential, such as the reduction of inventories and lead times as well as the elimination of rigid processes, can thus be fully utilized.

SERICY.STORE offers new marketing options

The SERICY.STORE is a continuously growing marketplace for SERICY apps and microservices. Here it is not only possible to purchase suitable solutions, but also, as an app partner, to market them easily.



* "The Digitalization Productivity Bonus", Study by Siemens Financial Services, 2017



Experience the potential of SERICY live at the SERICY LaunchCamp.

Launch into your digital future and discover the possibilities of SERICY.PLATFORM and SERICY.ENGINE. Find out what potential you can leverage in your own company with SERICY. Sign up now for the 2-day practical workshop. www.grenzebach.digital/launch-camp

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