



STREMLER SMART SYMPHONY

Welcome to a new dimension
of speed and precision

We are revolutionising the world of processes and manufacturing. Our digital solution for internal and external cross-company planning and control of the value chain releases unforeseen potentials and reserves.

This innovative system solution is based on customer requirements and for your company it improves

- the speed of processes
- productivity
- flexibility
- and free cash flow.

Through improved profitability, you gain scope for innovations and investments.

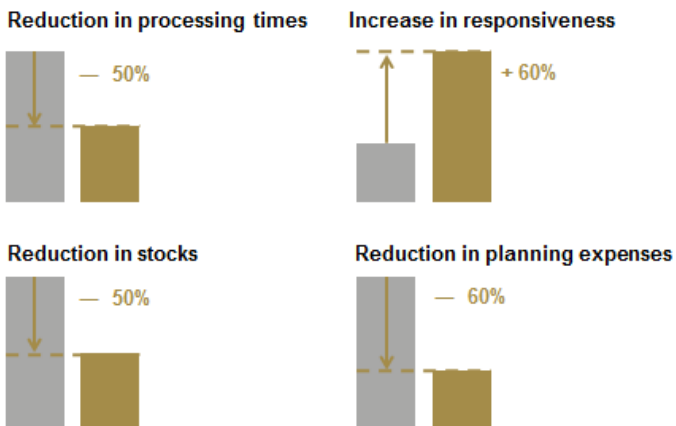
In an implementation-oriented manner, we reduce the complexity of your process and system landscape while increasing your success. On average, our projects show a return within 4-6 months.



The innovative approach of the STREMLER SMART SYMPHONY

Optimising the productivity and speed of the value chain

With our intelligent solution architecture, we offer you an extraordinary improvement in corporate performance.



Optimised KPIs of selected STREMLER projects

Increasing profitability The real needs of our customers

Five key aspects play a role in increasing profitability over the long term: Time-to-Customer, processing times, current assets stock, flexibility in manufacturing and value added per employee. In each of these **five topics**, sustained optimisation of the **value chain** leads to the desired result.

Integrated planning and control of the value chain often faces a number of **challenges**:

- 1. Local optimisation** of individual production cells leads to isolated solutions. Such unsystematic approaches prevent the requisite comprehensive optimisation of the value chain.
- 2. Existing IT systems** only inadequately map the complexity of dynamic interactions by processes. This usually leads to the development of further IT systems with the desire to achieve transparency. But the system discontinuities lead to further complexity accompanied by less productivity and higher costs.
- 3.** Current optimisation systems do not master the technology of **simulation** – even if claims to the contrary are often made.
- 4.** Scalable, precise **“What-if scenarios”** for production planning are complex and inaccurate in presentation using conventional technologies.

5. The sheer volume of **data** created prevents **quality, transparency** and a structured view of what is essential.

Using our modular solutions to swiftly and easily create value added

Stremler AG offers a modular solution architecture for each of the five challenges outlined above. A solution architecture which safeguards sustainable optimisation of the value chain in a swift and results-oriented manner. The modules can be used individually or in their entirety.

Smart Analytics module

- **Transparency:** Depiction and analysis of the process problems and framework conditions for optimising the processes
- **Smart data:** Analysis and reduction in large data volumes to the data level necessary for optimisation

Operational Planning module

- **Synchronisation – Customer pull:** Punctual production (pull effect) leads to a reduction in stocks in distribution by up to 80% and almost 100% of overhead handling costs.
- **Synchronisation – Speed:** Reduction in processing times and Time-to-Customer. We have been able to reduce the processing time for some customers from 30 days to 3 days.
- **Scenarios:** Reduction in planning costs for manufacturing by up to 80%

Fine Planning module

- **Resource Management:** Avoiding of overtime or under-utilisation: real-time operational planning has enabled us to lower costs by up to 15-20% over the long term.
- **Productivity:** Increase in the degree of plant utilisation by up to 30%

Sustainable Management module

- **Control cockpit:** Development and implementation of a KPI control cockpit for safeguarding and increasing results achieved over the long term



The modular solution architecture offered by STREMLER AG

Our innovative solution: Technical details

Our intelligent, modular solution architecture is based on innovative elements which we at STREMLER have developed on the basis of our experience, our innovative investigative spirit and scientific support:

- **Digital transparency and digital twin:** Our solution creates a digital twin which permits full transparency and “What-if scenarios” on the basis of relevant data. But without impacting operative day-to-day business.
- **High-performant processing of real data:** Our solution processes more than **10 million data items and 250,000 processes in 1 second**. This enables us to work with real data in real time. Unlike the norm in the market to date, we do not work with historical average values.
- **Innovative software:** We use innovative software technology such as in-memory technique, artificial intelligence, complex event processing and event-discrete simulation.
- **Overarching synchronisation:** We are capable of optimising each individual production stage while horizontally synchronising all value-added levels.
- **High-speed application:** Our solution permits integrated fine planning and control of manufacturing in mere seconds and based on intelligent software.
- **Simplicity:** The software can be used intuitively and is compatible with all ERP and MES systems. The application is a cloud-enabled platform solution.

Summary

We combine our sound expertise with our digital solution which works **on the basis of real data and in real time**. Each value-added level is therefore tuned to optimum productivity. And it is possible to synchronise the entire value chain across all levels. Our solutions make us the leading supplier in this field. Our modular solution architecture can be applied individually and in its entirety. **This improves your corporate profitability – significantly and sustainably.**

These are some of the companies for which we have successfully implemented projects:

Arcelor Mittal, Bayer, CFL Cargo, Daimler, DIGEL, EADS, Freudenberg, Grillo, Leipa, MAN, MTU, Pfeifer + Langen, Rheinmetall, Sick AG, Thyssen-Krupp

Your contacts

We look forward to meeting you!



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