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SDZ

Plan. Simulate. Optimize.

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Tomorrow begins today

In the future, success in global markets will only come to those companies that are capable of constantly refining the efficiency of their processes. The unprecedented dynamics encountered in today's highly competitive markets deprive companies of their previously stable planning foundation, thus standing in the way of long-term decisional certainty.

In times of continuous change, companies need to enhance their agility and flexibility in a manner that will enable them to effectively respond to market movements in all circumstances. To this end, companies must strive to implement adaptable, resilient structures within their corporate organisation.

This is the point where our expertise comes into play: We at SDZ build truly unique, customised solutions that are key to our clients' long-term success in dynamic environments. In order to ensure our clients' investment security right from the start, we employ top-notch simulation methods in a case-appropriate manner.

Expertise is the product of experience

Since its inception in 1986, SDZ has made a name for itself as an independent consultancy and technology firm engaged in the responsible development and design of processes as well as systems in logistics and production.





Ready for new challenges



Opt for the optimum!

If you entrust us with your project, you can be sure to receive innovative turnkey solutions from one single source. Since our approaches are as unique as our clients' needs and products, solutions supplied by SDZ are always spot on, and we guarantee their success for our clients' best benefit.

Keeping the target in focus:

Spot-on design of corporate processes

We draw on a broad array of cross-disciplinary tools that allow us to take a holistic, multi-tier approach to every challenge.

Our range of services starts with thorough supply chain analysis and extends all the way to logistics design for individual locations. We use carefully crafted simulation scenarios and methods in our engineering processes so as to ensure the subsequent 'real-world' success of our clients' products, and we support our clients right through to the stage of successful product commissioning and start-up. We also supply scheduling and production planning systems for all product-associated operational activities.



Spot-on logistics and material flow design

Our range of logistics design and engineering services covers both the creation of new logistics systems and the up-grading and restructuring of existing plants to enhance performance. Our expertise supports the success of service providers, commercial enterprises and manufacturing businesses alike.

Moving in the right direction: We plan from the inside out

Our design and engineering activities follow a strictly target-oriented procedural model that has been tried and tested over many years. This approach enables us to develop a logistics concept that will be perfectly customised to suit your needs.

We are always committed to the logic of logistics: In the first step, we develop efficient processes; in the next step, we plan the associated systems on a case-by-case basis. In a nutshell, we plan from the inside out.

Our work begins with an in-depth analysis of the requirements in light of an evaluation of existing processes and identification of the potential for process optimisation. This analysis forms the basis for the development of a robust planning framework on which future processes can be solidly built.

The next step in our work is the dimensioning phase, based on which we then select the appropriate systems in order to design different design alternatives.

These design alternatives are then subjected to a meticulous evaluation process that enables us to identify the effectiveness and efficiency and to develop an action plan for subsequent implementation. We can also provide project financing assistance and help clients devise design concepts for smooth system operation.





Everything must flow ...

Our approach is rooted in a deeply dynamic understanding of logistics. Since our methods are specifically geared to take into account the volatile nature of market demands and requirements, we can always deliver perfectly adaptable and scalable solutions.

Customised, sophisticated systems are key to minimising investment and operating costs. The feasibility of our plans and concepts both in terms of performance and functionality is verified and substantiated through simulation.

We are recognised as an unbiased and independent partner committed to assisting our clients in the smooth implementation of their logistics projects. Our approach ensures critical neutrality right from the stage of conceptual design. We cooperate with our clients' specialist in-house departments as well as with their manufacturers and suppliers.

Springboard for the future: Ensuring long-term project success

The support we provide is holistic in nature because we can rely on a network of accomplished experts and practitioners not only in the design of cross-disciplinary interfaces in the fields of building and traffic planning, but also when it comes to financing and operational aspects.

Whatever your project may be: We will turn it into a resounding success for you!



Do you need solid facts to make an investment decision?

Over the past years, many companies have come to appreciate simulation as a powerful method and thus indispensable planning tool. Simulation spans a wide range of applications: It may be employed to counteract uncertainties in logistics and facility design and to verify the quality of supply chain concepts, to name but a few typical areas.

Especially when it comes to the evaluation of highly complex processes and systems that are characterised by strong interconnectedness and interdependence, purely analytical methods will no longer suffice.





Simulation brings the future into focus



Mastering complexity

By mapping planned or already existing systems into a simulation environment, both their current and future operational behaviour can be replicated, thus allowing analysis and optimisation at an early planning stage.

Meticulous analysis of the dynamic effects to be expected in the future will provide you with a robust basis for informed decision-making.

Comparing design alternatives

Simulation enables comparison of multiple design alternatives - with a view to selecting YOUR optimum planning option.

This again will increase efficiency whilst reducing investment and operating costs.

Furthermore, simulation enables full-fledged replication of the most varied scenarios in order to provide answers to questions that typically begin with "What if ...".

Be safe, be sure: Investment decisions with foresight

A typical example are best or worst case scenarios or future scenarios that allow targeted analysis of operational behaviour in different sets of conditions. This will safeguard your investment decision against future eventualities.

From insight to foresight - APS

The economic viability of any enterprise is strongly dependent on its efficiency in meeting the demands encountered in today's highly dynamic environments.

100 % transparency ... nothing less

In order to be able to respond “spot-on” to the many internal and external influences acting on the value chain, full transparency of all value-adding processes is required throughout the business.

To this end, state-of-the-art intelligent software systems are now employed that are known by the name of Advanced Planning and Scheduling Systems (APS).

These systems accommodate a variety of applications that ensure seamless process planning, optimisation and scheduling - from requirements planning via production / manufacturing down to dispatch.

The use of APS systems allows optimisation of both performance and cost across the entire value chain.

We assist our clients in identifying their needs so as to ensure a truly customised implementation of these APS systems, and we support them all the way through to successful commissioning and final acceptance.





The future is here to stay:

Ensuring long-term efficient and flexible processes

The existing planning and control processes are meticulously captured, analysed and reorganised by us so that all client processes will be performed more efficiently and flexibly in the future.

This analytical groundwork creates a solid foundation for defining and documenting the requirement profiles to be followed in the implementation of these systems in tune with the specific operational needs of our clients.

On the right track for tomorrow

SimAL is a state-of-the-art, intelligent APS system that supports the planning and control process chain from sales planning via materials requirements planning all the way through to equipment utilisation planning (scheduling).

We attach great importance to the feasibility of requirements, i.e. our systems are high-performing and thus capable of quickly handling huge data volumes, which also enables real-time process monitoring and optimisation.

Expertise built on experience

We support your greatest asset: your individuality

We always act in the sole interest of our clients, i.e. we are not bound to any one manufacturer or supplier. Thanks to our many years of practice and commitment in this field, we have gained extensive market knowledge that enables us to identify just the right systems and components for each client.

We think more than just one step ahead

We are closely familiar with the specific workflows and requirements of the leading markets. We use our best-practice know-how for the benefit of each client by creating fresh, ingenious solutions that are the product of thoughtful knowledge transfer.

At home in the world's leading industries

Over the many years of involvement in our field, we have built up a unique wealth of expertise, and you are welcome to benefit from this rich resource, whatever industry you are in.



