

## ZETA and SIEMENS: A Global Partnership for Engineering, Implementation and Digitization of Pharmaceutical Process Plant

*ZETA's many years of experience in the management of major projects in the biopharmaceutical industry coupled with the sophisticated software solutions from SIEMENS recently inspired the two companies to enter into a strategic partnership to drive the digital transformation of the pharmaceutical sector.*

ZETA embraces the digital change that is also finding its way into the pharmaceutical world with sophisticated new digitization strategies. The development of process engineering procedures for the production of active agents is highly complex. The digital process data generated in this course need to be organised and managed in a logical and targeted manner for plant operators to be able to use them effectively.

The development of pharmaceutical products involves numerous planning steps – from development in the laboratory to industrial-scale production. In compliance with exacting international validation standards, these steps must be transparent and ensure seamless traceability. Gigantic data volumes are generated to this end. From the sum total of this mass of data the digital image of the plant and the process is created: the digital twin. The digital twin is able to bring transparency into the complexity of the production process.

**ZETA assumes the role of system integrator, and SIEMENS acts as the global system partner providing the necessary software platforms.**

The prerequisite for the digital engineering process is a stringent software landscape where all processes from process design, mechanical implementation, to automation, qualification and procurement are mapped. Based on the SIEMENS COMOS software, ZETA offers new Smart Engineering Services (SES) that make it possible for the various partners in a project to work in an integrated software environment. All data can be retrieved, used or developed in this shared software environment at any time. The customer is integral part of the planning process, and communication between the companies involved is more efficient, faster and smooth.

Martin Mayer, digitization expert at ZETA, on the practical benefits of end-to-end digitization within a software system landscape: "The customer profits from the use of qualification data for electronic validation, from the automatic update of spare parts lists and article numbers, and the fact that he will be notified of replacement and inspection dates for components and wear parts – all of this updated daily on the basis of the digital twin of the plant."

Together with SIEMENS, ZETA is paving the way towards digital transformation, and pharmaceutical companies world-wide profit from the resulting services that are geared to manage the entire life cycle of a production plant on the basis of digital information.

"We are delighted to announce our partnership with Zeta. It opens up new opportunities to drive forward the digital transformation of pharmaceutical processes worldwide. With our seamless solution for integrated engineering and operation, users in the pharmaceutical industry benefit from faster process development and product maturity," states Bart Moors, CEO Comos Industry Solutions, Siemens AG.

In addition to the integration of existing platform features, ZETA and SIEMENS also develop new modules to continuously improve the seamless continuity of the value chain.

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#### ZETA GmbH

The ZETA Group specializes in the planning, design, development, production, automation, digitization and (preventive) maintenance of customer-specific processes for aseptic applications. It employs around 800 people. Highly complex, customized plants produce biopharmaceutical active ingredients such as anticancer agents, insulin, vaccines and IV therapies. ZETA supports its customers along the entire development and production process with mature and sophisticated solutions from laboratory to industrial production of active ingredients.

#### Siemens Digital Industries (DI)

Siemens Digital Industries (DI) is an innovation leader in automation and digitalization. Closely collaborating with partners and customers, DI drives the digital transformation in the process and discrete industries. With its Digital Enterprise portfolio, DI provides companies of all sizes with an end-to-end set of products, solutions and services to integrate and digitalize the entire value chain. Optimized for the specific needs of each industry, DI's unique portfolio supports customers to achieve greater productivity and flexibility. DI is constantly adding innovations to its portfolio to integrate cutting-edge future technologies. Siemens Digital Industries has its global headquarters in Nuremberg, Germany, and has around 76,000 employees internationally.

#### Siemens AG

Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 170 years. Active around the world, the company focuses on intelligent infrastructure for buildings and distributed energy systems and on automation and digitalization in the process and manufacturing industries. Siemens brings together the digital and physical worlds to benefit customers and society. Through Mobility, a leading supplier of intelligent mobility solutions for rail and road transport, Siemens is helping to shape the world market for passenger and freight services. Via its majority stake in the publicly listed company Siemens Healthineers, Siemens is also a world-leading supplier of medical technology and digital health services. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power that has been listed on the stock exchange since

September 28, 2020. In fiscal 2019, which ended on September 30, 2019, the Siemens Group generated revenue of €58.5 billion and net income of €5.6 billion. As of September 30, 2019, the company had around 295,000 employees worldwide on the basis of continuing operations. Further information is available on the Internet at [www.siemens.com](http://www.siemens.com).