

Siemens and Zeta drive forward the digital transformation of pharmaceutical processes worldwide

- **Strategic partnership for digital transformation of pharmaceutical processes**
- **Operational usage of digital plant data**
- **New Smart Engineering Services (SES)**
- **New modules improve integration in the value chain**

Siemens and Zeta have entered into a strategic partnership. The aim of both companies is to drive forward the digital transformation of pharmaceutical processes worldwide. Zeta, a specialist with many years of experience in major projects for the biopharmaceutical industry, takes the role of the system integrator thanks to their process expertise from the pharmaceutical sector. In partnership with Zeta, Siemens acts as the system provider offering software platforms with their Digital Enterprise Portfolio. The Comos plant engineering software solution is the basis for the digital engineering platform, with object-oriented data management and the use of intelligent templates for the implementation of pharma-specific planning processes. In addition to the integration of existing platform functions, Zeta and Siemens are developing new modules to further improve the integration of the value chain.

Zeta is embracing digital transformation with sophisticated new digitalization strategies. The development of industrial processes for the production of active

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ingredients is highly complex. The creation of pharmaceutical products requires numerous planning steps, from development in the lab through to large-scale industrial production. In the strictly regulated pharmaceutical sector, these processes must be transparent and fully traceable. In project engineering, huge volumes of data are generated, which must be structured logically. This requires a stringent software landscape, which integrates all processes from industrial process design through mechanical implementation, automation, and qualification to delivery.

The new digital planning environment is oriented to the specific requirements of all project participants and enables different project partners to work together from various locations in a shared software environment. The basis for this is Comos, the plant engineering software solution from Siemens. From this digital software environment, all data can be accessed, used or further developed at all times. Users are seamlessly integrated in the planning process, which offers the advantage of more efficient, faster, and smoother cooperation between participating companies. At the end of the comprehensive and integrated planning process, Zeta has a digital twin of the plant and the process. Using Smart Engineering Services, Zeta makes the digital twin available to plant operators for the efficient operation and maintenance of the plant.

The practical advantages of integrated digitalization in a software system landscape are summarized by Martin Meyer, digitalization expert at Zeta: “The customer benefits from the use of digital qualification data for electronic validation, automatic updating of spare parts lists and order numbers, replacement and testing dates for plant components and wear parts – all kept up-to-date based on the digital twin of the plant.”

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“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.

This press release can be found at: <https://sie.ag/2TLIAKV>

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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 (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

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Joint Press Release Siemens and Zeta

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.

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.

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