

CRADLE FOR PHARMA 4.0 – TRANSFORMING PHARMACEUTICAL PROCESSES

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Several, often interlinked trends are currently the driving change in the pharmaceutical industry and placing unprecedented demands on agility, flexibility and adaptability. To achieve the expected profit, production of a new drug should start immediately after its approval. However, the planning and construction of the required plant is started at the latest possible stage. This allows investment decisions to be made at a later stage and cushions the high risks of drug development. In addition to ever faster time to market, increasing competitive pressure is forcing pharmaceutical manufacturers to be best-in-class. At the same time, it is imperative to work with maximum cost efficiency.

During operation, several digital solutions provide support for daily tasks: digital/electronic qualification and validation, virtual & augmented reality for training & support, smart maintenance or monitoring and diagnosis applications are examples to name a few. These solutions combine meta data (e.g: article numbers, location, spare part number, 3D model etc.) with real-time data and the effort to acquiring the meta data is significant.

Most of these meta data is essential during the engineering phase and by integrated, digital engineering this data is made available in a smart way. The combination of ZETA's know how in integrated engineering and SIEMENS IT & software competence in form of the COMOS platform allows a platform solution for supporting all project partners/disciplines during all project phases.

Based on a recent € 100+ Mio. project in Vienna the presentation will deliver insight in the approach of integrated, digital engineering, the applied software tools as well as the outstanding results like hyper fast track project execution (24 months), creation of the digital twin of process and plant and delivering harmonized data for operations supporting maintenance or validation.

BENEFITS:

- Ultra fast project execution (24 months)
- Improved Change Management
- Digital Documentation hand over IEC 61355
- Digital Twin of Plant and Process
- Smart Maintenance Support (Orientation, 3D Models, Documents Spare Part)

