



Digital Twin – Use Cases und Erfahrungsberichte aus der Swiss Smart Factory

Dr. Dominic GoreckyHead of Swiss Smart Factory
Research Director I4.0/IoT

Switzerland Innovation Park Biel/Bienne



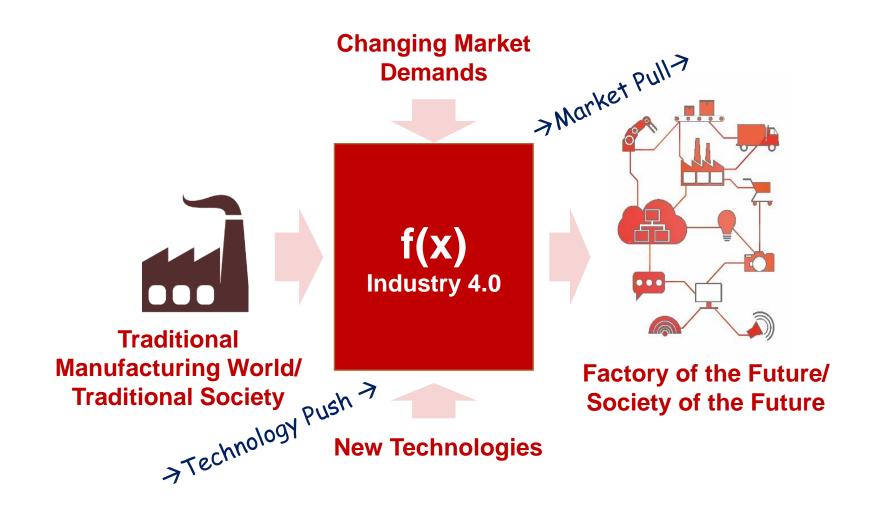






Industry 4.0

...as a Transformation Process

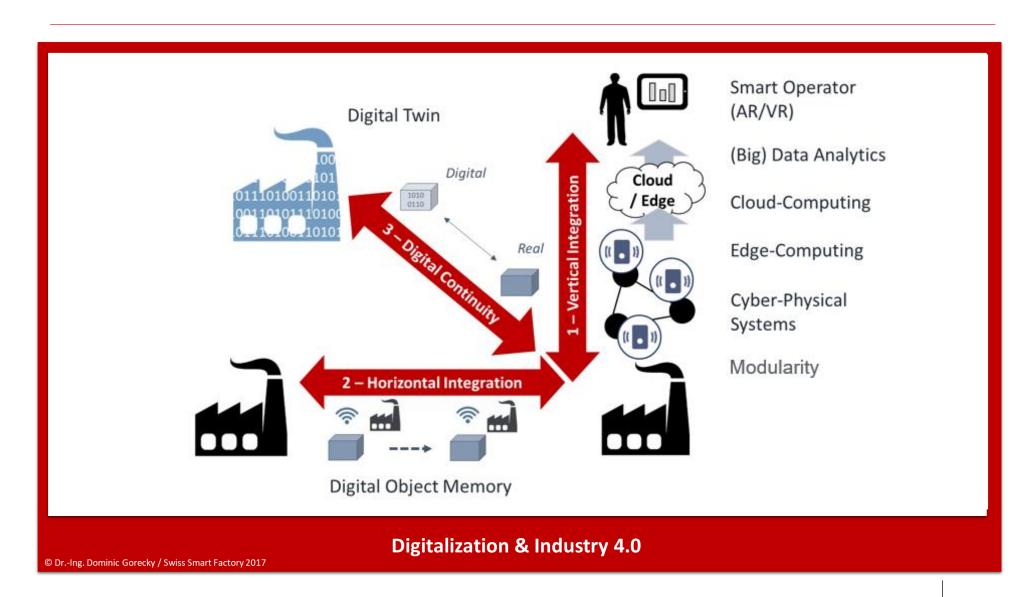






Industry 4.0

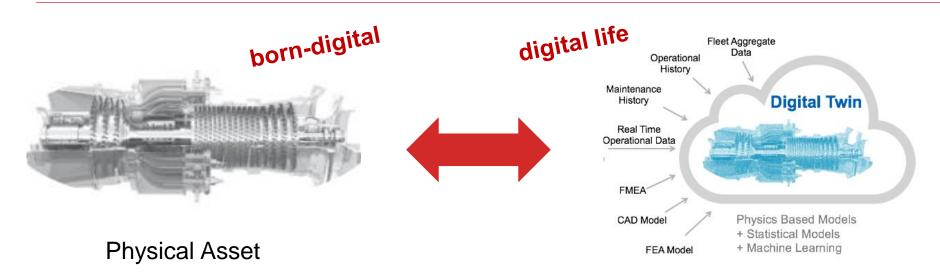
A multifaceted and interdisciplinary challenge



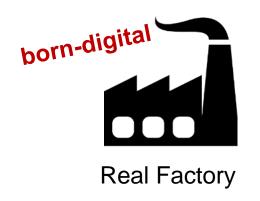




Introduction: Digital Continuity



Digital Asset / Digital Twin





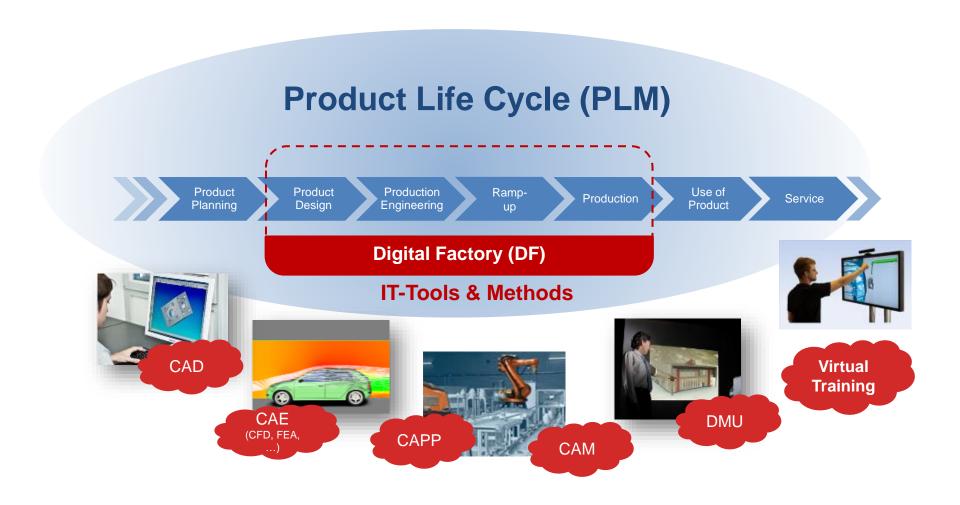


Digital Factory / Digital Twin





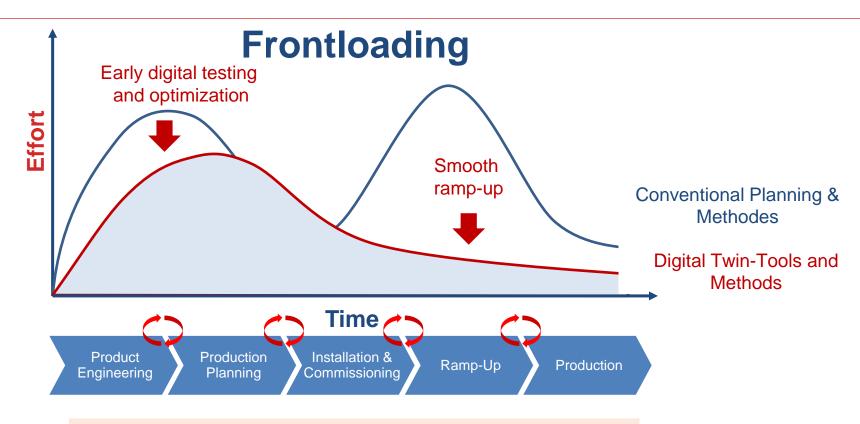
Introduction: PLM / Digital Factory VDI-Guideline VDI 4499







Digital Frontloading



- Secure ramp-up and production phase (less errors, shorter time-to-production)
- Reduction of physical hardware and protoyping

SWISS SMART FACTORY – FIRST PLATFORM FOR INDUSTRY 4.0 IN SWITZERLAND







SWISS SMART FACTORY

Membership Programme – started March 2018

















































































































เงลเเบทสา / เกเษากลเเบทสา





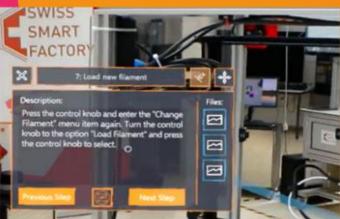












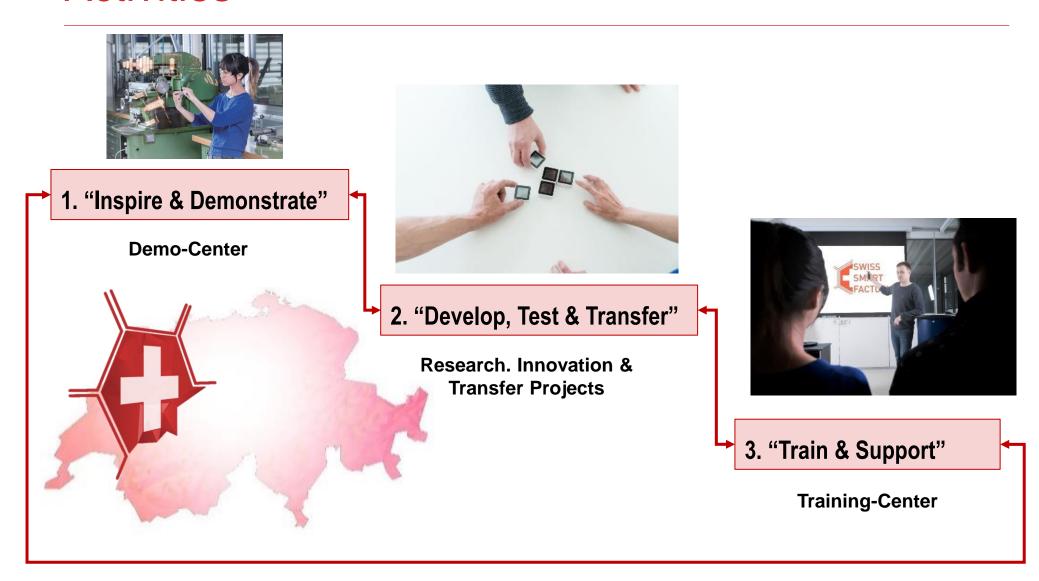


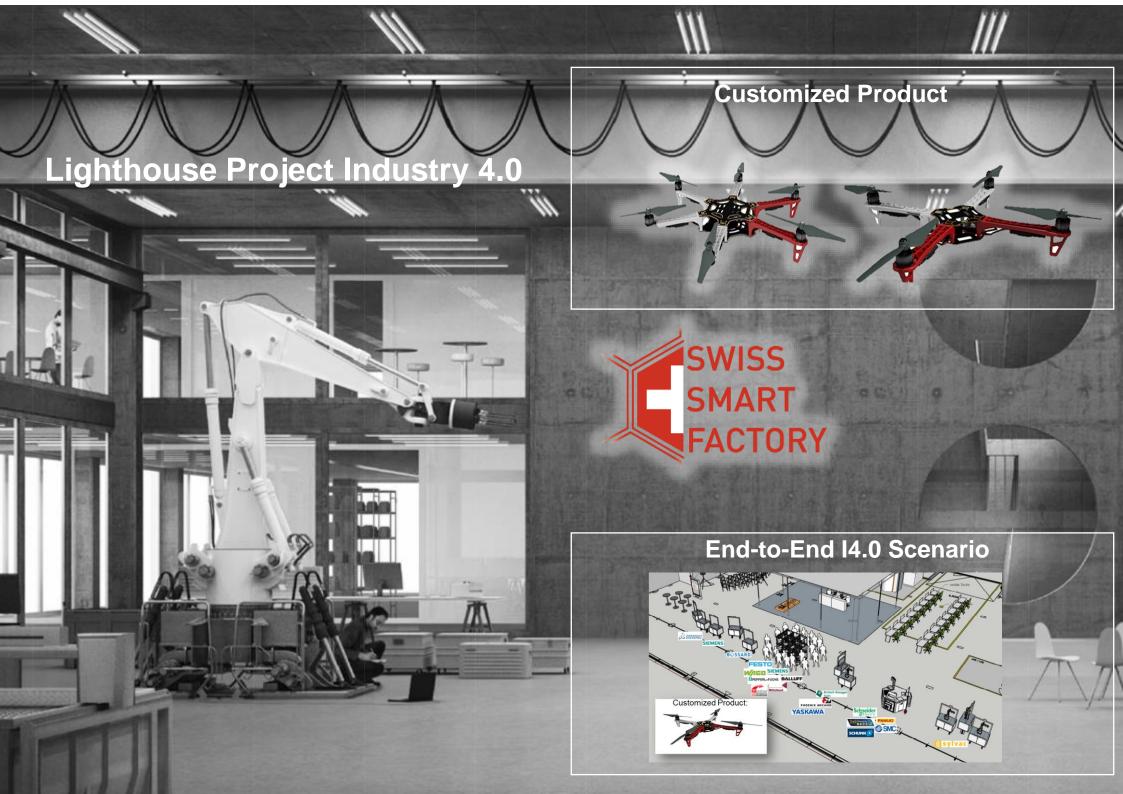




SWISS SMART FACTORY

Activities

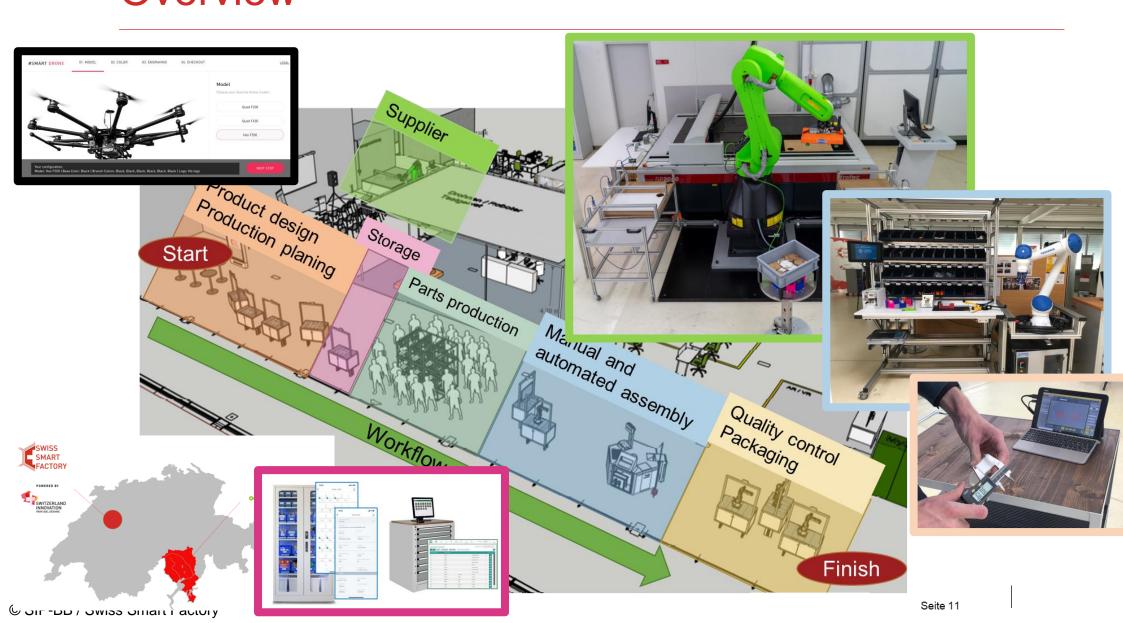








Lighthouse Project Industry 4.0 Overview







Swiss Smart Factory Unique Selling Points (USP)

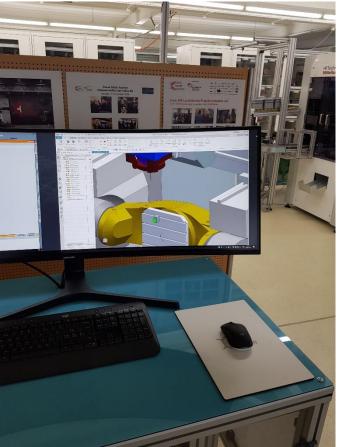


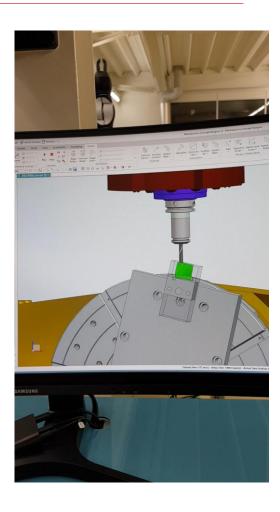


Tool Machine of the Future Concept



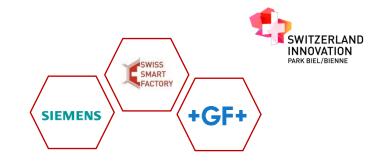


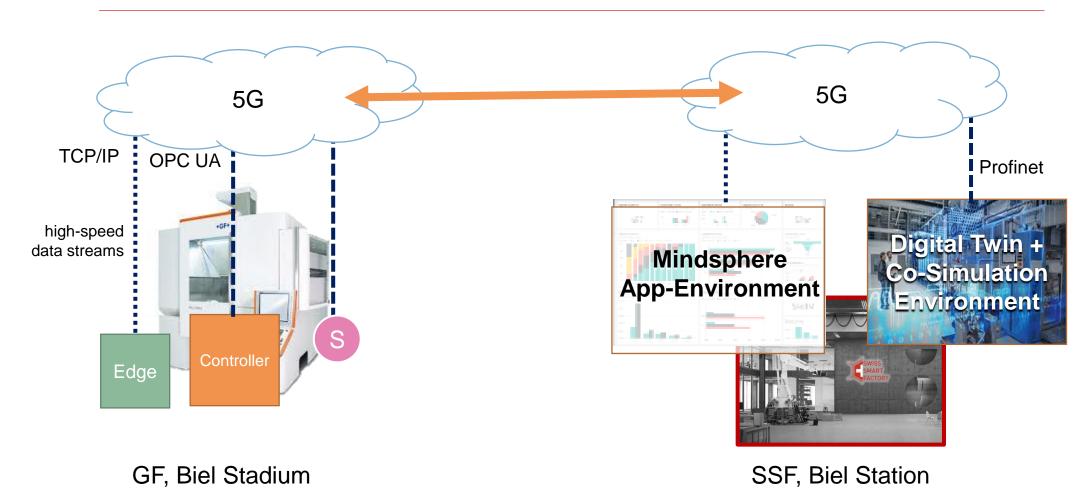






Tool Machine of the Future Concept





08.02.2017





SSF-Partner SO REAL Mass-Production of Digital Twins

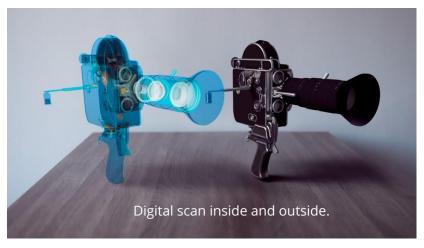


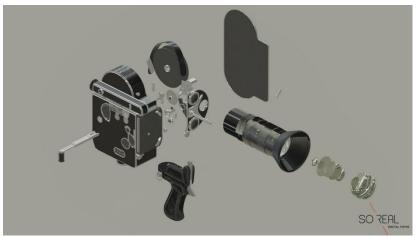
Patented (pending) scanning and conversion technology

- Automates the production of digital twins of 3D objects
- using X-Ray Technology for inside and outside

Mass-production of cinematic-quality, game- / XR-ready 3D assets for use in games, films, and XR experiences

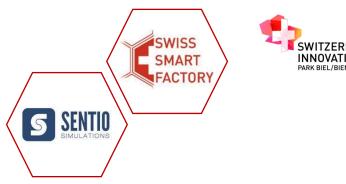


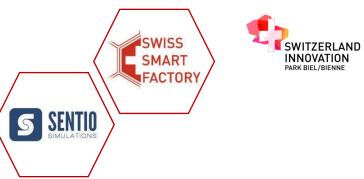






SSF-Partner Sentio Interactive Virtual Training











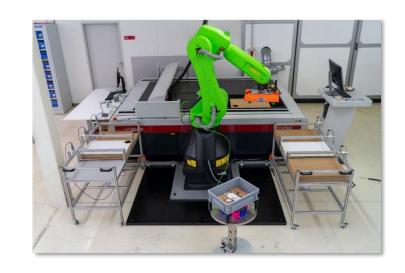




SSF-Partner SideEffects

Digital Twin Visualisation

vSTAGE is your editor & player for interactive realtime projects. Control a free moving camera and create interactive projects from your 3D digital twin, media and information.









THANK YOU FOR YOUR ATTENTION

DR.-ING. DOMINIC GORECKY
HEAD OF SWISS SMART FACTORY
RESEARCH DIRECTOR I4.0/IOT
SWITZERLAND INNOVATION PARK BIEL/BIENNE

TEL: +41 79 579 48 84 DOMINIC.GORECKY@SIPBB.CH