

Swiss Smart Factory Lighthouse Industry 4.0 production ecosystem

Switzerland Innovation Park

<u>Founded</u>:2017 <u>Location</u>: Biel, Switzerland <u>Technology</u>: IoT, Industry 4.0 <u>Industry</u>: MedTech, Watch Industry, small production <u>Website</u>: https://www.sipbb.ch/en/



SWITZERLAND INNOVATION PARK

SWITZERLAND

Switzerland Innovation Park Biel/Bienne (SIP-BB) is a multidisciplinary non-profit R&D organisation (SME) that operates the Swiss Smart Factory (SSF). Swiss Smart Factory (SSF) is Switzerland's leading and internationally recognized competence center in application- oriented research on "Industry 4.0" and "Internet of Things". The SSF has been created in May 2017 as the first and only Digital Innovation Hub (DIH) in Switzerland. SSF acts as a regional and national multiplier and facilitator for digital innovations. It supports technology development and transfer from the first idea to the market introduction. Special focus is set on supporting SMEs and start-ups with the uptake and introduction of ICT innovation – _both from technology and business perspective

SWITZERLAND INNOVATION PARK PILOT LINE

3D Printer Farm

The 3D Printer Farm shows how to digital retrofit existing machines, different technologies like, OPC-UA, REST-API, IO-LINK, Low-Code are in use here and can be experienced. Here the standardized OPC-UA Datamodel is used as an CIM. Each of the nine 3D printer odules have their AAS, and are connected to the DIMOFAC Platform thanks to their OPC-UA servers.

Manual workstation

Our manual workstation is helping the worker in their daily production tasks, it allows to keep the quality at a high level and allows fast introduction to new product configuration. Thanks to the product AAS the manual workstation can reconfigure automatically following the specification of the lot sized one product.

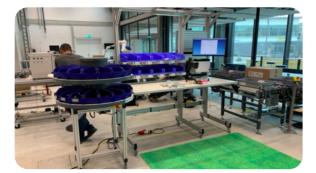


Swiss Smart Factory Lighthouse Indsutry 4.0 by SSF (CH) represents an IoT-based, end-to-end production scenario addressing the requirements of high-wage, high-value manufacturing in Switzerland.











SERVICES OFFERED

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Consultancy

- Smart Worker Guidance How can my organization help employees to be more efficient
- OPC-UA Datamodelling How can I develop an OPC-UA datamodel (CIM) for my machines, and its AAS
- Digital retrofit- How can my organization get data out of "old" machines
- Low-code What are the possiblity with Low-code application in my organisation
- Cobotic- Where can my organisation use a cobot
- RFID Where can my organisation use digital logistic

Process development

On-site analysis and development of digital strategies

Pre-series

- Support during the development of prototype IoT Integration
- Support during the development of prototype automation system

4 Training

- Low-Code programming
- Digital Lean Production
- Big Data and Data Analytics
- Cobotic automation



VALUE PER SERVICE

- Consultancy 10k EUR
- Process development 80k EUR
- Pre-series 35k EUR
- Training one day 5kEUR

