



DIGITAL PROCESS CHAIN

Cyber security & resilience

BACKGROUND

As manufacturing systems become increasingly digitized, reliance on digital infrastructures and data is also growing. Production processes, machine controls, and development data are potential targets for cyber threats. At the same time, data must remain secure, available, and trustworthy throughout the entire product lifecycle. Especially in safety-critical sectors such as aviation, robust and resilient systems are a key prerequisite for the use of digital technologies.

ADDED VALUE

- Protection of sensitive development and production data
- Enhanced operational reliability of digital systems
- Ensuring data integrity and traceability
- Foundation for certifiable digital processes
- Minimization of downtime risks
- Trustworthy collaboration with partners
- Future-proof digital infrastructure

TECHNOLOGY

At chesco, cybersecurity is viewed as an integral part of the digital process chain. The focus is on secure data architectures, access concepts, and the protection of machine and process data. In the context of the digital twin, research is being conducted on how data can be protected throughout its entire lifecycle while remaining usable. This includes strategies for data storage, processing, and validation, as well as approaches for securing networked systems and ensuring system stability in the event of malfunctions or attacks.

