

SCE Digitalization Concept – Comprehensive support for educators on the journey to Industry 4.0

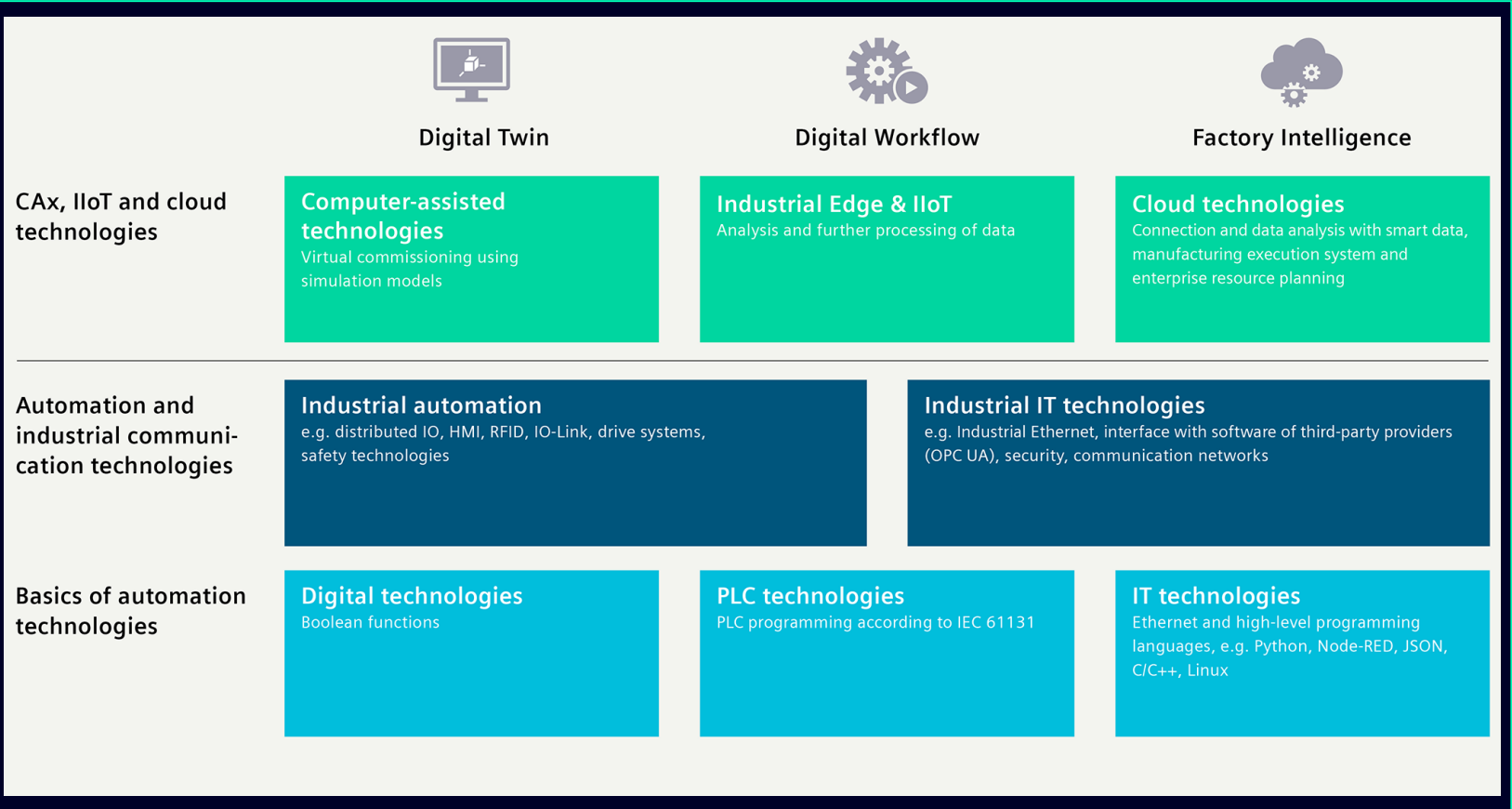
Siemens Automation Cooperates with Education (SCE) | 02/2026

SCE Digitization Concept – Interdisciplinary skills are the key to professional success.

New competency profiles

Interdisciplinary competences...	
Technological knowledge	Comprehensive system understanding
Simulation techniques	Agile development processes
Computer-aided product development	Design thinking
Understanding of value chains	IT expertise
Modeling	...
Interdisciplinary knowledge...	
Problem-solving ability	Dynamic learning
Communication skills and ability to work in a team	Independence/self-motivation
Dealing with complexity	...

Multi-stage concept for holistic knowledge transfer



SCE Digitization Concept – Traditional job descriptions are increasingly merging...

Mechanical engineering

Digital twin, digital workflow, multiuser

Automation technology

Edge computing, artificial intelligence, IIoT

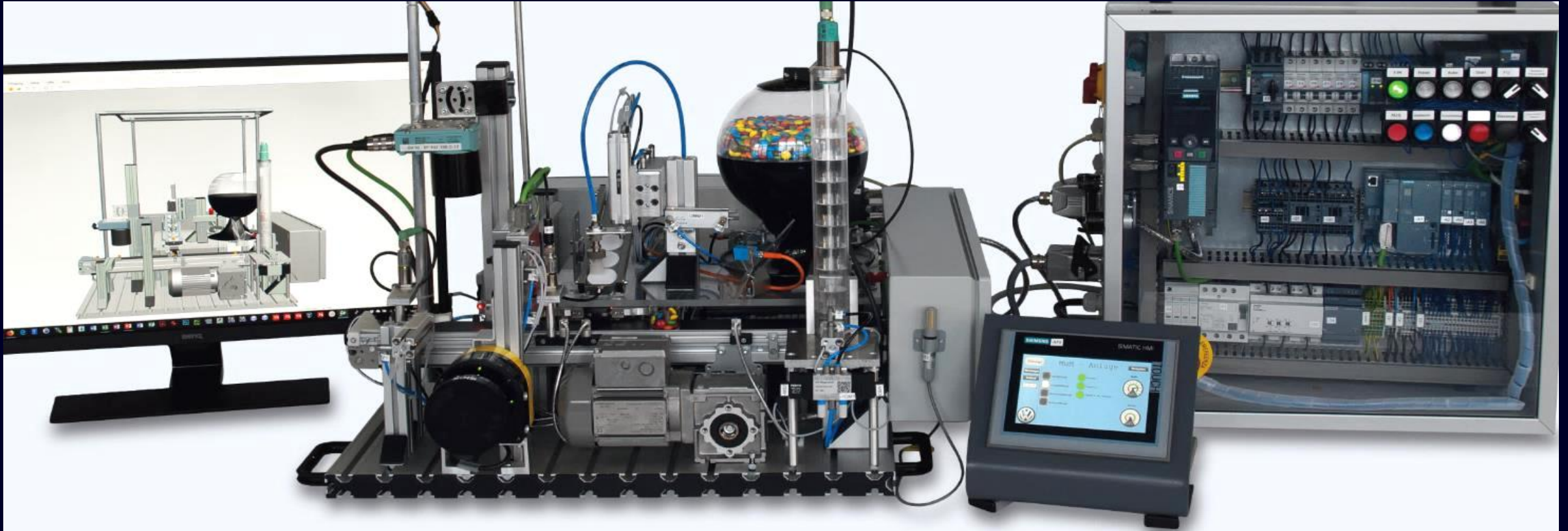
Information technology

Factory intelligence, cloud-based systems



SCE Digitization Concept – Implemented by Vocational School 2 in Wolfsburg, Germany in a group project

Best Practice: Implementation by BBS 2 Wolfsburg. Not available for purchase!



1. Intuitive TIA Portal engineering of the real automation plant with SIMATIC S7-1500/ET 200SP/RFID/SCALANCE/SINAMICS
2. Virtual commissioning with the help of the digital twin using Siemens NX-MCD CAD software
3. Cloud connection via IOT2050 for evaluation of production data

SCE Digitization Concept – Interdisciplinary Skills are the key to professional success

Digitalization is quickly and radically changing our world.

What does this mean for education?

Many schools, colleges and universities are facing the challenge of conveying Industry 4.0 know-how as part of their teaching and training. In order to support educators and their students on their way to Industry 4.0, SCE created a digitization concept for educational institutions

[➤ Discover the SCE digitalization concept](#)

Additional Informationen

Future of Manufacturing	DigiTwin learning & training documents	Use Cases	TIA Portal & SIMIT SW for Educators/Students	Solid Edge Learning Resources for Educators/Students	PLM Software Academic Partner Program for Educators/Students
PLM SW Academic Partner Program – Requests	EDA Academic Products	Mendix - University Program	Siemens Xcelerator – accelerate digital transformation		



SCE Digitalization Concept – Comprehensive support for educators on the journey to Industry 4.0

Siemens Automation Cooperates with Education (SCE) | 02/2026

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

All product designations, product names, etc. may contain trademarks or other rights of Siemens AG, its affiliated companies or third parties. Their unauthorized use may infringe on the rights of the respective owner.