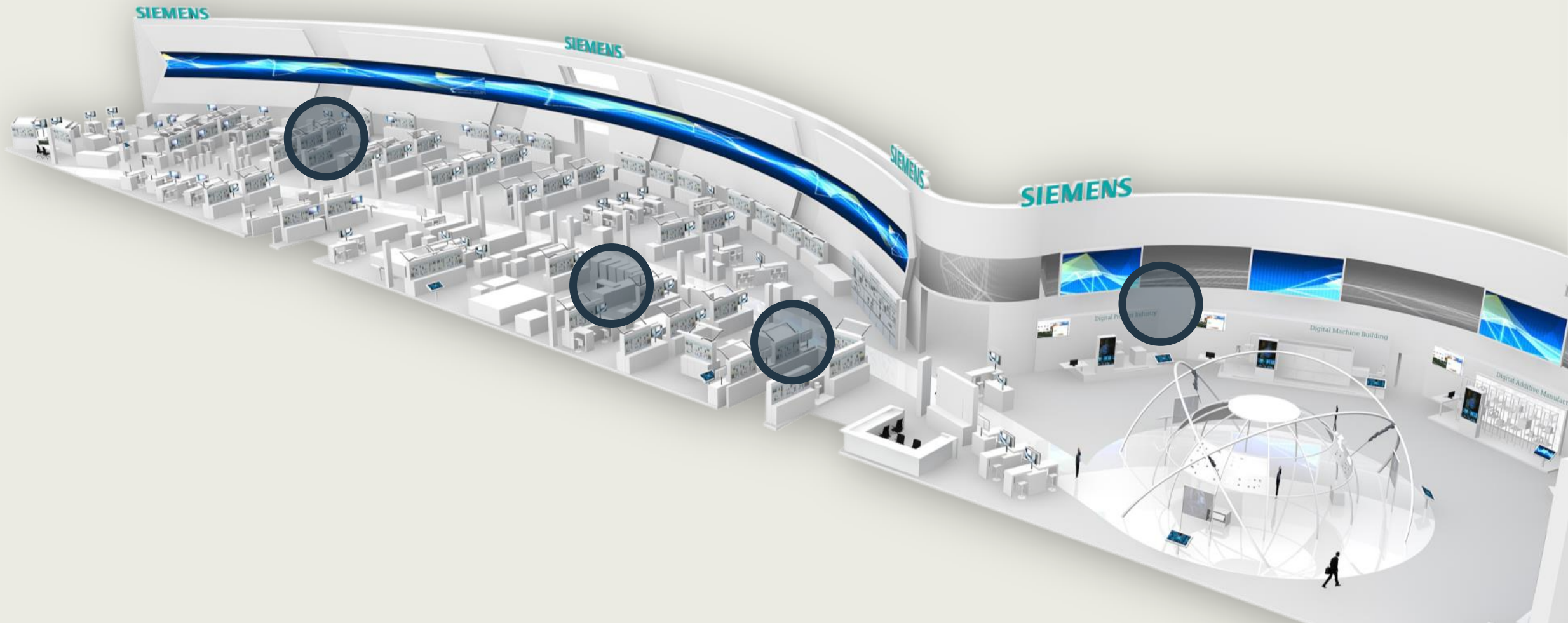


Digitalization with innovative and integrated technologies

Peter Herweck | CEO Process Industries and Drives Division

Siemens at the Hannover Messe 2015: Product highlights and innovations for process and drive technology customers

SIEMENS



Siemens at the Hannover Messe 2015: Product highlights and innovations for process and drive technology customers

SIMOTICS GP/SD

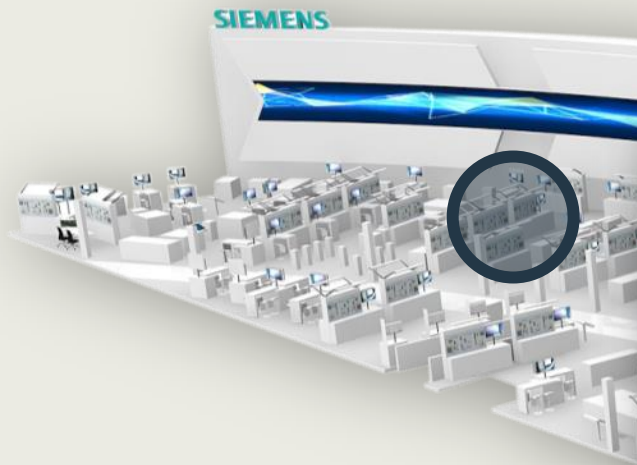


Synchronous reluctance motors with **SINAMICS** converters

- High dynamic and speed consistency for precise control capability
- Integrated Drive System (IDS)
- Extreme energy efficiency also in part load operation
- Simplified commissioning

www.siemens.com/simotics

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SIMOTICS HV M



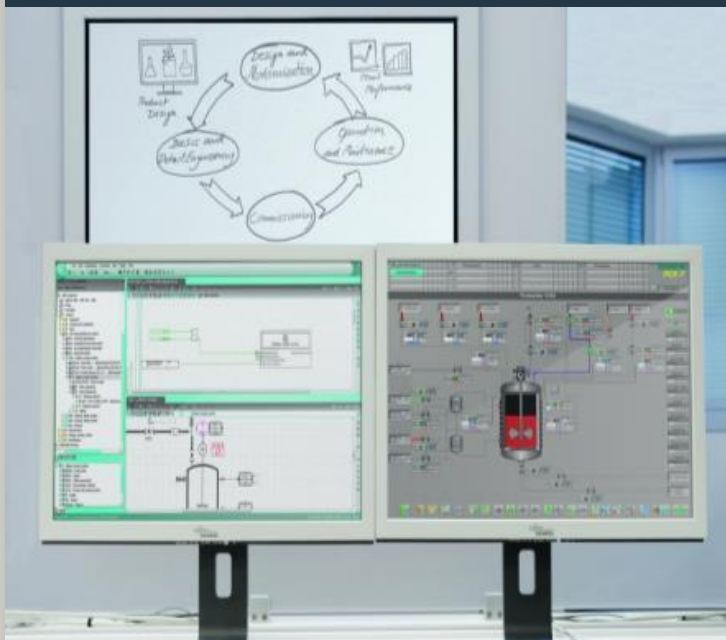
Modular high-voltage motor

- Available as Integrated Drive System (IDS) with SINAMICS medium-voltage inverters
- Enhanced plant availability and short delivery periods
- Integration in standard tools shortens project engineering phase

www.siemens.com/high-voltage-motors

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COMOS + SIMATIC PCS 7



Integrated plant management

- Simple, trouble-free data exchange
- Automated engineering for PCS 7 hardware & software
- Faster, safer commissioning through simulation
- Up-to-date plant documentation at any time

www.siemens.com/comos-pcs7



Efficient exchange or upgrading of process modules with Digital Twin

Digital Twin

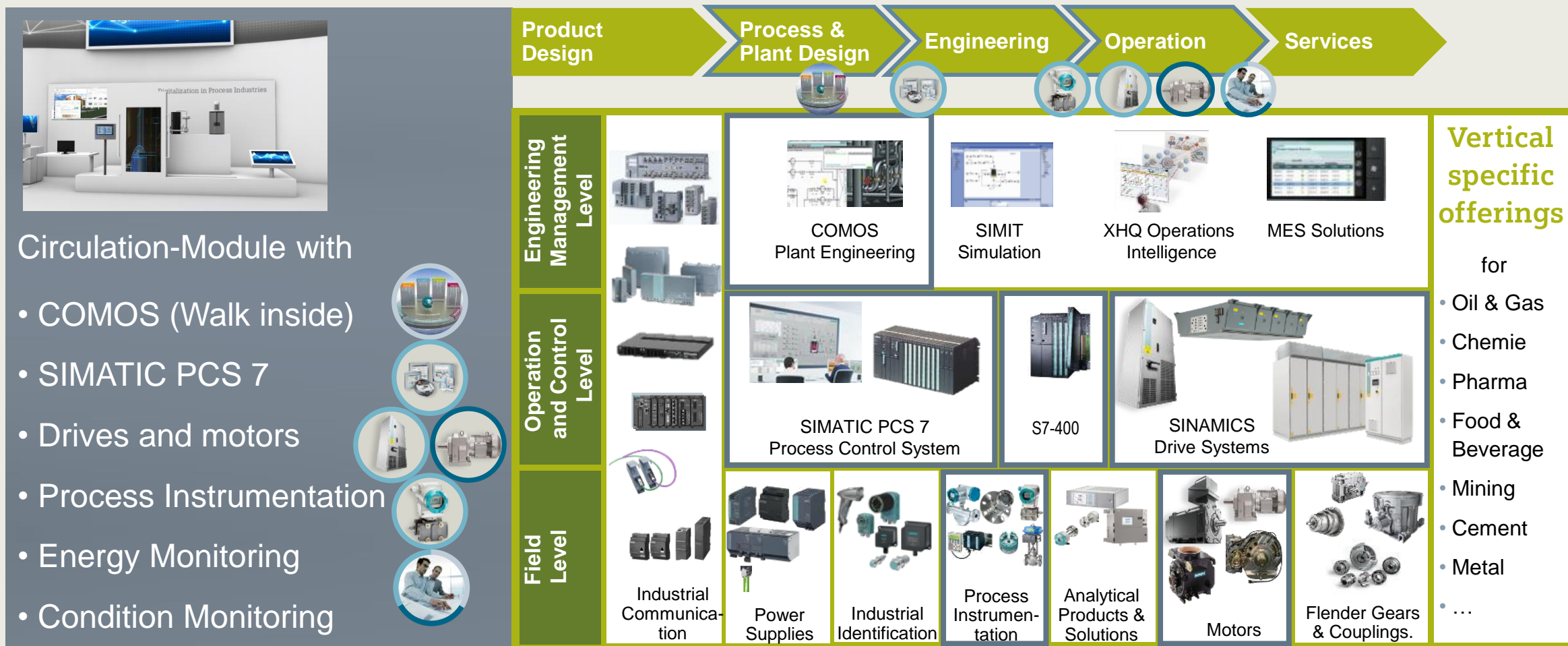


Digitalization in process plants

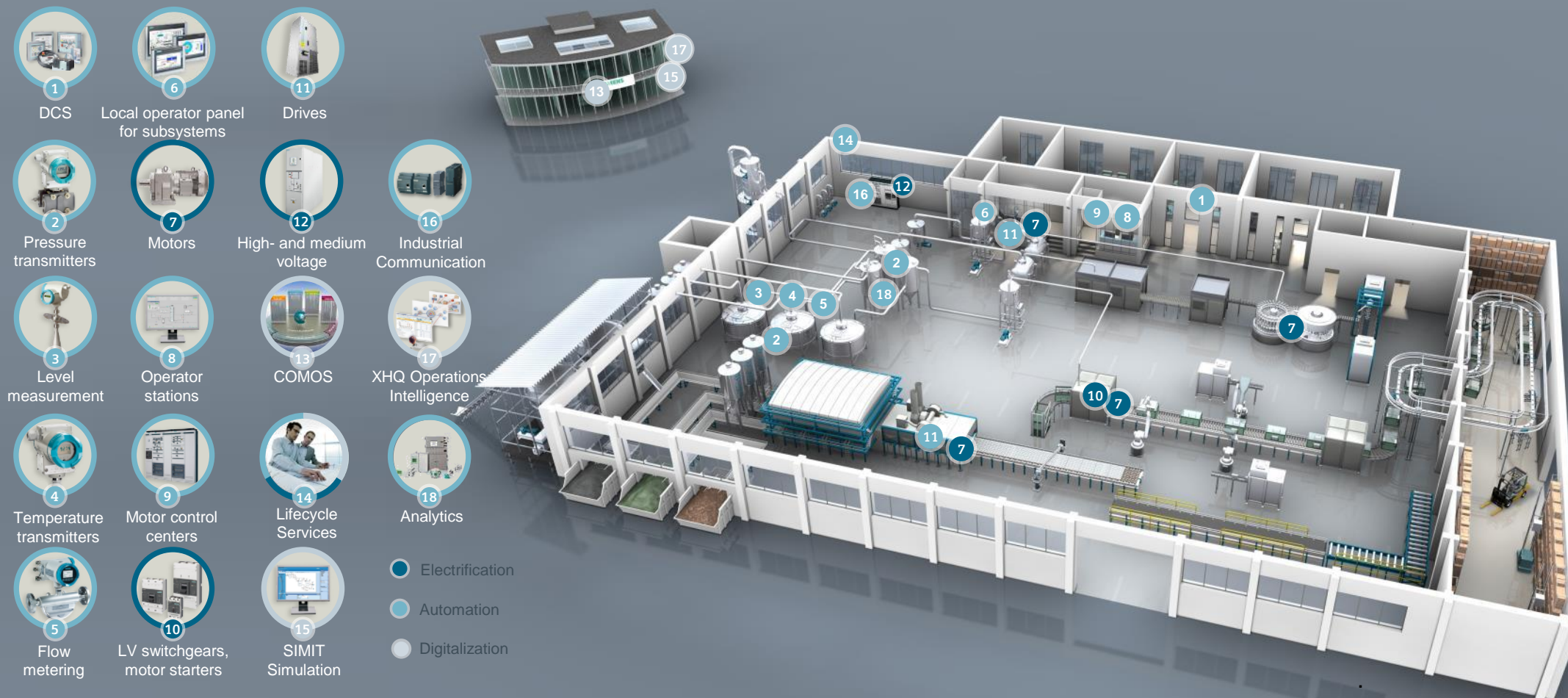
- The integrated product portfolio can be more efficiently engineered using COMOS and PCS 7.
- Perfect integration and virtual testing of new components using the Digital Twin.
- Greater flexibility, shorter time-to-market, greater reliability in the engineering and operational phase.



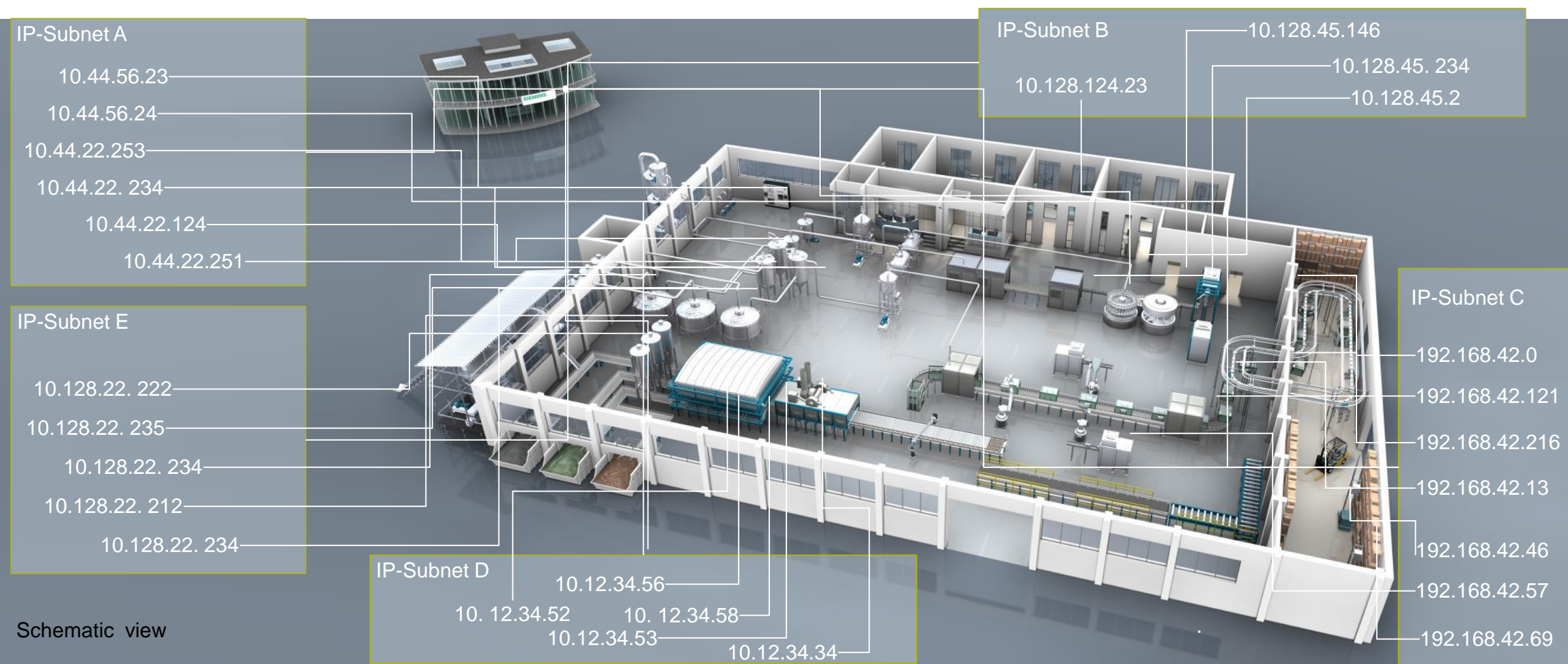
Broad sections of the comprehensive and integrated process industries portfolio are deployed in the liquid circulation model



The integrated Siemens portfolio covers the diverse aspects of the production chain, allowing integrated engineering and operation



Modern plants work with complex communication networks



Effortless communication in industrial applications using symbolic names – with no address planning

Challenge

- Laborious manual issue of IP addresses, susceptibility to error
- Manual route planning through the network

Solution

- Automatic issue of IP addresses in the device itself
- Users see only the technological names, no IP addresses
- Automatically configured IP routing

Benefit

- Flexible configuration and reconfiguration of machines and plant networks
- Improved usability by moving address management out of engineering into run time
- Enormous simplification for remote servicing coupled with improved security
- Clear time and cost savings in the development, conversion and expansion phases

At the Hannover Messe, Siemens will be showcasing innovative technologies to address key requirements arising in the process industries

**Modularization and
Digital Twin**

**Integrated portfolio
and integrated
engineering**

**Effortless industrial
communication**

