



New possibilities through digitalization

How products are designed How we simplify production processes How we optimize product performance

The Digital Enterprise portfolio for Industrie 4.0 is already here – new flexible solutions for new data-based business models



The conditions are in place

The hour of implementation has arrived!

- > For shorter time to market
- > For greater flexibility
- > For improved quality
- > For more efficiency



>150 billion € of additional growth for Germany through digitalization¹

Only one fifth of German SMEs are among the digital pioneers²

Germany's powerful SMEs are highly innovative – The time to leverage the opportunities of digitalization is now



68%

of small and medium-sized enterprises in Germany envisage opportunities for new, digital business models¹



38%
aim for improved customer support



17% expect increased revenue²



41% have registered sales growth¹



79% envisage potential for production

optimization



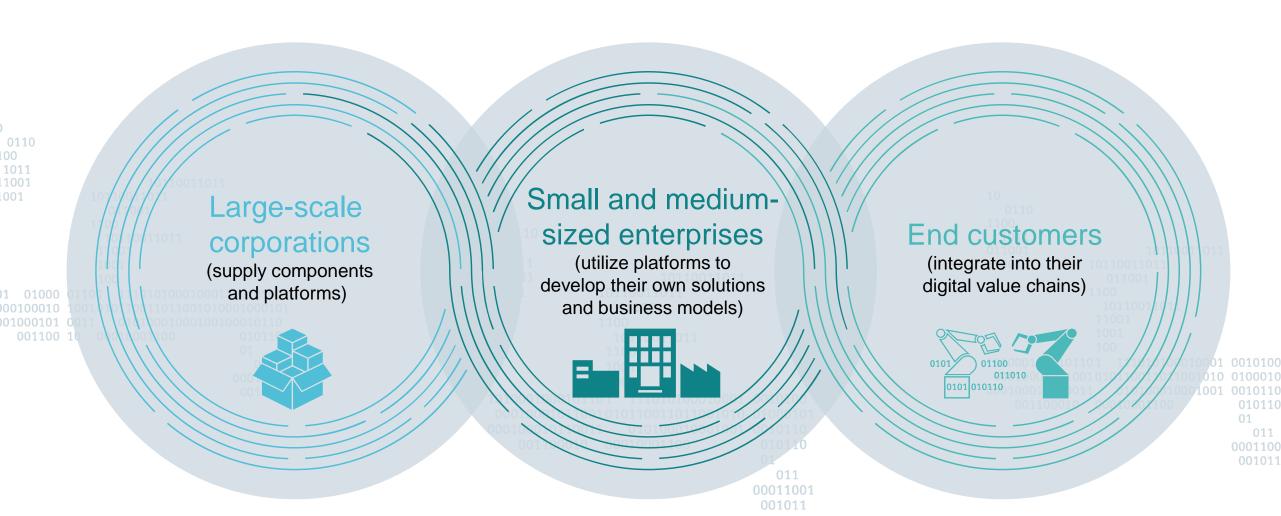
50% able to exte

are able to extend their product and service portfolio²

¹ Source: IHK Company Barometer 2016 (1620 companies surveyed) | 2 Source: Federal Ministry of Economics: Brochure "SMEs go Digital" (March 2017)

Cooperative partnership based on mutual respect – Vital to the digitalization breakthrough

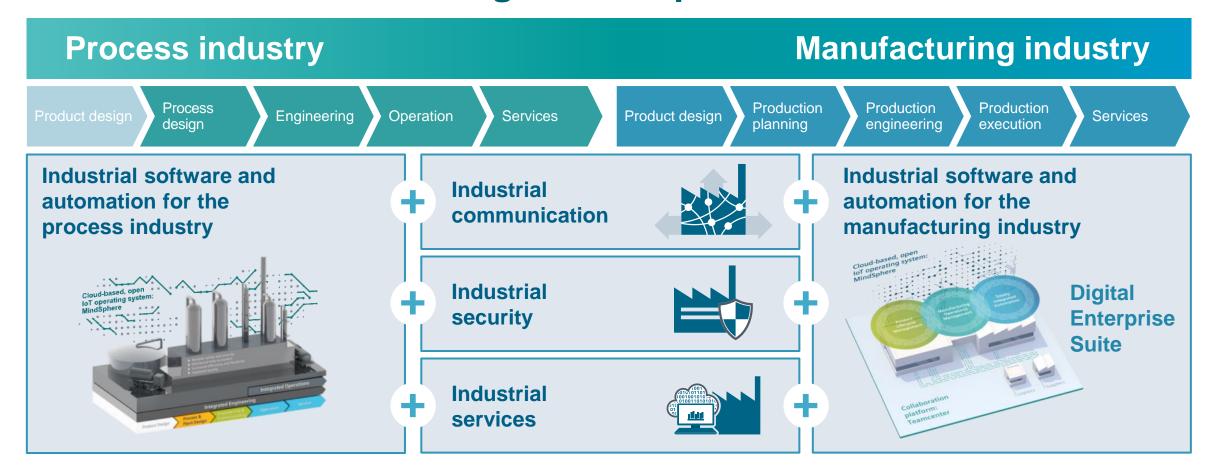




Digital Enterprise is our portfolio of solutions for digital transformation in the manufacturing and process industries

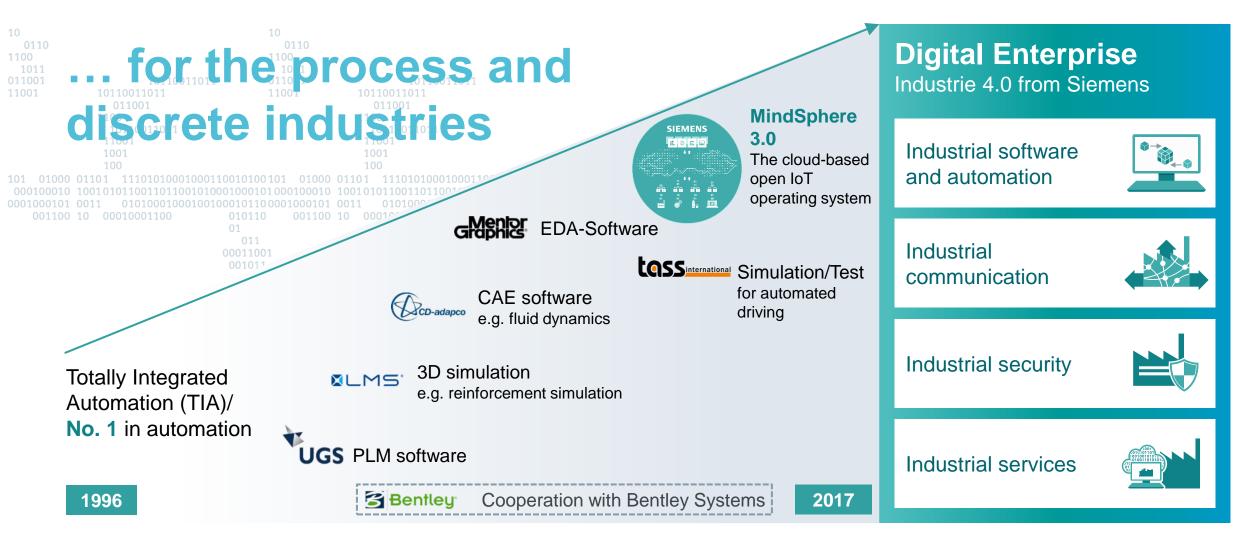


Digital Enterprise



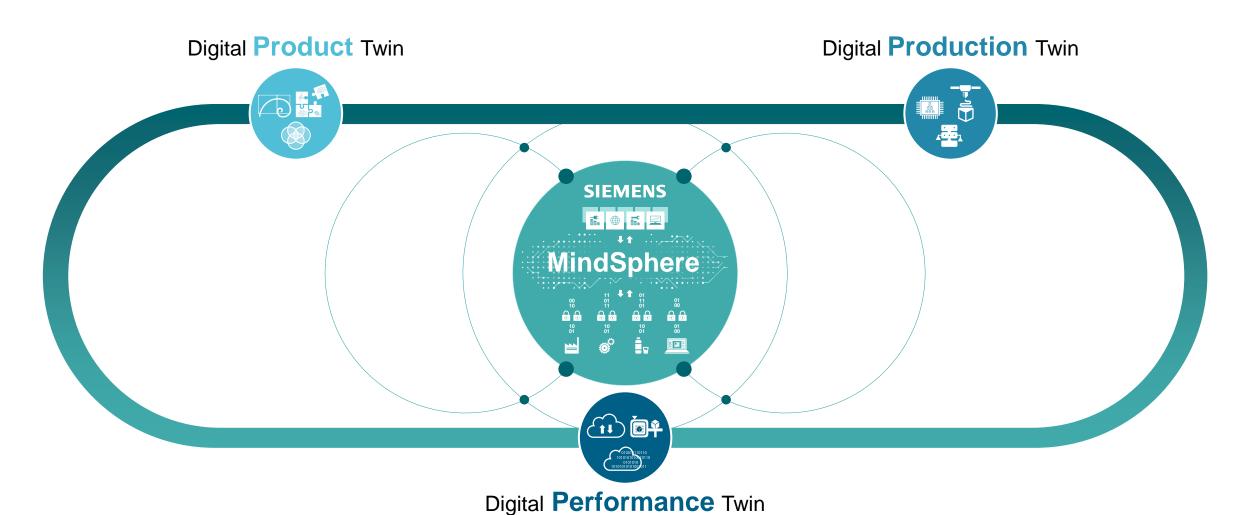
Digital Enterprise from Siemens – Systematic development of a portfolio for the digitally integrated value chain





The digital twin creates the conditions for flexibility in product design, in production and product performance





Our Digital Enterprise portfolio innovations at the SPS 2017 – A selection of highlights



MindSphere 3.0

Now on Amazon Web Services with more efficient open Application Programming Interface (API) for external developers



SIMOTICS IQ

Connection of electrical Siemens motors to the cloud



TIA Portal V15

Integration of handling functions and robotics



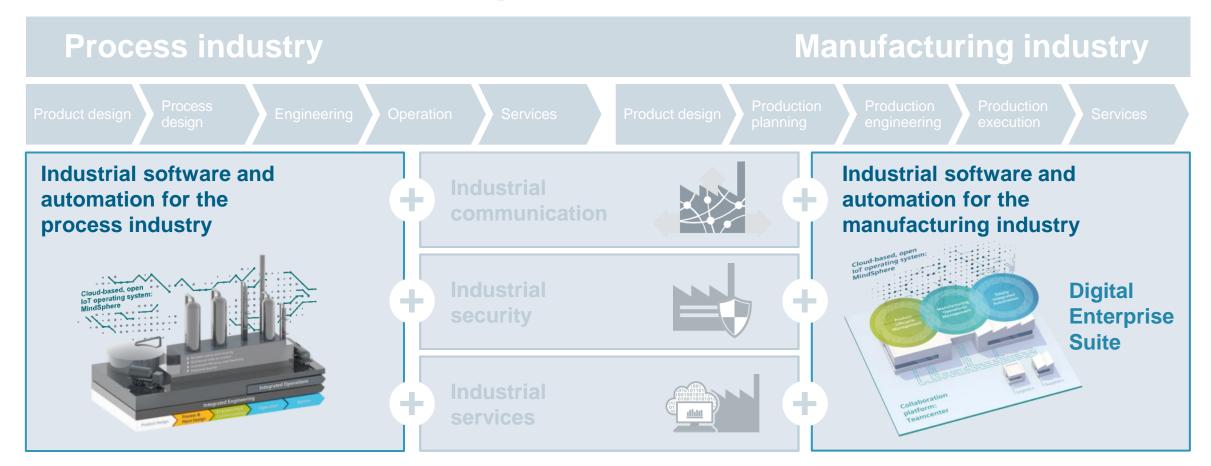
S7-PLCSIM Advanced 2.0/NX 12

Virtual commissioning of individual units, machines and whole plants

Industrial software and automation for the process and manufacturing industry



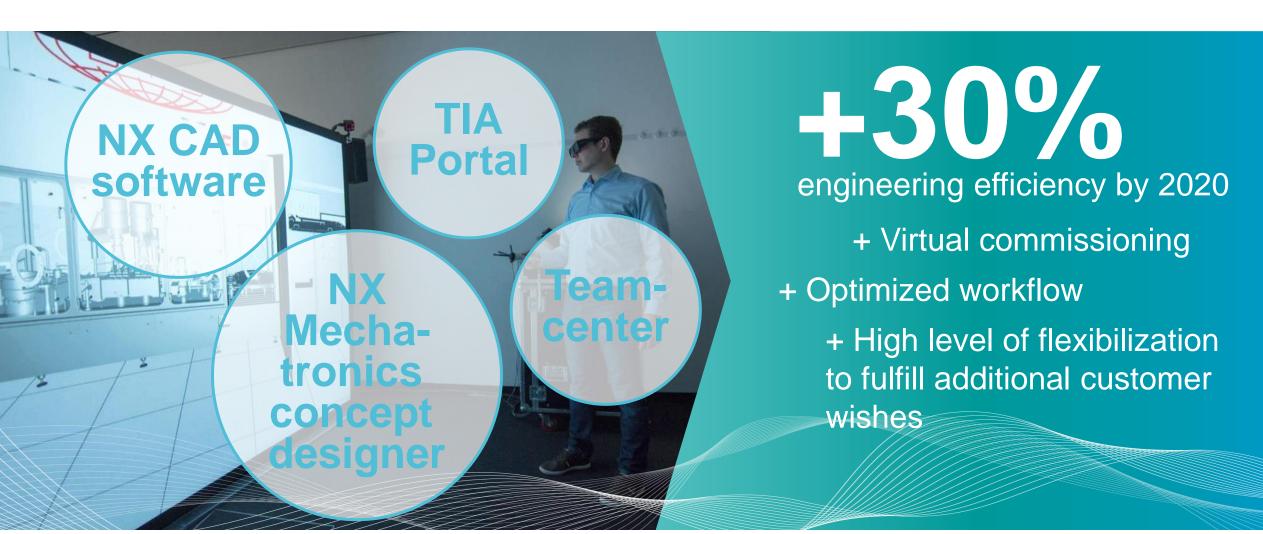
Digital Enterprise





Competitive edge for Bausch + Ströbel due to digital twin – Faster engineering and commissioning

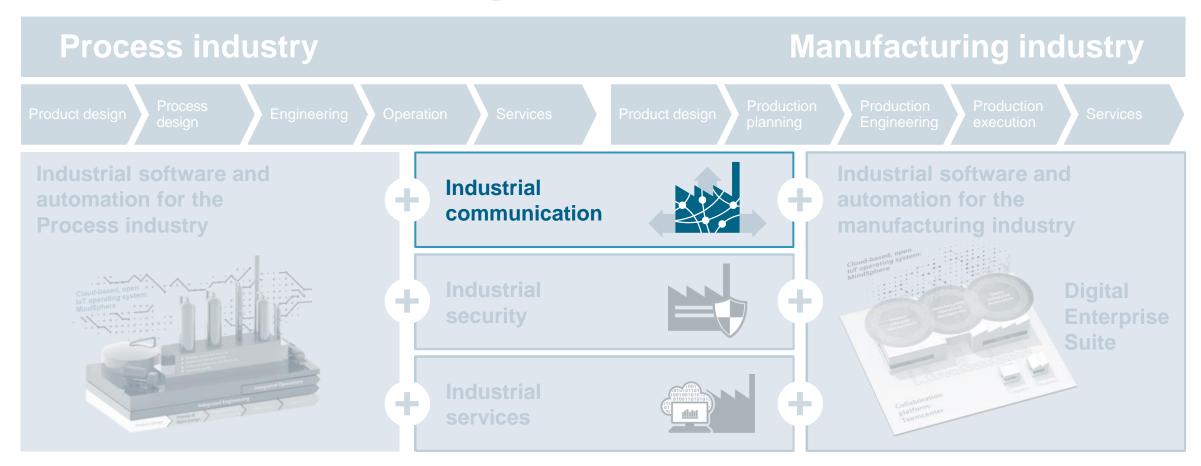




Industrial communication



Digital Enterprise



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Before

SIEMENS

Ingenuity for life

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Now

Digital requirements analysis across the entire logistics process at Würth Industrie Service with iBox and RFID technology: rapid consumption-driven delivery with cost savings of up to 20%

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Photo: Würth Industrie Service GmbH & Co. KG

Laborious – often manual – stocktaking, time-consuming order processes and cost-intensive controlling

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Communication from the field level up to the cloud – Siemens designs and implements industrial networks





Cloud

Secure data storage and transfer

Industrial backbone

Coordinated transition between automation network and IT network

Machine level/cell level

Production and automation cells

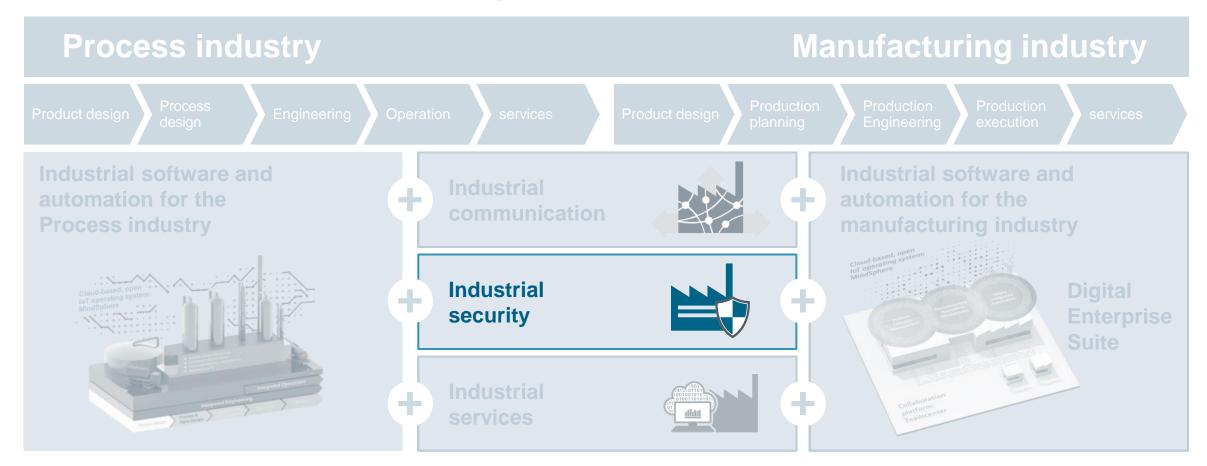
+ One solution partner for industrial networks

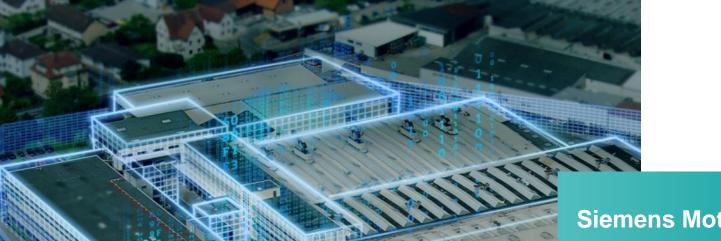
- + End-to-end secure data communication
- + Industrial networks for widely different sectors of industry
- + Training schemes and global partner network

Industrial security



Digital Enterprise







Siemens Motor Factory in Bad Neustadt
Defense in Depth makes for
greater machine security

- Secure production processes due to plant security, network security and system integrity
- IT security from risk analysis through establishment of secure communication to continuous monitoring
- Based on applicable security standards (e.g. IEC 62443 standard)

Comprehensive portfolio of security products and services for current and future cyber security challenges



Defense in Depth



Protection against sabotage

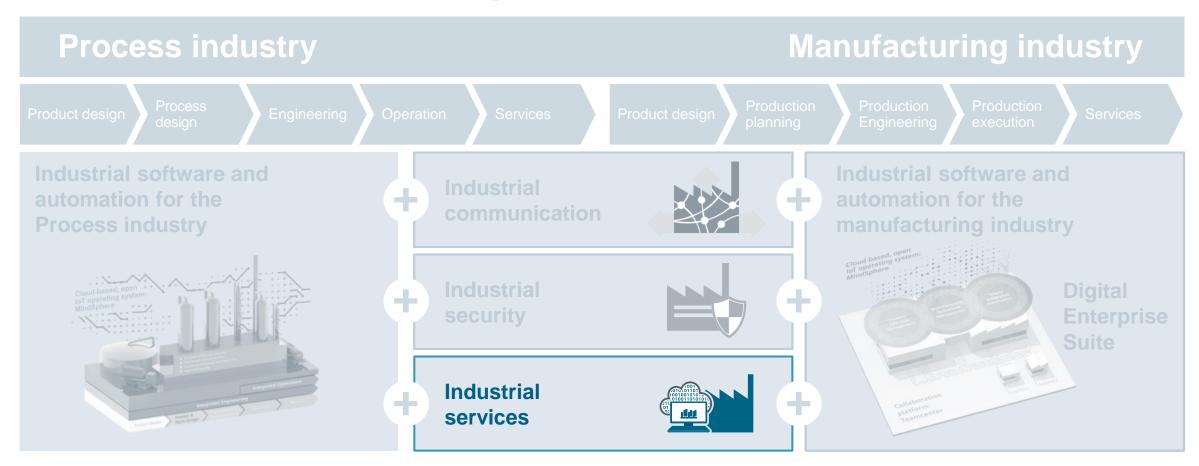
Secure cloud architecture

Protection of know-how

Industrial services



Digital Enterprise



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MindSphere

New: Version 3.0 on Amazon Web services

Industry expertise and cloud competence from a single source





Fast development of robust IoT solutions



More powerful development environment with open Application Programming Interface (API)



Extensive device, enterprise and database connectivity

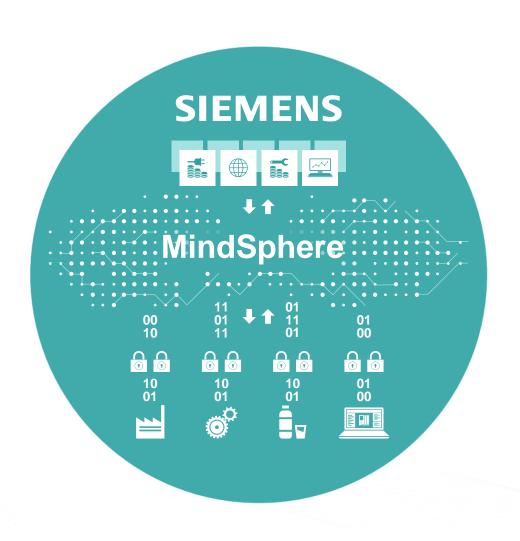


Advanced analytics



Cofac stands out from its market competitors with new business models – Developed on the basis of MindSphere





Lower costs

due to distributed monitoring

+ Out-of-the-box security

+ 15 minutes for linking from the field level up to the cloud

Digital revolution for motors

Connection of Siemens electric motors to the cloud

- Higher level of availability
- Optimized maintenance and services
- Greater efficiency and productivity





SIMOTICS IQ



Power consumption ₀ Servicing information

Operation times and durations

Load

Localization Cooling status

Additional partnership financing service to boost implementation of Industrie 4.0 – Aimed at SMEs



Pay-per-use models and payment plans

to simplify implementation of digital solutions, aimed particularly at SMEs



The Digital Enterprise portfolio has put the conditions for Industrie 4.0 into place – The hour of implementation has arrived!





Small and medium-sized enterprises too are already sharpening their competitive edge through digitalization – both in the process and discrete industries

- With our Digital Enterprise solutions for the digital twin across the entire value chain
- With our new open cloud-based IoT operating system MindSphere
- With our world leading automation portfolio

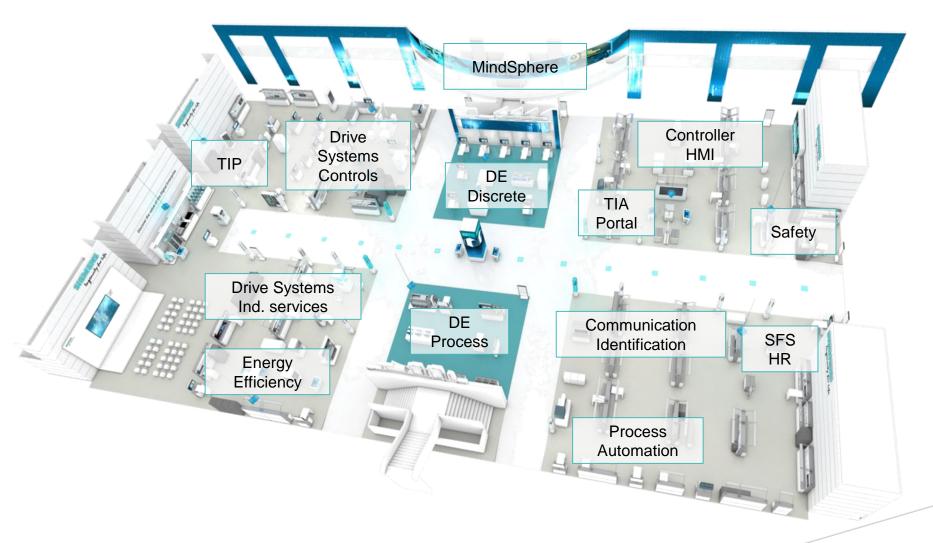
Siemens offers an additional financing partnership service to boost the implementation of Industrie 4.0 – aimed at small and medium-sized enterprises

Industrie 4.0 calls for an extended model of cooperative partnership based on mutual respect

- Large-scale enterprises supply platforms and components
- Small and medium-sized enterprises utilize these platforms to develop their own solutions and business models
- End customers integrate these into their digital value chain

Experience the Digital Enterprise live in Hall 11 – We look forward to your visit!





More detailed information





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Notes and forward looking statements



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All information is preliminary.



Thank you!