Digital Team intro

iExperience Center 4.0 | Digital Industries

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This means today's Industry is filled with new challenges in order to face customer's requirements

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Ingenuity for life
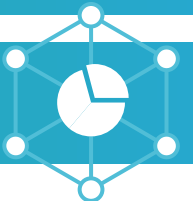
Speed

Flexibility

Quality

Efficiency

Security – Encryption | Firewall | Network segregation | Patch | Monitor
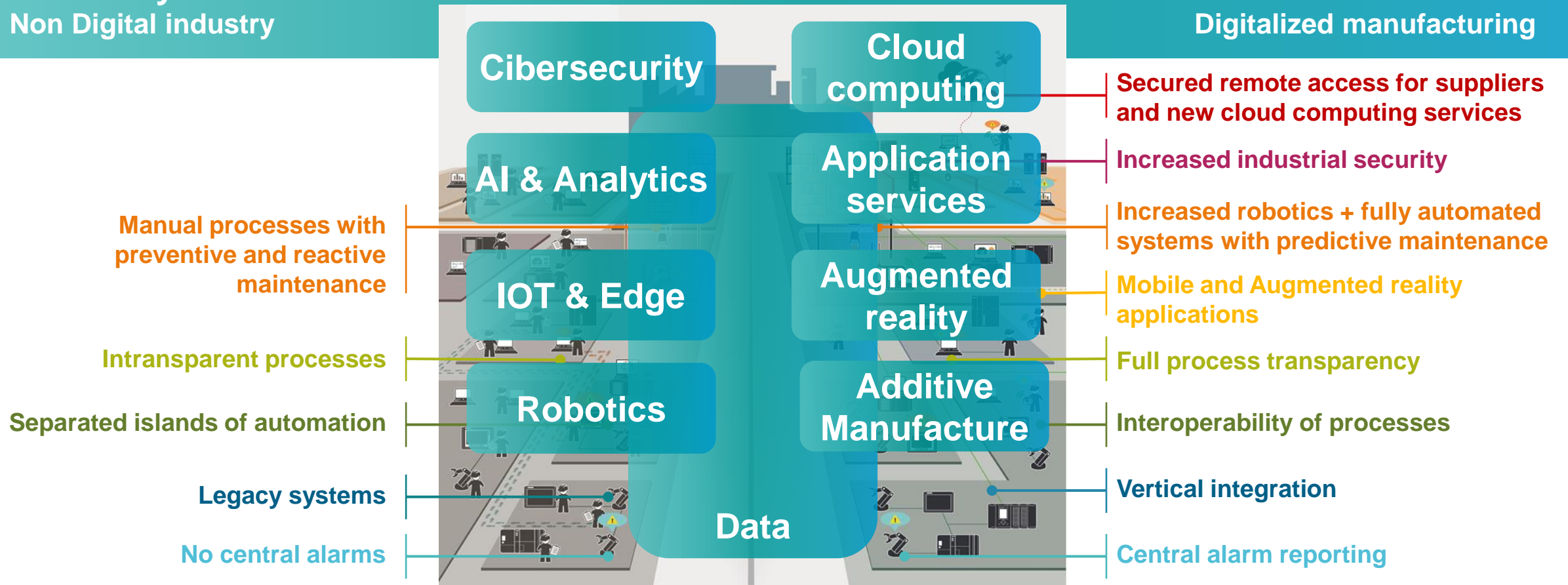
New Business Models - For continuous monitoring and optimization of complete value chain

And new business models in the internet age request new processes and tools

Yesterday
Non Digital industry

Tomorrow
Digitalized manufacturing

Cibersecurity

Cloud computing

AI & Analytics

Application services

IOT & Edge

Augmented reality

Robotics

Additive Manufacture

Data

Secured remote access for suppliers and new cloud computing services

Increased industrial security

Increased robotics + fully automated systems with predictive maintenance

Mobile and Augmented reality applications

Full process transparency

Interoperability of processes

Vertical integration

Central alarm reporting

Manual processes with preventive and reactive maintenance

Intransparent processes

Separated islands of automation

Legacy systems

No central alarms

Digital Era opens new potential and market opportunities but also new challenges only addressable with operation intelligence

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Digital Age Business

From Business Inteligence

- Analysis of historical data over defined periods of time
- implementation of reactive optimization measures

...to Operation Inteligence

- Continuous analysis of process data
- Continuously optimized and predictive operations with cost effective maintenance services

Cloud computing & Analytics
Globally available data lake for aggregated data of all sorts to be evaluated with Analytics and AI tools towards continuous process transparency and optimization

Digital Twins & Simulation
Digital Data models to evaluate, simulate and optimize with process data

IoT & Edge
Continuous connectivity to operation data flows, from sensor to system to edge operations

In order to achieve this change, our standard hardware solutions and platforms

SIMATIC
Scalable industrial automation systems

SINUMERIK
Intelligent solutions for machine tools

SIMATIC PCS 7
Powerful, compact hardware for process industries

SIMOTION
High-end motion control system

SINAMICS
Frequency converter for every drive application

SIMOTICS
Highly efficient electric motors

SIRIUS
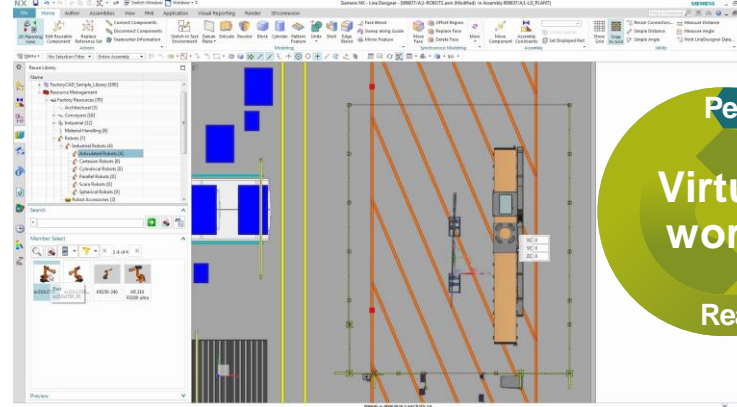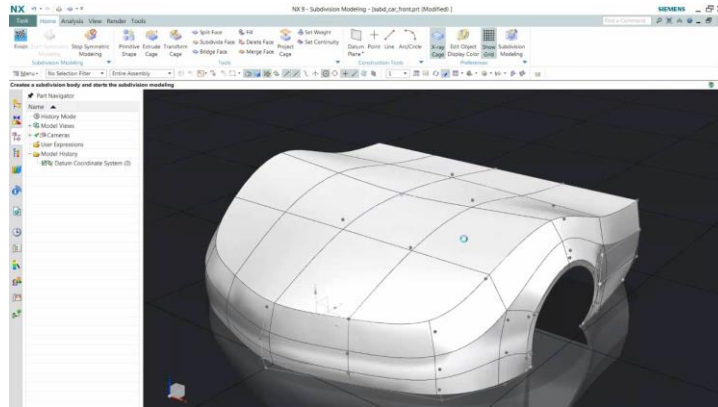Modular industrial controls

SCALANCE
Reliable industrial communication

Are merging with the software portfolio created over the last 20 years

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Performance data

Virtual world **Real world**

Realize & optimize

MindSphere

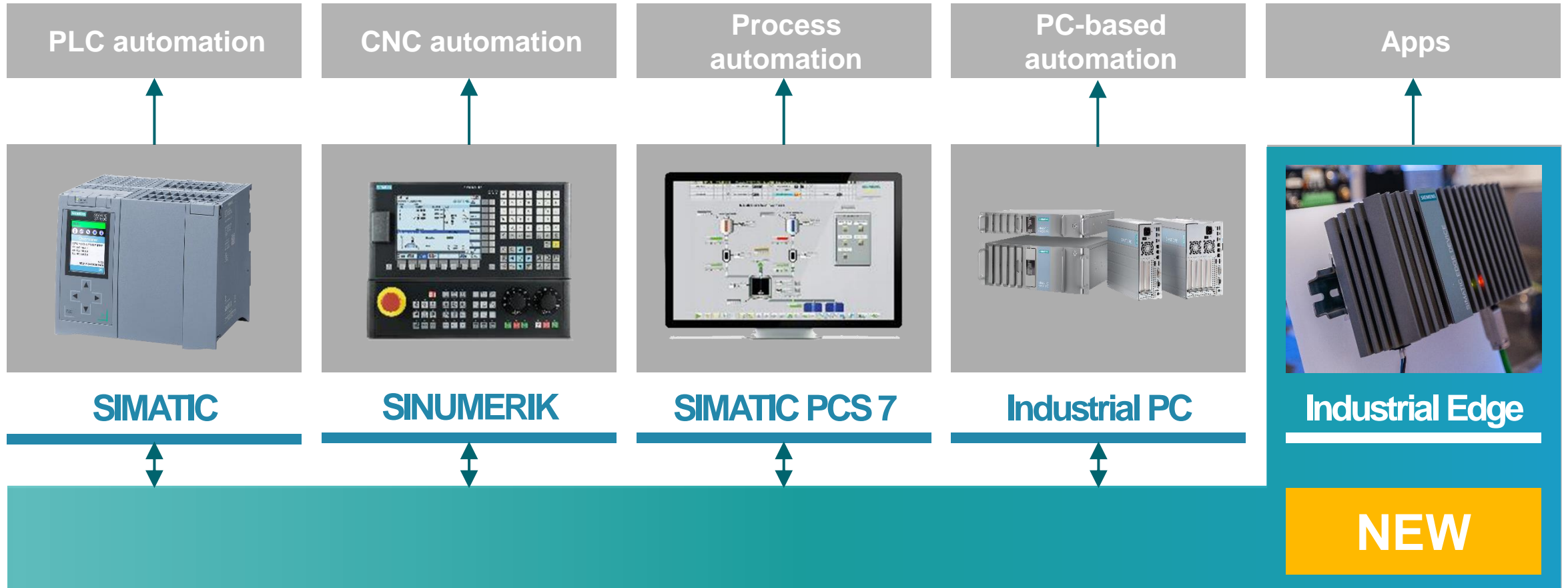|				
NX CAD	Teamcenter Manufacturing	NX Line Designer/MCD/ Automation Designer	Simatic IT	MindSphere Apps
Polarion			Camstar	Digital Lifecycle Service
Simcenter	NX CAM / Additive	Simit	WinCC/SCADA	Asset Performance Suite
Mentor Xpedition	Tecnomatix	TIA Portal	CNC Shop floor Mgt SW	
Mentor Capital	Mentor Valor	Simatic PCS7	Edge Apps	Mendix LC Engineering

Teamcenter, COMOS, XHQ, PlantSight

Our HW is now enhanced by Edge functionality

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PLC automation	CNC automation	Process automation	PC-based automation	Apps

SIMATIC	SINUMERIK	SIMATIC PCS 7	Industrial PC	Industrial Edge

NEW

Using our IoT operating system MindSphere now enhanced by Edge and mendix

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Applications
Powerful industry solutions with advanced analytics

mx mendix
the app platform

Open PaaS
Develop robust industrial IoT solutions faster with global scalability
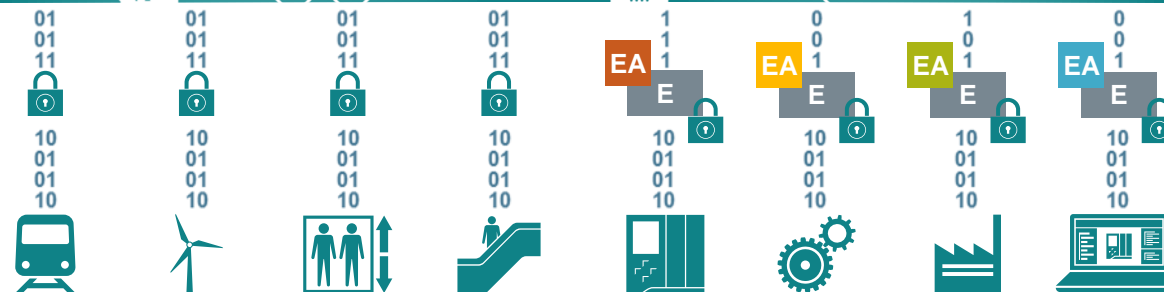
MindSphere
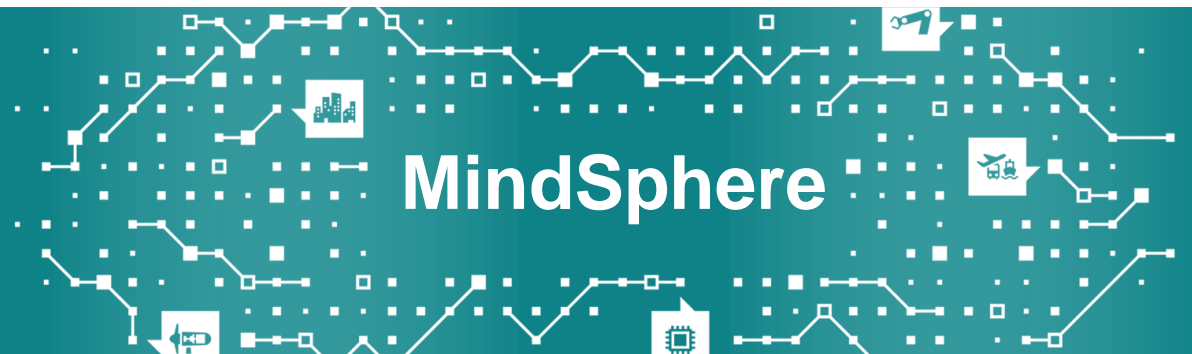
Edge Management
Edge Device Management, Edge App Management, and Edge App Store

Connectivity
Connect products, plants, systems, machines and enterprise applications

Edge Apps
Siemens, partner (OEM), and 3rd-party Edge Apps

Edge Devices
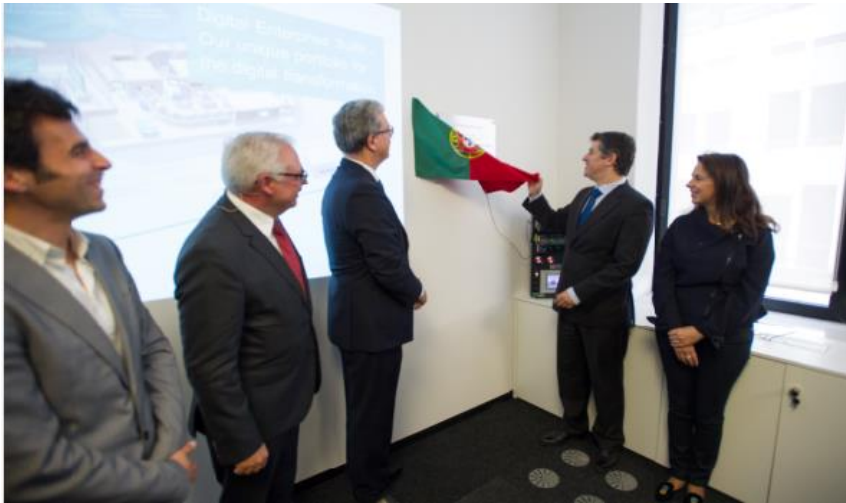Secure, future-proof basis for running Industrial Edge applications

Digital Innovation Hub

Digital Industries

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iExperience Center 4.0, our solution to support the change
Industry 4.0 digital transformation hub for universities, partners and customers

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TIA Portfolio
TIA Portal, SIRIUS, SIMOCODE,
SINAMICS,SIMOTICS, SITOP,
SIMATIC, SITRANS, CI, RFID

Network and Cybersecurity
SCALANCE W, X, S, M

IOT & Edge Solutions
SIMATIC IOT2040 (Edge device)
IOT Sensors (BLE, LORA, Wifi)

MindSphere Portfolio
MindConnect IOT2040
MindConnect Nano
MindAccess IoT Value Plan

PLM Portfolio
SolidEdge (3D CAD)
TecnoMatix (Process Simulation)
TeamCenter (Collaborative platform)

Partner Solutions
Edge Applications
3D Printers
Augmented Reality

Project Scope

Creation of Digital Innovation Hubs, at Siemens Campus and Universities.

All TIA and Digital Enterprise solutions are available for customers, partners and universities to test and validate added value digital transformation solutions.

i 4.0
INDÚSTRIA 4.0
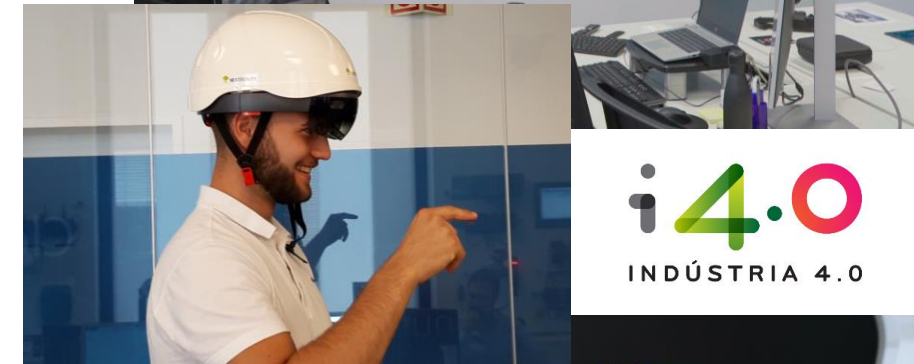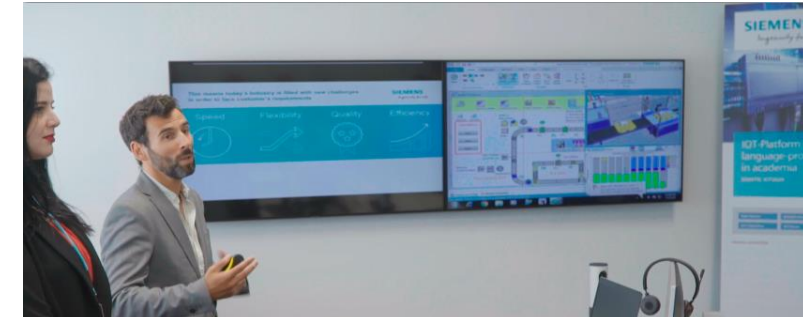
i-Experience Center 4.0

Powered by

SIEMENS   **BEEVERYCREATIVE**   **CADFLOW_**

iExperience Center 4.0 - Digital transformation lever
Concept

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Incubator for new and existing partners to evaluate and co-create added value Digital Solutions for the Portuguese Industrial Market

Universities	IT/Consulting Partners (mostly new)	OT Partners (mostly existing)	Customers (new and existing)
Open Criativity	**New Business Models**	**Delivery Capacity**	**Requirements**

Co-creative aproach to new business models, solutions and applications

From small PoCs to mid-size and large Projects

Digital Transformation Enabler

iExperience Center 4.0
Partner Ecosystem for new business models

Develop a new partner ecosystem to enable a fast deployment and easy scale-up of flexible and new *Digital Solutions* for the portuguese industry

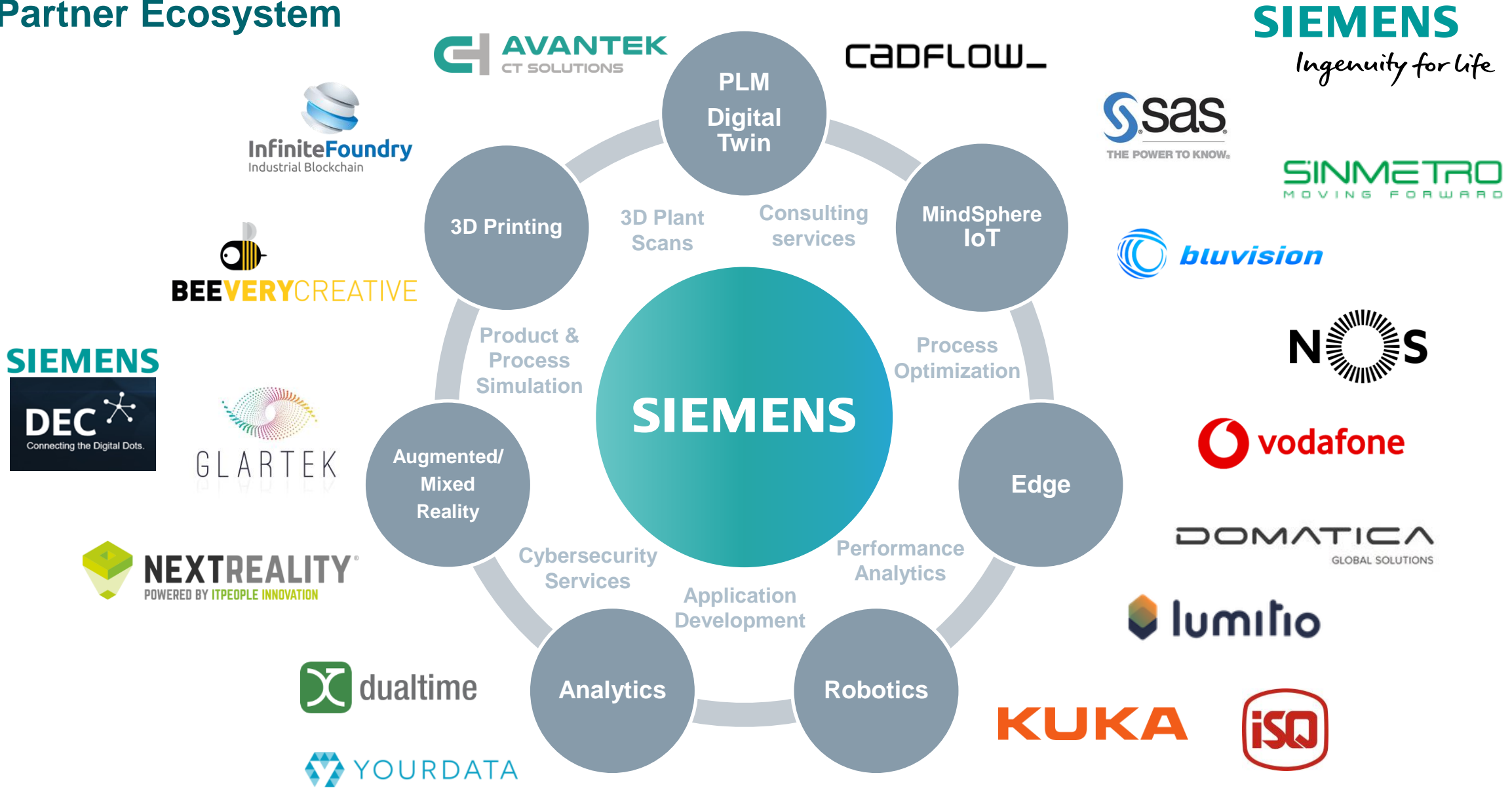**Main Focus Areas for potential new partners and business models**

IOT | Edge | Simulation AR | VR | XR

Application Development | Analytics (MindSphere)

Industrial Consulting & Plant Services

BEEVERYCREATIVE

CaDFLOW_

BLUESMART
SOLUTIONS FOR MANUFACTURING

AVANTEK
CT SOLUTIONS

SINMETRO
MOVING FORWARD

KUKA

lumiio

DOMATICA
GLOBAL SOLUTIONS

dualtime

bluvision

YOURDATA

GLARTEK

Partner Ecosystem

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iExperience Center 4.0
Locations

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Universidade de Aveiro *

Alfragide

Porto
SIEMENS

Aveiro

Leiria

Lisboa
SIEMENS

Freixieiro

Politécnico Leiria *

* Inauguração prevista 2019

Digital Industries

Thank you

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siemens.com/digitalization   **mindsphere.io**

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Industrial Circuit Remote services tool

Industrial Circuit
Realtime collaboration platform (audio/video/docs…)

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Siemens platform for video, communications and document /whiteboard sharing, applicable to Remote Support and Service scenarios, and highly skilled technicians can provide timely and capable remote support to unskilled technicians located at the customer's premises, wherever they are, to perform dedicated tasks where this kind of support manifests itself as added value.

With this approach, skilled technicians will be able to respond to various geographically dispersed services, with their 'hands on the ground' other technicians with less expertise (and cost per hour).

Benefits:

- Higher video resolution and bandwidth (quality of service)

- Easy to use interface ("glove friendly")

- Whiteboard and joint photo annotation

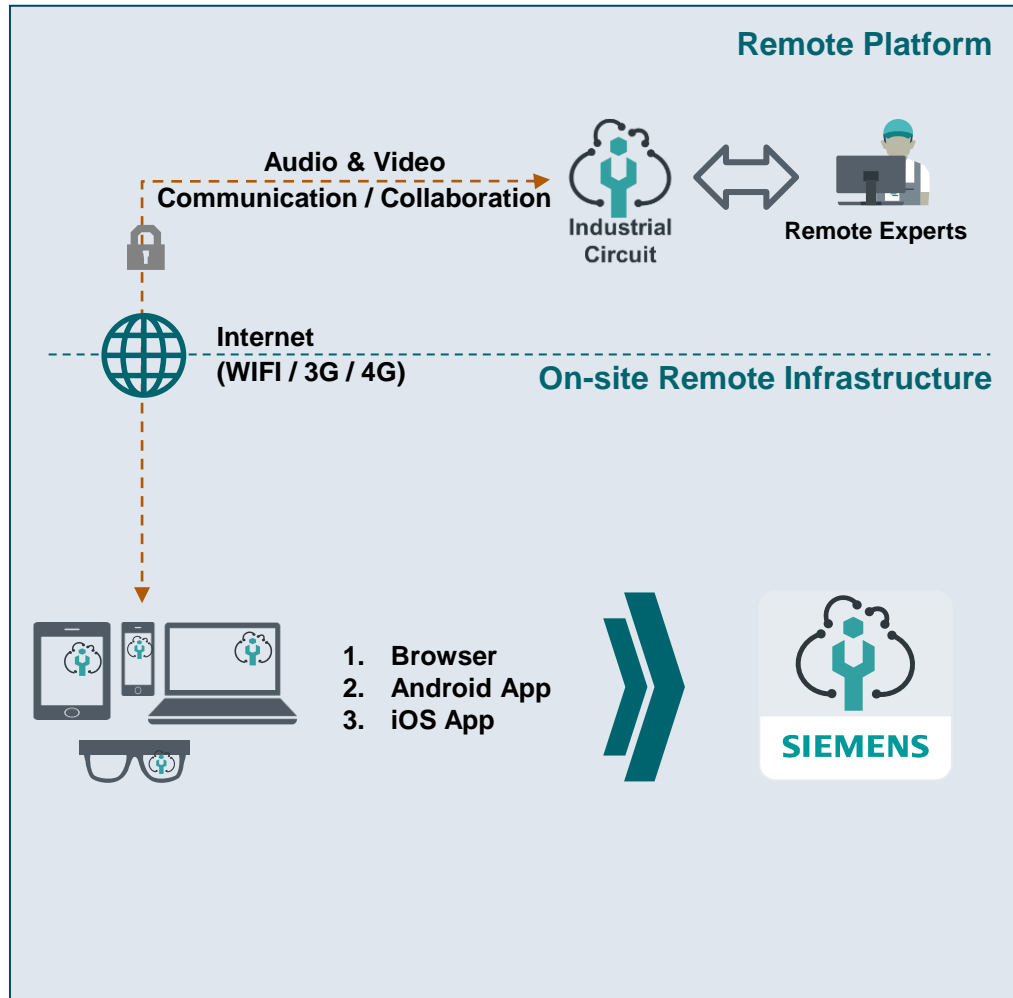- Better collaboration with non-Siemens users

Applications:

- Remote Client Product Acceptance Tests

- Expert Support and Advanced Troubleshooting for Field Service Engineers

-    Expert support and enhanced troubleshooting for shop floor workers

Available for IOS, Android e RealWear HMT-1Smart Glasses

Industrial Circuit
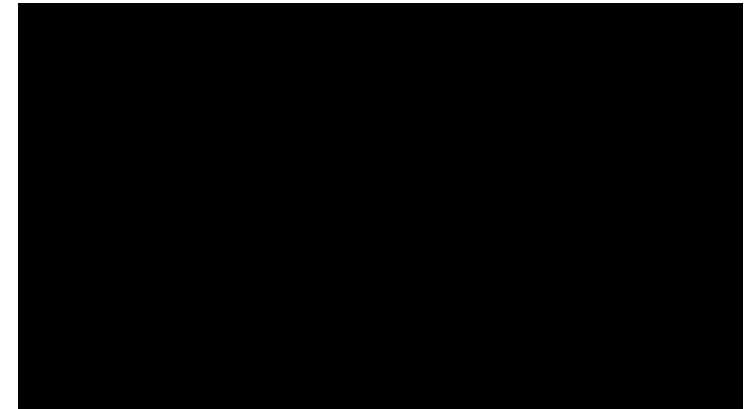
Connecting People – Industrial Circuit
Application Description

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Remote Platform

Audio & Video
Communication / Collaboration

Industrial
Circuit

Remote Experts

Internet
(WIFI / 3G / 4G)

On-site Remote Infrastructure

1. **Browser**
2. **Android App**
3. **iOS App**

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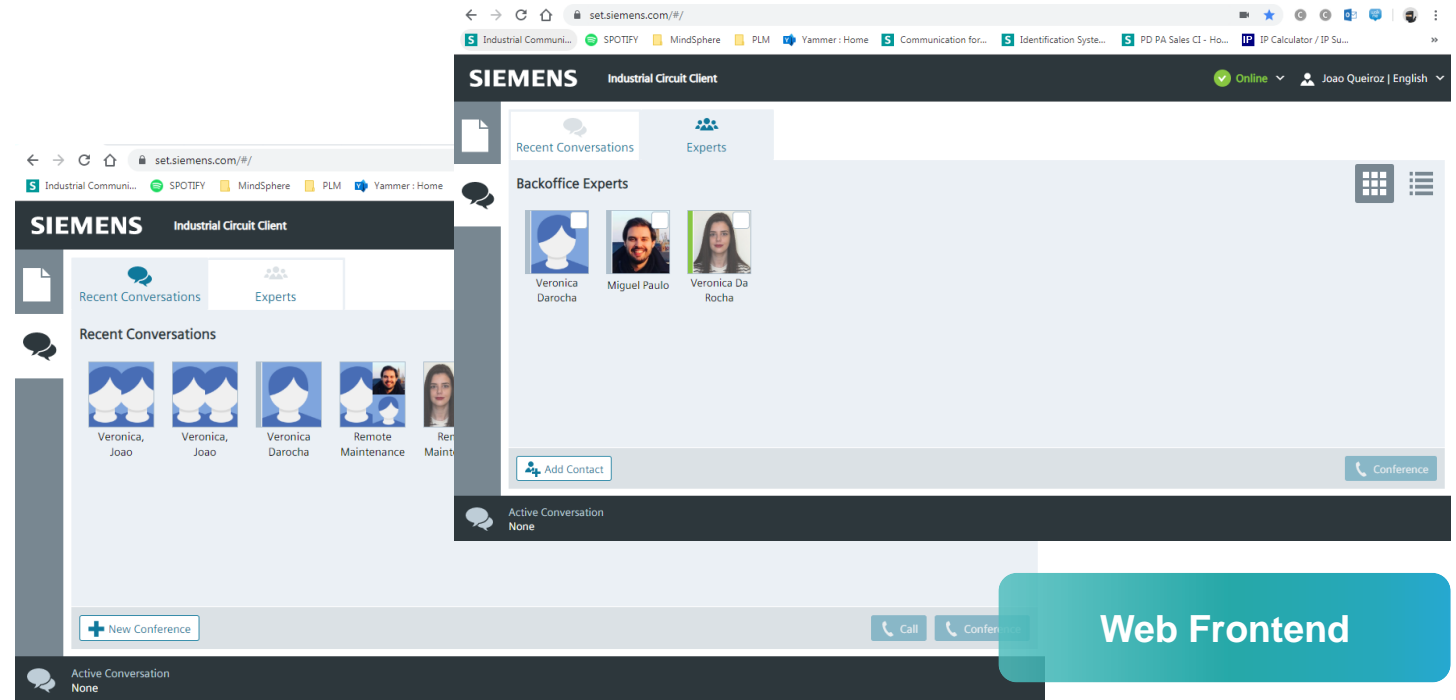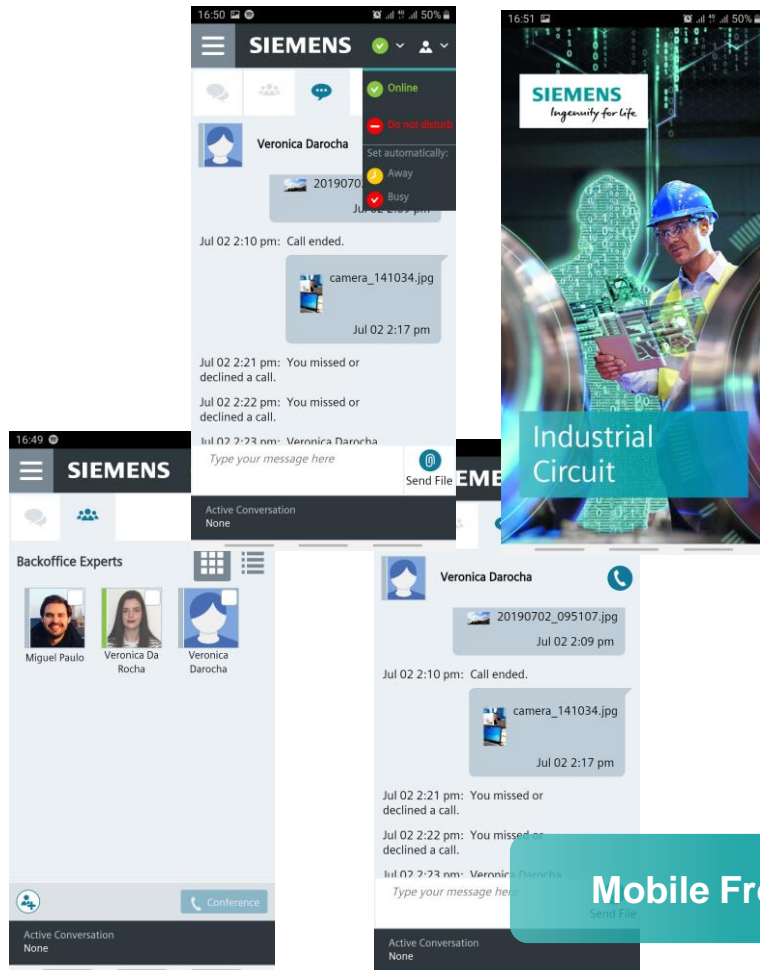## Audio & Video Collaboration – Industrial Circuit

Industrial Circuit enables workers in non-Siemens locations to collaborate with experts around the globe. To enable industrial use, the dedicated client provides additional features which are not part of Siemens standard Circuit. Industrial Circuit drives efficiency, enables new business opportunities and increases customer satisfaction bringing customers and experts closer together.

This solution is suitable for transparent and efficient audio and video collaboration with Siemens Remote Experts and non-Siemens employees.

Value add:

- Transmit high resolution images and videos
- Use video pointer, annotations and whiteboards for illustration
- Enhanced collaboration with Siemens Remote Experts and non-Siemens employees in conversations
- Communicate via hands-free devices (e.g. smart glasses)
- Easy-to-use also in rugged environments

Digital Industries.
Industry Services

Connecting People – Industrial Circuit Application Demo

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Mobile Frontend

Web Frontend

Industrial Circuit intranet

https://intranet.for.siemens.com/wll/0015/en/de/IndustrialCircuit/Pages/Default.aspx

https://www.set.siemens.com/#/