BECKHOFF

The New AutomationTechnology

Agenda

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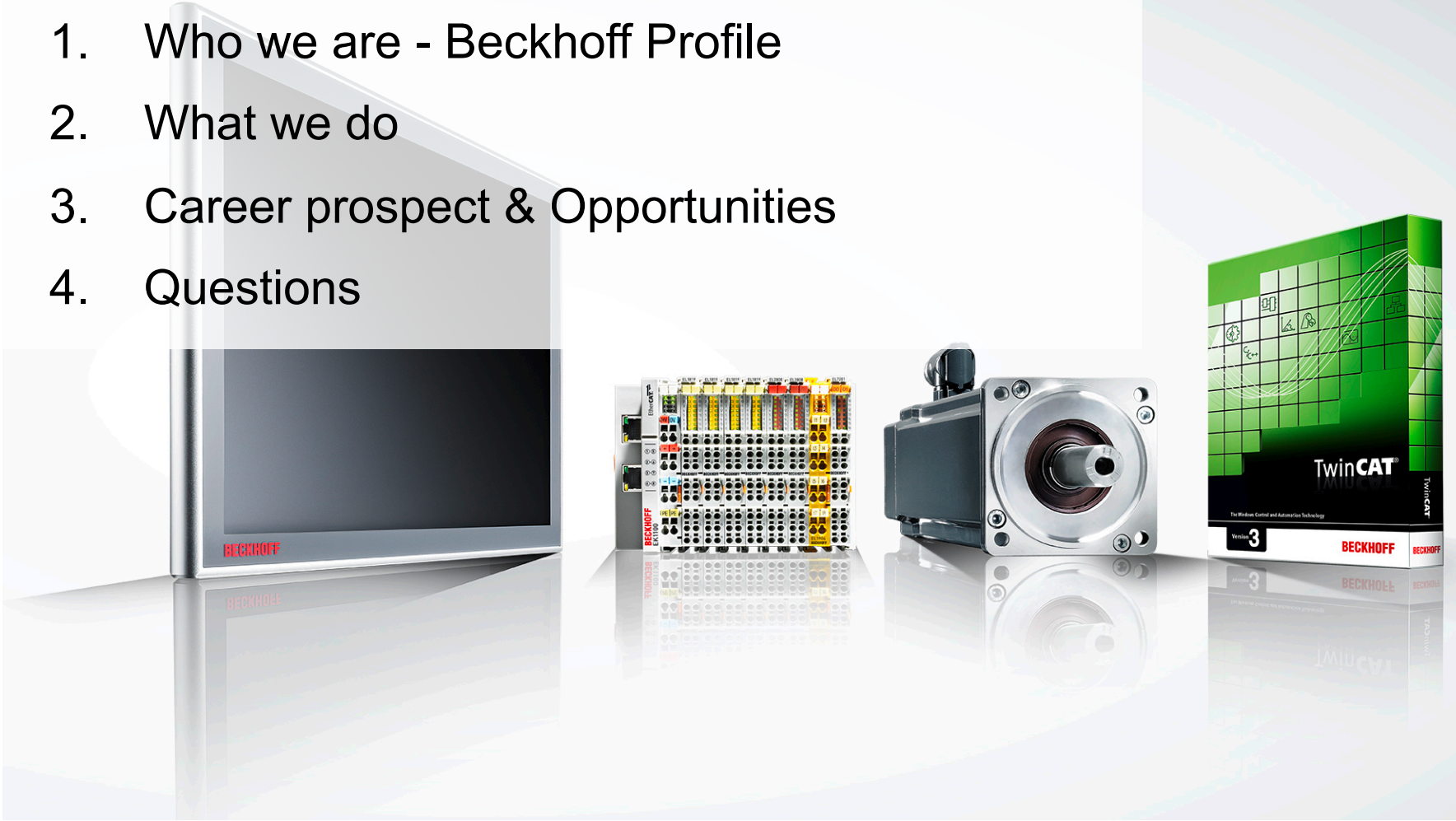
1. Who we are - Beckhoff Profile
2. What we do
3. Career prospect & Opportunities
4. Questions



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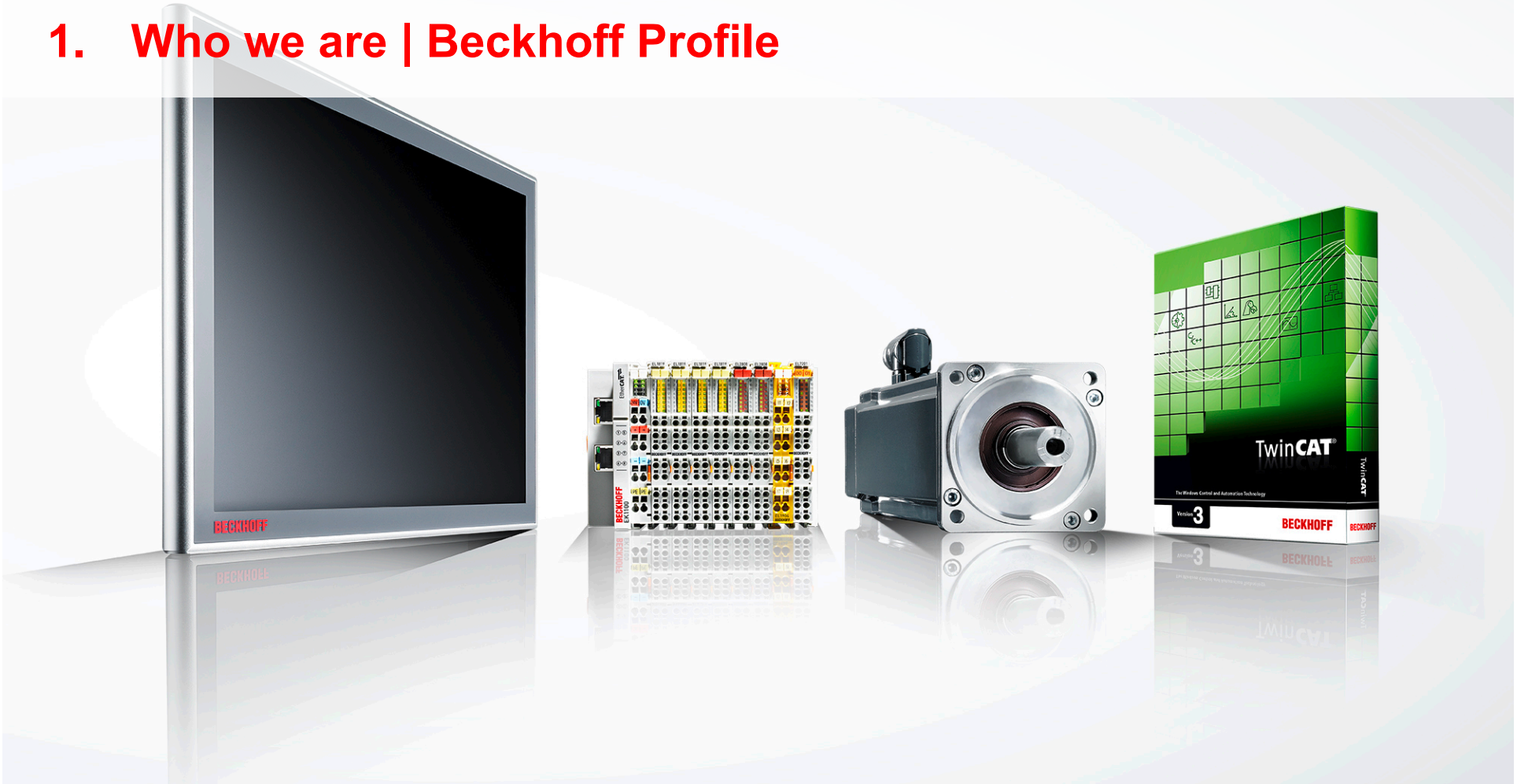
1. Who we are | Beckhoff Profile



The results of increasing population and incomes

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More people demand more consumer goods.

More people demand more energy and resources.

More people demand more infrastructure.

How to overcome the challenges?

Automation technology is the only answer

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Only automation technology:

- Enables and optimises **resource-friendly and energy-efficient** manufacturing processes for the growing wealth and population

- Realises living environments and infrastructures for a growing population with higher demands… **with sustainable and efficient use of energy and resources**

Automation technology is the only answer

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Beckhoff globally provides leading-edge automation technology for …

- machine manufacturers
- factory automation applications
- energy suppliers
- building automation projects
- Infrastructure applications
- … and many more




Beckhoff technology: Allianz Arena, Germany

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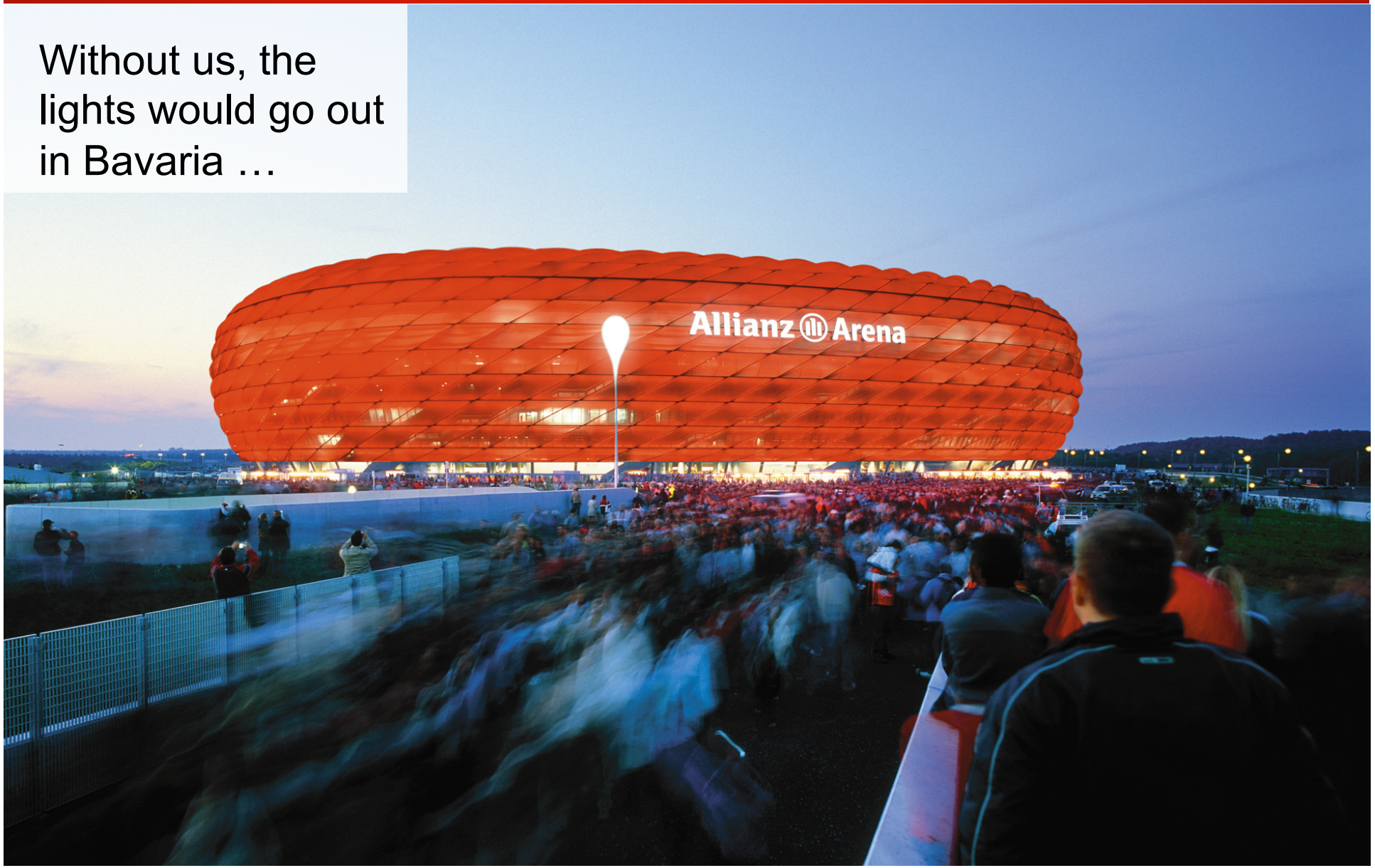
Without us, the lights would go out in Bavaria …



Beckhoff technology: Changi Airport, Singapore

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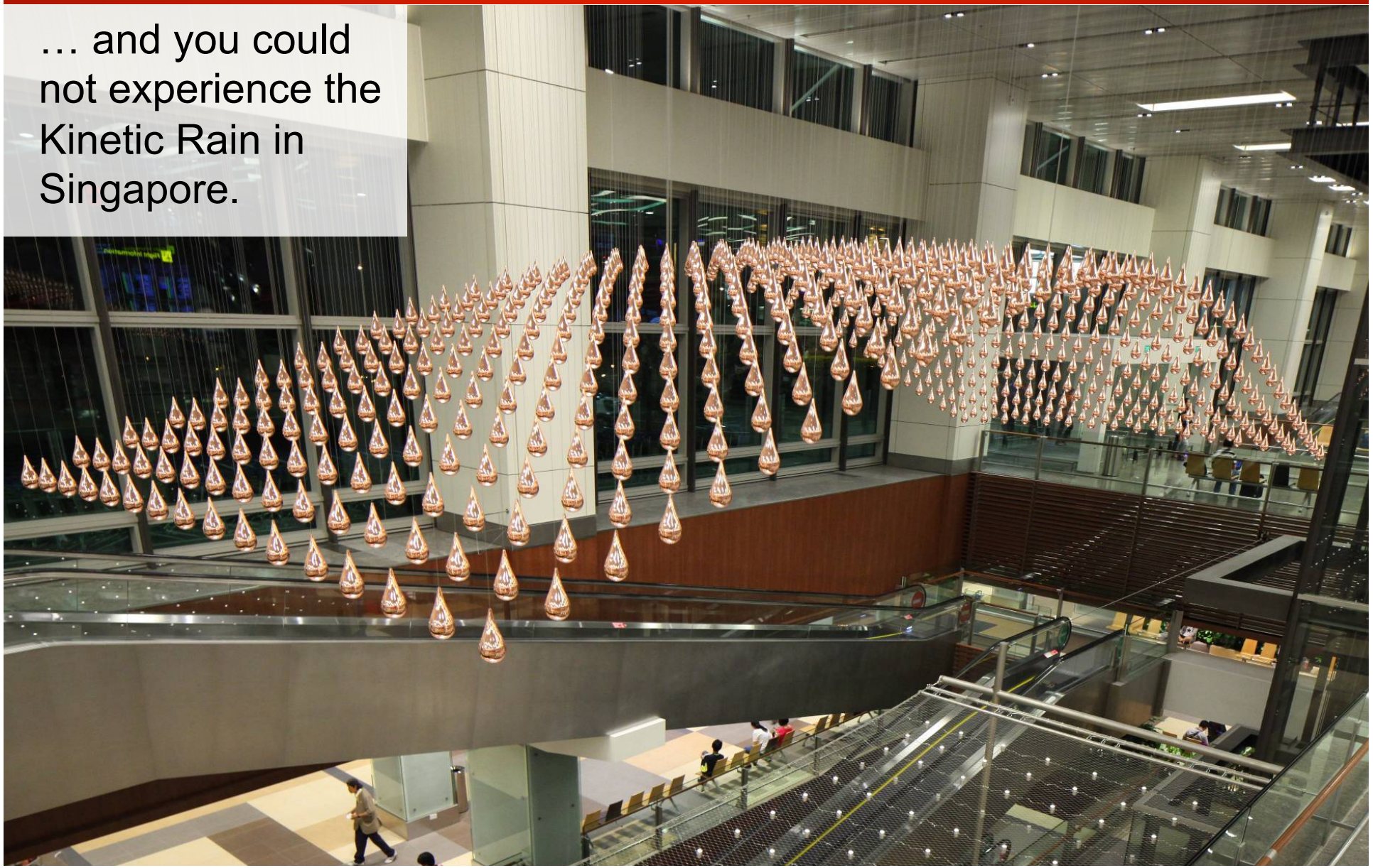
… and you could not experience the Kinetic Rain in Singapore.



Beckhoff technology: Nobilia, Germany

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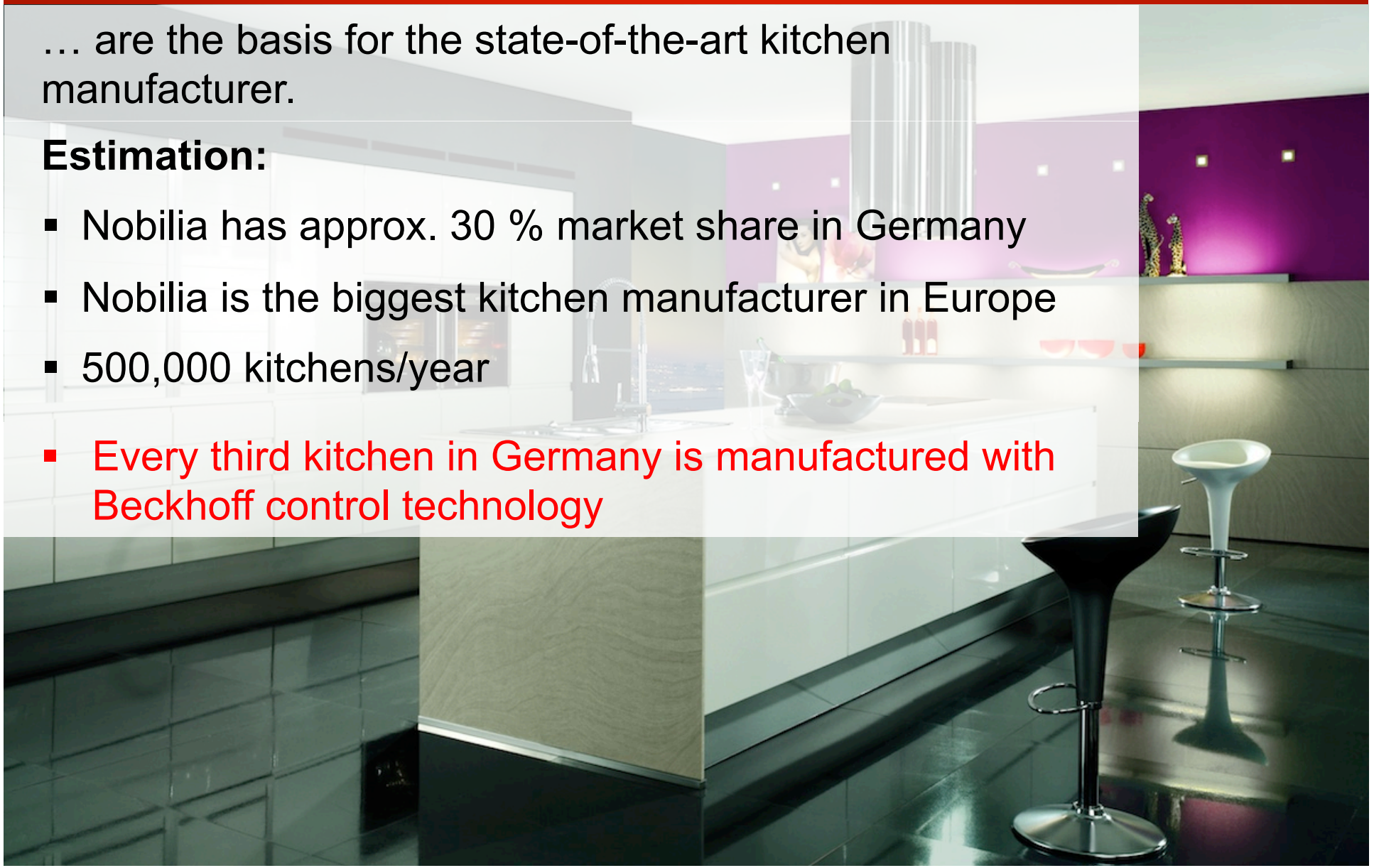
… are the basis for the state-of-the-art kitchen manufacturer.

Estimation:

- Nobilia has approx. 30 % market share in Germany
- Nobilia is the biggest kitchen manufacturer in Europe
- 500,000 kitchens/year
- Every third kitchen in Germany is manufactured with Beckhoff control technology



Beckhoff technology: Elettric80, Italy

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Beckhoff technology: Teatro alla Scala, Italy - Modernization of stage equipment

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Beckhoff technology: Xesa, Italy
Full-motion simulator for ultra-realistic driving simulation

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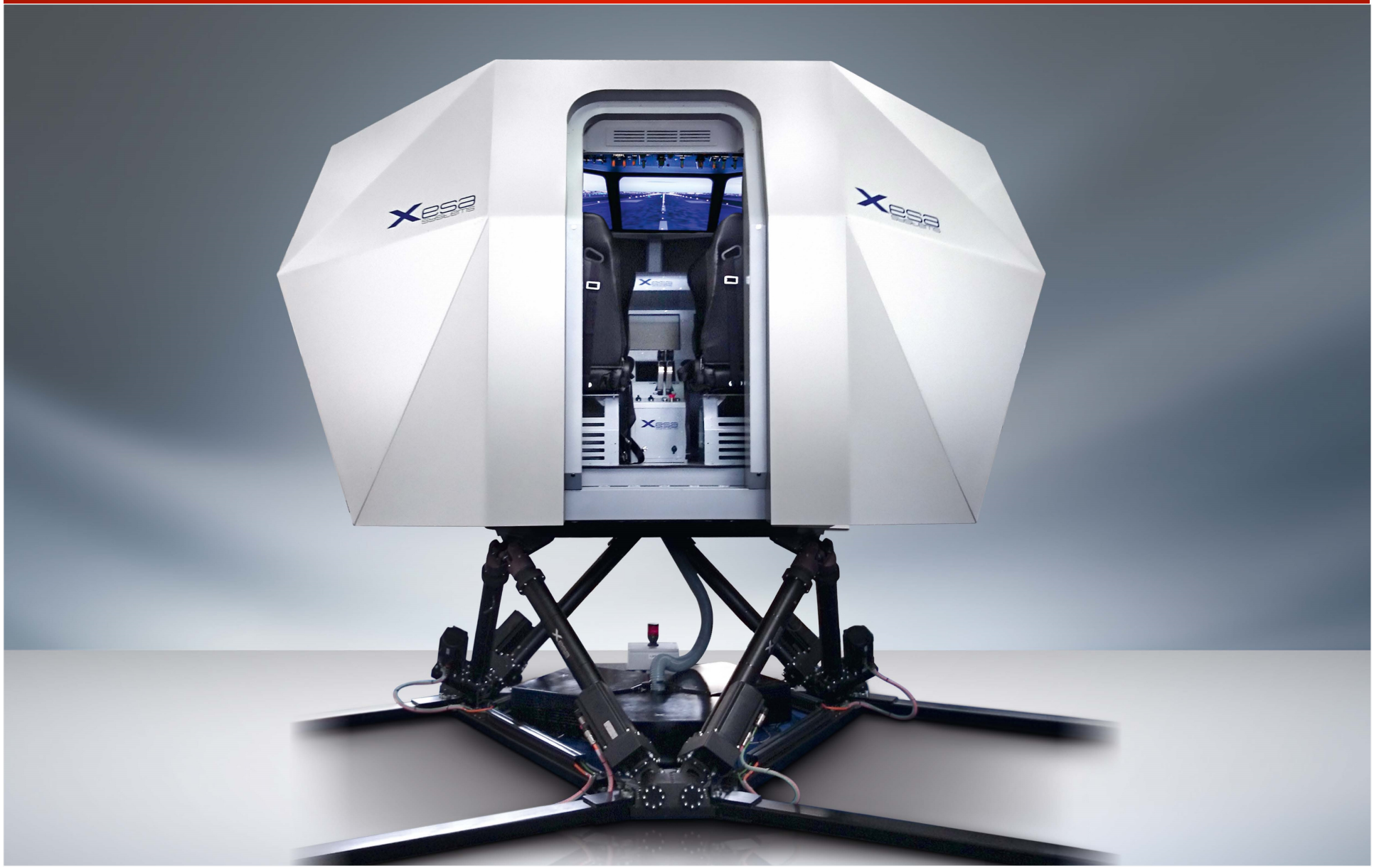

Beckhoff Worldwide

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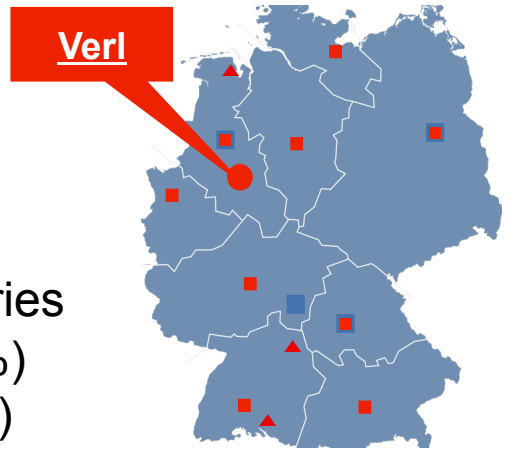
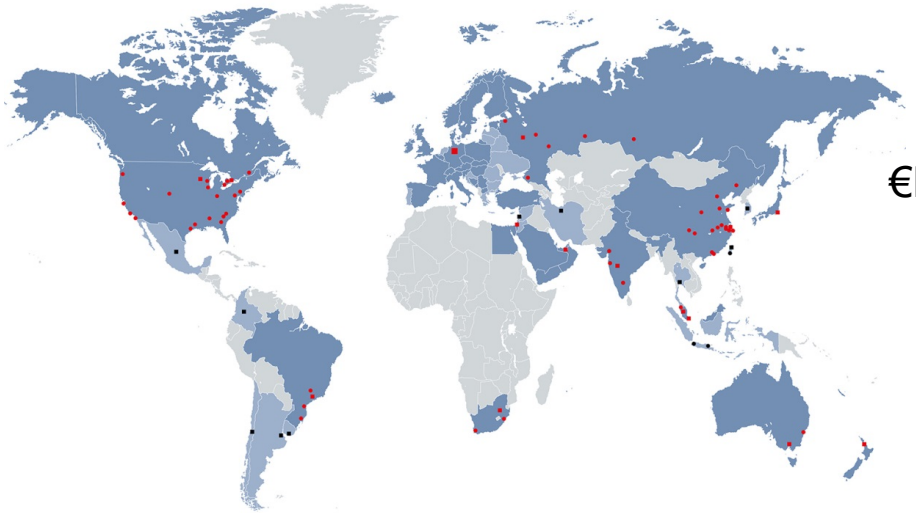
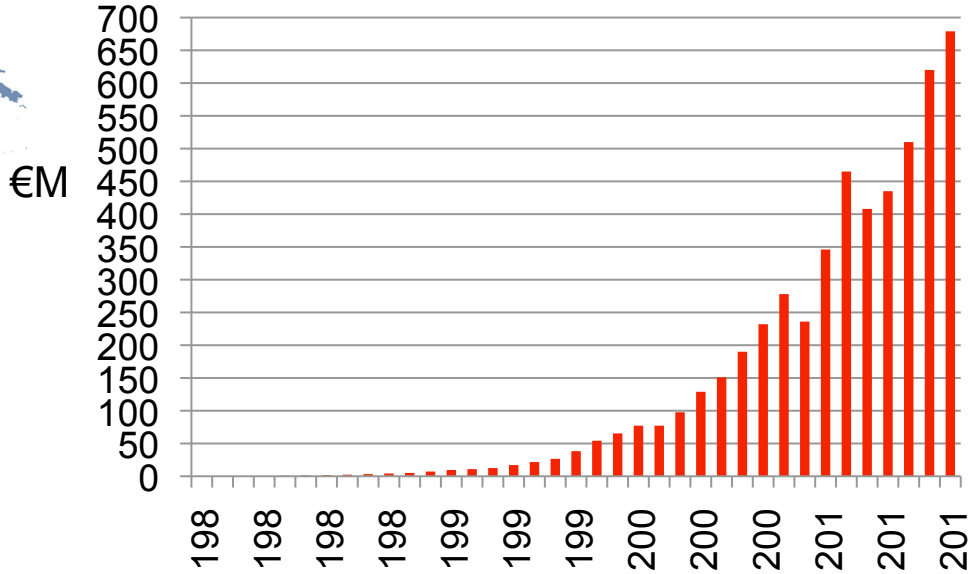
Headquarters:	Verl, Germany
Employees worldwide:	3.850
Number of engineers:	1.300
Offices in Germany:	21
Beckhoff Offices WW:	35 countries
Distributors Worldwide:	more than 75 countries
Sales 2016:	679 million € (+9,5%)
Sales 2017 (Est.):	800 million € (+18%)







Beckhoff Italy

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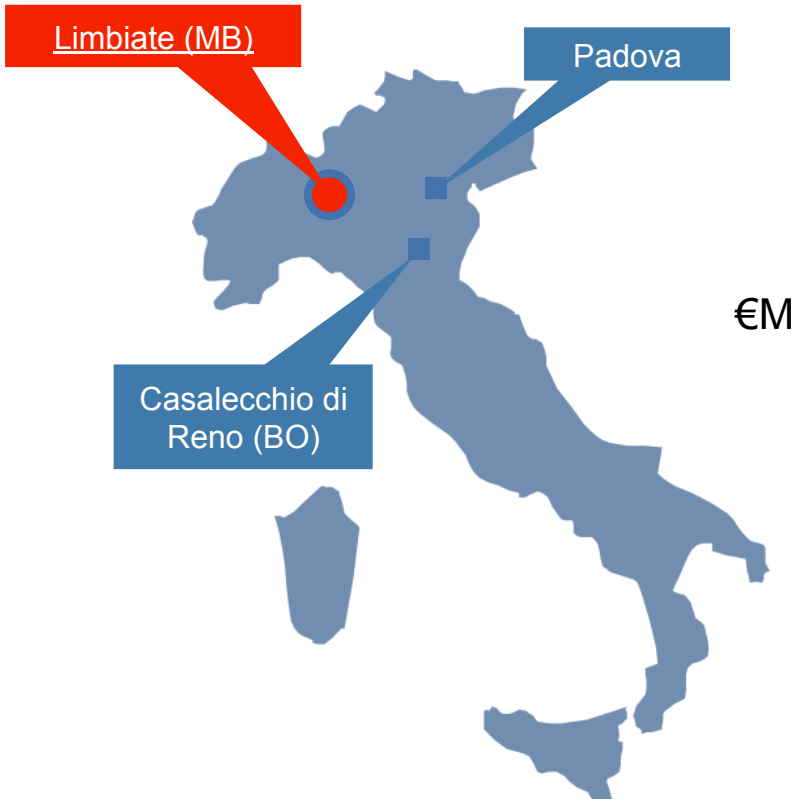
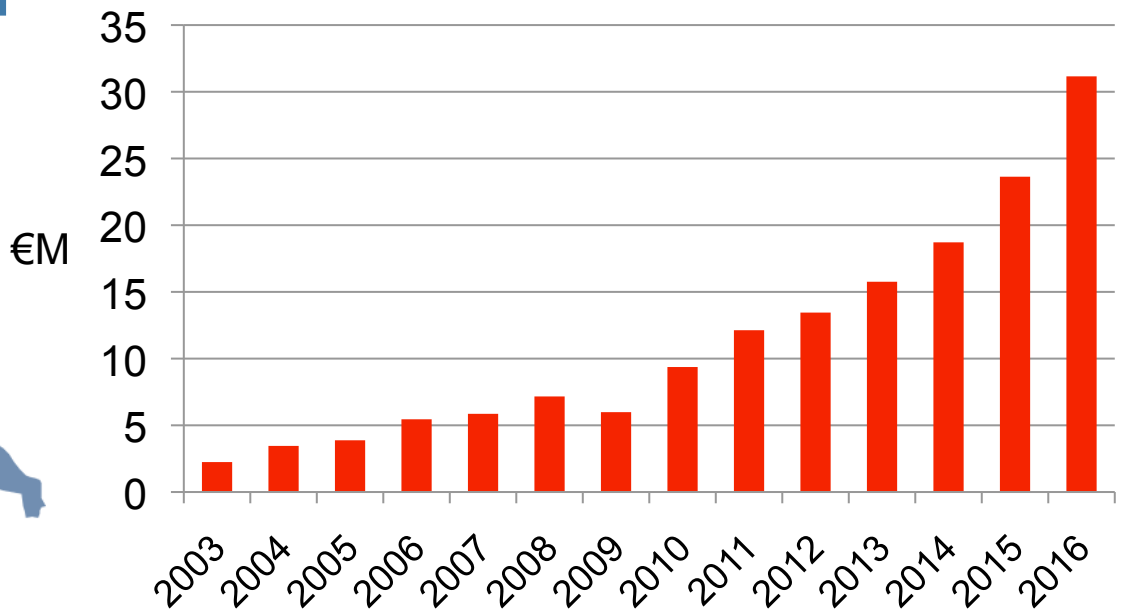
Head Office:	Limbiate (MB) Italy
Employees :	48
Number of engineers:	26
Beckhoff Branch Offices:	3
Sales 2016:	31 million € (+31%)
Sales 2017 (Est.):	38 million € (+23%)





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2. What we do

System overview

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Automation

IPC

I/O

Motion

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TwinCAT 3 eXtended Automation

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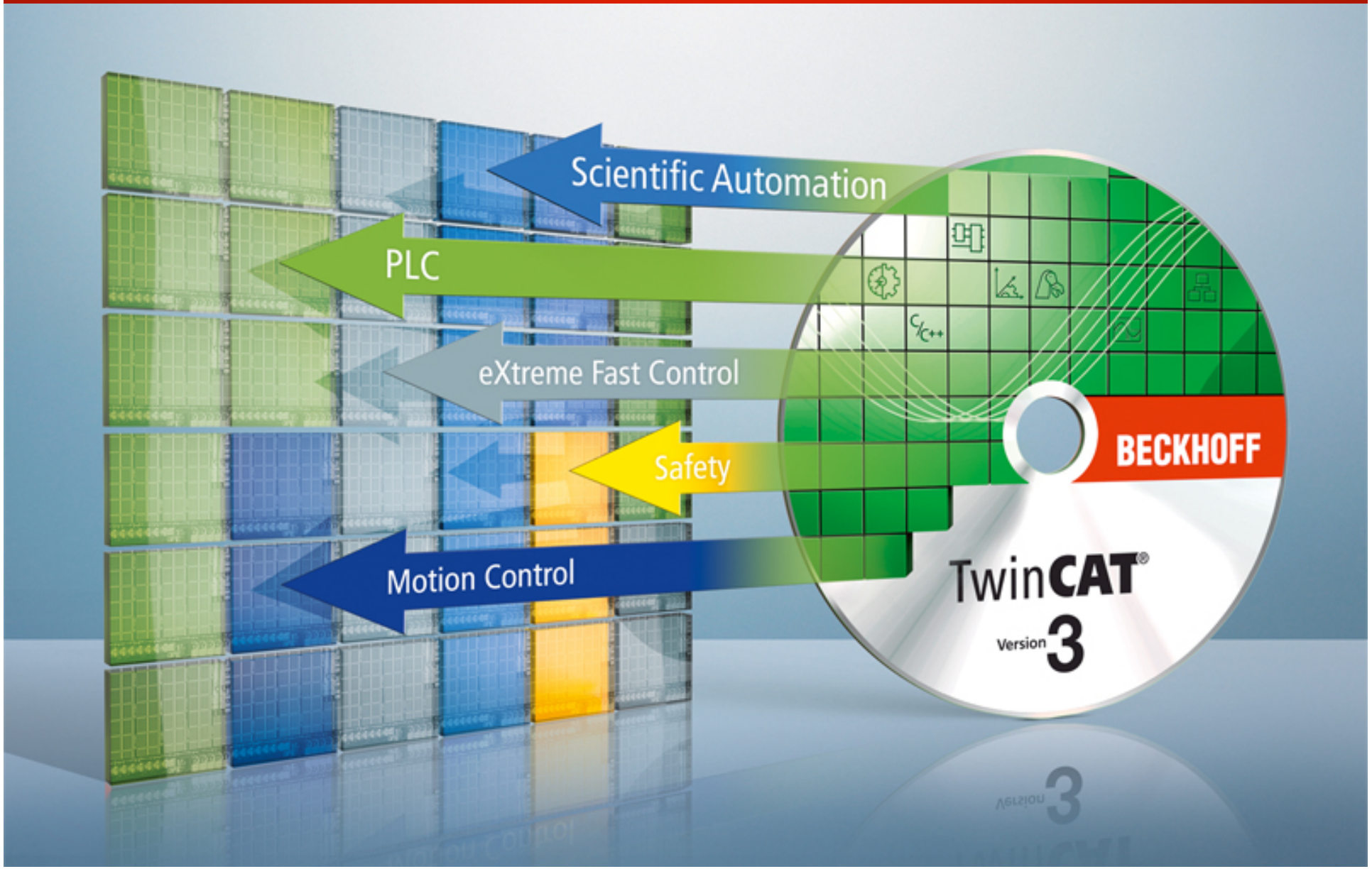

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Engineering

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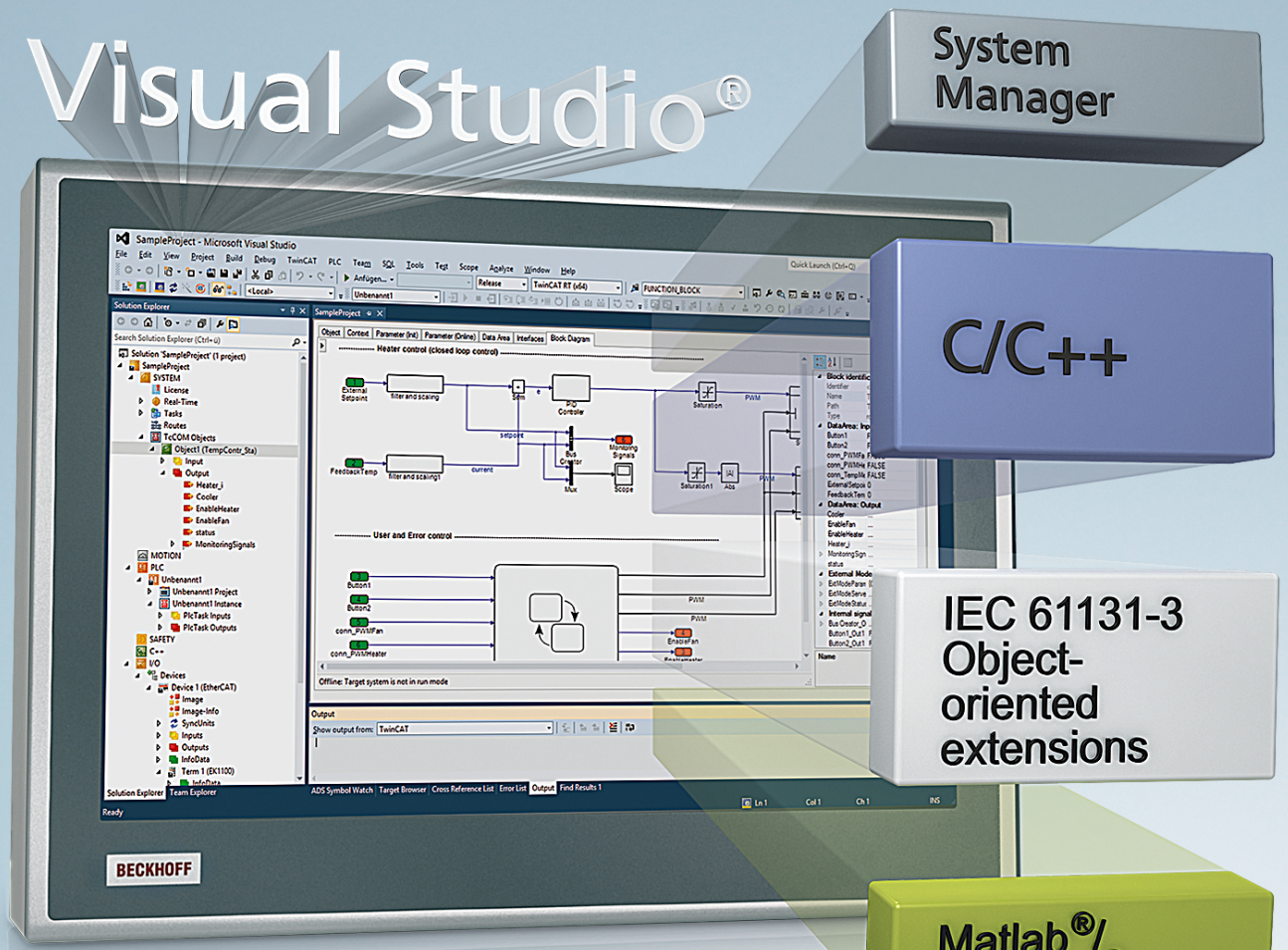

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Unified Universal Platform for Control Technology

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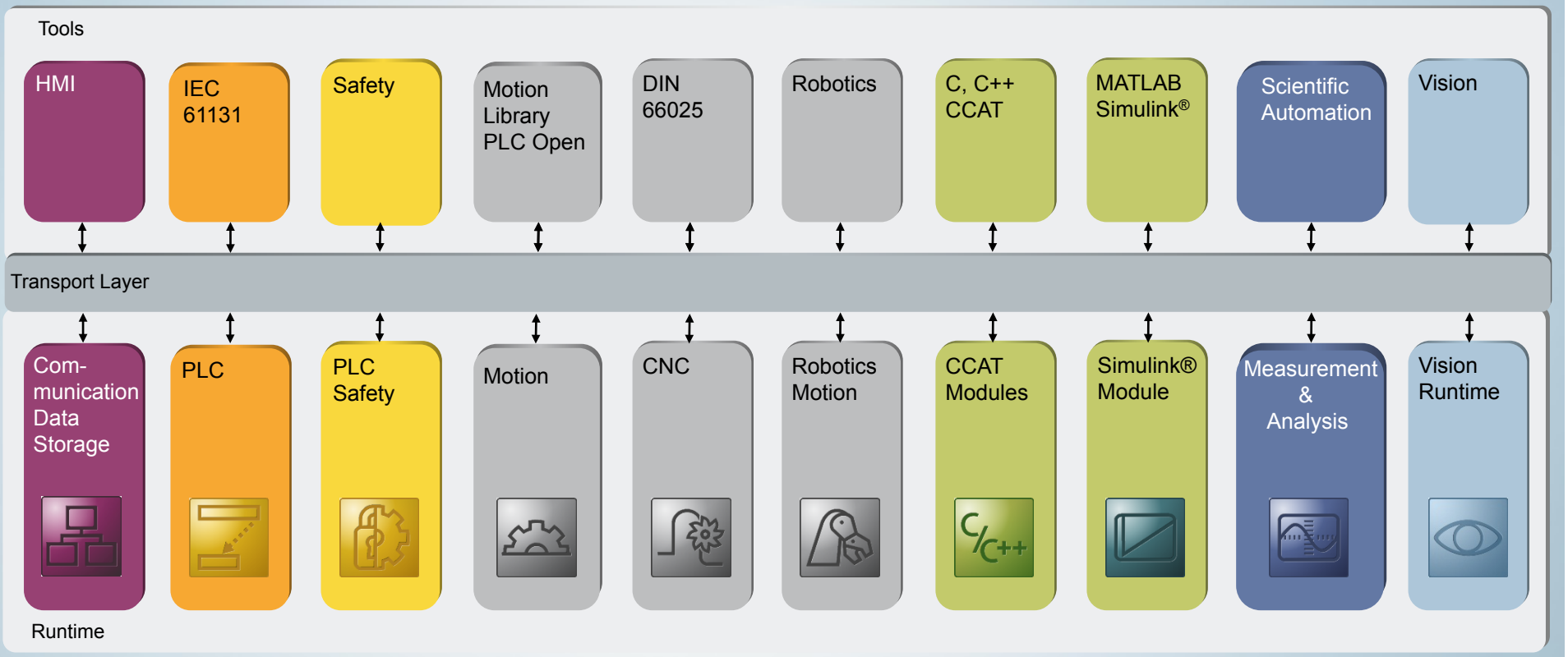
PC-based control technology from Beckhoff sets new standards in automation.



Support for multi-core systems

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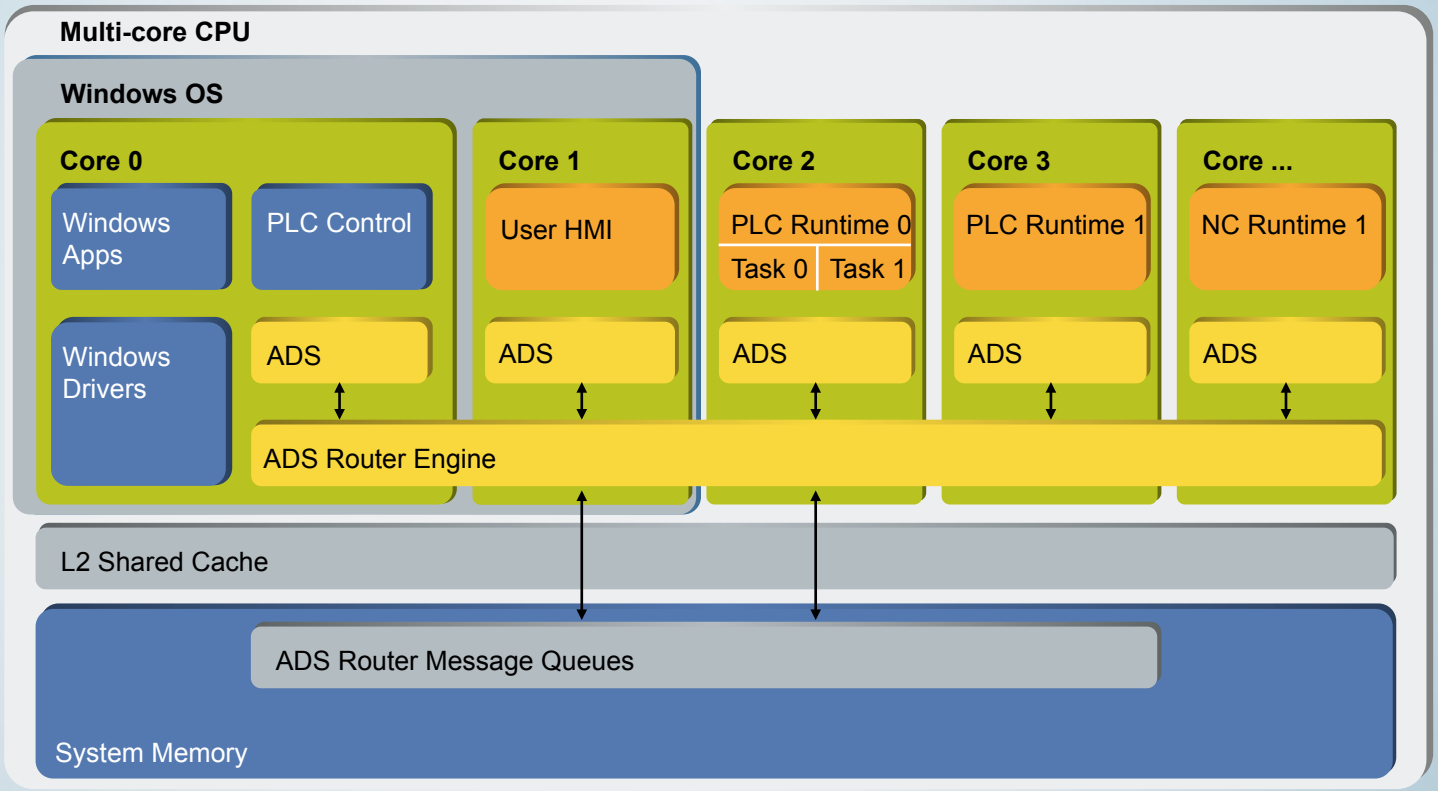
- distribution of modules to individual cores
  (e.g. PLC, Motion control and HMI run on different cores)
- scalable base time for each core
- scalable CPU usage for each core



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TwinCAT PLC Control

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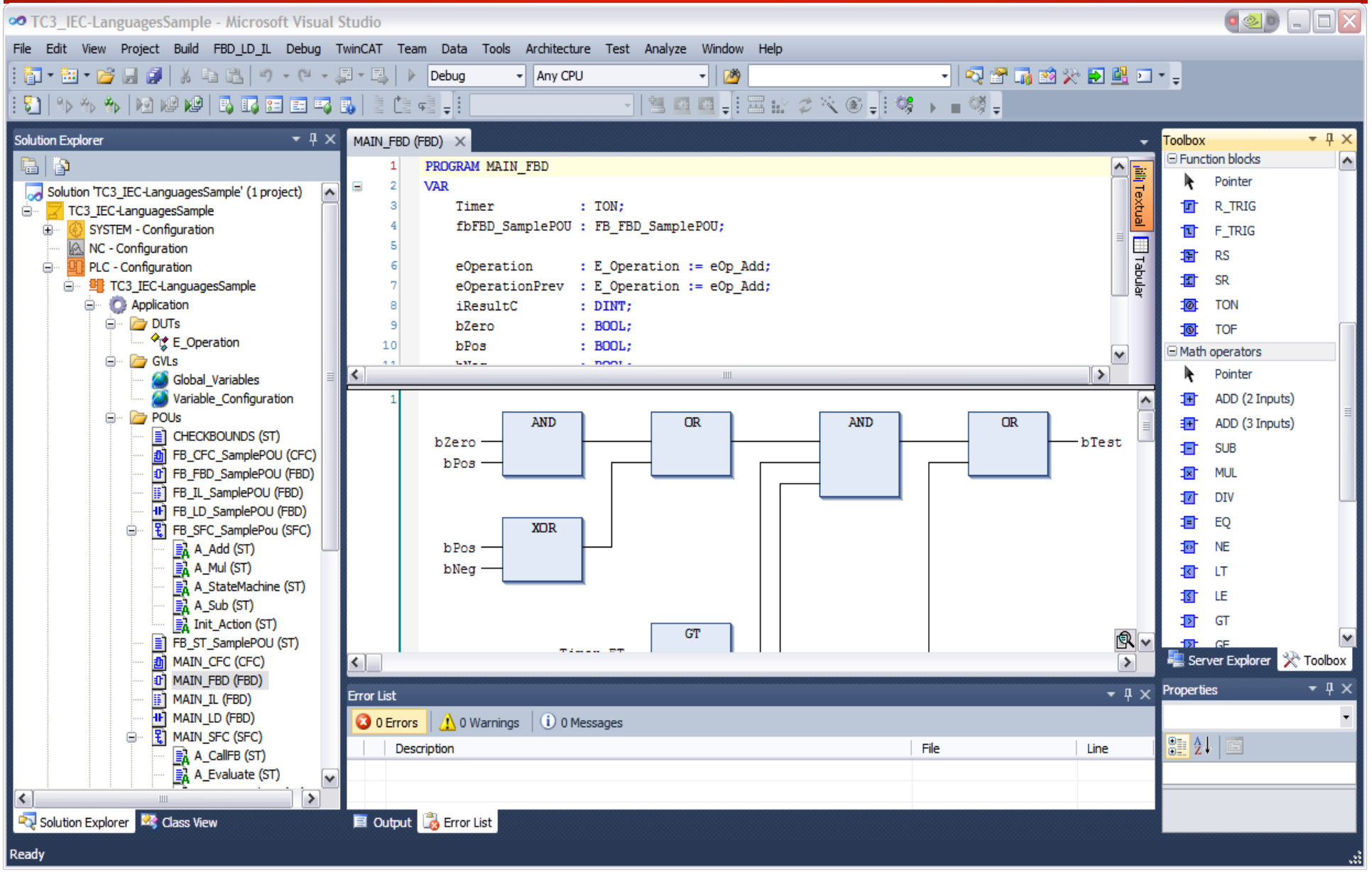

C/C++ Programming Languages

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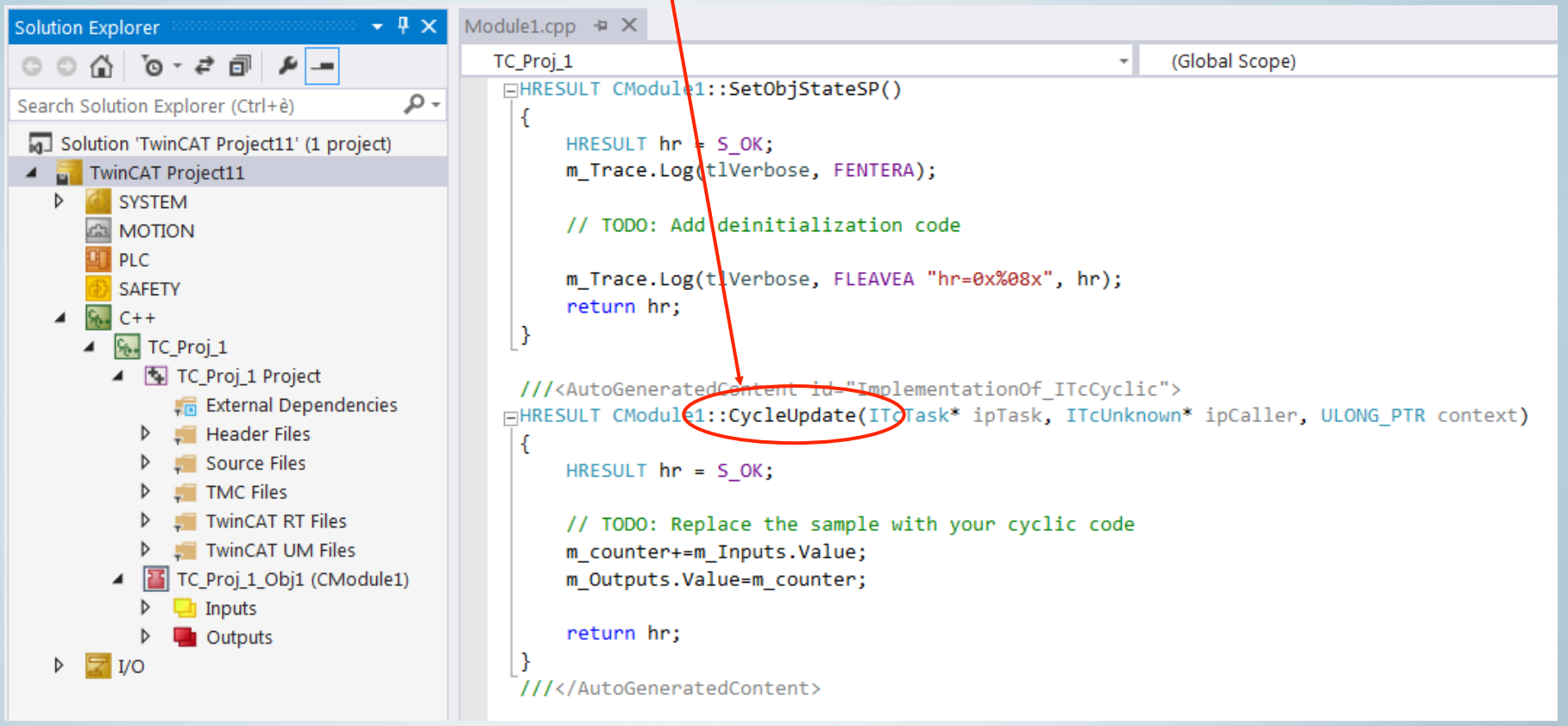
- C/C++ code integration

  → Method *CycleUpdate*: – is called cyclically from a task



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Matlab®/Simulink® Integration

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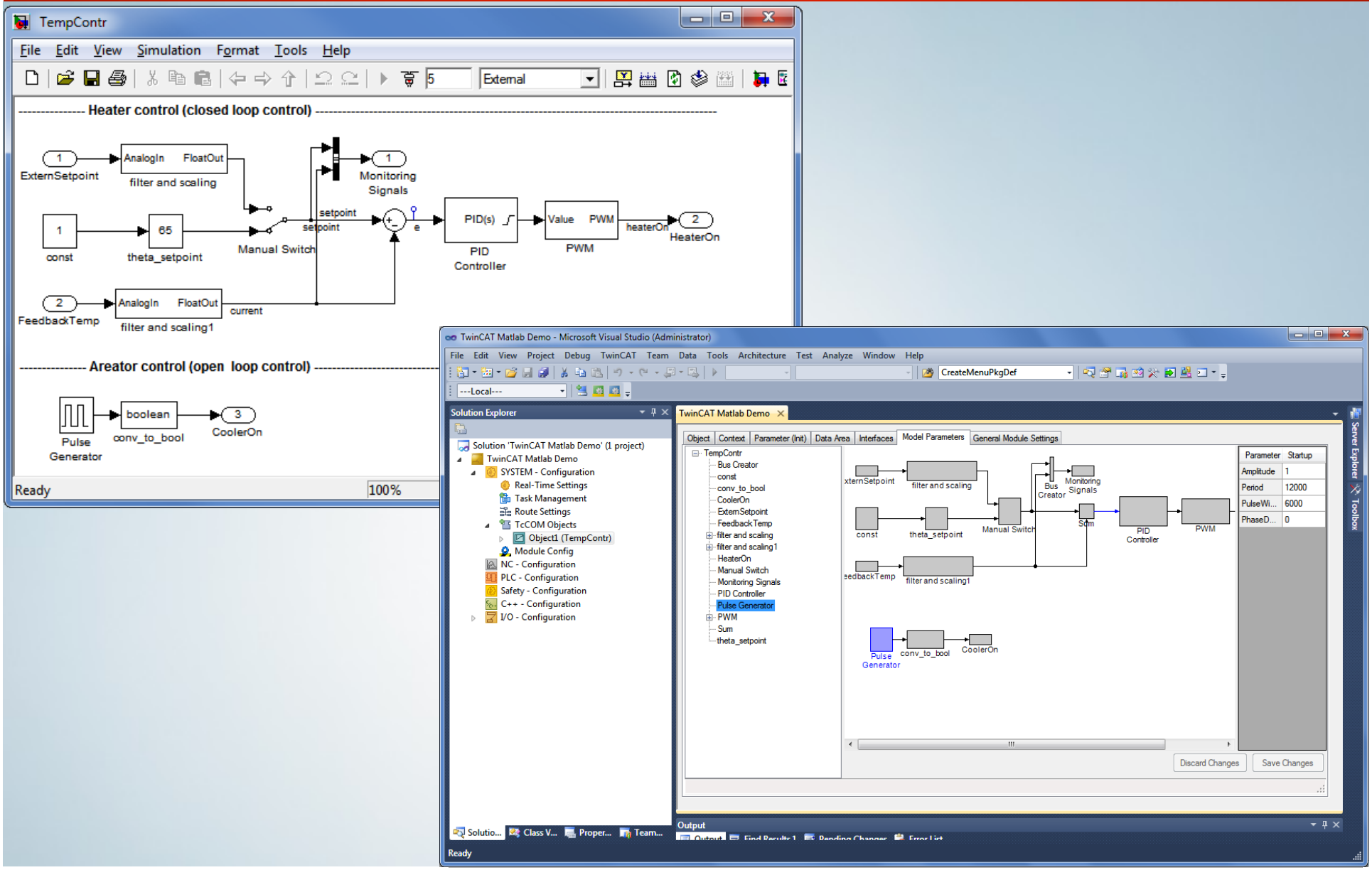

TwinCAT Motion – from PTP to Robotic Control

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NC PTP

Point-to-point movement

- gearing
- camming
- superposition
- flying saw

PLCopen motion control

NC I

Interpolated motion with 3 axes and 5 additional axes

- programming according to DIN 66025
- technological features
- straightforward utilisation through function blocks from the PLC

CNC

Complete CNC functionality

- interpolated movement for up to 32 axes per channel
- various transformations

Robotics

Interpolated motion for robotic control

- support for a wide range of kinematic systems
- optional torque pre-control

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TwinSAFE: the integrated safety solution

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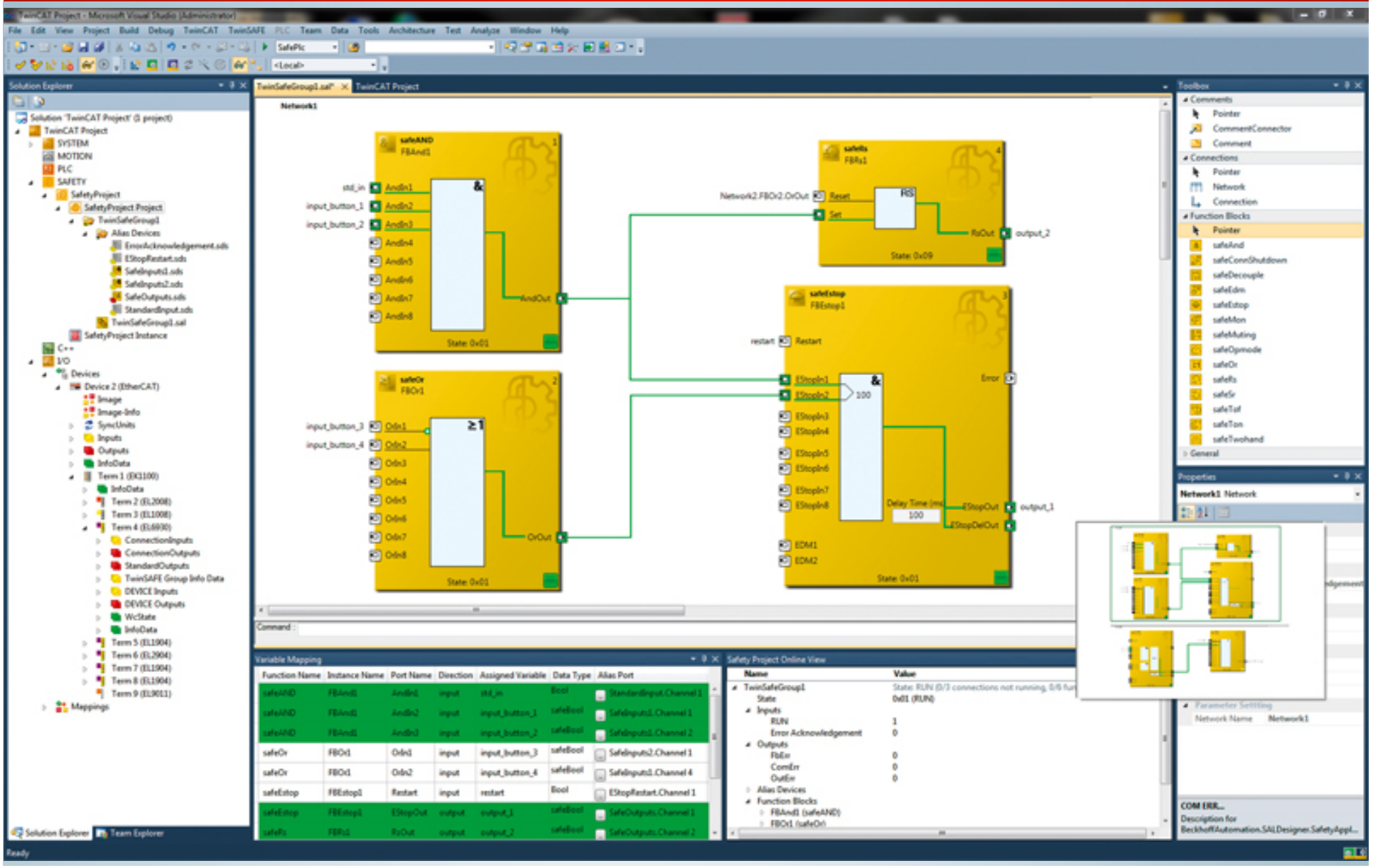

XFC – eXtreme Fast Control Technology

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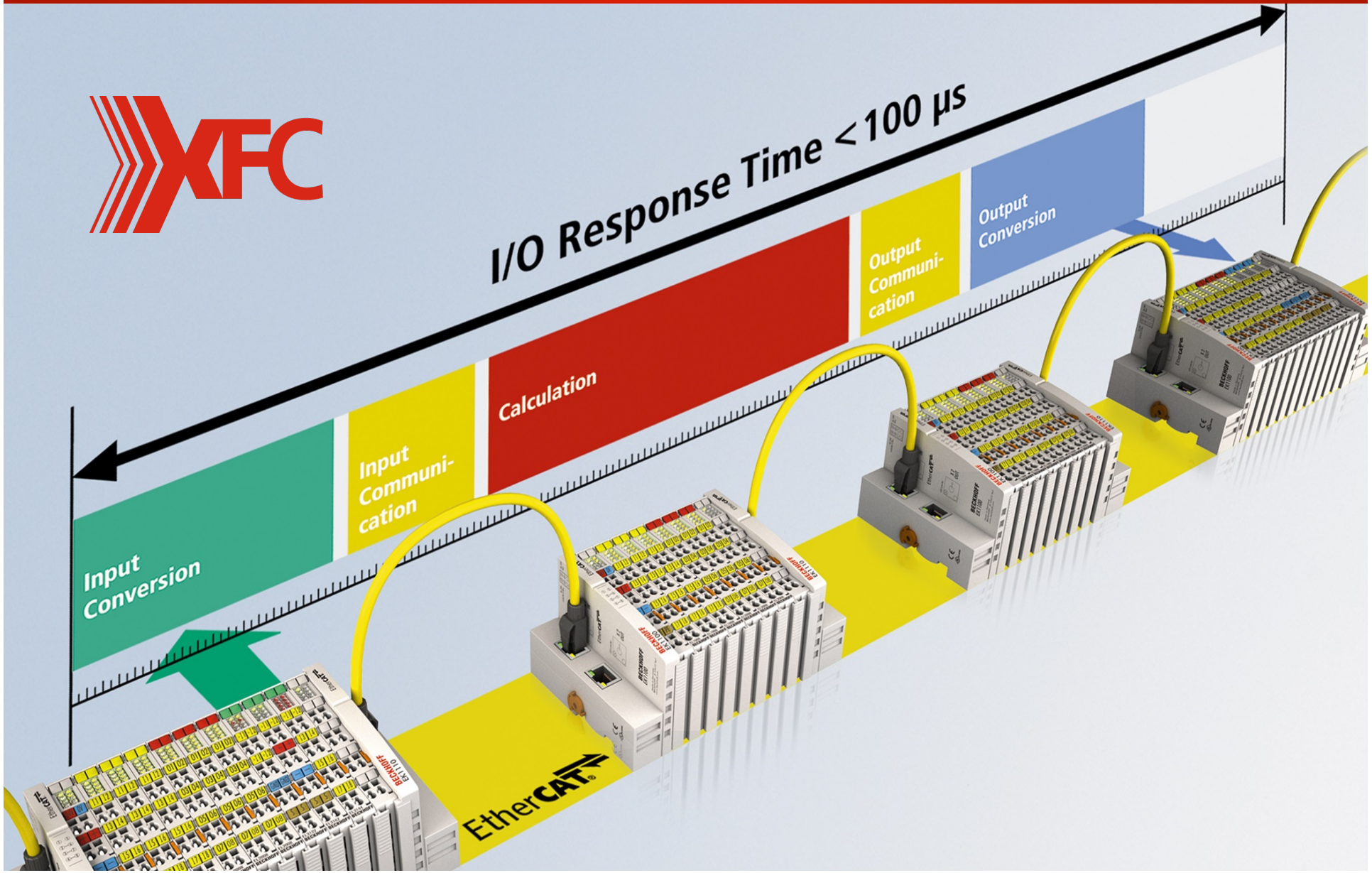

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Scientific Automation

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TwinCAT HMI

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- Efficient engineering
- HTML5, JavaScript
- Platform-independent
- Web-based
- Powerful architecture
- Modular expandability

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TwinCAT HMI

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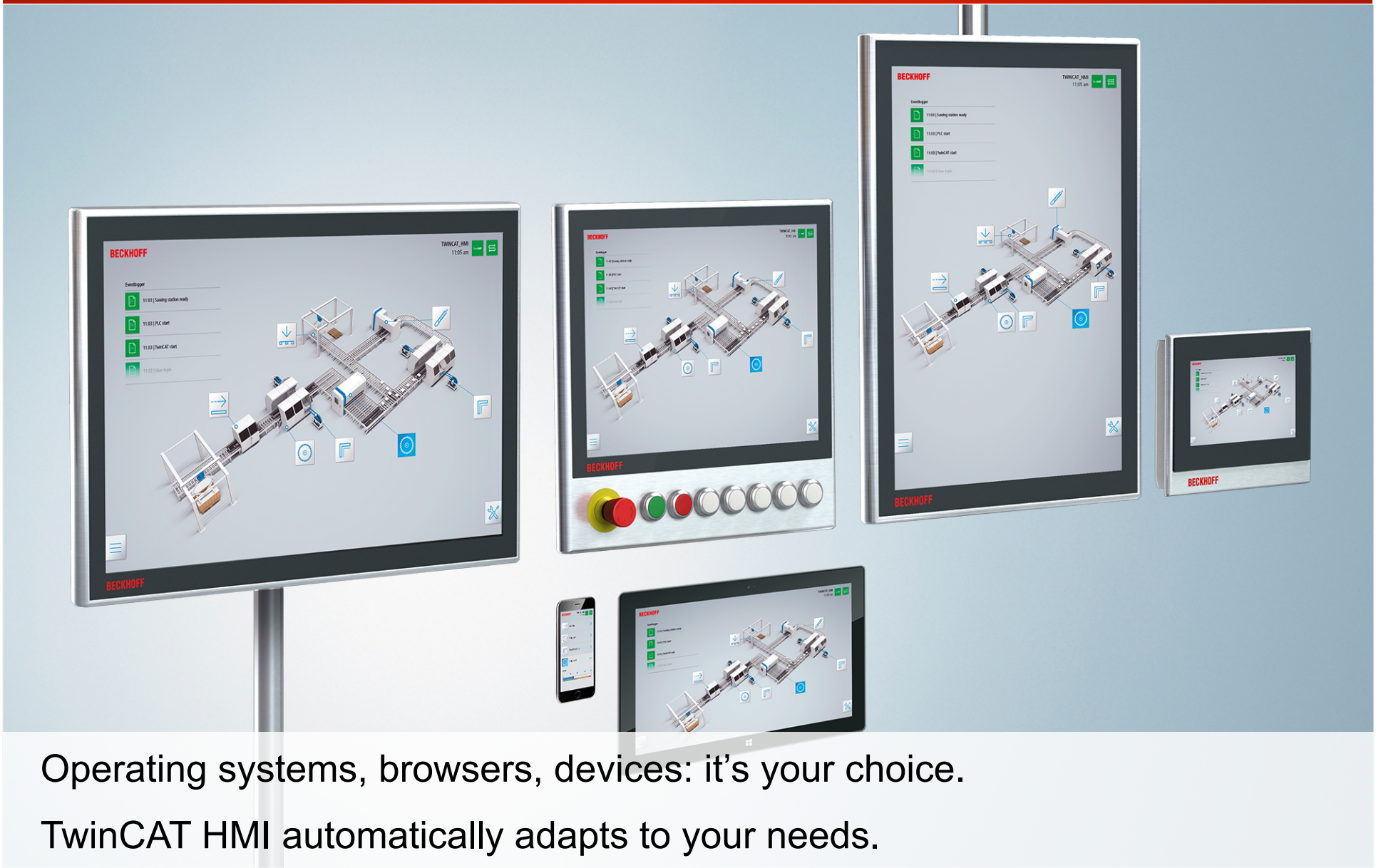

Operating systems, browsers, devices: it’s your choice.

TwinCAT HMI automatically adapts to your needs.

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IPCs Overview

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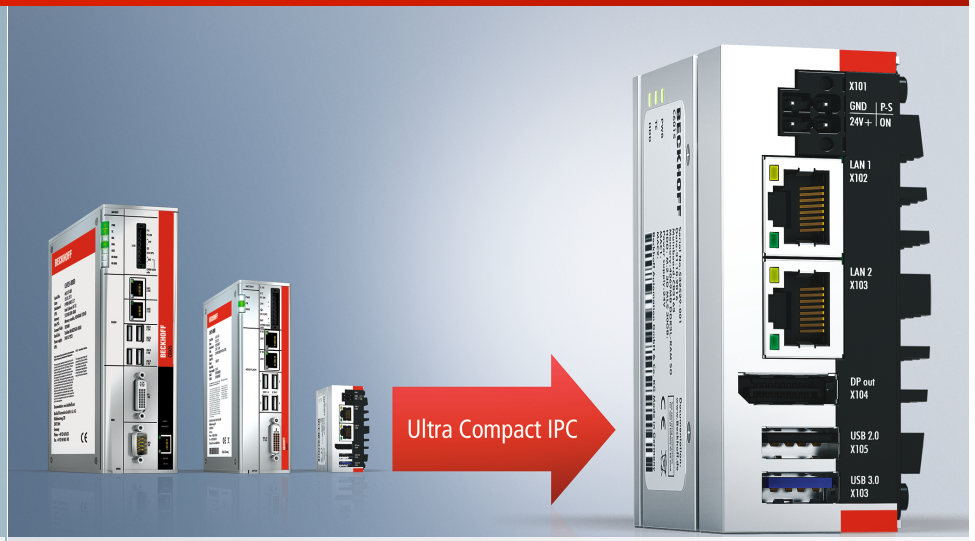
Panel PCs



Control cabinet industrial PCs

Embedded PCs

Control Panel

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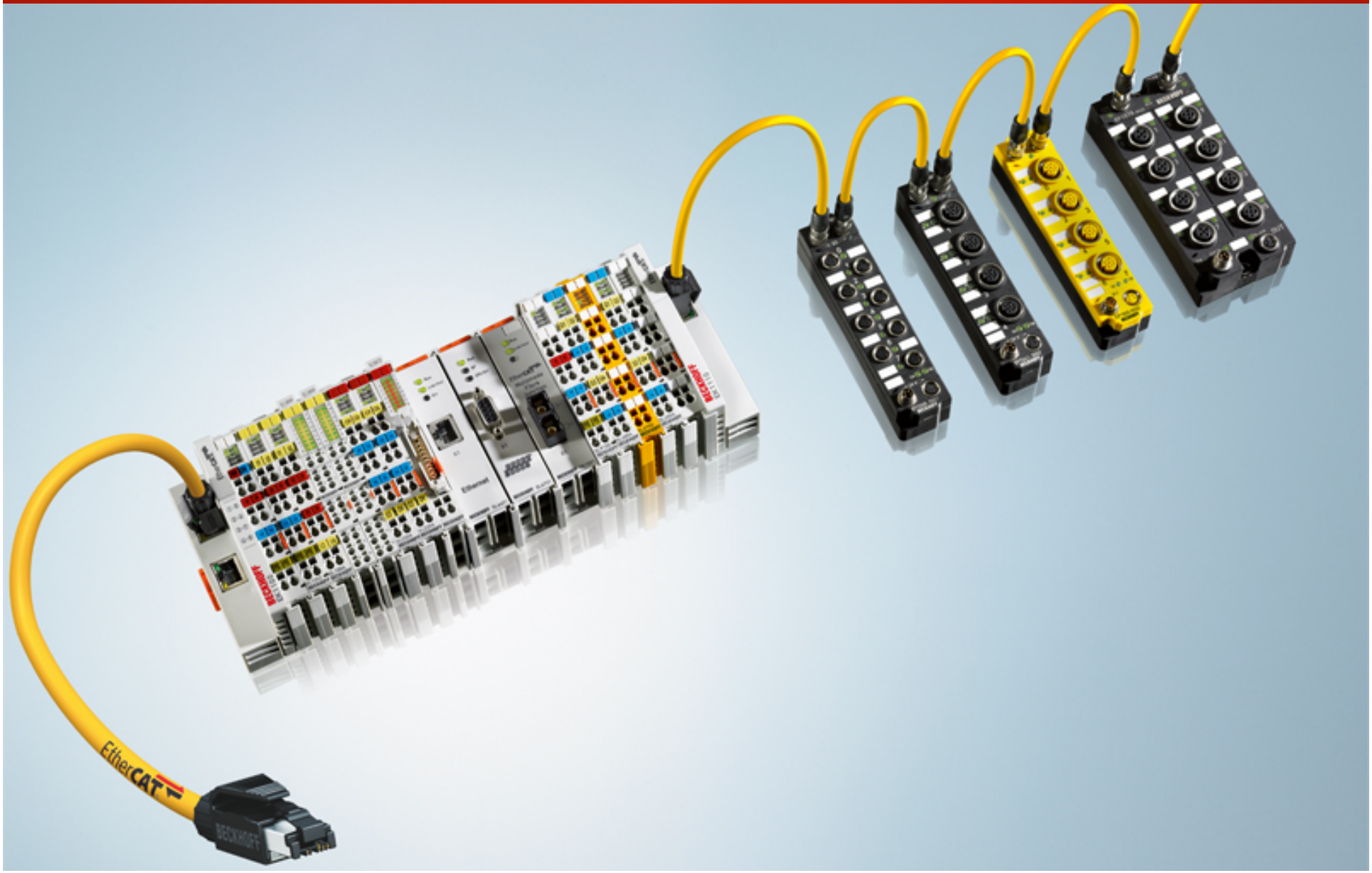

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EtherCAT

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Ethernet for Control Automation Technology

Ethercat I/O Overview

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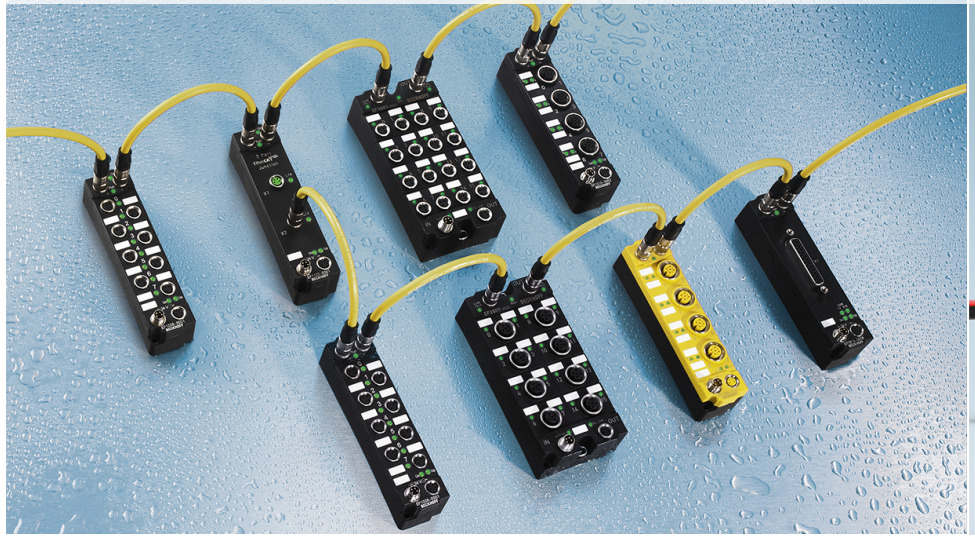
Ethercat terminal

Measurement Modules

Ethercat box



Ethercat P – One cable solution

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Motion Overview

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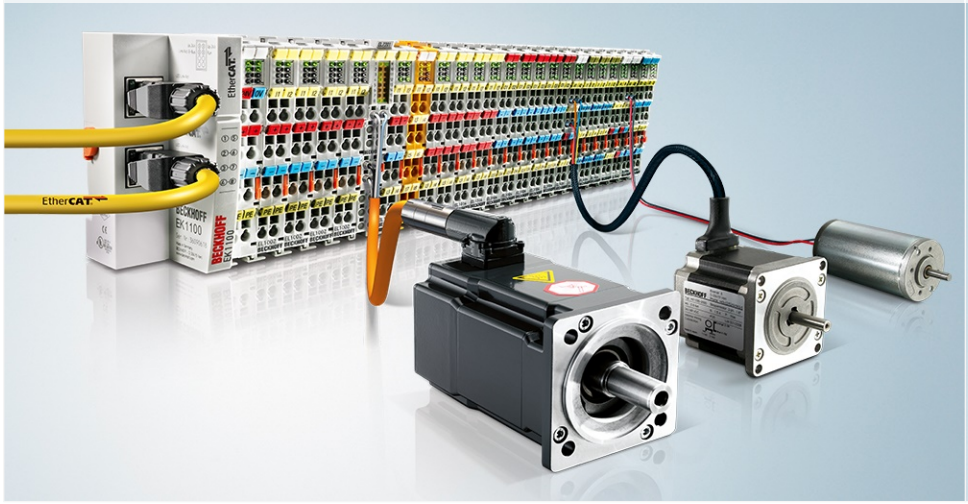
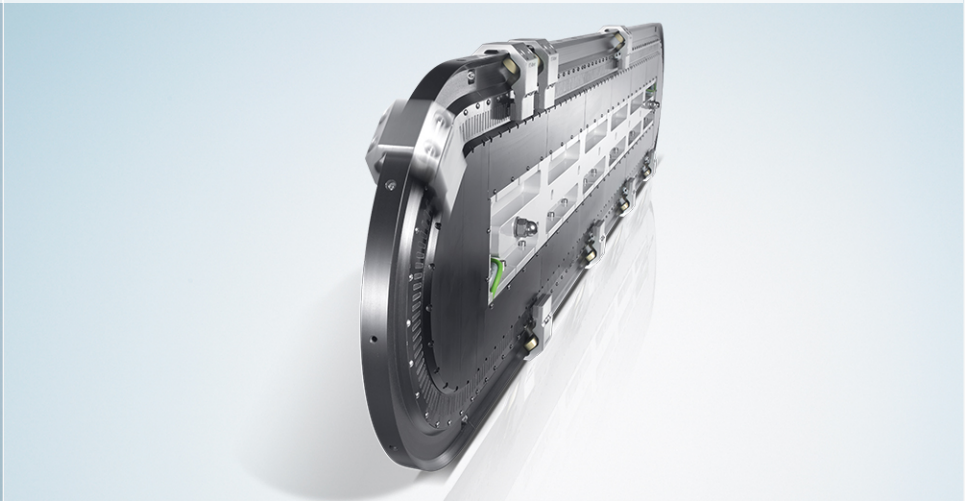
Servo Drives

Servomotors

Compact Drive Technology



eXtended Transport System



Beckhoff | The Motion Company

XTS – eXtended Transport System

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3. Career prospect & Opportunities

What sets us apart

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In contrast to most of our competitors, Beckhoff has always been – and will always be – an **owner-driven company.**

People who become part of the Beckhoff Automation team are given the opportunity to:

- work in a family company with ***FAMILY VALUES***
- face with innovative, ***TECHNOLOGICALLY***, advanced and rapidly growing environment
- accelerate their professional growth: ***KNOWLEDGE SHARING*** and ***TRAINING*** are the key elements in a technology driven company such as Beckhoff

We grant high standards of ***TRAINING*** both local and linked to the German HQ on all the product range (Industrial PCs, I/O and Fieldbus Components, Drive Technology and automation software)

Working at Beckhoff

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Beckhoff Automation offers numerous opportunities for starting careers with:

- ❖ Internships for university students in order to support the development of thesis
- ❖ Hiring for new graduated

OCCUPATION FIELDS:

Application Engineer

Responsibilities

- Provide technical assistance across Beckhoff's product range for internal and external customers
- Fault finding and troubleshooting on existing systems
- Product servicing and repair
- Represent the organization in a professional, ethical and socially responsible manner

Sales Engineer

Responsibilities

- Manage and generate new business opportunities
- Develop sales with OEM and End User customer accounts using appropriate products and solutions
- Successfully build relationships with current customer base and provide necessary sales support
- Represent the organization in a professional, ethical, and socially responsible manner

Working at Beckhoff

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We’re looking for talented young people who have:

- Bachelor’s Degree in Engineering, or equivalent
- Familiarity with Automation and Control Systems
- Strong interpersonal skills with ability to interact with customers
- Flexible and adaptable to changing support priorities
- Willing to travel

Whether you are a university student, graduate or professional, we look forward to your application!

Please send your application to: jobs@beckhoff.it.

BECKHOFF

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Agenda

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4. Questions