

OPC UA

In industrial automation



Motion Business Unit



Danfoss Drives - Italy, Merano

employees incl. S/C

~90

years experience in Drives

40+

R&D + Production Floor

7.000 m²

drives produced per year

70.000+



Our Team

Core Competences

- Automation systems and RT field-busses
- Motor know-how and control – high dynamic
- Drive-Motor-Gear - Integrated solutions
- Machine integration
- High IP products
- Advanced Functional Safety
- Solution oriented mindset



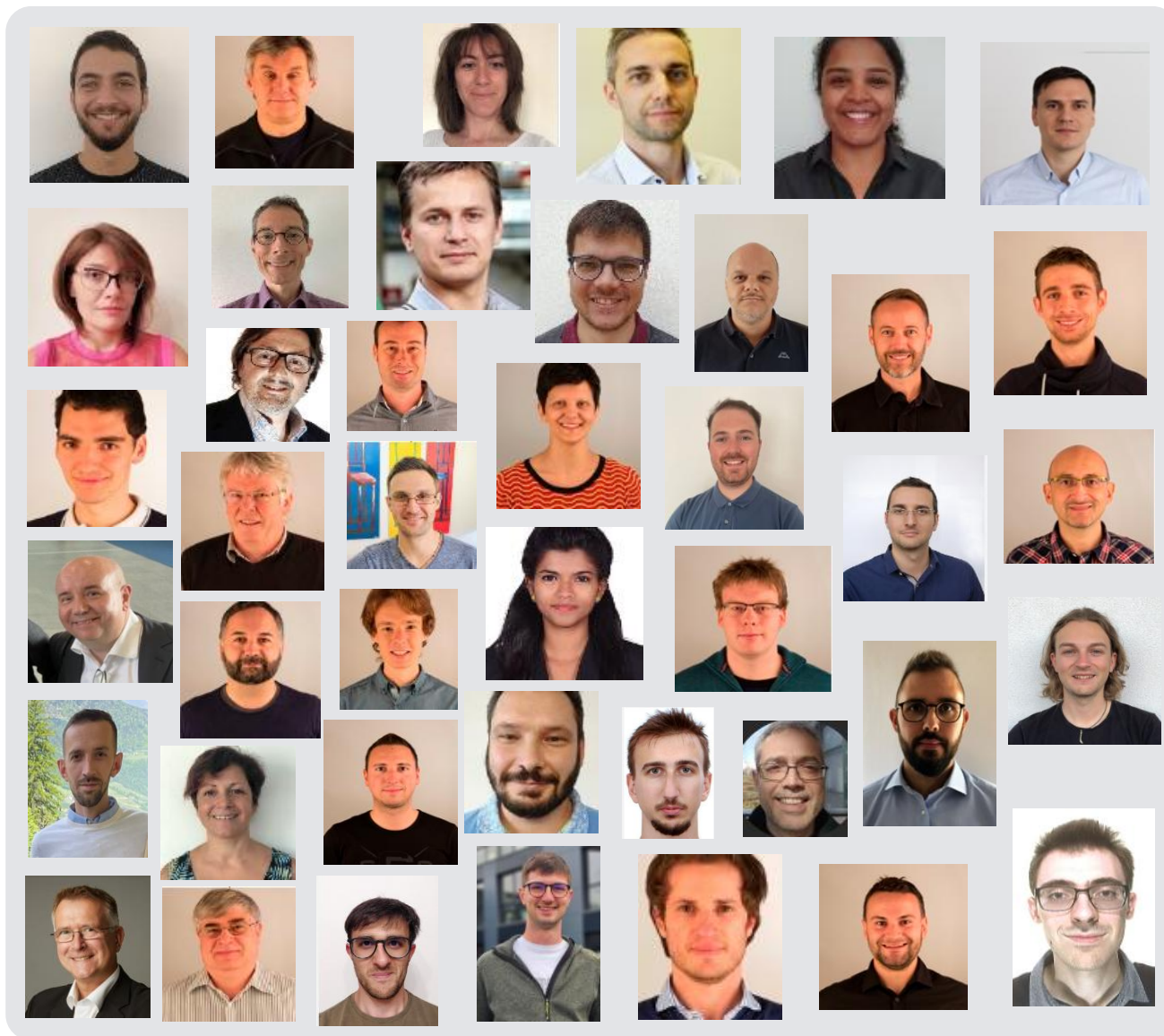
8 nationalities



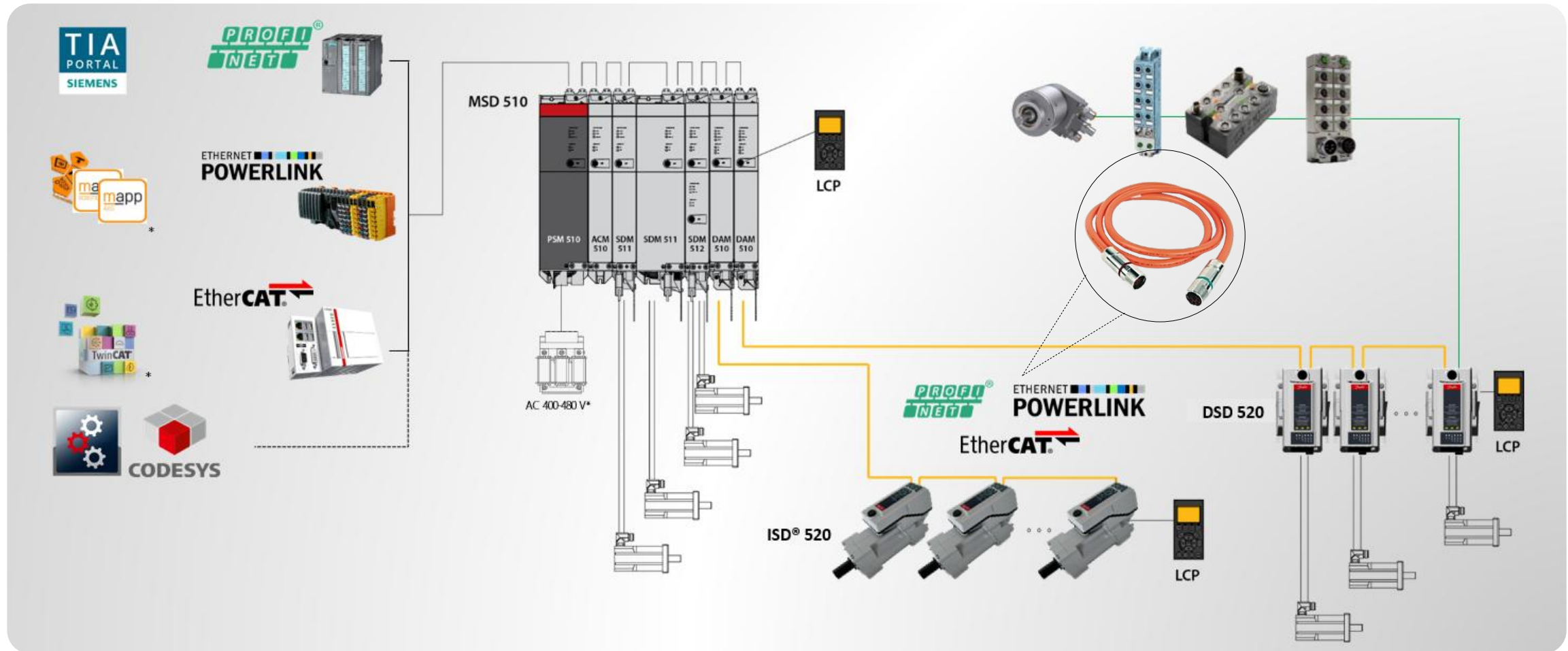
17% women



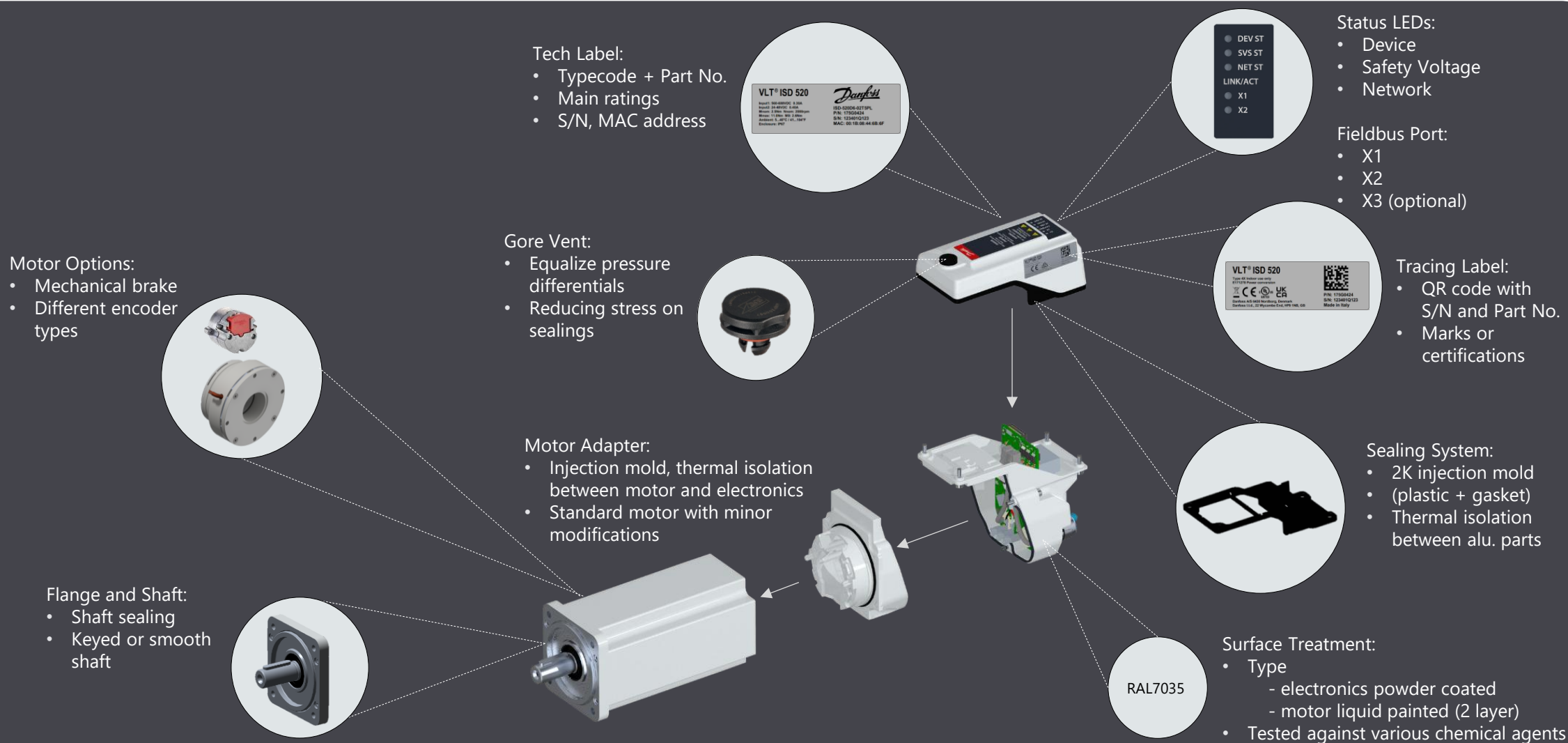
16 universities



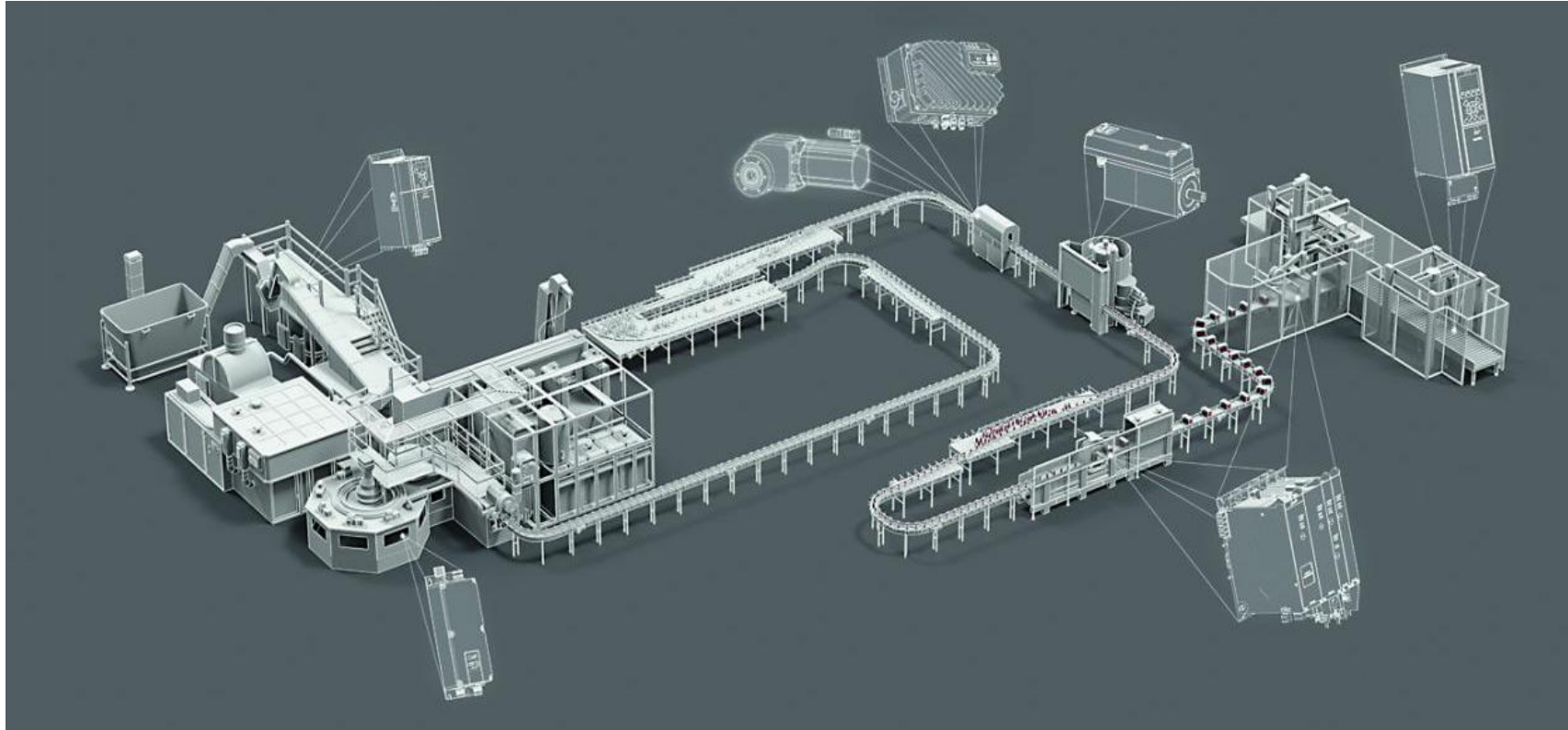
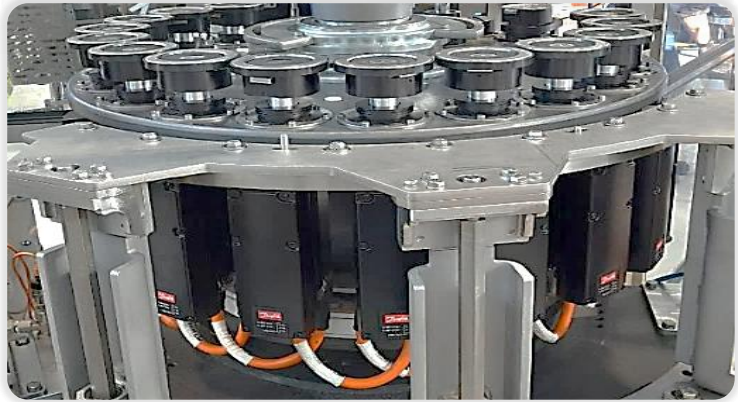
Seamless Integration into Automation Environments



Product Concept – Exploded View



Application



What is OPC-UA?

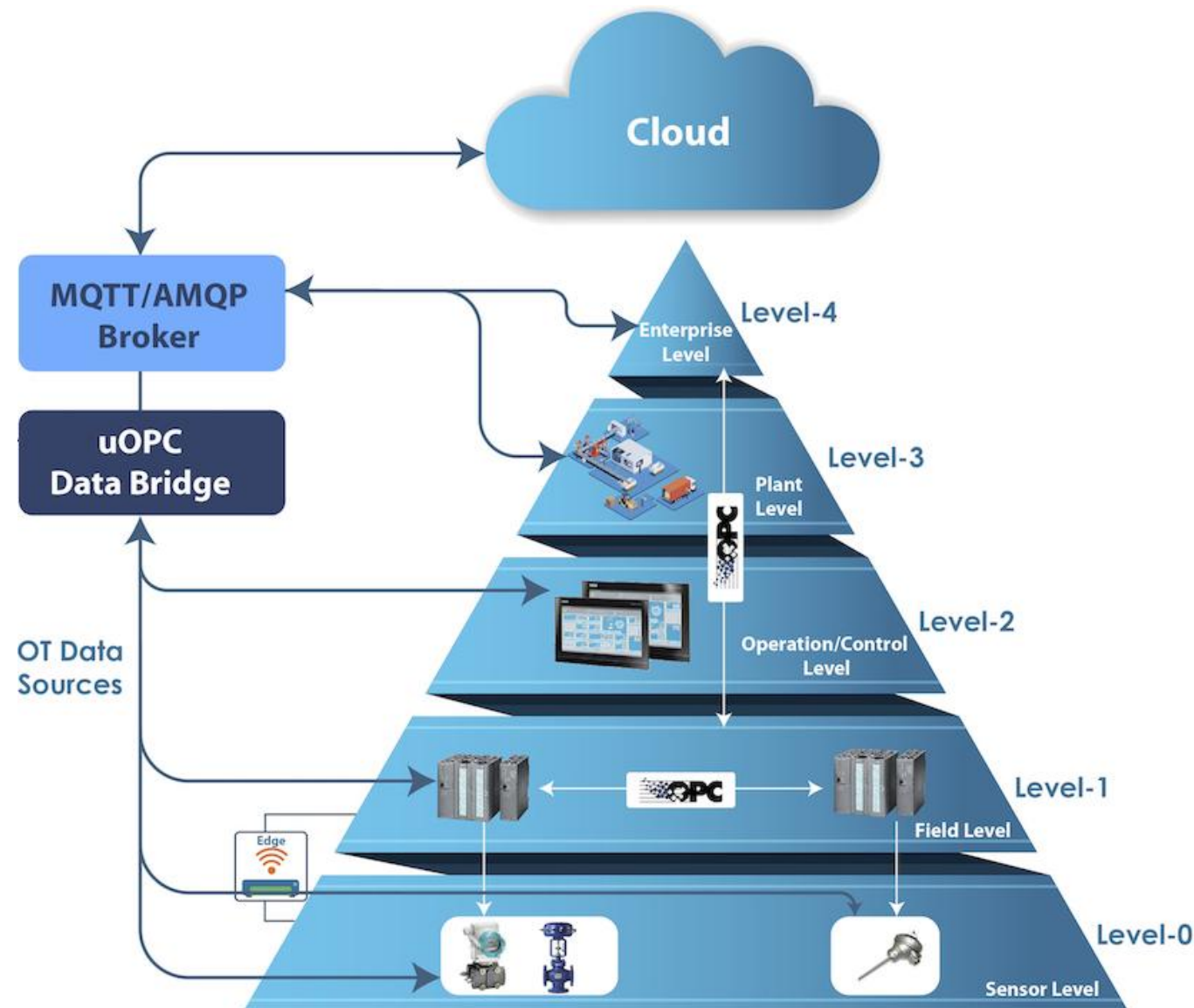


- **O**pen **P**latform **C**ommunications **U**nified **A**rchitecture
- A collection of other OPC standards
- A set of **specifications** to **communicate between devices**

Concept



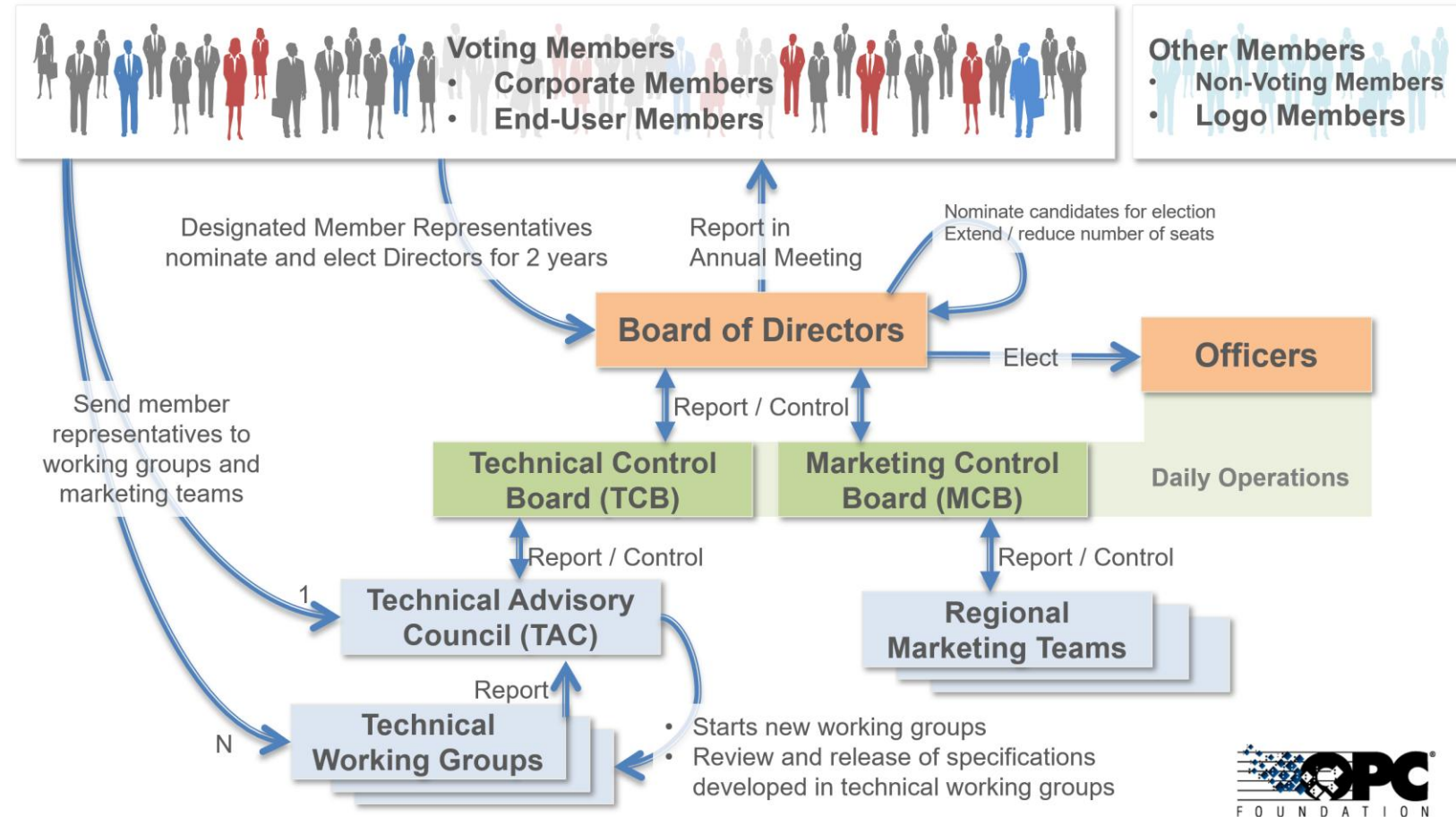
- OS – And Language Independent
- Bridge between Layers
- Interconnect **OT** devices
- Connect **OT** to **IT** Infrastructure



The OPC Foundation



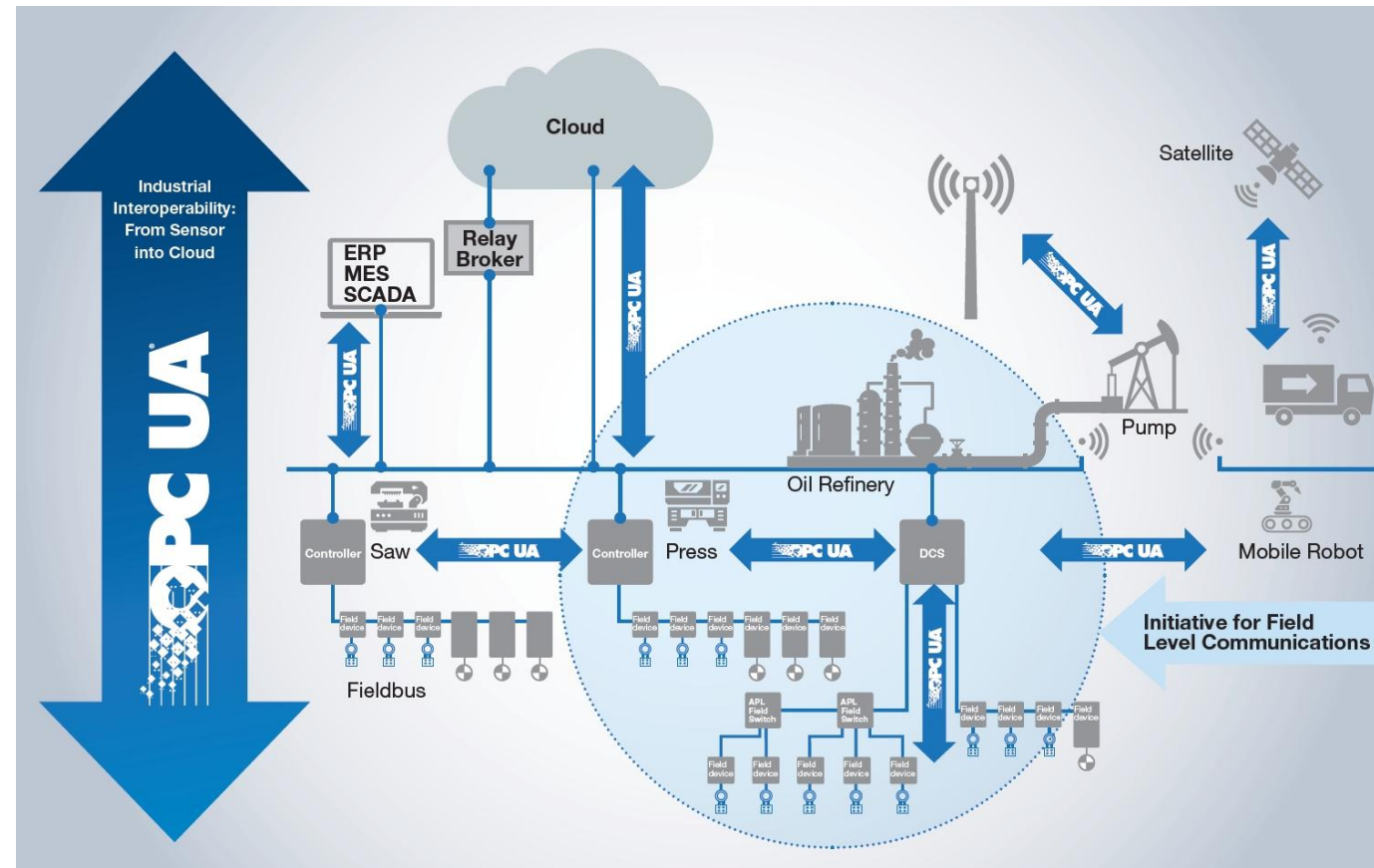
- Industry Consortium
- Founded in **1994**
- Over **1000** members
- 90+ **working groups**
- Specifies the **OPC** standard



OPC UA / OPC UA FX



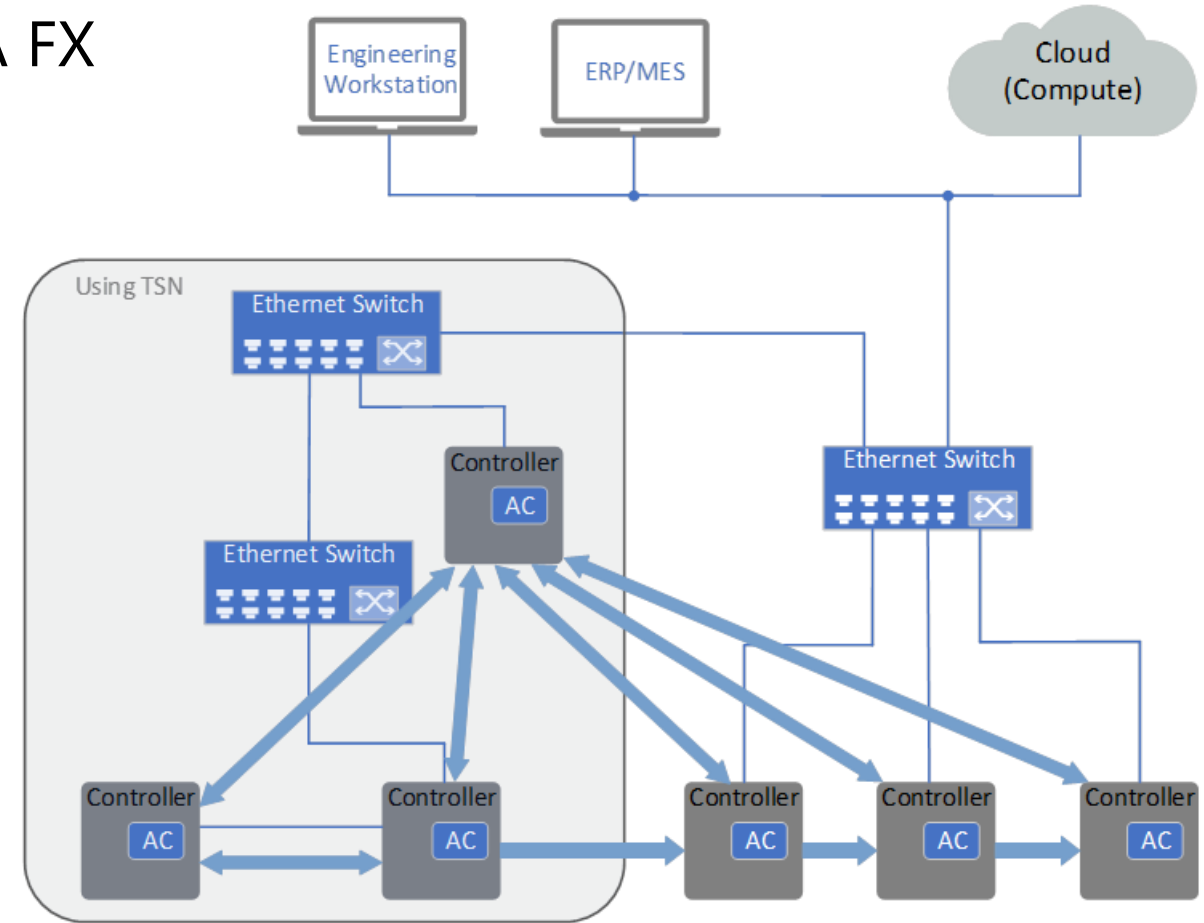
- **OPC UA Field eXchange**
- Extend OPC-UA to field world
- Multiple Specs:
 - **C2C** (**C**ontroller to **C**ontroller)
 - **C2D** (**C**ontroller to **D**evice)
 - **D2D** (**D**evice to **D**evice)
- Work in progress



OPC UA FX – C2C



- **First** completed specification in OPC UA FX
- **Controller 2 Controller** communication
- Multi-Controller Environments
- Process Data Exchange
- Safety Data Exchange



Q & A

For further Questions:

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