



ROMAN PERNICA, TECHNOLOGY CENTRE MANAGER, NOVEMBER 2017

Global R&D in Technology Centre Brno

Introduction

Ing. Roman PERNICA



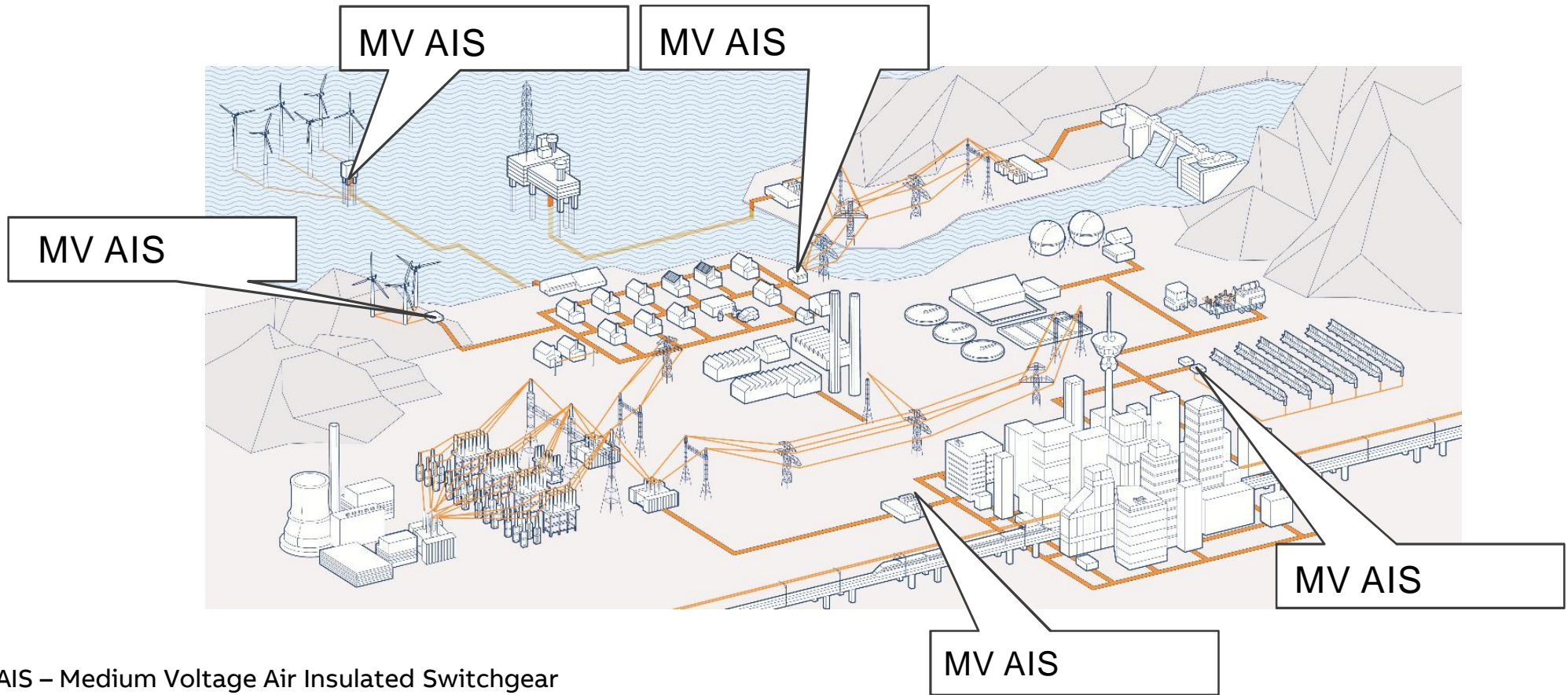
- **Education:**

- 1996 – 2001 **Brno University of Technology**, Faculty of Electrical Engineering and Computer Science

- **Work experience:**

- ABB s.r.o., Brno, Videnska 117
 - **2001 – 2002** *Order related designer*
 - Calculation and design of Instrument transformers
 - **2003 – 2009** *Technology Centre*
 - Designer, Senior Designer, Project manager, Senior project manager, Group Leader for development of Instrument transformers for MV
- ABB Inc., North Carolina, Pinetops, USA
 - **2009 – 2011** *Product Group Technology Manger (PGTM) for Instrument Transformers and Sensors*
 - Mission, vision, strategy of the development
 - Member of Technology Board of EPMV
- ABB s.r.o., Brno, Videnska 117
 - **2012 – Onwards** *Technology Centre Manager (TCM) Brno/Istanbul*
 - Instrument transformers and Sensors, Air Insulated Switchgears for MV, Service, Configurators
 - Execution of the strategy and road maps
 - Member of Technology Board of EPMV

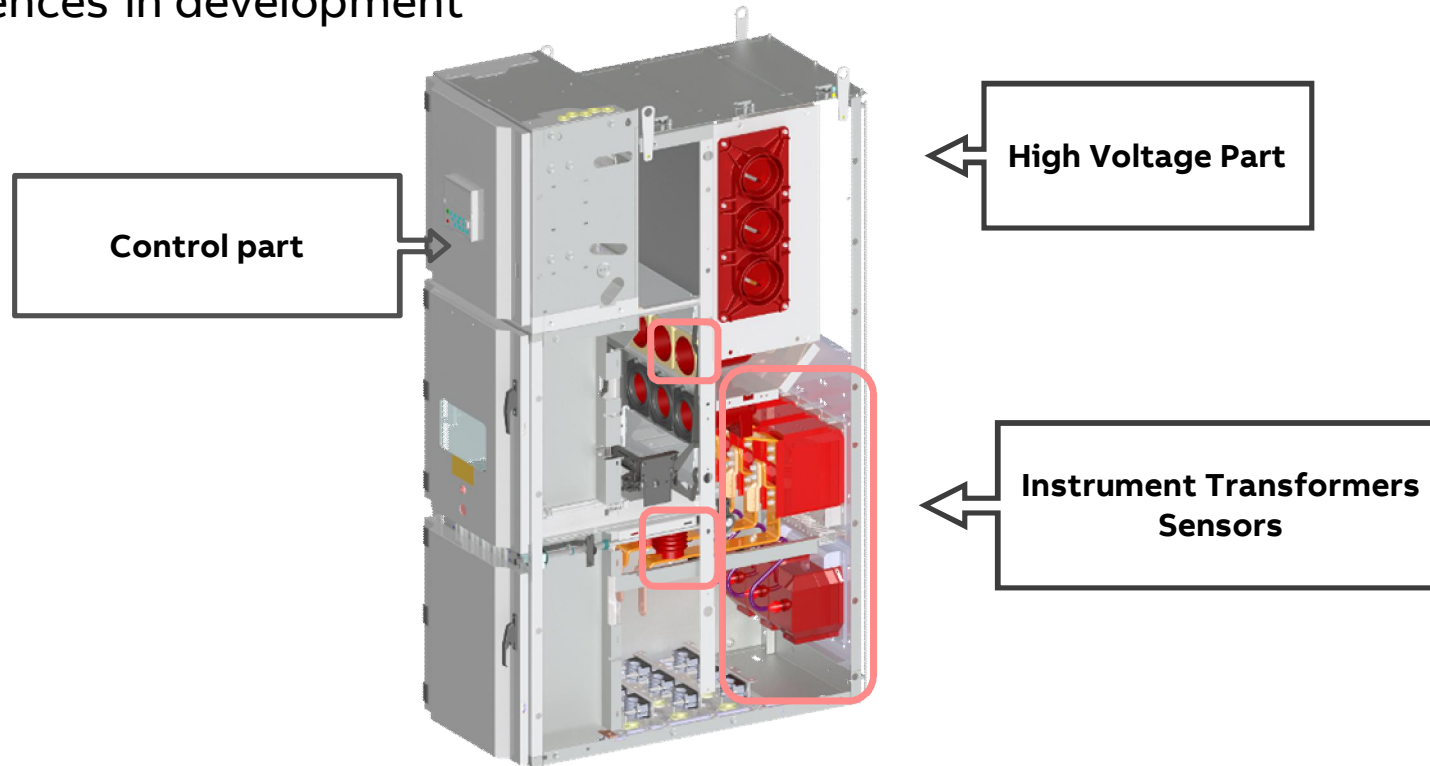
Power Distribution grid



MV AIS – Medium Voltage Air Insulated Switchgear

Technology Centre Brno

Core competences in development

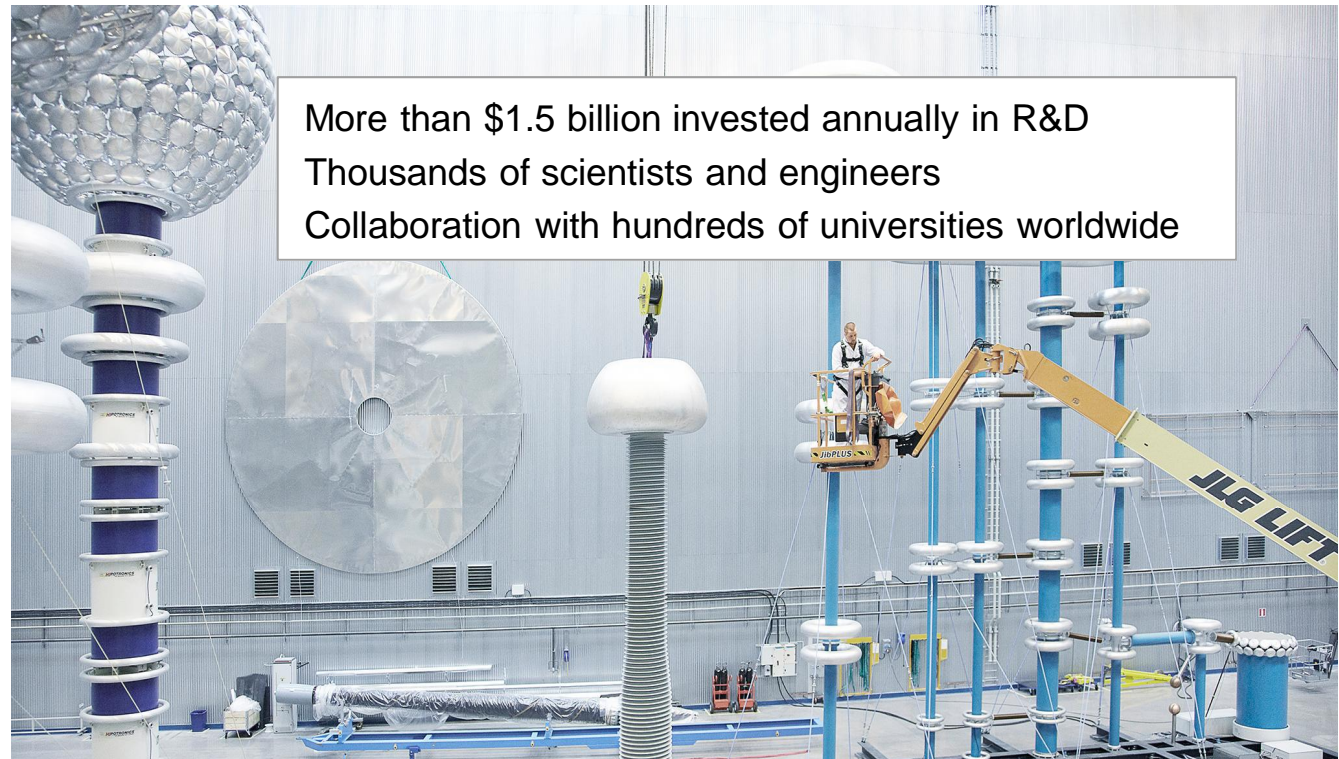


Lead in Switchgear digitalisation based on IEC 61850
Lead in Development of Sales Configurators
Global responsibility of documentation distribution and Maintenance - UniGear

Innovation is key to ABB's competitive advantage

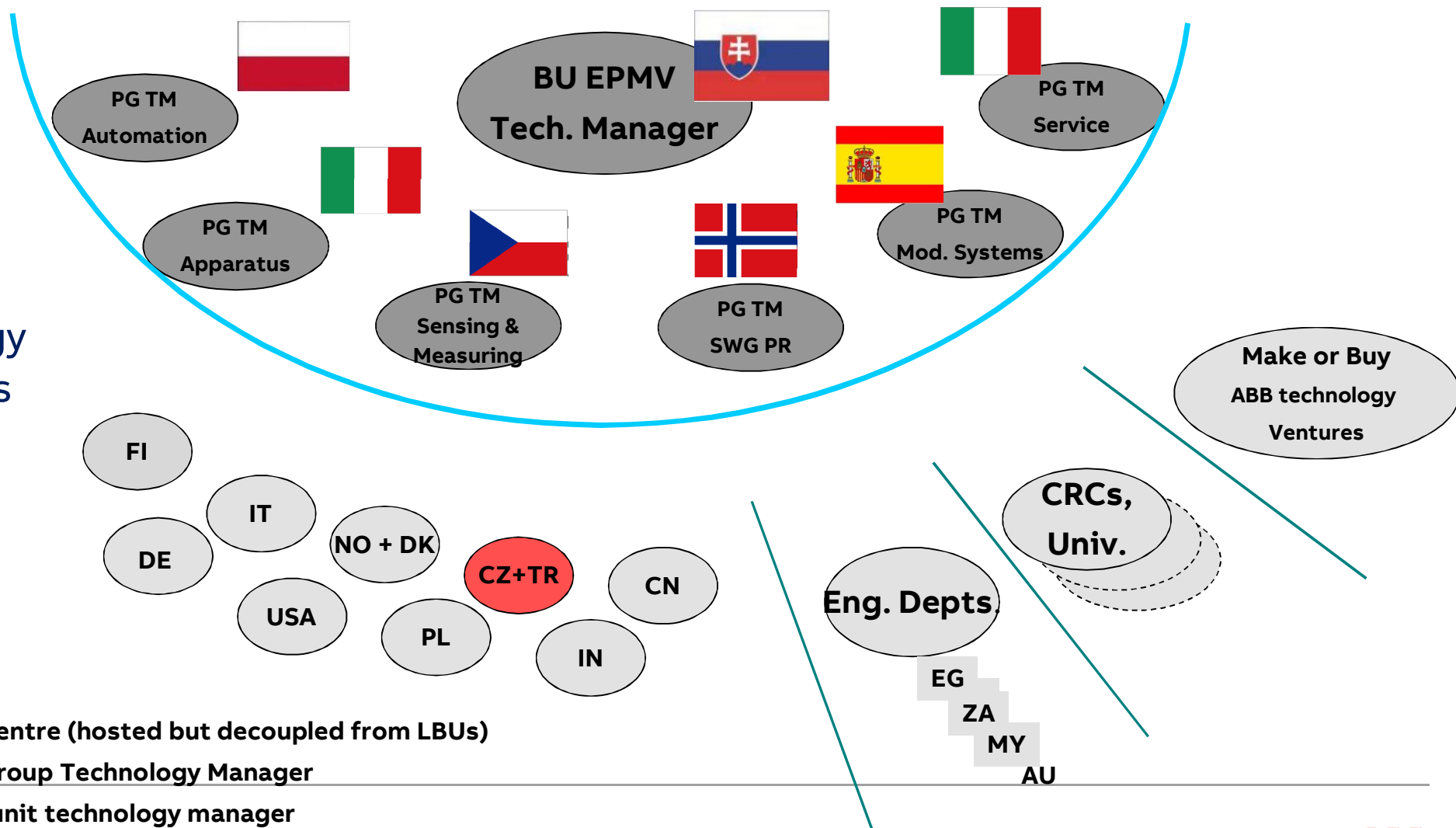
ABB Group

Leadership built on consistent R&D investment world wide

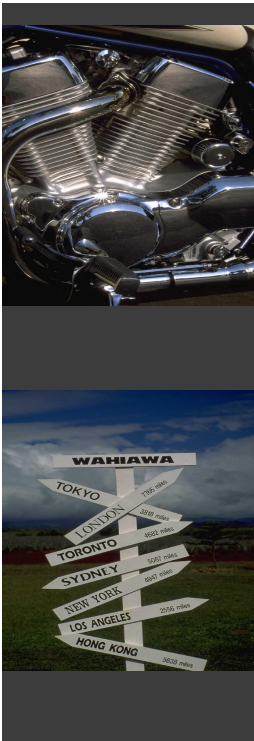


Technology Core Team in EPMV

Technology Suppliers



Management of Technology global virtual Teams



Efficiency

to do the work in a right way

- Output/Input
- speed, short delivery time
- Quality of process
- Quality of resources
- Feedback-loops, Measurement

Effectiveness

to do the right things

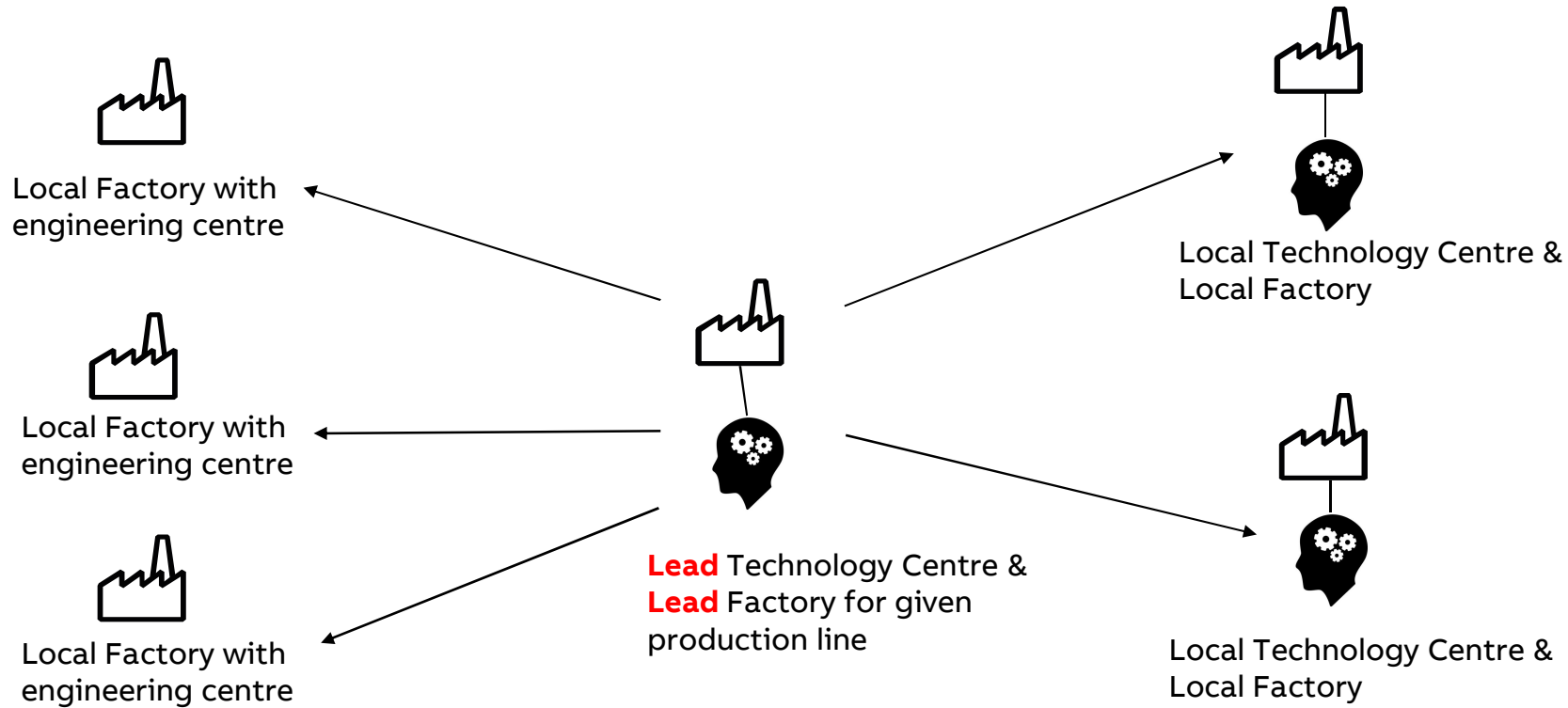
- mission, vision, strategy
- portfolio-planning
- customer needs, competitors
- state of the art technology

Technology Centre Managers

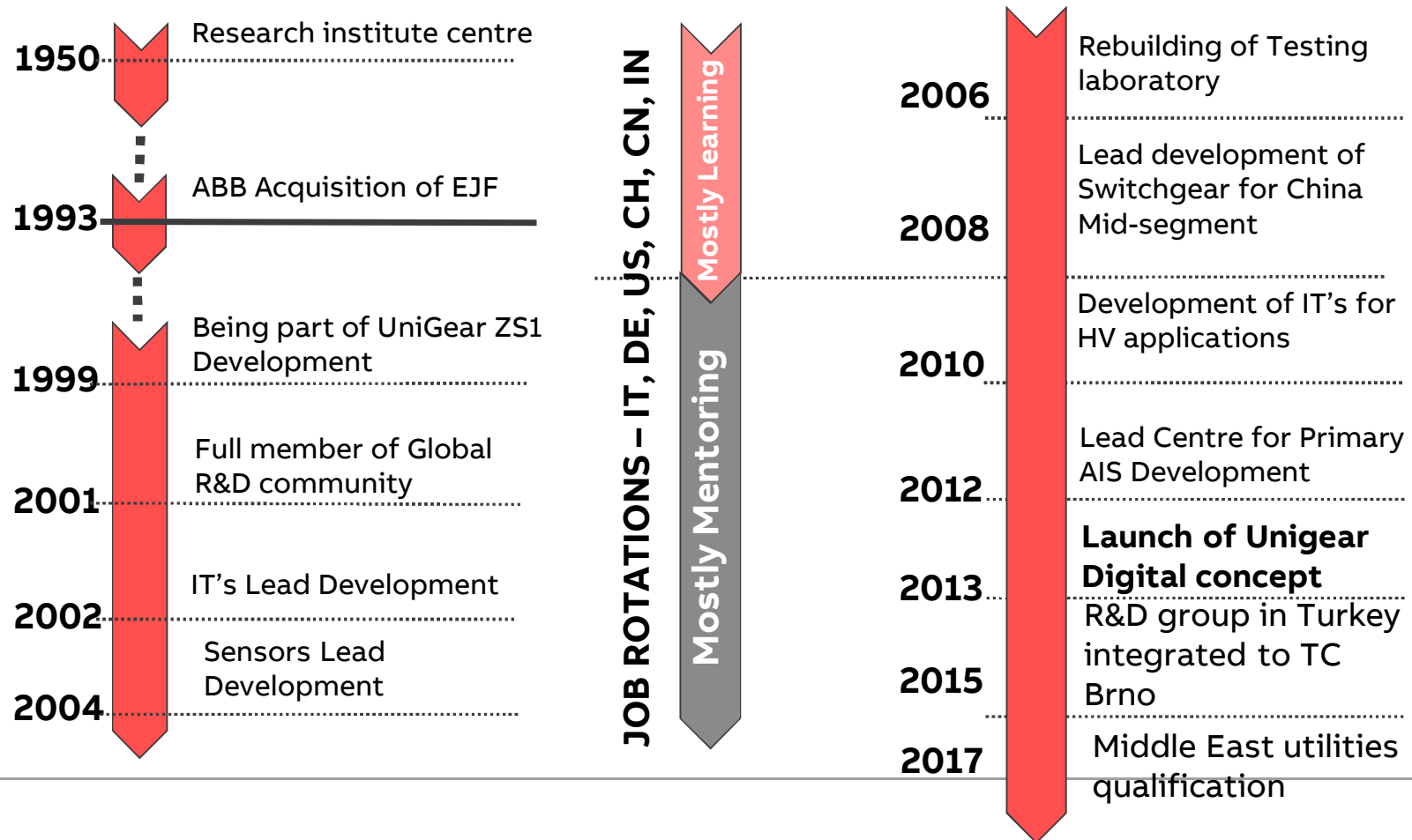
Product Group Technology Managers

Global control and sharing of the documentation

Position of lead Technology Centre and Lead factory



Technology Center Brno



Transfer of Technology, Rotation of experts - example



↔ Collaboration with R&D centers and rotation of experts

➔ Support of production units

Global lead and responsibility

Development activities definition

What drives the development needs?

Customer - Quality/Safety – Efficiency - Environment - Innovation



Development Road map

Example



ABB

Global Awards

ABB Group's Global Awards



Ethisphere Institute names ABB as one of the world's most ethical companies

ABB was recognized because of its demonstrated leadership in ethical business practices. Nominations from companies in more than 100 countries and 36 industries. ABB was awarded in 2013 and 2014.



Thomson Reuters recognizes ABB as a Top 100 Global Innovator

This award recognizes companies around the world for their outstanding commitment to global innovation, the protection of ideas and the commercialization of inventions. The company employs some 8,000 technologists in more than 20 countries.



Innovation isn't dead: MIT's 50 disruptive companies

Among the usual suspects such as Amazon, Apple, Facebook and Google the publication of the prestigious Massachusetts Institute of Technology cites ABB for "perfecting a circuit breaker for high-voltage DC lines" – a crucial step for widespread use of renewable energy.



ABB tops Fortune magazine list of the most admired companies for 2014 in its sector

Fortune's annual rankings are derived from a survey of 15,000 senior executives and industry analysts who rate companies on nine attributes ranging from innovativeness to the ability to attract and retain talent. ABB ranked first within its sector on five.

Power and automation are all around us

