



STANDORT MANAGEMENT – JUNI 2020

# Willkommen in Turgi

Einführung Neueintritte

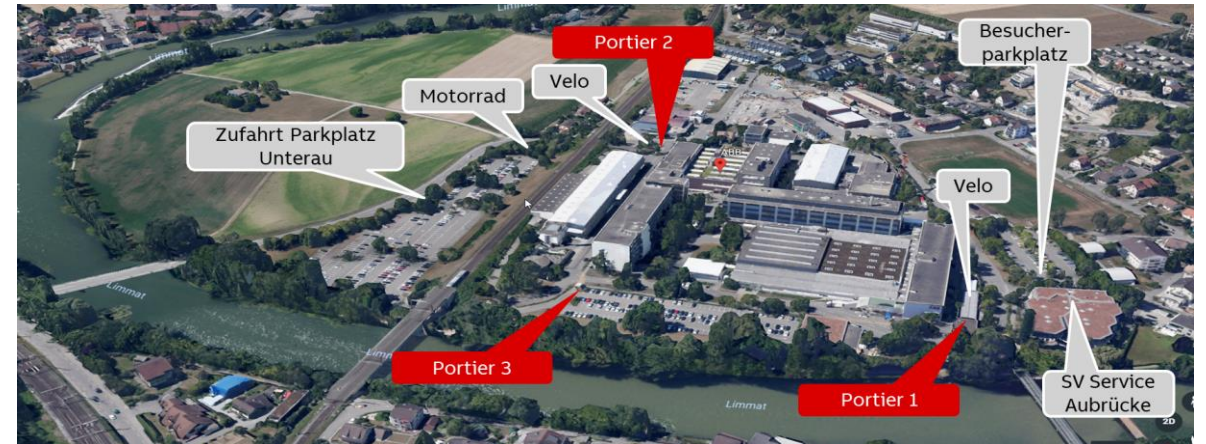
**ABB**

# Willkommen in Turgi

## Sicherheit

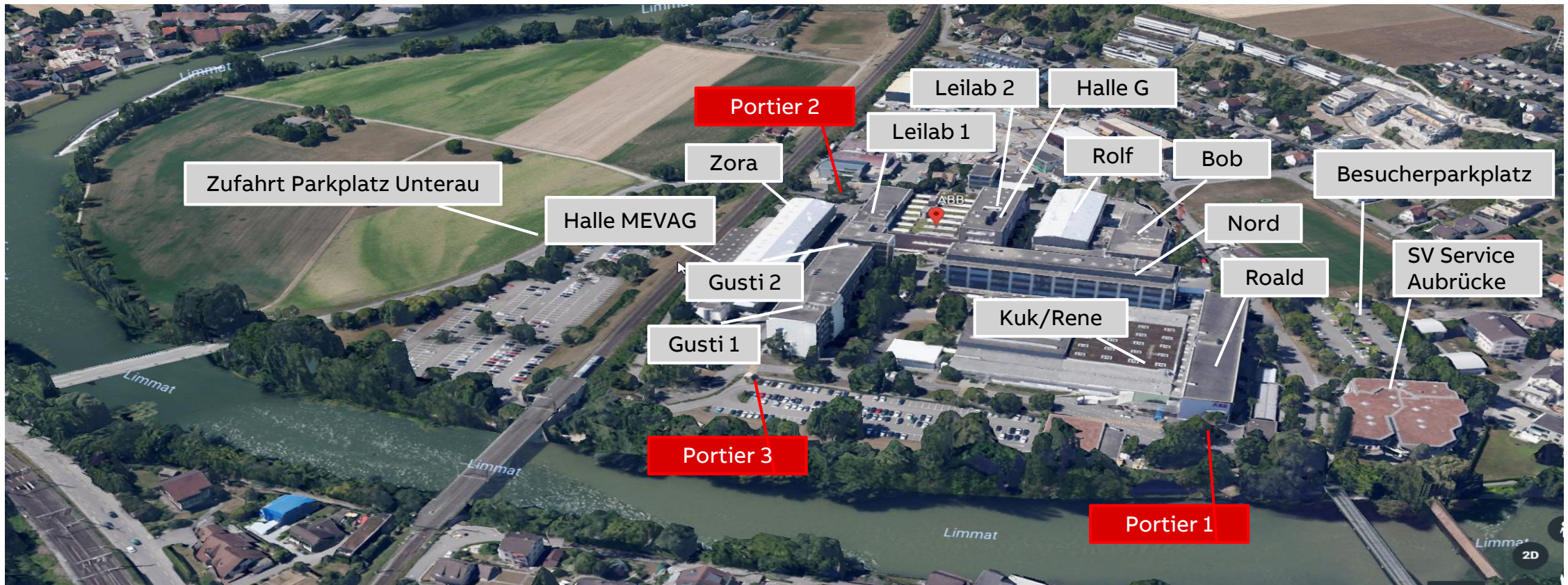


## Orientierung am Standort



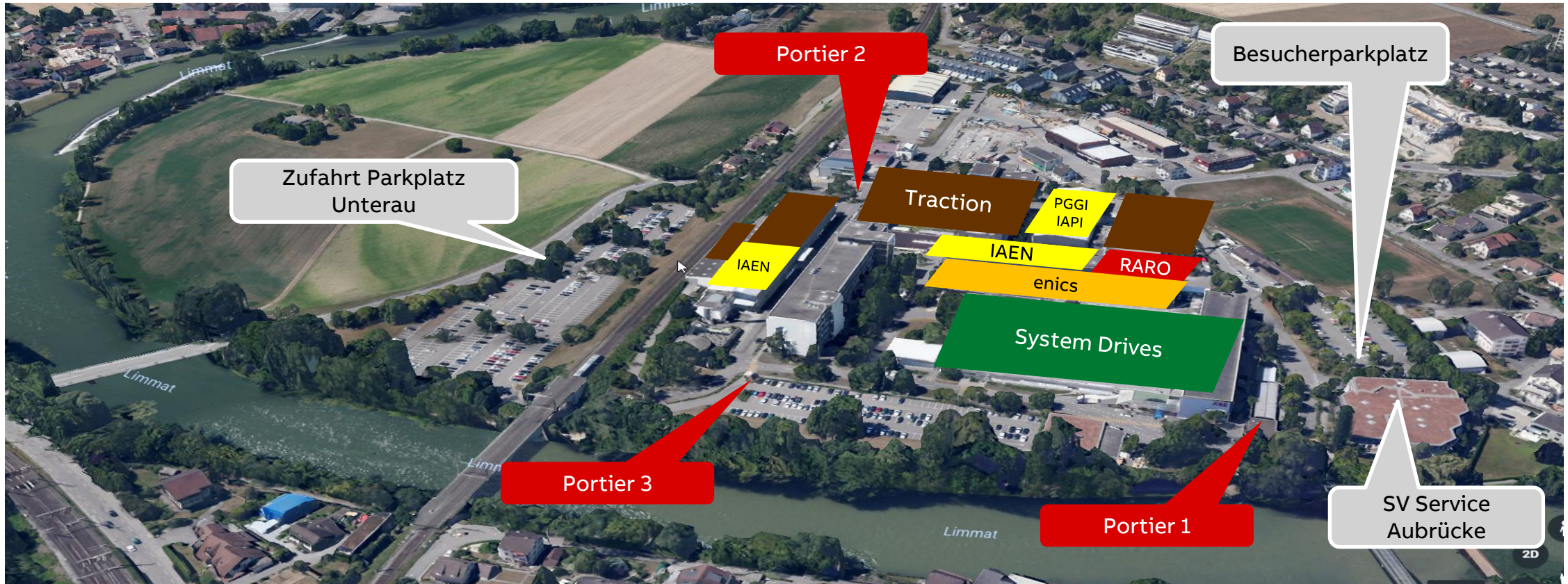
# Willkommen in Turgi

## Orientierung am Standort



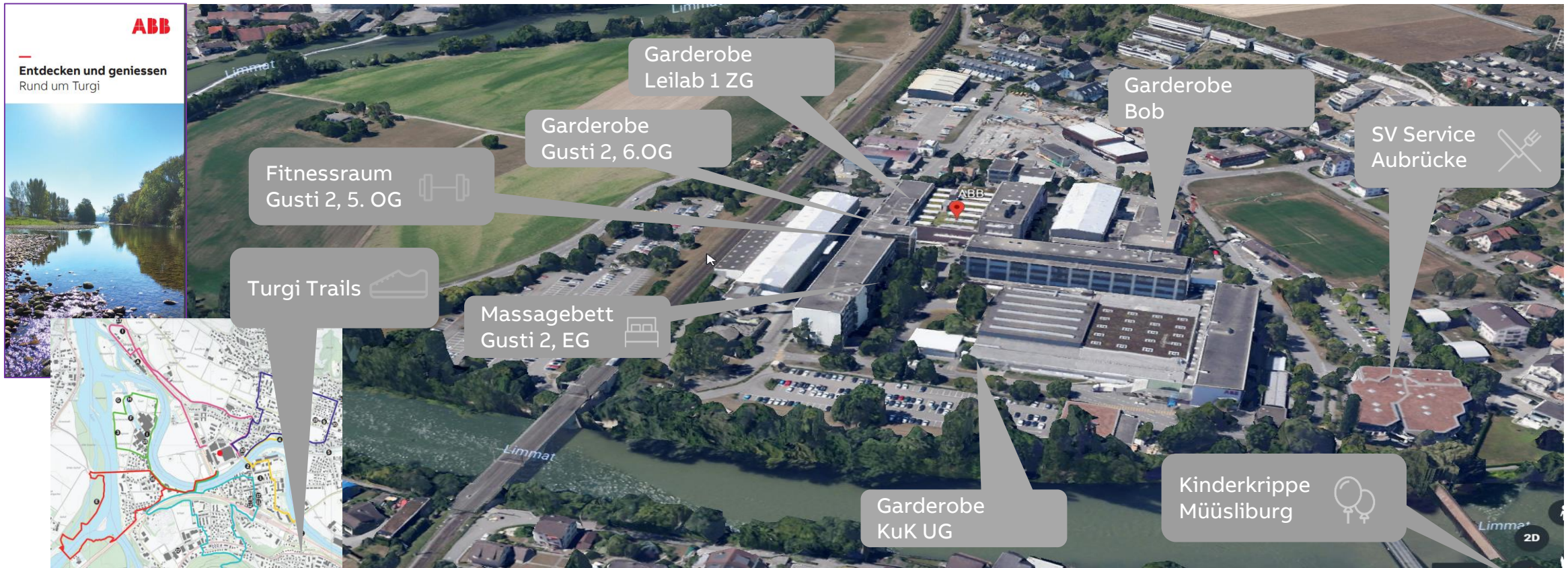
# Willkommen in Turgi

## Belegung Gebäude



# Willkommen in Turgi

Orientierung am Standort – Sport, Bewegung, Kinderkrippe



# Willkommen in Turgi

Inside + Standort Turgi

## Startseite

MOTION SCHWEIZ

Standort Turgi

News Standort Turgi

Informationen Standort Turgi

Actions

Inside+ > Businesses > Motion Schweiz > Standort Turgi > News Standort Turgi

### News Standort Turgi

- SO SCHÜTZEN WIR UNS.**  
Update für den Standort Turgi zum Coronavirus
- Coronavirus: Update zu den Massnahmen
- HSE Ziele 2020
- Sicherer Webverkehr durch die Einführung von iBoss
- Melden von Ereignissen
- Personeller Wechsel im Bereich von Systems & Business Services (MO-SBS)
- News Archiv

## Startseite

Informationen Standort Turgi

Organizational announcements

Schulungen / Kurse / Workshops

Informationen Standort Turgi

Standortpräsentation

- Situationsplan Turgi Deutsch
- Visitor Safety Video - Deutsch
- Visitor Safety Video - English
- Anfragen Infrastruktur - Service Request Portal
- MyDiscounts
- Restaurant Aubrücke
- Rund um Turgi

Fragen oder Feedback zur Seite?

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Executive Assistant Motion

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E-mail me

Chat on Skype

<https://go.insideplus.abb.com/ch/divisionen/robotik-und-antriebe/news-standort-turgi>

# Willkommen in Turgi

## Inside+ am Standort Turgi

### Informationen Standort Turgi

Management System

Besucherinformationen

Notfallinformationen & Kontakte

Contract Management

Corporate Health Management (BGM)

Health, Safety & Environment >

Human Resources

Infrastruktur >

IS Standort Turgi

Quality Management & OpEx

Supply Chain Management

Systems & Business Services

Travel

## Informationen Standort Turgi

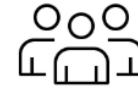
Willkommen auf der Inside+-Seite von Turgi. Hier findest du relevante Informationen rund um unseren Standort.



Besucherinformationen



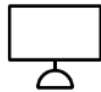
Notfallinformationen



Human Resources



Health, Safety & Environment



Information Systems



Management System



Systems & Business Services



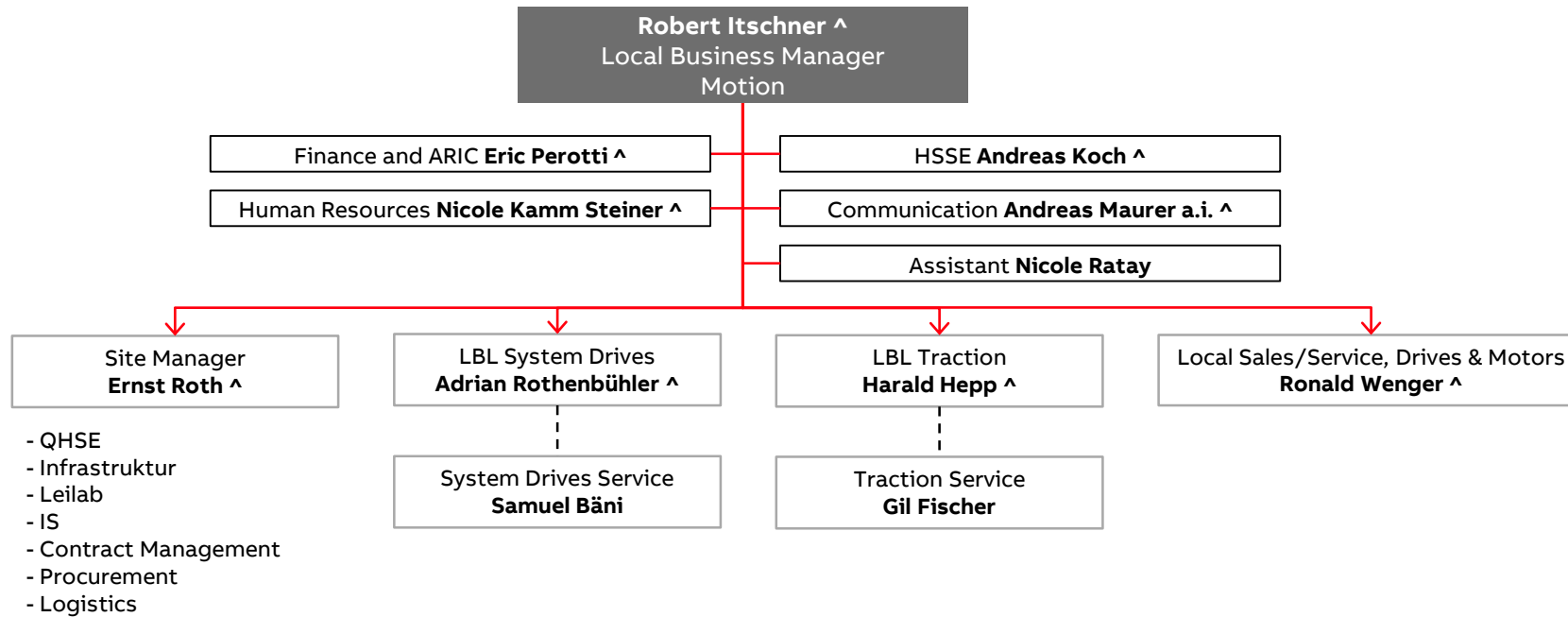
Travel

<https://go.insideplus.abb.com/ch/divisionen/motion-schweiz/standort-turgi/informationen-standort-turgi>

# Willkommen in Turgi

## Organisation Motion ABB Schweiz

MAERZ 2020





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# ABB Switzerland Site Turgi/Untersiggenthal

Power electronics for energy efficiency

## Turgi location

- 1,200 employees from 45 different nations
- 48,000 m<sup>2</sup> factory premises
- Functions – global responsibility
  - R&D
  - Sales and marketing
  - Engineering and project management
  - Sourcing, manufacturing and assembly
  - Product support, service and training

Motion – System Drives & Traction

Industrial Automation – Energy Industries

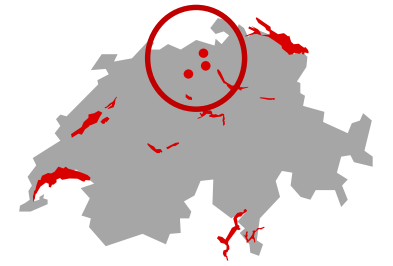
Power Grids - Grid & Power Quality Solutions



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# Home of power electronics

One of ABB's key technologies



## Corporate Research Center

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### Baden-Dättwil

Research areas such as power device technologies (materials, current interruption), power electronics, sensing and software solutions for power utilities and industrial applications

## High-power semiconductor fab

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### Lenzburg

Design and manufacturing of high-power semiconductors GTOs, IGBTs, IGCTs, Thyristors and Diodes in the power range of 300 up to 12000 A and 200 up to 8500 V at the highest levels of quality

## R&D and application engineering

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### Untersiggenthal / Turgi

Design and manufacturing of innovative power electronics products and systems for applications in transportation, industry and energy transmission segments

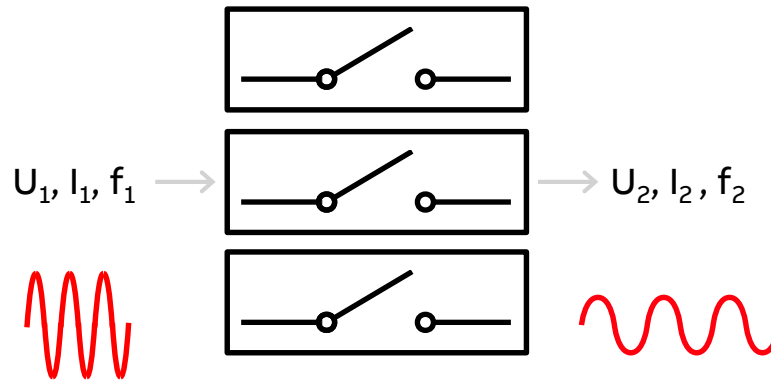
# Home of power electronics

One of ABB's key technologies

Power semiconductors, the heart of our products



Electronic switch for high power



Innovative and energy efficient products and systems



- Sustainable energy
- Industrial productivity
- Clean transportation

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# Global market and trends

We are the #1 global drives player - and we are growing our lead

Our drives offering is the most comprehensive, unmatched by anyone else in the industry.

**We serve all industries and all applications**



Beverage industry



Cement



Chemicals



Food industry



HVAC



Marine



Material handling



Metals industry



Mining and minerals



Oil and gas



Power generation



Pulp & Paper



Rail



Water and wastewater



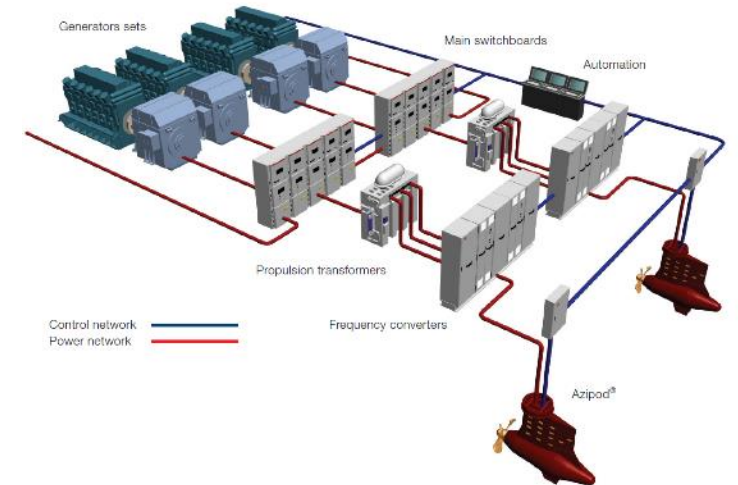
Wind

# Motion – Drives: Enjoying cruising with ABB’s propulsion system

## Quantum of the Seas



Source: Meyer Werft GmbH



### Application

- The Quantum of the Seas cruise ship is one of many vessels utilizing ABB’s integrated power plant and propulsion system
- More than 5000 MW of Azipod power has been delivered for various ship types

### ABB scope

- Generators
- Main switchboards, transformers
- Automation and controls
- Thruster motors
- Propulsion drives
- 2 x 20.5 MW Azipod propulsion units

### Customer benefits

- Reduced fuel consumption
- Environmentally friendly propulsion system
- Reliable solution, safe and maneuverable
- Easy noise and vibration management
- Freedom to optimize the ship interior and maximize payload

Driving progress on tracks



# Electrifying Mobility



# Motion – Drives: Next generation converter platform for regional trains

Significant increase in energy efficiency



## Application

New converter platform for electric multiple units, using the latest converter and control technology.

Built with next generation power semiconductors.

High power density traction solution

## Customer benefits

- Up to 25 % improvement of overall traction chain efficiency
- Compact and flexible design for various vehicle needs (roof, machine and underfloor mounting versions)



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# Motion – Drives: Converter replacement for locomotive Re 460

Improved reliability and availability for next 25 years

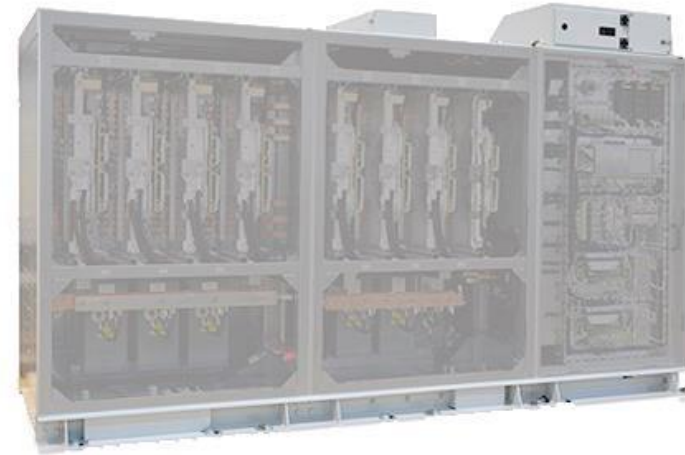
## Application

Replacement of GTO converters with state-of-the-art IGBT based ABB traction converters. Existing traction transformer and motors are retained. 101 locomotives to be retrofitted until 2021



## Customer benefits

- Significantly lower energy consumption
- Increase of train availability
- Easy maintenance
- Lower total cost of ownership



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# ABB Switzerland

Industrial Automation, Energy Industries – Local Site Turgi

# Industrial Automation – Energy Industries

Industry-leading solutions to propel the energy revolution

## Our business

### Offering

- Automation & electrification
- Vertical specific solutions
- Digital solutions and services

### Helping our customers

- Cut cost
- Minimize risk
- Improve operations

## Markets served

### Customer segments



Offshore



Onshore



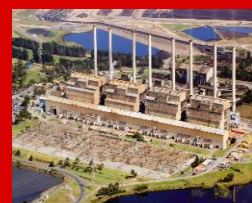
Midstream & transportation



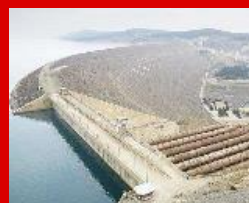
Refining & petrochemical



Chemicals



Conventional power



Renewables



Water



Specialty chemicals



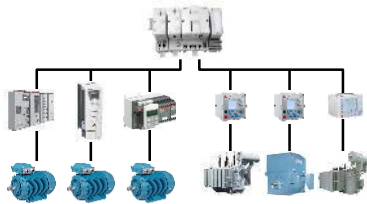
Primary pharma

# Industrial Automation – Energy Industries

## Automation Systems

### Distributed Control Systems

#### ABB Ability™ Symphony® Plus / System 800xA



#### Legacy products Service Engineered Solutions

#### Procontrol 13



#### Advant

ST20 Local Electrical Room



S100 I/O







PROTECTION  
ST 20  
STATION 06



GOVERNOR  
ST 20  
STATION 05

# Industrial Automation – Energy Industries

Excitation and synchronization products, systems and applications at a glance

INDUSTRIES			
Power; Chemical, Oil & Gas; Minerals & Mining; Metals	Power; Chemical, Oil & Gas; Pulp & Paper; Sugar	Power; Marine; Traction; Wind	Power
APPLICATIONS			
<ul style="list-style-type: none"> <li>Generator synchronization</li> <li>Paralleling of lines</li> </ul>	<ul style="list-style-type: none"> <li>Synchronous generators and motors</li> </ul>	<ul style="list-style-type: none"> <li>Synchronous generators and motors</li> <li>Rotating condensers and converters</li> </ul>	<ul style="list-style-type: none"> <li>Gas turbine starter</li> <li>Generator excitation</li> <li>Synchronous condensers</li> <li>Pumped storage</li> </ul>
SYNCHROACT	UNITROL 1000	UNITROL 6000	MEGATROL
 <ul style="list-style-type: none"> <li>SYNCHROACT® 6</li> </ul>	 <ul style="list-style-type: none"> <li>UNITROL® 1005</li> <li>UNITROL® 1010 (AVR)</li> <li>UNITROL® 1020 (AVR)</li> </ul>	 <ul style="list-style-type: none"> <li>UNITROL® 6000 Light</li> <li>UNITROL® 6000 Medium</li> <li>UNITROL® 6000 X-power</li> </ul>	 <ul style="list-style-type: none"> <li>MEGATROL® Light</li> <li>MEGATROL® Medium</li> <li>MEGATROL® Power</li> </ul>

# Global Center of Excellence

Turgi, Switzerland

- Research & development
- Project Engineering and Management
- Manufacturing and Testing
- After-Sales Service
- Sales and Marketing
- Commissioning
- Training
- 24/7/365 telephone technical support



- Excitation & control units
- Assembly 860m<sup>2</sup>
- Testing 640m<sup>2</sup>
- 120m long
- 2'500 h/Mt
- 10'000A DC
- Process oriented layout



[Watch the video](#)

**ABB**