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27 MAY 2021, BANGKOK, THAILAND

# Perspective from ABB Thailand

**“Think Resilience, Think Thailand: A Prime Business Location for Swiss Investors”**

Gianandrea Bruzzone - Country Managing Director & Head of Electrification



## Well positioned across global markets

**Employees**

~105,000

**Countries**

~100

**Revenues**

~\$26 bn

**Europe**

~\$9.6 bn

**Americas**

~\$7.9 bn

**AMEA**

~\$8.4 bn

ABB is a leading global technology company that energizes the transformation of society and industry to achieve a more productive, sustainable future.

By connecting software to its **electrification, motion, process automation and robotics & discrete automation** portfolio, ABB pushes the boundaries of technology to drive performance to new levels.

2020 figures

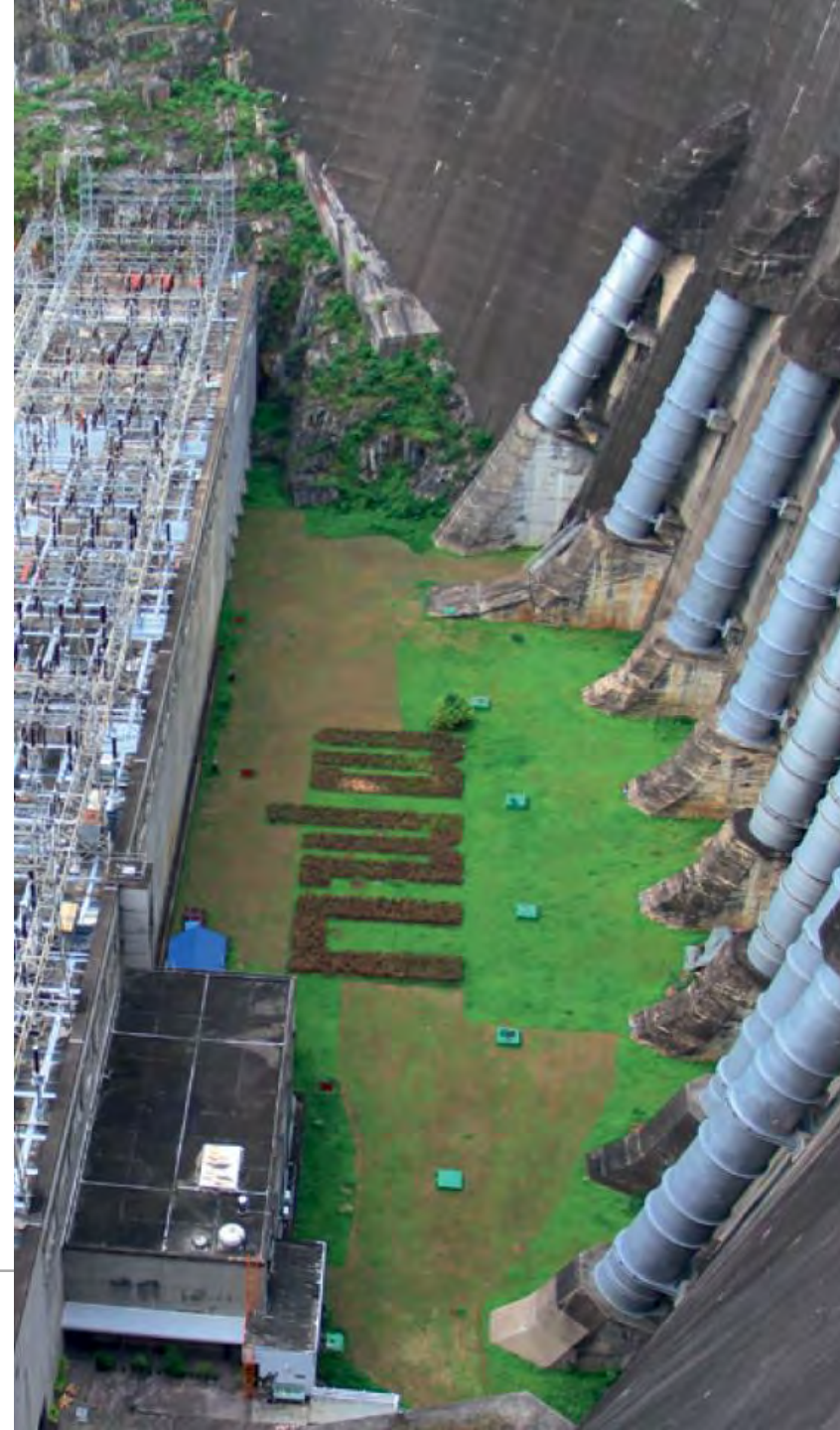
**ABB**

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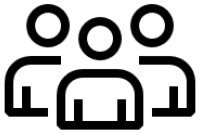
**ABB has been pushing  
the boundaries of  
technology for  
+130 years**

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Long history of continuing  
association with the  
development of Thailand's  
utility and industry sectors  
since 1978



# ABB in Thailand



>500

People work for ABB in TH



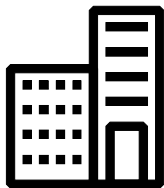
\$250 MUSD

Annual TH revenues



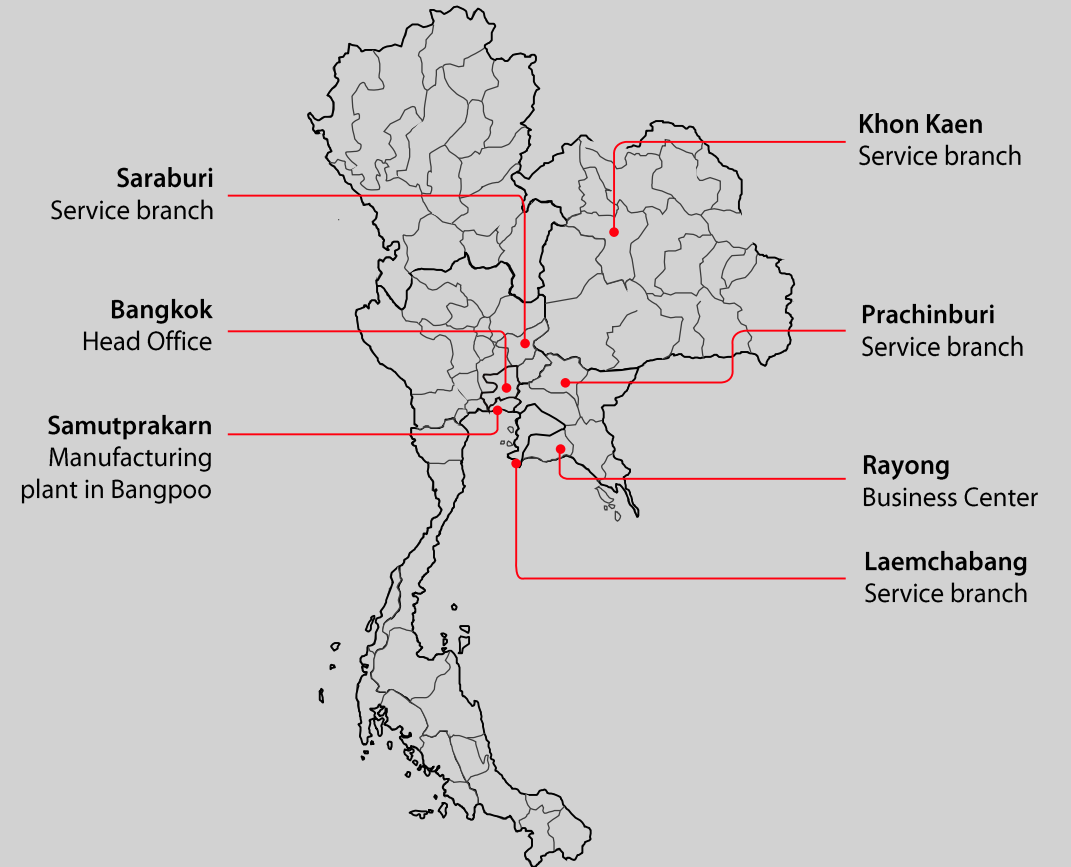
3

Oversight countries  
(Myanmar, Cambodia, Laos)



7

Office locations in TH



# Digital technologies are driving new innovation in industrial markets

Virtual / Augmented reality



Software-defined machines



AI and Machine learning



Time-sensitive networking



Big data



Inexpensive computing



Cloud computing



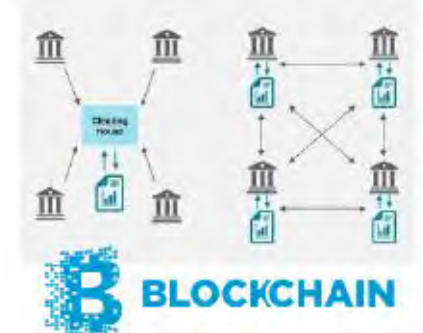
Cybersecurity



Connectivity



Blockchain



# Welcome to ABB Smart Societies



ABB helps societies to meet the growing demand for sustainable and reliable energy and water supply, transportation solutions, buildings and industries.

<https://abbsmartsocieties.com/>

# ABB and 5G application

## ABB Ability Remote Insights

### Opportunity



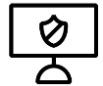
- Remote support and services through VDO Collaboration App.
- Multi cameras with connectivity reaching multiple site locations at the same time.

### Business Scope & Roles

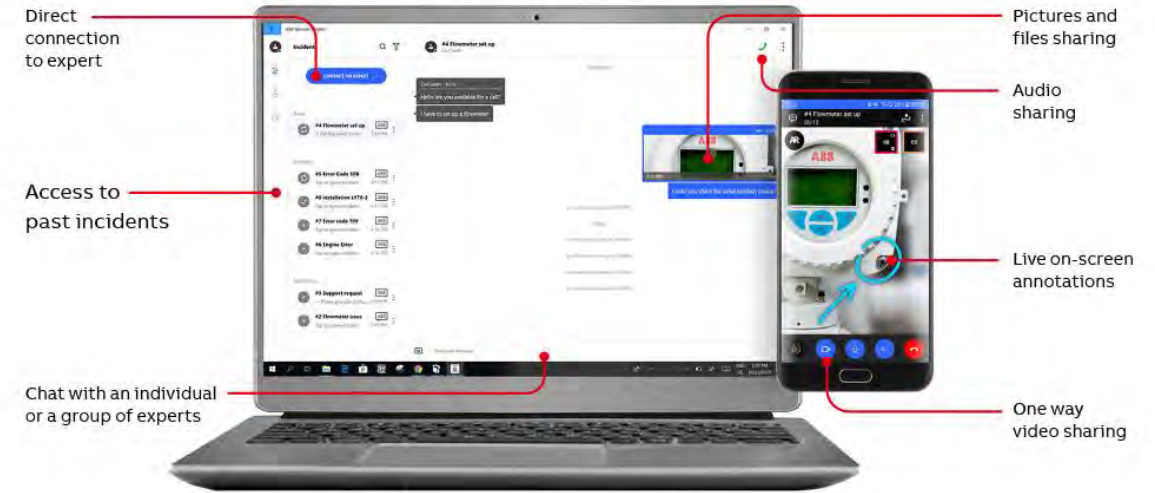


- **ABB:** Offering Service agreement with customers.
- **Ericsson:** Support on the 4G/5G coverage and data usage.

### Collaboration



- 5G coverage area to ensure stability of data communication.
- Ensure data cybersecurity together with Ericsson.



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# ABB robots help accelerate COVID-19 vaccine development in Thailand



## Challenge

Thailand's Mahidol University and the Institute of Molecular Biosciences needed a rapid and safe way of testing and handling various samples for vaccine development.

## Solution

An ABB YuMi cobot and IRB 1100, an industrial robot work together as part of the AI-Immunizer system to handle samples of virus as well as antibodies



## Application

The robots can perform tasks such as take samples by pipette, mix sample according to designed formulas and transporting them to test stations, performing repetitive actions that avoids risks to operators





# ABB's PCS100 UPS-I commissioned for AstraZeneca COVID-19 vaccine production in Thailand.

## Siam Bioscience's new vaccine manufacturing facility for Thailand and Southeast Asian countries



- ABB's PCS100 UPS-I to ensure operational efficiency and constant supply of high-quality power at Siam Bioscience's new manufacturing facility in Nonthaburi, Thailand.
- The new manufacturing facility is expected to produce 200 million doses per year for Thailand and Southeast Asian countries.



# ABB's fast charging solution to shape the future of e-mobility in Thailand

## PEA Volta EV charging station

- PEA joins hands with Bangchak Corporation to install 124 of ABB's Terra 54 fast chargers at 62 sites across Bangchak's petrol stations and PEA offices within 2021.
- EV stations located in 40 provinces across the country.
- ABB Terra 54 fast chargers can charge a vehicle's battery up to 80% of the average charging capacity of the electric vehicle within 15 to 30 minutes.
- The charger is compatible with all EVs currently on the market



**AABB**