



ABB Tech Talks Chile



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Panel 1

Minería, Pulpa & Papel, y otras industrias: El Futuro para los Procesos Industriales

09:00 – 09:55 hrs

Moderador

Javier Ruíz del Solar

Ingeniero civil eléctrico de la Universidad Técnica Federico Santa María, con postgrado en España y un doctorado en Alemania. Profesor e investigador de la Universidad de Chile



Javier Ruíz del Solar

Director Ejecutivo, Centro Avanzado de Tecnología para la Minería - AMTC, Chile

Panelistas



Pablo Figueroa C.
Local Division Mgr, Drive
Products, Motion, ABB



Cristian Aranda S.
Business Sales Mgr.,
Electrification, ABB



Iván Villegas M.
Latam Automation Mgr.
Process Automation, ABB



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—
Pablo Figueroa C.

Local Division Manager, Drive
Products, Motion Business,
ABB

→ <https://youtu.be/1R334M63T8M>

ABB Ability™ Condition Monitoring for powertrains

▶ ▶ 🔊 0:05 / 1:36



Efficiency

The world is going electric

45%
of the world's
electricity is
converted into
Motion by
electric motors



Electric motion plays
a significant role



Carbon reduction



Energy efficiency



Digitalization



Energy efficiency
is a must

~23% of the world's electric motors are controlled by drives

Demand for electric motion to double by 2040¹

Reliability

Secure, plug&play access to digital solutions



Discover ABB Drivetune app



Available on the
App Store

Download it now!



ANDROID APP ON
Google play

Download it now!



Our divisions deliver the most comprehensive product offering in its industry

Unique scaling from lowest to highest **power**

Differentiated by application specific **software**

Perfect match of motors and drives



From millions of standard units to few engineered-to-order

From <1kW to 10,000's of kW

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—
Cristian Aranda S.

**Business Sales Manager,
Electrification Business,
ABB**

Electrification market dynamics

**Next wave
of macroeconomic and
technological trends...**



Data demand, industry 4.0, 5G driving market growth
Electrical vehicles, renewables and storage driving growth
Urbanization and digitalization of electricity value chain

**...drive changes in
electrical energy
landscape...**



Convergence of data and electricity
Electricity demand growth 2x other energy sources
Complexity of distributed generation and consumption

**...and evolving customers
needs**



Shifting from products to solutions
Shift from CAPEX to OPEX
Customers research and purchase online (e-commerce)

Accelerating change and dynamic opportunities for the future

ABB Electrification – Digital Substation Products & Digital Systems

To what we contribute

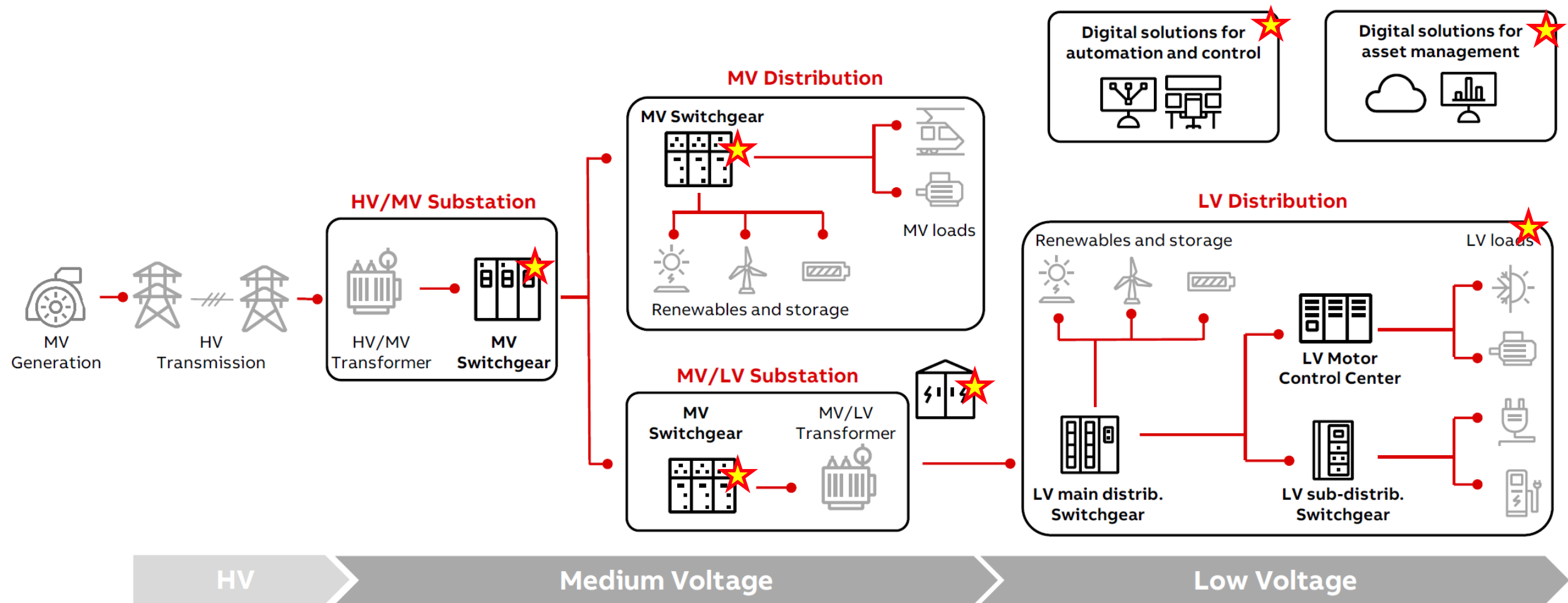
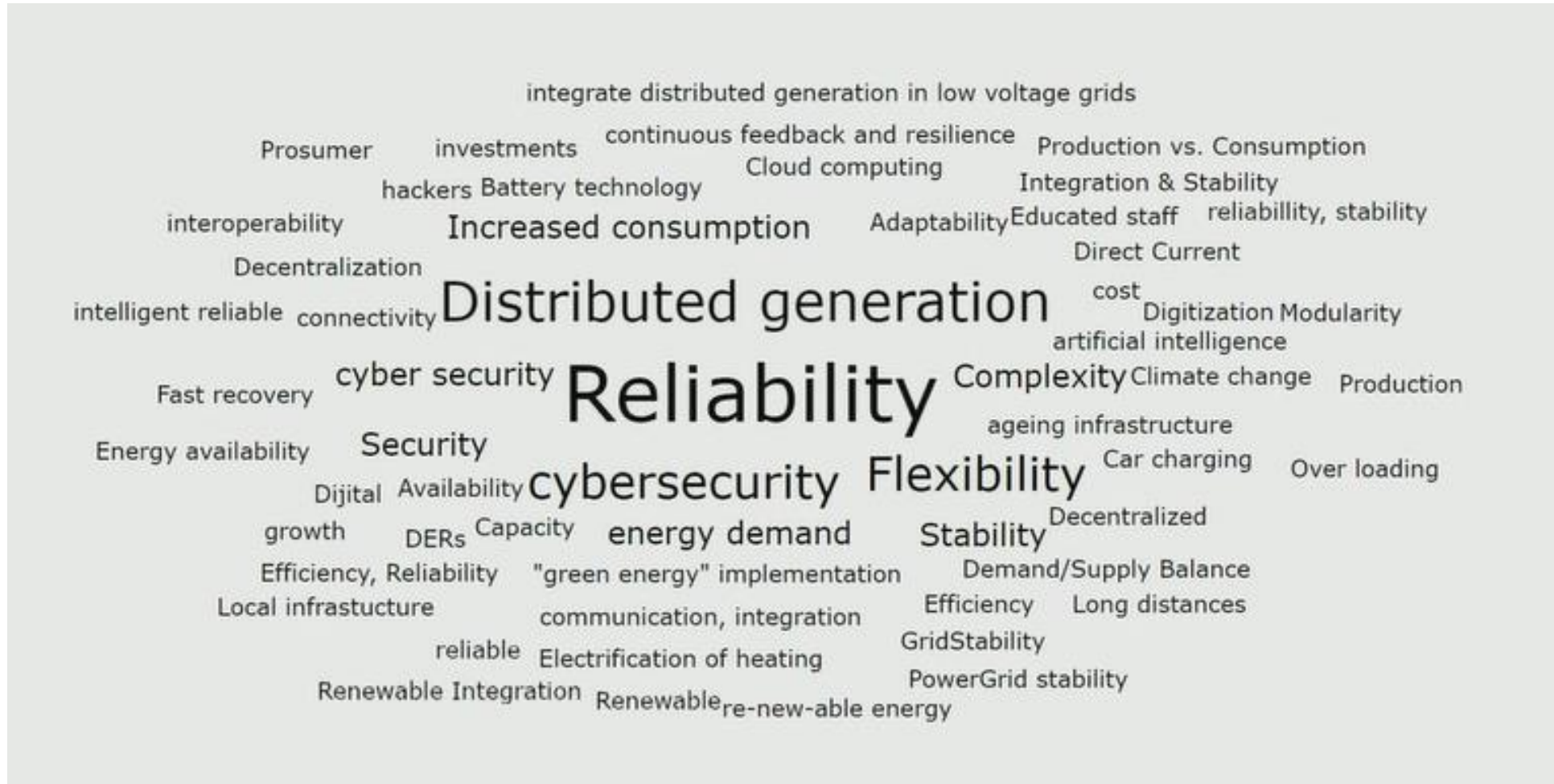


ABB Electrification – Digital Substation Products & Digital Systems

Future challenges in Power & Distribution Grids



Poll with 1500 participants during virtual 2021 events

ABB Electrification – Digital Substation Products & Digital Systems

How we see the future

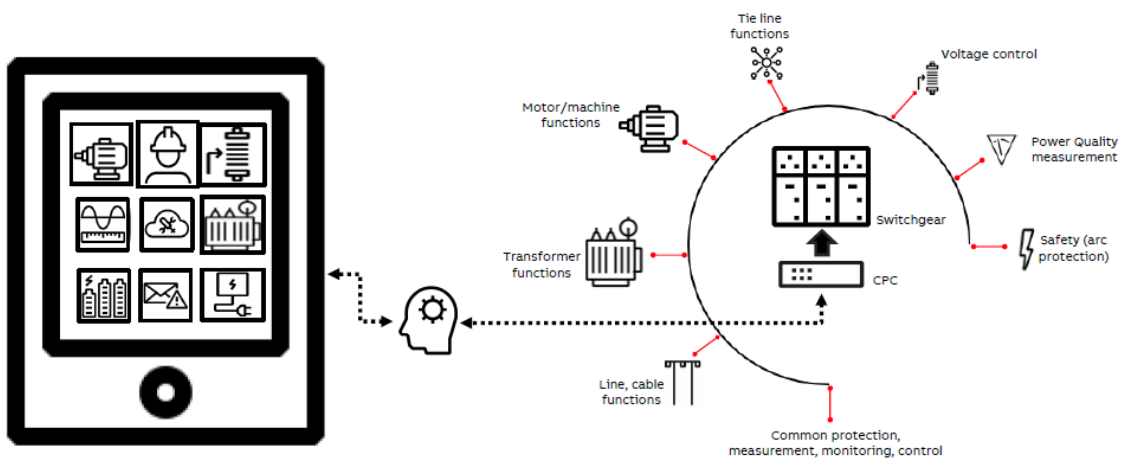


ABB Ability & Digital Proposal

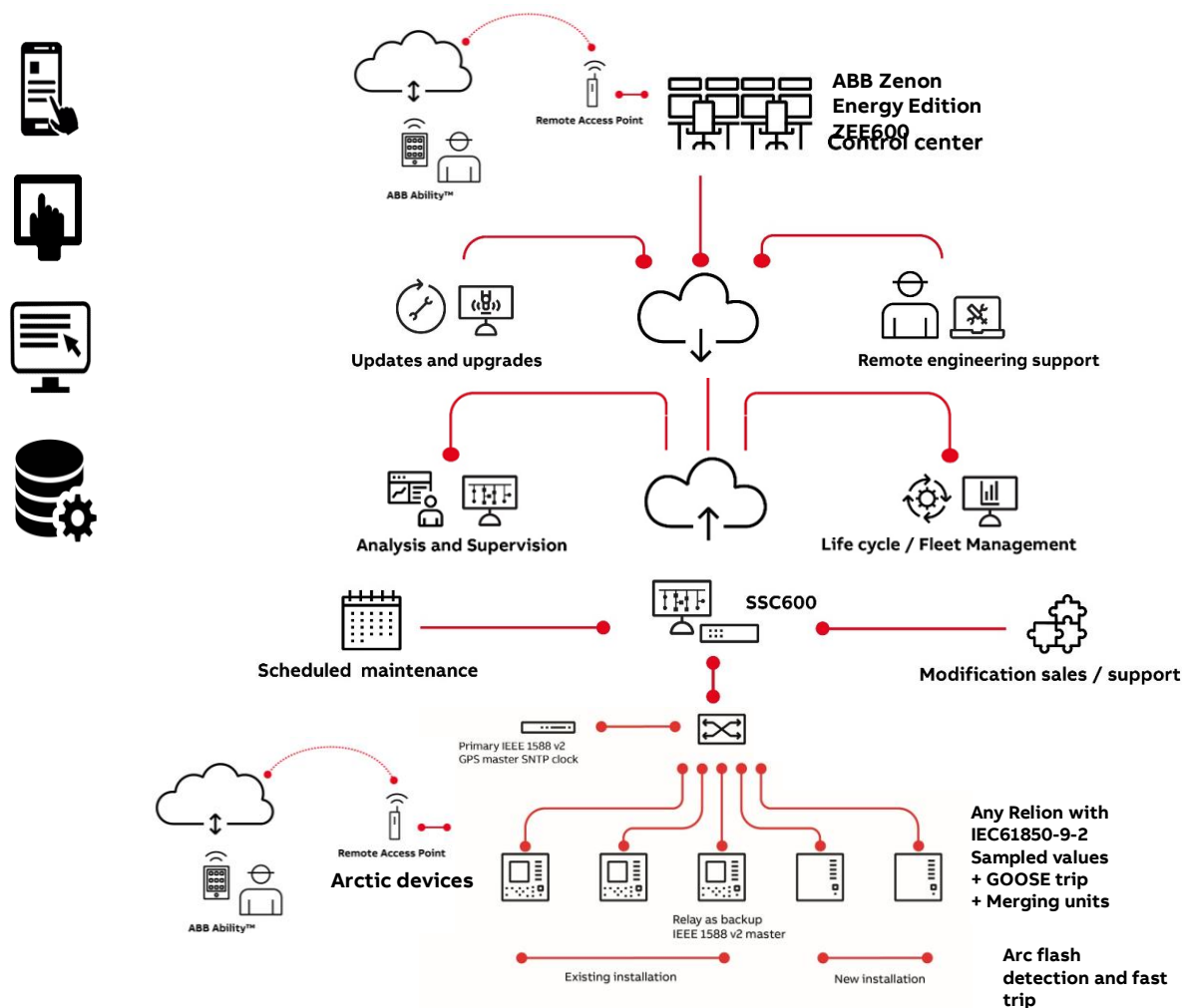
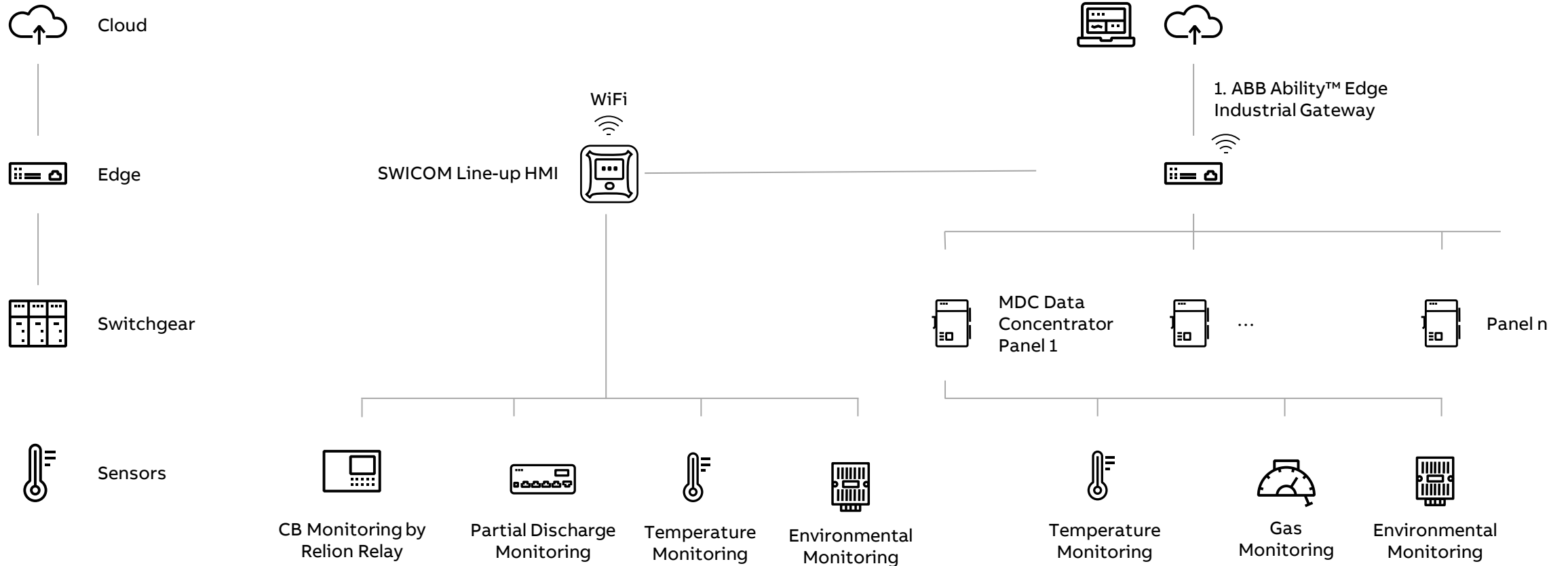
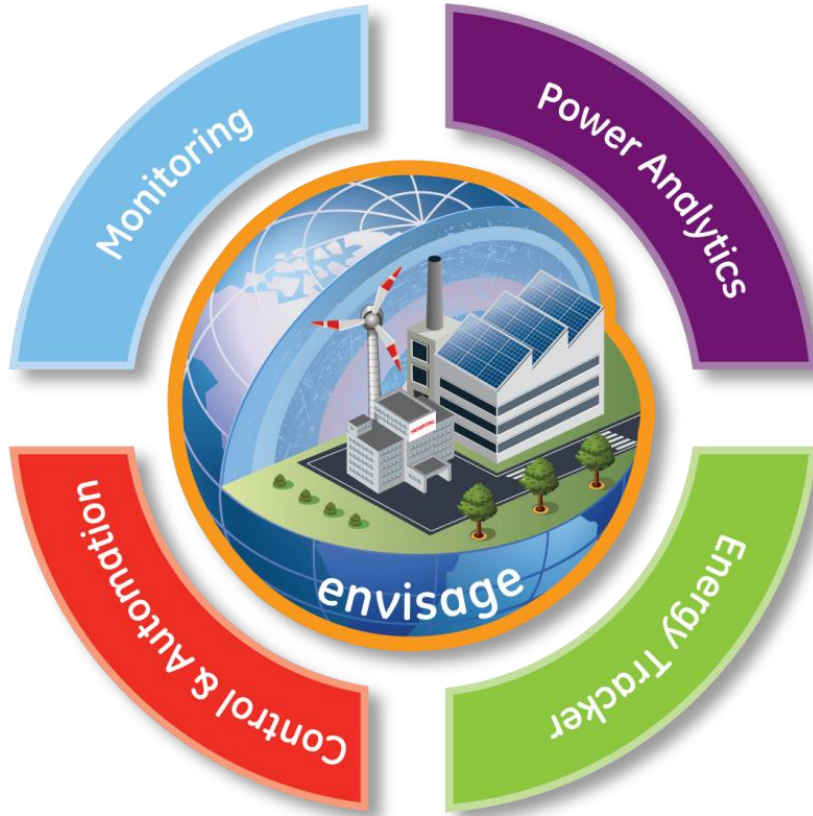


ABB Electrification – Monitoring & Diagnostics

Communication architecture



The Electrification Future in Industries and Power & Distribution Grid



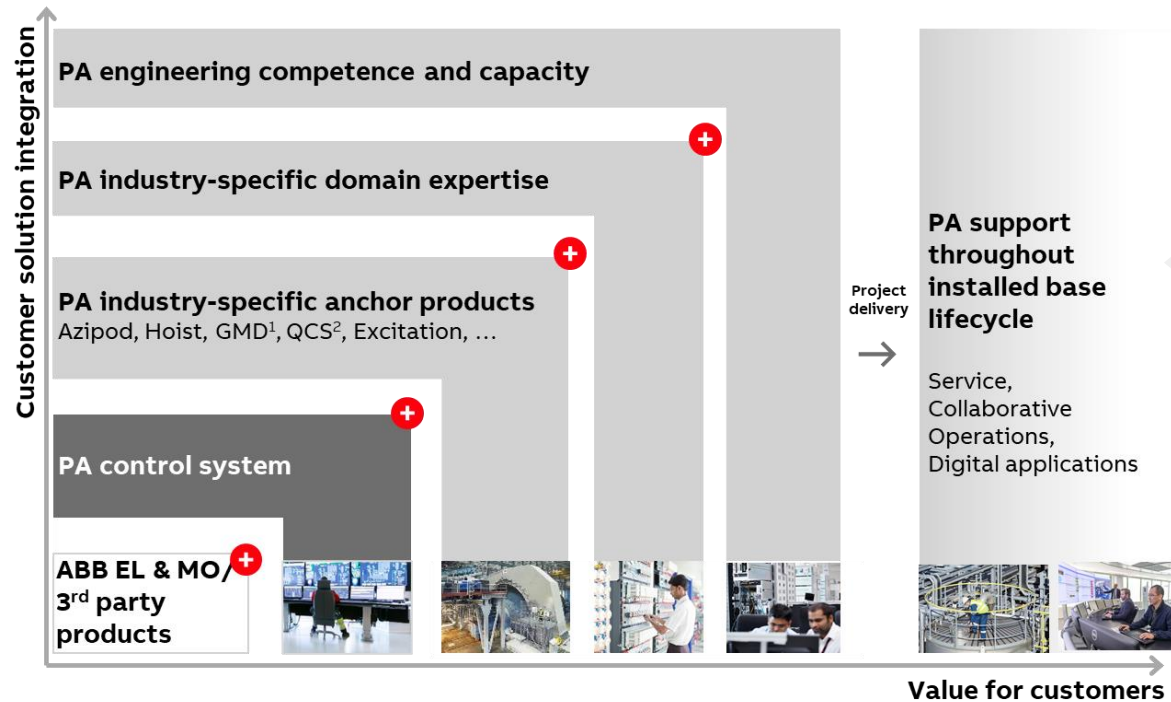
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—
Iván Villegas M.

Latam Automation Manager,
Process Industries Division,
Process Automation Business,
ABB

We integrate products, systems and services for end-to-end asset lifecycle value creation in process



Safety



Productivity



Sustainability



Digitalization

—
Renewable energy relies
on mining

→ https://youtu.be/5h_PpLmyaG0

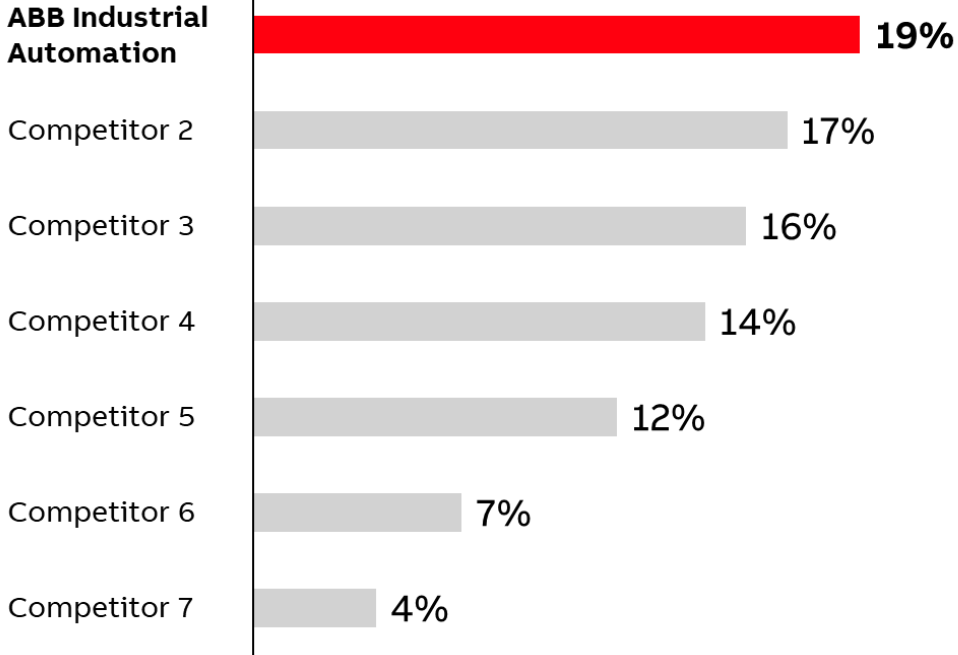


La minería es fundamental para un futuro sostenible.

Leading in control systems

Global distributed control system (DCS) sector share

DCS share (%)



Change vs 2008



1

Evolution without
obsolescence

2

Scale with industry-
specific offering

3

DCS at the core of
digital offerings

A close-up photograph of a complex mechanical assembly made of polished gold. The image shows several interlocking gears of different sizes, a coiled spring, and various shafts. The lighting is warm, highlighting the metallic sheen and intricate details of the machinery. The background is softly blurred, focusing attention on the foreground components.

→ <https://youtu.be/hMnmi1iAF7U>

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Today, gold is one of the most highly desired and useful metals in the world.

Hoy, el oro es uno de los metales más deseados y útiles del mundo.

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