

The ABB logo is positioned in the top right corner of the image. It consists of the letters 'ABB' in a bold, red, sans-serif font. The background of the entire image is a collage of four panels: a dam with water cascading over its spillways (top left), four wind turbines against a clear blue sky (top right), an aerial view of four large circular green water treatment tanks (middle right), and a silhouette of a wind farm at sunset with a grid overlay (bottom half).

ABB Ability™ Symphony® Plus SCADA

Optimal orchestration for your
geographically distributed systems.

—
To be an effective music conductor, you need complete visibility of your orchestra.

Being an effective operations leader is no different. You need a clear view of your geographically dispersed systems from one place.

Introducing ABB Ability™ Symphony® Plus SCADA. Optimal orchestration for your geographically distributed systems.

— **The seven challenges in SCADA automation**

Supervisory control and data acquisition (SCADA) systems are critical in helping industrial organizations maintain efficiency, process data for smarter decisions, and mitigate downtime through better communication. This requires automation.

The key to automating SCADA systems is to address the following:

1

Organizations must monitor and operate large, geographically distributed systems.

2

Monitoring all assets and equipment requires a unified operations center.

3

Minimizing total cost of ownership is a major concern.

4

Maintaining physical security and cybersecurity are increasingly difficult.

5

SCADA systems must integrate with legacy and newer business systems.

6

Organizations are under increasing pressure to optimize their capex investments.

7

Growth is the goal. But cost-effectively adapting to growth is the challenge.

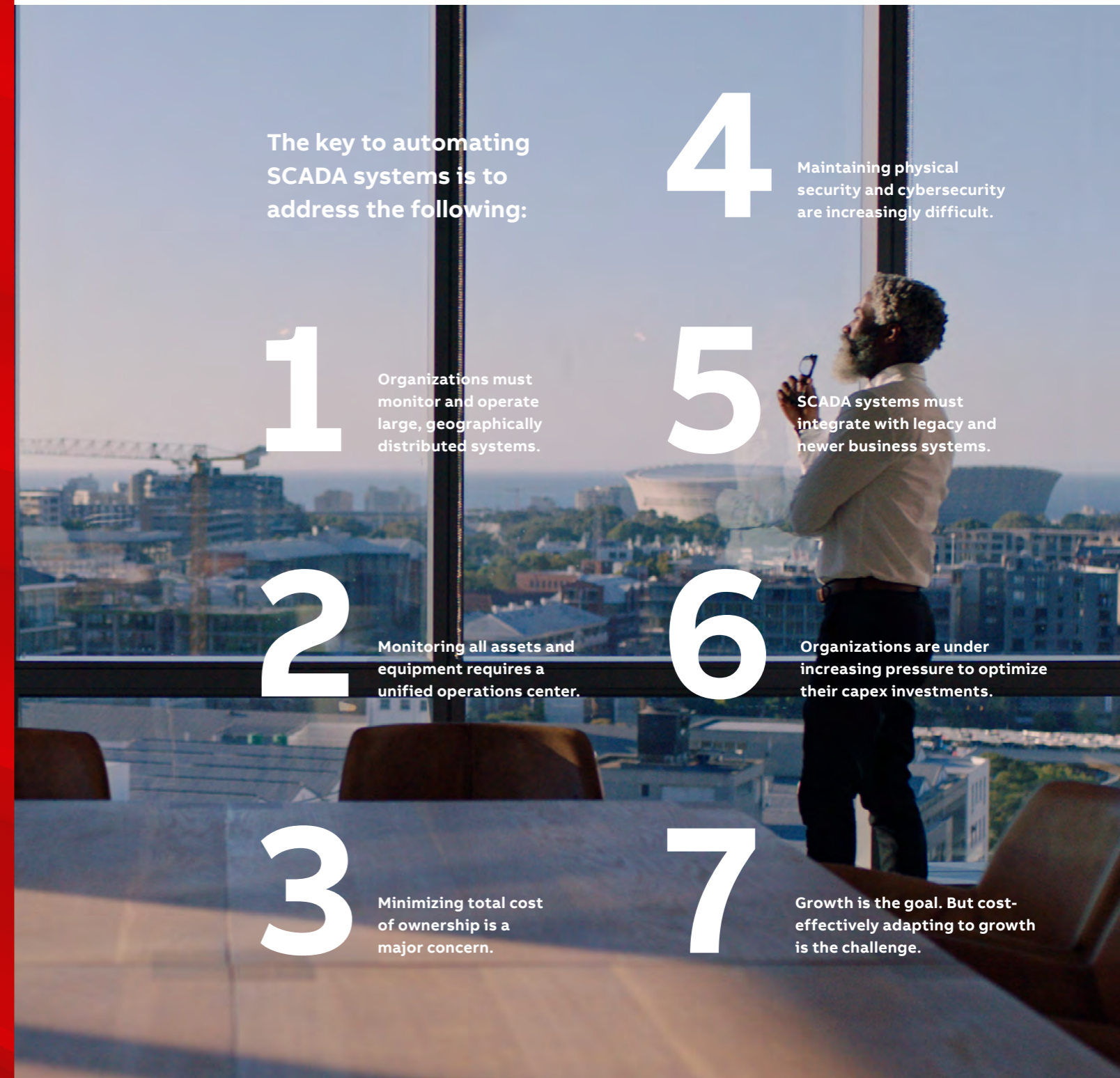


ABB Ability™ Symphony® Plus SCADA

ABB Ability™ Symphony® Plus SCADA delivers optimal orchestration for geographically distributed systems.

ABB Ability™ Symphony® Plus SCADA is an **open, flexible and scalable solution** that serves as a reliable and secure platform for all SCADA applications. You need an efficient way to supervise operations, collect and analyze data, and generate reports.



Openness, flexibility and scalability



Visual awareness



Remote operations



Efficient engineering



Digital innovation

Openness, flexibility and scalability

To be effective, SCADA systems must integrate with existing business and operational systems. They must scale easily and cost-effectively, and be flexible enough to work in a variety of settings, assets and processes.

ABB Ability™ Symphony® Plus SCADA features an **open architecture to support complete** integration of remote sites, PLCs, controllers, electrical systems and intelligent devices. This architecture optimizes management of geographically distributed sites.



Reliable, secure systems help minimize total cost of ownership.



Open architecture
Supports complete and seamless integration of remote sites, PLCs, controllers, electrical systems and intelligent devices



Flexible and scalable
System architecture supports single-node (small), large, multisystem and distributed configurations cost-effectively



Secure and reliable
Delivers a secure and reliable communication and control environment for managing geographically distributed systems



High availability
Delivers high availability for increased uptime, thereby improving process reliability and reducing risk

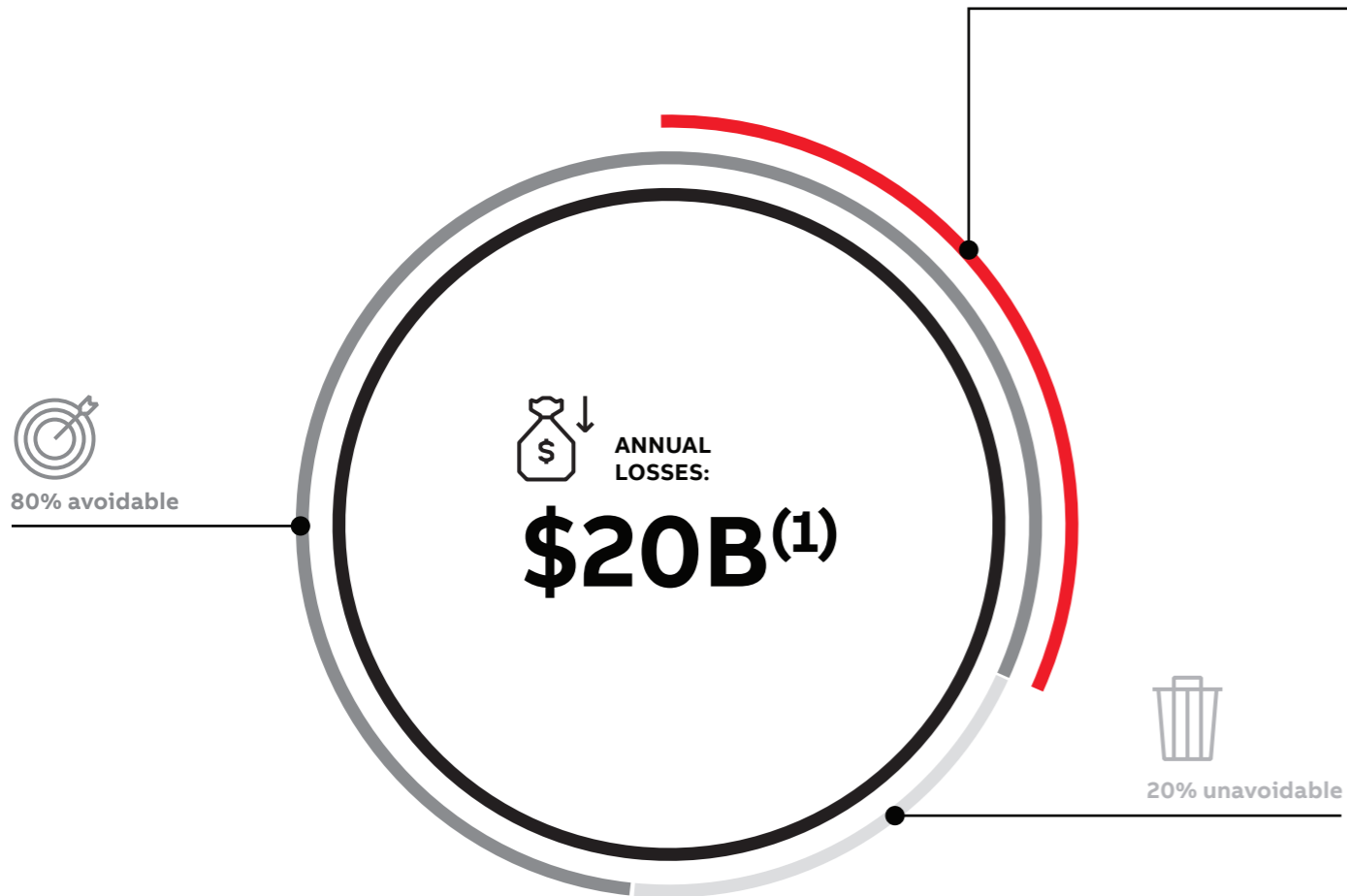
Visual awareness

What you can't see, you can't manage. Without a clear view of all your systems, you lack the awareness to respond quickly to abnormal situations.

ABB Ability™ Symphony® Plus SCADA is a secure and intuitive human-machine interface (HMI) with easy navigation. The high-performance HMI and custom workplaces increase efficiency and reduce human errors.

Annual losses in process industry

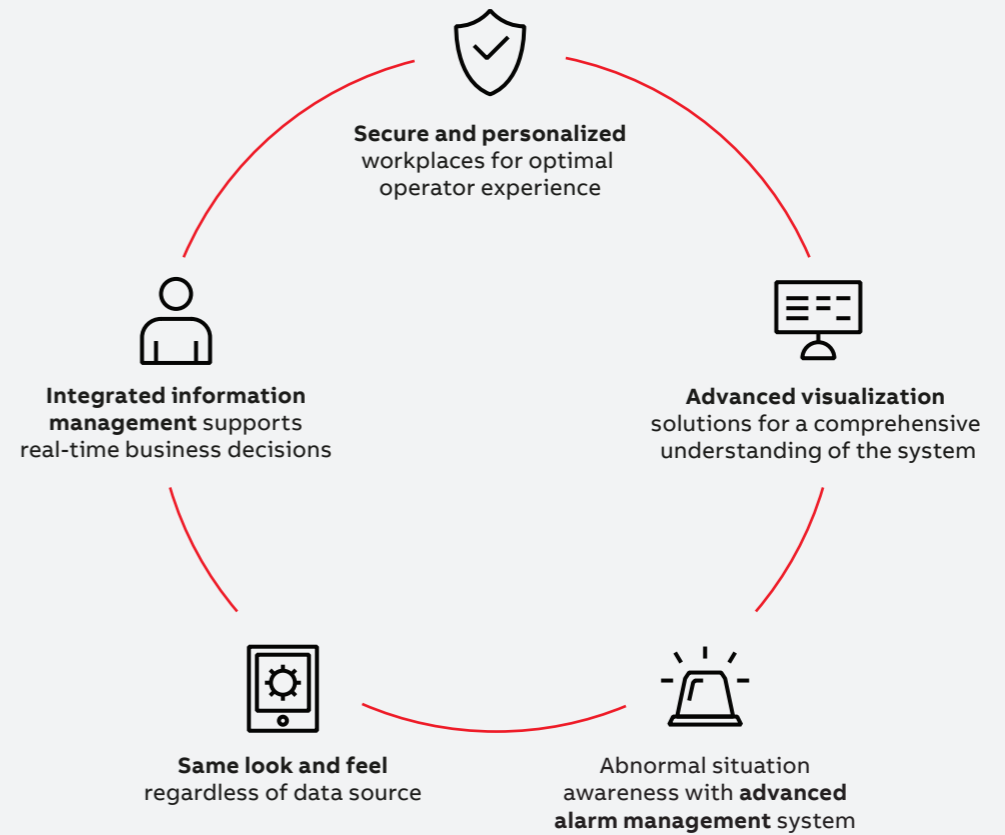
32% OPERATOR ERROR:
\$6.4B



(1) Atkinson T., Hollender, M.: „Operator Effectiveness, Collaborative Process Automation Systems



Minimize unscheduled shutdowns and meet health, safety and environmental requirements with our HMI.



Remote operations

ABB Ability™ Symphony® Plus SCADA delivers native central control room and remote management solutions for cost-effective supervision and control of geographically distributed systems.



Easy management
Supervisory control for easy remote site management

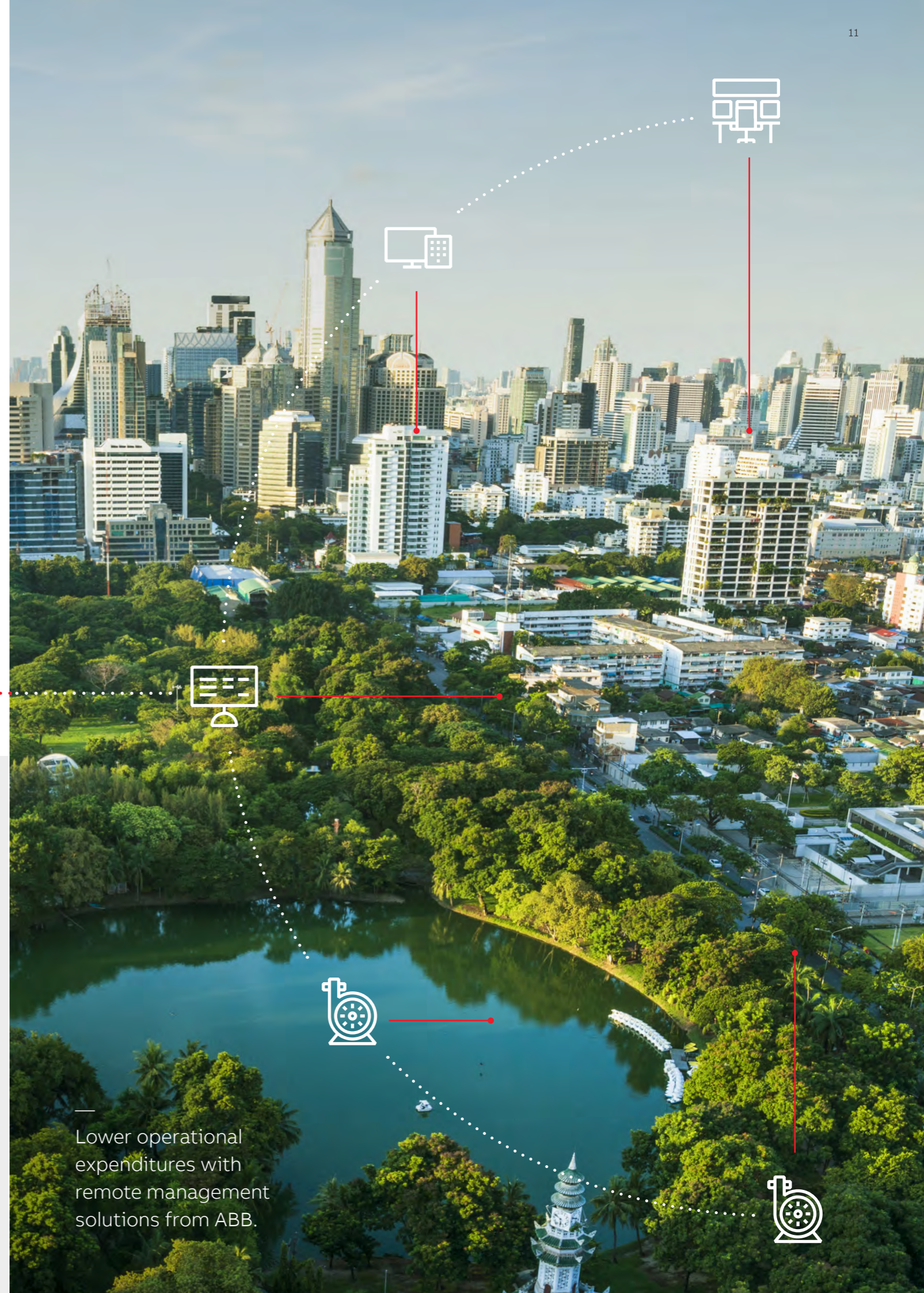
Intuitive navigation
Intuitive GIS navigation for more effective operations

Any device
Remote operations from any device at any time

Native management
Native remote command and control management

Remote notifications
Remote notifications of system alarms through SMS & email

User control
User privileges elevation when required



Lower operational expenditures with remote management solutions from ABB.

Efficient engineering

Managing geographically distributed systems requires efficient engineering. Duplicated effort, redundant processes and wasted resources must be eliminated. Efficiency is paramount.

ABB Ability™ Symphony® Plus SCADA allows engineers to define their own objects and properties for SCADA signals. Every real object has a digital twin as a virtual object created within the system. Relevant signals and data are contained in the engineered object.



You engineer and commission projects in less time – and more efficiently.

ABB Ability™ Symphony® Plus SCADA offers object-oriented engineering so you easily contextualize data into useful information. Simple system engineering means efficient project deployment.

You generate remote operational graphics with no additional labor. Tailored solutions deliver a substantial reduction in engineering and configuration effort and cost.



OPTIMAL ORCHESTRATION FOR YOUR GEOGRAPHICALLY DISTRIBUTED SYSTEMS.

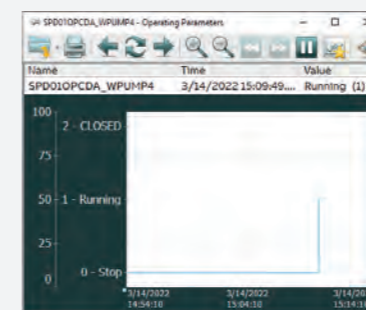


signal

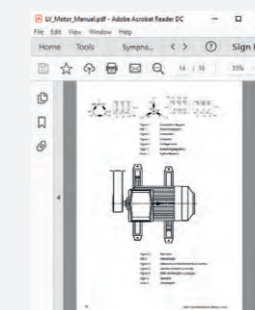
data



PUMP



SPD01OPCDA_WPUMP4
Water Tower Pump
Alarm: HIGH TEMPERATURE
Status: RUN
Ready: OK
Runtime - hours: 7945
START STOP



Digital innovation

A key challenge is staying ahead of competitors. In an era of digital transformation that means improving operational performance with advanced technologies.

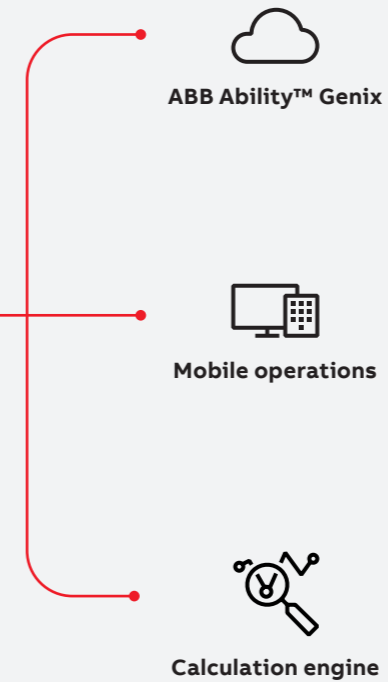
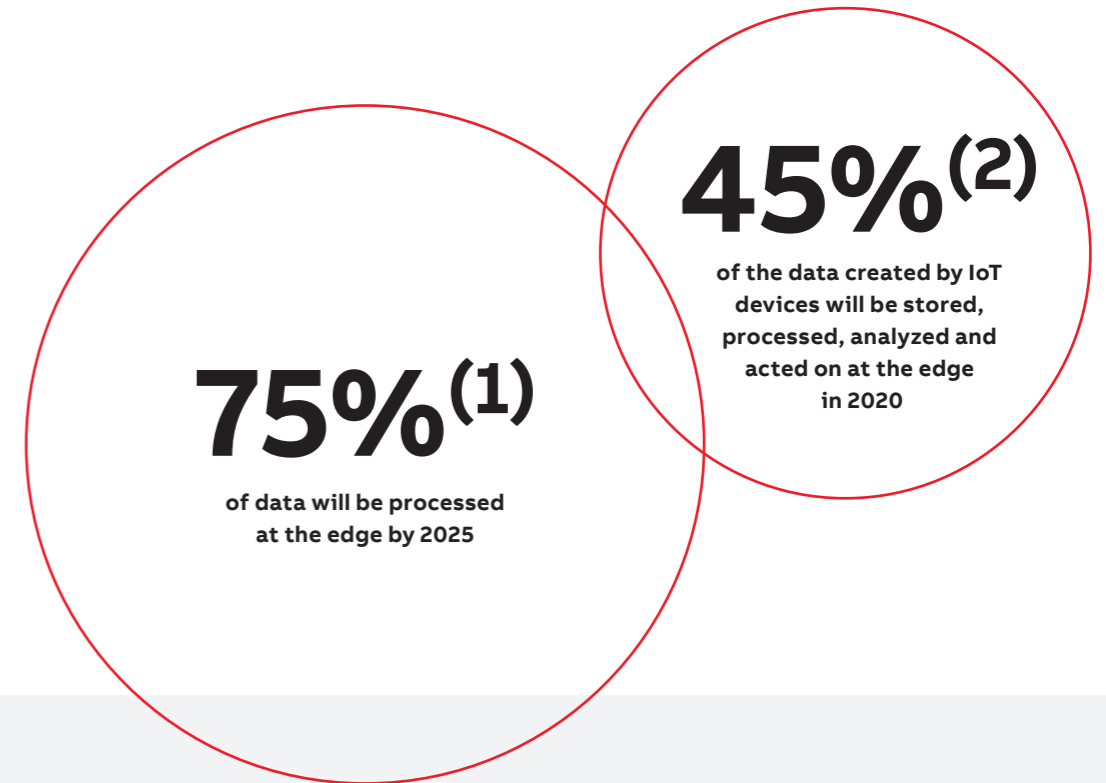
ABB Ability™ Symphony® Plus SCADA facilitates innovation with speed through edge and cloud integrated solutions. ABB supports your global footprint of installed systems throughout their lifecycle.




ABB Ability™ Genix, together with ABB Ability™ Symphony® Plus SCADA, enables digital transformation. You gain access to a comprehensive app ecosystem with AI/ML models. You protect your investment with ABB as a supplier and improve operational performance through innovation.

(1) Gartner
(2) IDC

State of data utilization



Benefits



**ABB Ability™
Symphony® Plus
SCADA**

Enables centralized,
consolidated facility operations

Gives you one point
for vertical integration

Minimizes total cost of ownership
through cost-effective deployment

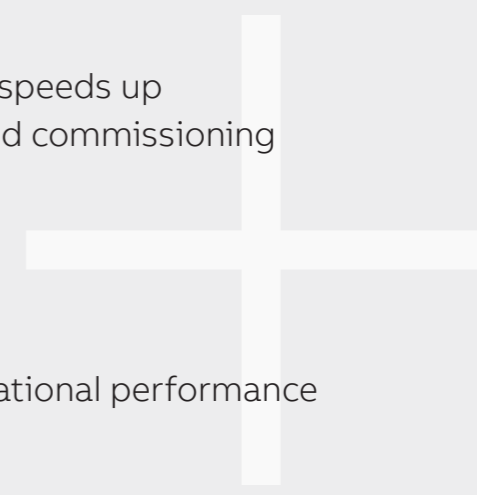
Decreases unscheduled shutdowns

Reduces operational
expenditures with various
remote management solutions

Simplifies and speeds up
engineering and commissioning
of projects

Improves operational performance

Optimizes troubleshooting with
consolidated alarm and event lists



Why ABB



Experience

- As a leading automation provider, ABB is uniquely qualified to provide proven SCADA solutions.
- ABB Ability™ Symphony Plus includes over 7,500 installations in operation all over the world, with more than 5,000 energy applications.



Knowledge

- ABB has delivered and served SCADA solutions for the water and power market for more than 40 years.
- Symphony Plus SCADA includes an integrated suite of products for engineering and operations, covering all the components of the automation system, including third-party devices as PLCs and RTUs.



Cyber security

- ABB's comprehensive approach to cyber security addresses both customer needs and internal development processes.
- Symphony Plus SCADA has a reliable operations environment with built-in security based on IEC 62351-8 security standard.



Service

- ABB services – from spare parts, repair, training, technical support, Advanced Digital Services, to upgrades and evolution – help improve productivity, minimize energy consumption, prolong asset operating life and minimize the cost of ownership.
- Our global reach brings world-class capabilities to your locality to ensure successful outcomes.



Lifecycle

- 'With advancements in technologies, we ensure to adopt these into our products without affecting performance and reliability, allowing customers to further enhance their investments throughout the lifecycle.
- ABB's evolution without obsolescence policy always protects customers' financial and intellectual investments through the stepwise evolution and upgrading of electrical, control and instrumentation systems.



[solutions.abb/](https://solutions.abb.com)
[symphonyplusscada](https://symphonyplusscada.com)

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