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The future of buildings

Autonomous, sustainable, profitable

Rahul Chillar I Executive Vice President, Software, Siemens Smart Infrastructure Buildings

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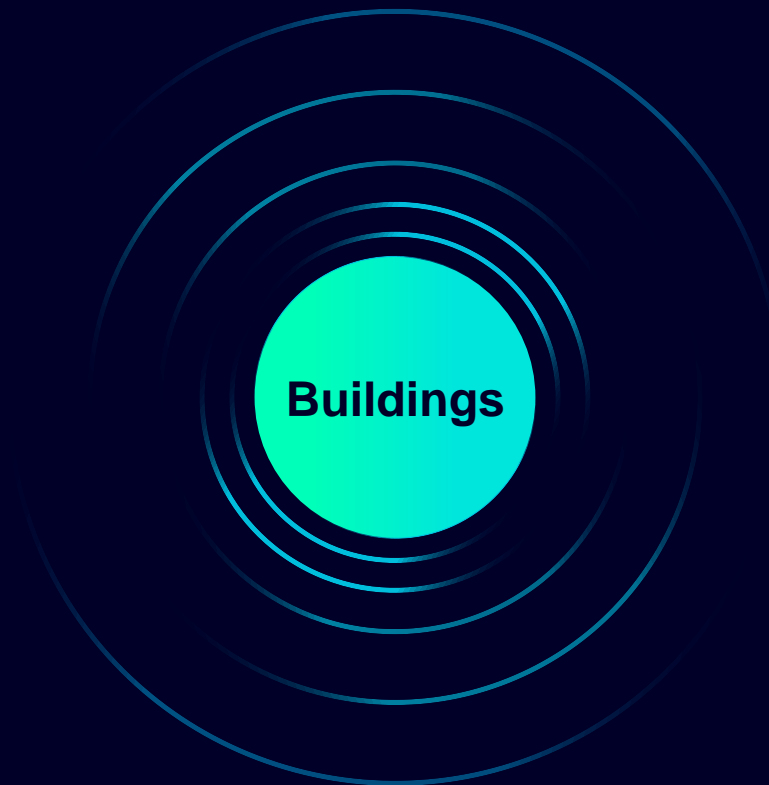
The challenge

Demographics

9.7 bn

people will populate
our planet by 2050.[1]

Sustainability

~40%

of annual global CO_2 emissions
are attributed to buildings,
incl. operational emissions
alone accounting for **28%**.[4]

Buildings

Urbanization

68%

of the world population
projected to live in urban
areas by 2050.[2]

People

90%

of lifetime spent
in buildings.[1]

Cost pressure

80%

of total lifecycle costs
of a building occur in
the operation phase.[3]

1 United Nations | **2** Alliance To Save Energy (ASE) | **3** Building Radar | **4** Green Building Council

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Buildings of the future

Autonomous » **Sustainable** » **Profitable**

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"

At the intersection of the real and digital worlds, we are accelerating the transformation of buildings – empowering our customers with **software and data-driven services** that redefine efficiency, sustainability, and innovation across every vertical we serve.
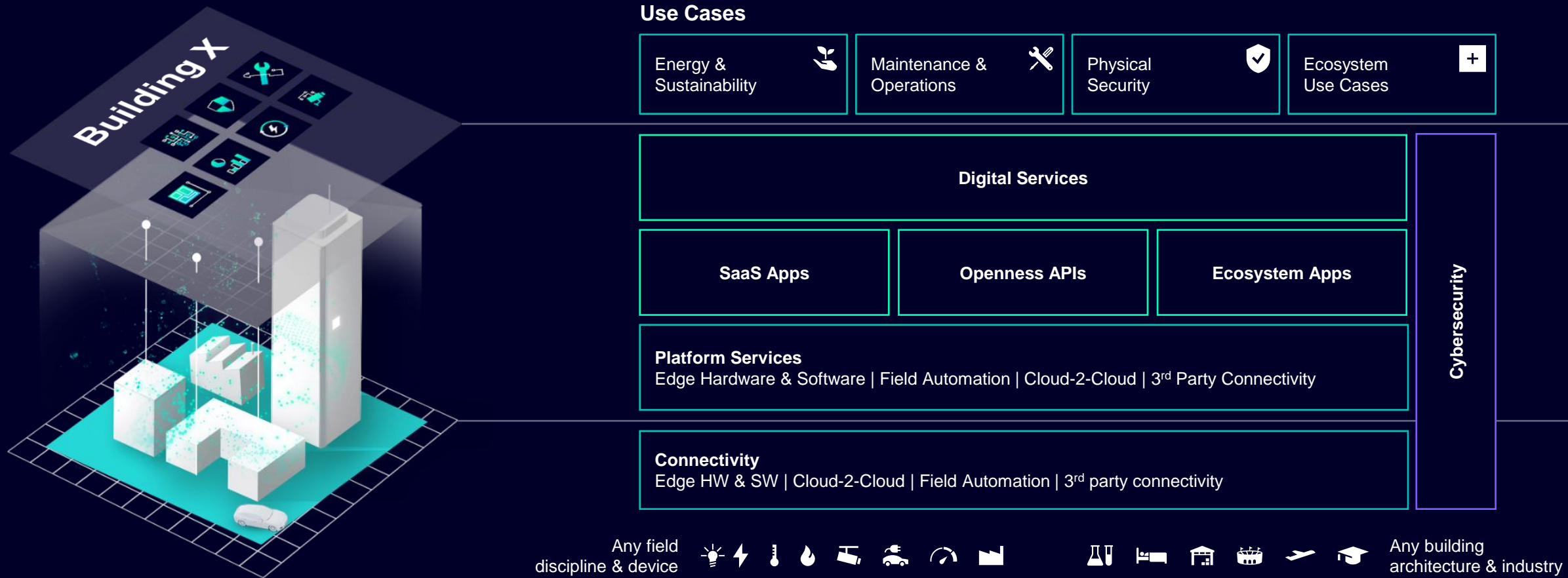
Susanne Seitz

CEO Buildings Smart Infrastructure

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The foundation for **autonomous buildings**

Building X
Autonomous
Sustainable
Profitable

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A digital building platform that digitalizes, manages, and optimizes building operations

Building X

Use Cases

Energy & Sustainability 🌱	Maintenance & Operations 🛠	Physical Security 🛡	Ecosystem Use Cases +

Digital Services

SaaS Apps	Openness APIs	Ecosystem Apps

Platform Services
Edge Hardware & Software | Field Automation | Cloud-2-Cloud | 3rd Party Connectivity

Connectivity
Edge HW & SW | Cloud-2-Cloud | Field Automation | 3rd party connectivity

Cybersecurity

Any field discipline & device

Any building architecture & industry

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Crawl

Walk

Run

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Crawl

Portfolio monitoring and reporting
Analyze performance, track decarbonization targets, audit-proof reporting

Sustainability Manager

Walk

Energy efficiency monitoring and analysis
Energy KPI monitoring, forecasting and anomaly detection

Energy Manager

Run

Autonomous optimization
Launch AI-driven continuous improvements
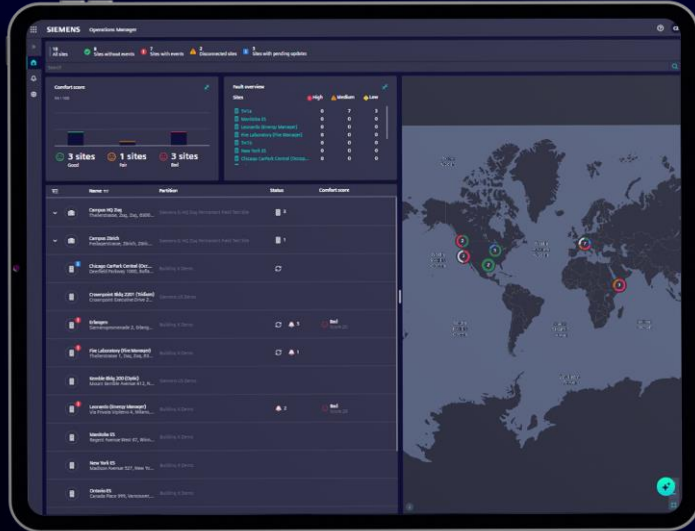

Comfort AI

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Crawl

Operational awareness
Gain visibility into key KPIs with prioritized alarm and event monitoring across sites.

Walk

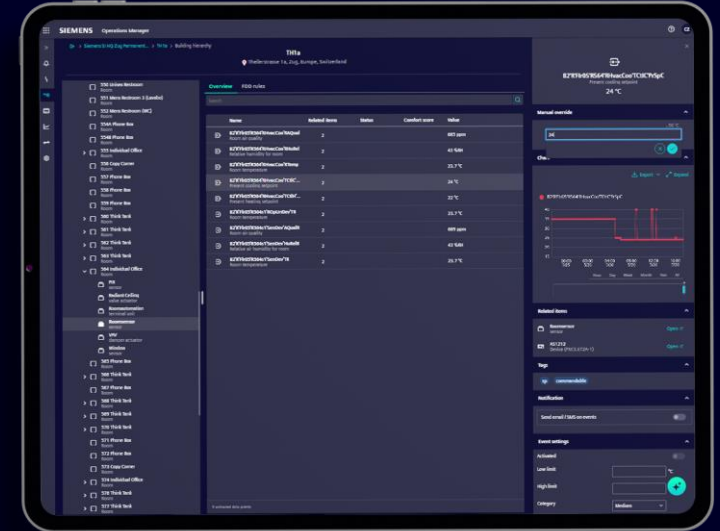**Intelligent diagnostics** Leverage fault detection and diagnostics to accelerate root cause analysis and reduce downtime.

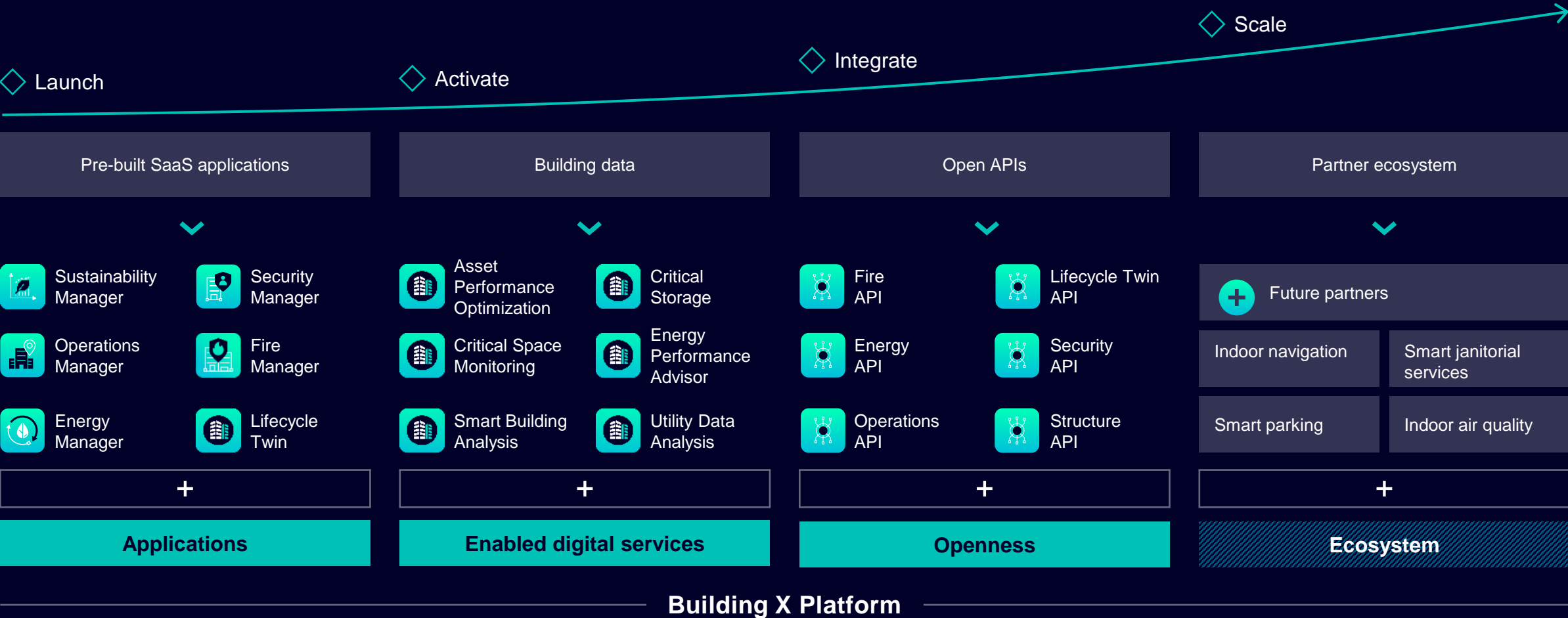
Run

Accelerated resolution
Automate work order creation and remotely command equipment to solve issues faster.

Operations Manager

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Empowering our customers and scaling impact
Paving the path towards autonomous buildings

◇ Scale

◇ Integrate

◇ Activate

◇ Launch

Pre-built SaaS applications	Building data	Open APIs	Partner ecosystem
⌄	⌄	⌄	⌄

Pre-built SaaS applications
- Sustainability Manager
- Security Manager
- Operations Manager
- Fire Manager
- Energy Manager
- Lifecycle Twin

+

Building data
- Asset Performance Optimization
- Critical Storage
- Critical Space Monitoring
- Energy Performance Advisor
- Smart Building Analysis
- Utility Data Analysis

+

Open APIs
- Fire API
- Lifecycle Twin API
- Energy API
- Security API
- Operations API
- Structure API

+

Partner ecosystem
- Future partners
- Indoor navigation
- Smart janitorial services
- Smart parking
- Indoor air quality

+

Applications	**Enabled digital services**	**Openness**	**Ecosystem**

Building X Platform

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Seeing is believing
Building X live-demonstration

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Thank you!

Rahul Chillar
Executive Vice President, Software, Siemens Smart Infrastructure Buildings

Scan for
digital press kit

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