

# Building X

AI-driven building analytics for  
unmatched safety and operational  
excellence



# Building X Fire Apps, the answer to your Fire Safety needs



How can I be sure that **everything** is under control?

Facility manager



How can I **be more efficient?**

Solution & service provider



How can I **enhance safety?**

Building owner

## Reference: Care Center Vivium (NL): Home is where it's safe

### Advantages for building owner Vivium

Vivium is a renowned care specialist with 16 care centers in the southern region of Amsterdam alone. Seven of its thirteen centers near the Dutch capital are now connected to the cloud-enabled Building X Fire Manager.

Fire Manager provides real-time monitoring of fire hazards. It sends immediate push messages to service technicians and facility managers, allowing faster response times and more effective evacuation procedures.



[Click here to learn more](#)

# Our solution

## Building X Fire Apps



24/7 secured visibility  
of your connected sites



Remotely access  
your site to fix issues



Efficient maintenance  
planning, execution  
and reporting

# Building X Fire Apps Benefits

## SERVICE PROVIDER



Service more customers with the same number of employees



Save up traveling time by avoiding multiple site visits



Save on-site trips by having the information on hand



Faster maintenance testing using the Fire Connect mobile app



## END CUSTOMER



Live overview of fire protection systems



Quick response to incidents



Instant notification of incidents



Ensured business continuity



# Innovations in Fire safety

Reducing false alarms and limiting physical touchpoints to a minimum



## ASAt echnology

- Fire detectors with application specific parameter sets and **Advanced Signal Analysis (ASA)**
- Distinguish between **real fires** and deceptive phenomena
- **False alarms** costs building owners thousands of dollars each year



## DFT echnology

- Perform **automatic daily tests** (sounders, beacons and electric circuits) without disturbing building occupants
- Silent load test verifies if system expansions are feasible and **detects faults on the loop**
- Testing can run **24/7** without affecting system uptime

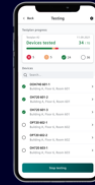
## Building X Fire Apps



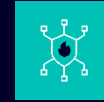
Fire Install



Fire Manager



Fire Connect



Fire API

## User Level

## Platform Level

Account Service. | Device Services.  
Data Set-up | Analytics/Rules

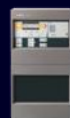
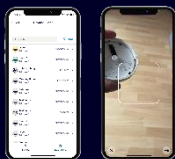
# Building X

## Connectivity level

X200/X300

## Field Level

Installation & commissioning



## System & Field Level

Operations and maintenance

# Building X

## A platform to build on

USE CASES

<b>Sustainability</b> Energy & Water Monitoring & Reporting Energy Optimization Carbon footprint engagement	<b>Maintenance &amp; Operations</b> HVAC system Alarms & Operation Fault Detection and Diagnosis	<b>Productivity</b> Building Access Visitor Experience	<b>Health &amp; Wellbeing</b> Air Quality Well-being optimization	<b>Safety &amp; Security</b> Building Security & Utilization Fire system Monitoring	More... 
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Building X Platform

<b>Applications</b> Energy Manager Sustainability Manager Operations Manager Comfort AI 360° Viewer Data Visualizer <b>Fire Manager</b> Security Manager Mobile Apps 	<b>Openness</b> Energy API Operations API Security API Structure API Fire API 	<b>Ecosystem</b> ASD+ Smart Automation Climatix IC Partner applications 		
Data Onboarding	Machine Learning and Rule Analytics	Data Storage	Device and Edge Management	Account Management
<b>Connectivity</b>				
Building Structure Data	Cloud-2-Cloud Integration	Partner and 3 <sup>rd</sup> Devices	Siemens native IoT and SW integrations <small>eg. Desigo PXC, Connect Box, Desigo CC, Siveillance, Desigo Optic</small>	



CYBER SECURITY



Any field discipline & device



Any building architecture & vertical

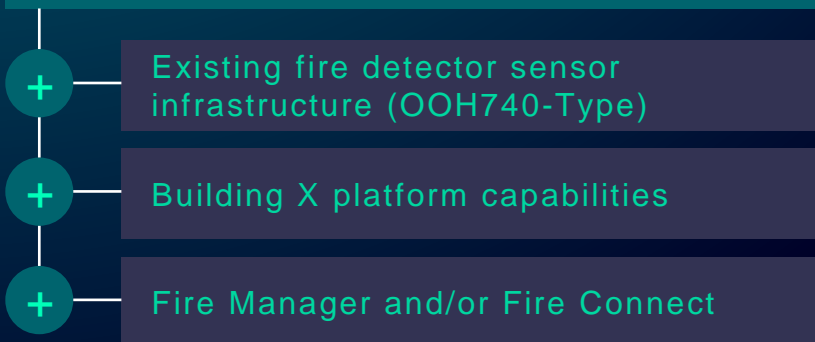


# What will the future of fire safety look like?

## ENVIRONMENT AND AIR QUALITY APPLICATION – FIRE

# Optimize heating, cooling and reduce consumption in the building leveraging existing fire detectors

### Enablers for this product



## Challenge



- **Pressure to stay compliant with evolving environmental regulations**, such as temperature standards.
- **Optimize heating & cooling costs** for customers without room automation and BMS.
- **Difficulty in monitoring large-scale facilities** (or multiple buildings) with diverse environmental needs.
- **High number of sensors & installation effort** for Temperature & Air Quality measurements

## Solution



- **Visualize temperature data of fire detectors** on a floor plan view and/or on a list view.
- Offer different **dashboards with filter options** for in-depth temperature analysis over date intervals for various facilities, floors, and rooms.
- **Easily identify hot and cold spots and detect irregularities** such as heating/cooling during the day and night.
- **Access almost real-time** (15 minutes pulling interval) **insights** into temperature data to allow for prompt reactions of good environmental quality.
- **Easy onboarding**, create new insights into customer challenges.



# Siemens Frankfurt Showroom

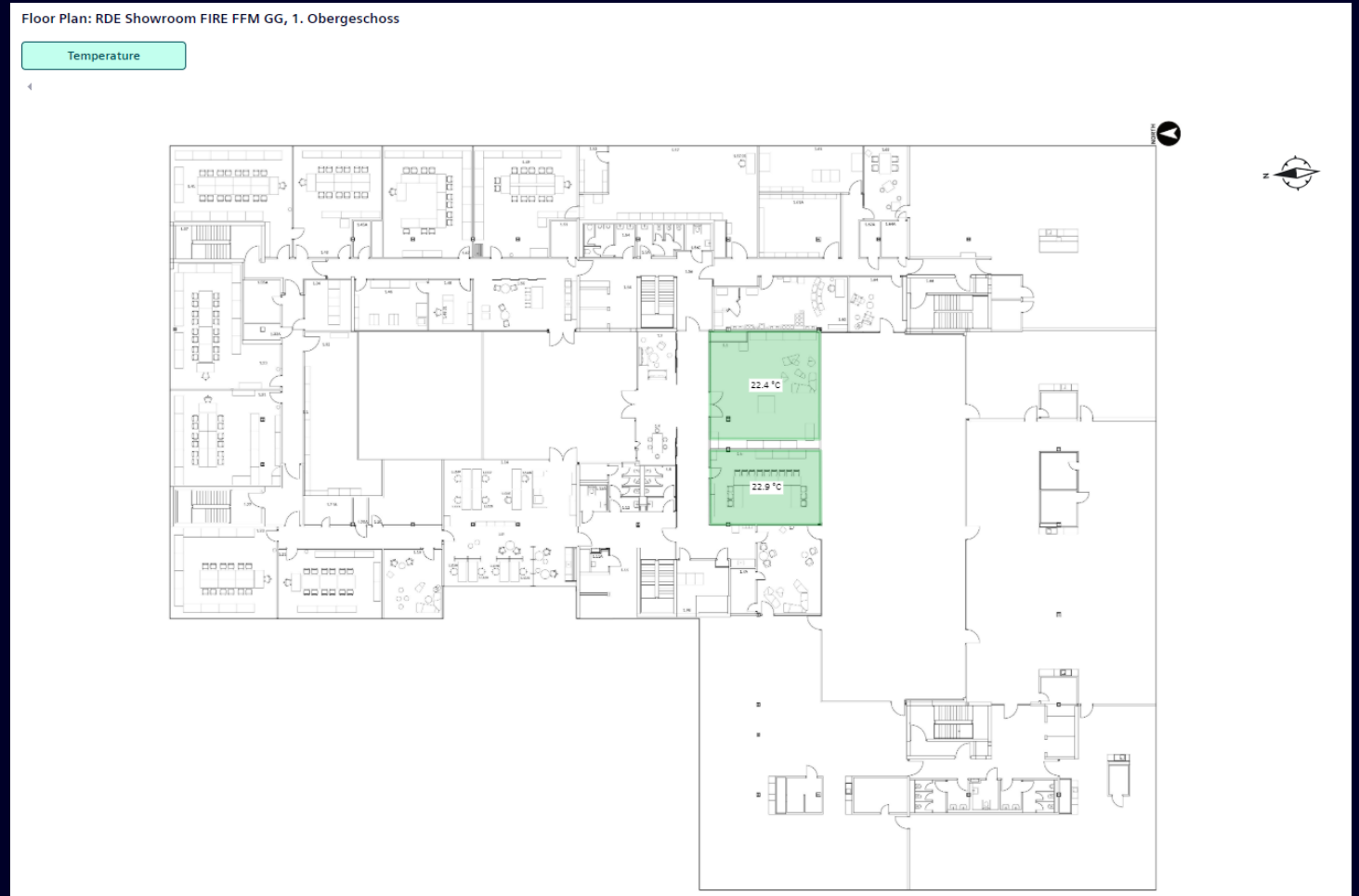
Environmental and Air Quality Application powered by Building X

## Starting Point:

- Leveraging temperature data from existing fire detector sensors

## Highlights:

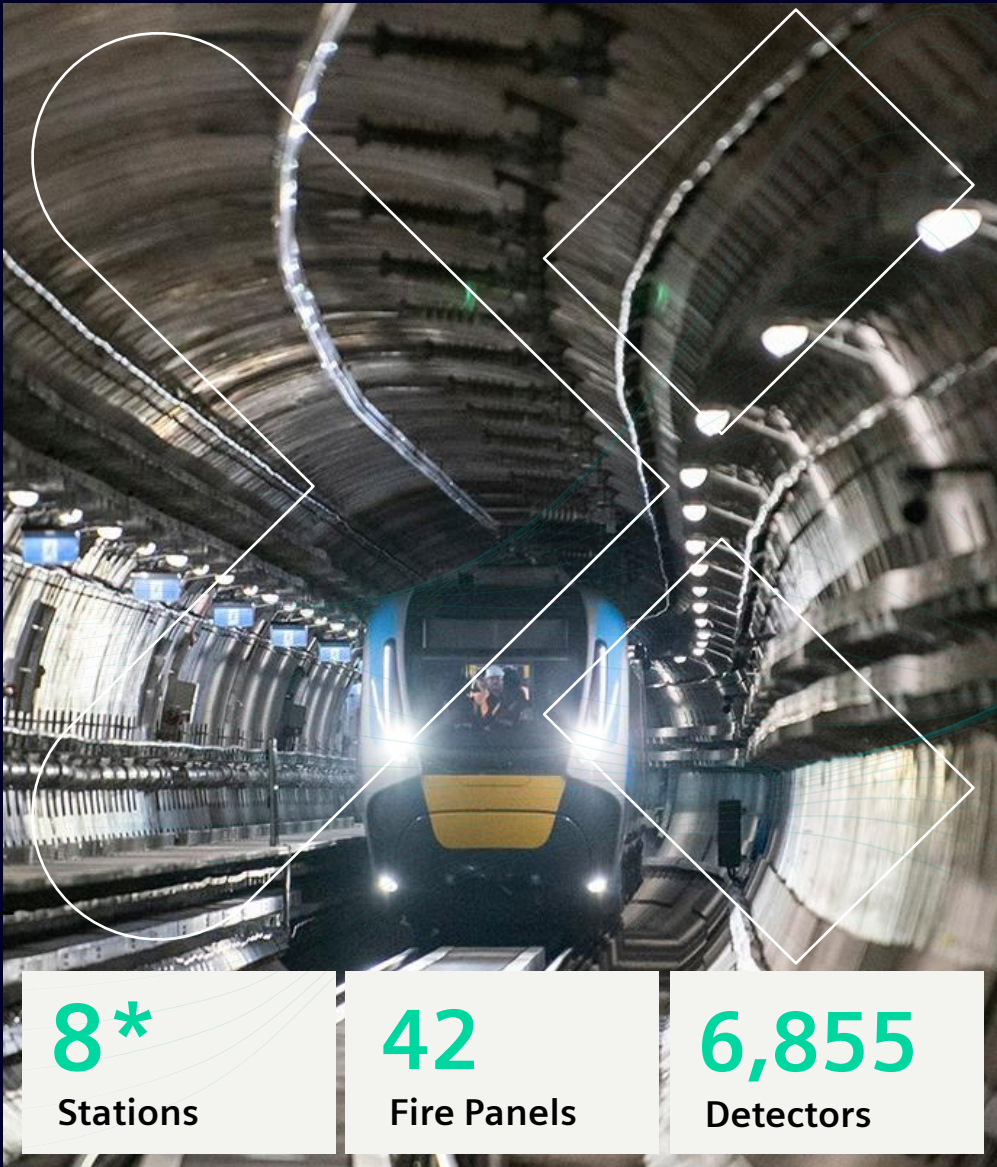
- Using common Building X data lake to display relevant temperature data coming from Fire Systems.
- Utilizing Siemens X300 Connect Gateway with Fire distribution.



# References



# ▶ Building X Fire Apps – Melbourne Metro Tunnel Project



\*Including two upcoming stations

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## Challenges

- Limited real-time visibility into the health and status of fire protection systems
- **Delays in response** and resolution due to dependence on on-site visits
- **High costs and disruptions** caused by false alarms and manual testing routines



## Solution

- Building X Fire Apps for **24/7 secured visibility**, **remote access** for issue resolution, and efficient **maintenance planning and reporting**
- DFT-enabled Devices to perform daily **Disturbance-Free Tests** of alarms and detectors without interrupting facility operations
- Advanced Signal Analysis (ASA Detectors), to accurately **distinguish real fires from deceptive phenomena**, minimizing false alarms



## Benefits

- **Real-time overview** of fire protection systems with instant incident notifications
- **Faster response to emergencies** and improved operational continuity
- **Minimized disruptions** from false alarms and compliance with safety regulations

Siemens Solution Partner



SIEMENS

# Thank you.

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