



# Wireless Fire Detection



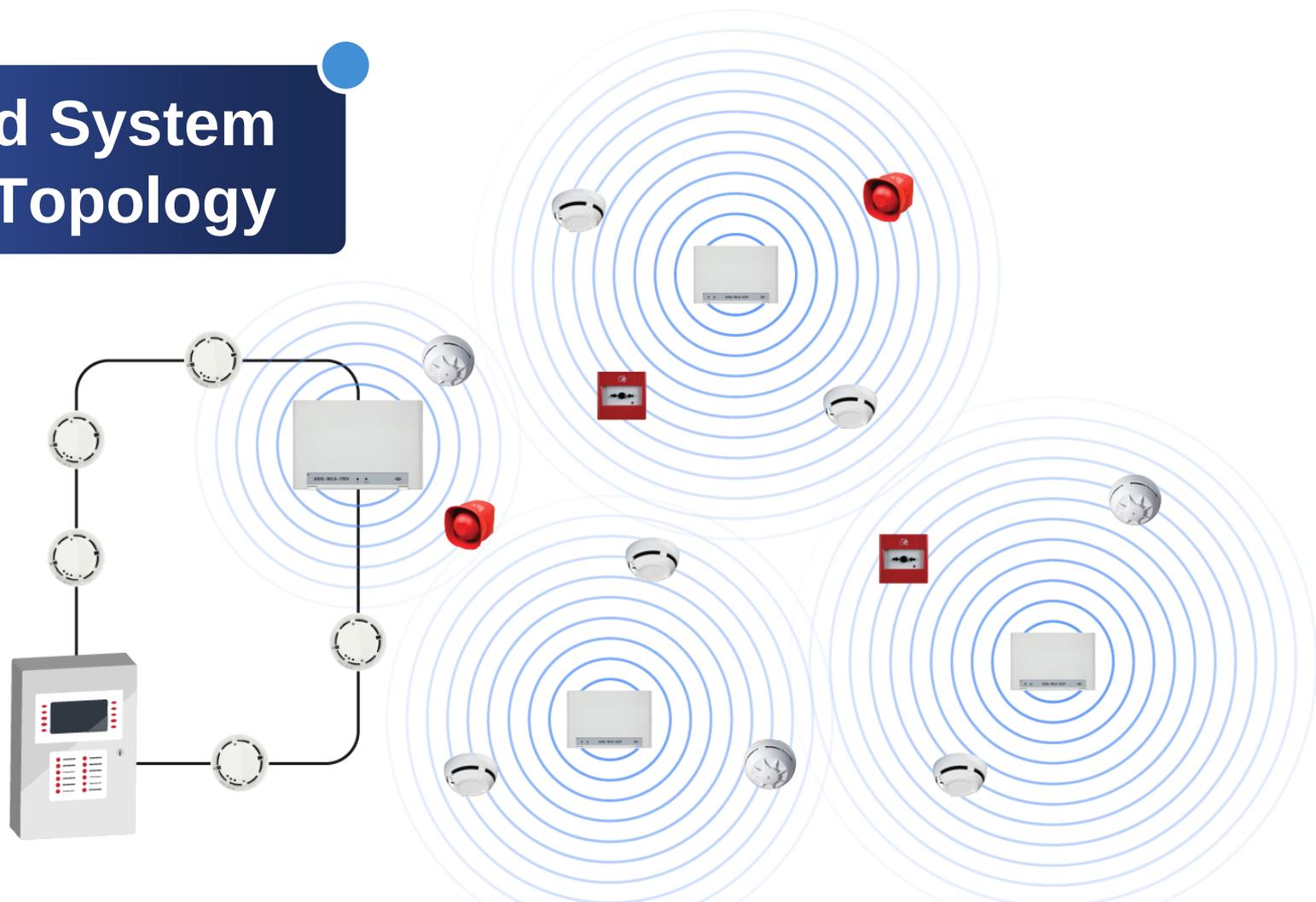
# Presentation overview

- Introduction
- Main features
- The technology
- Compliance
- The business side

# Introduction



# Hybrid System Topology



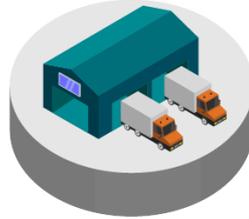
School



Hospital



Warehouse



Airport



Office building

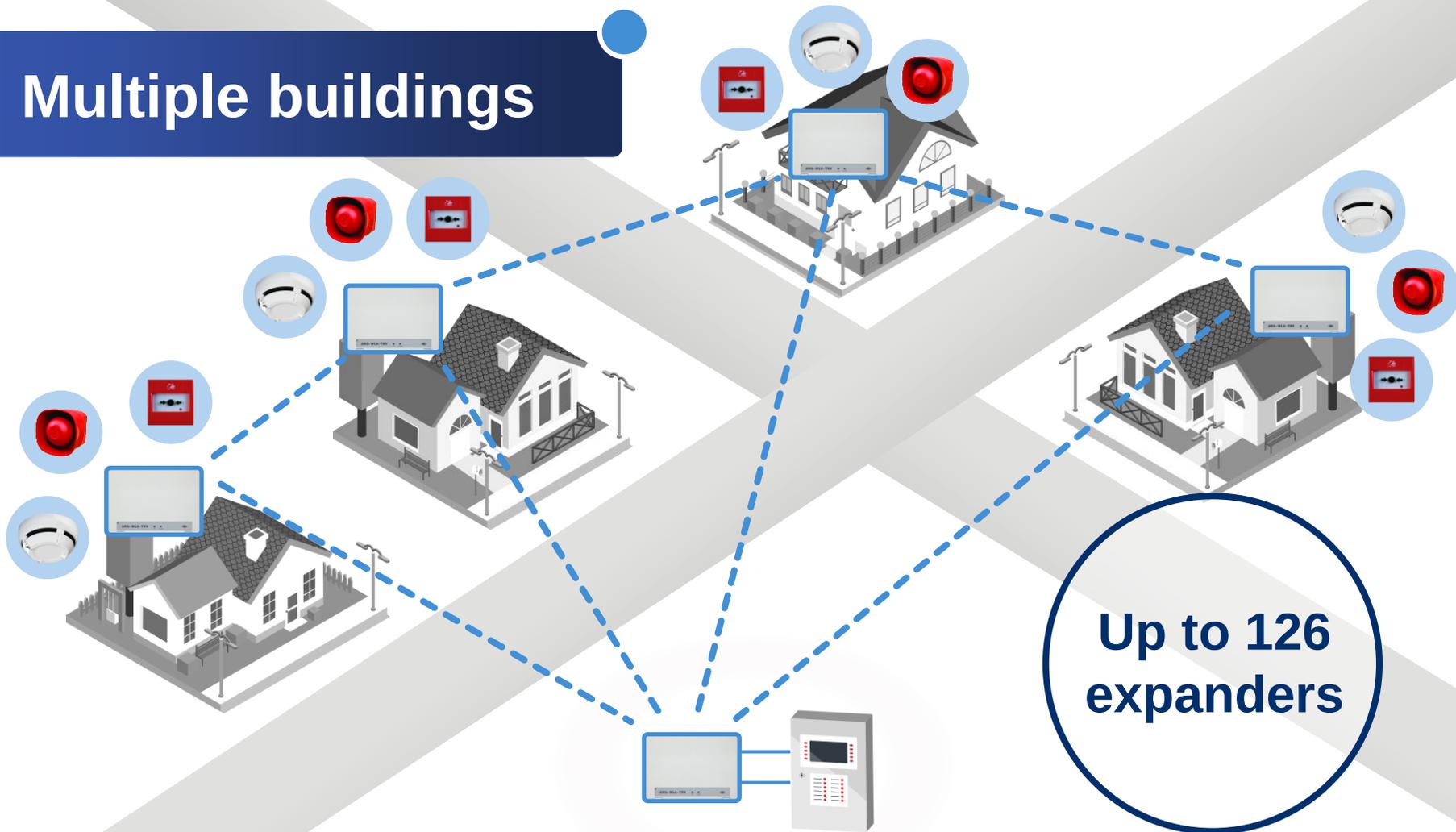


Factory



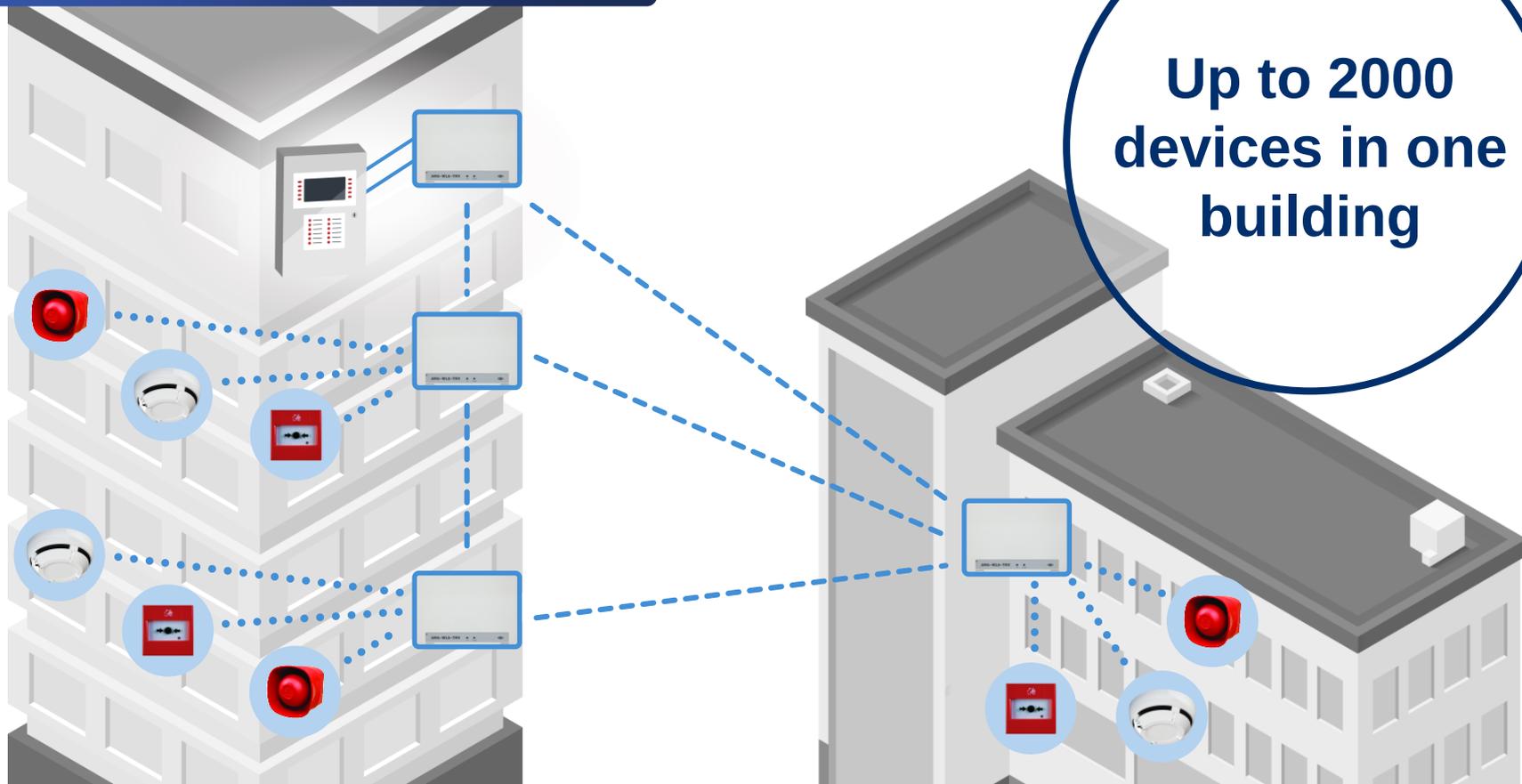
**Use wireless  
in any project**

# Multiple buildings



Up to 126  
expanders

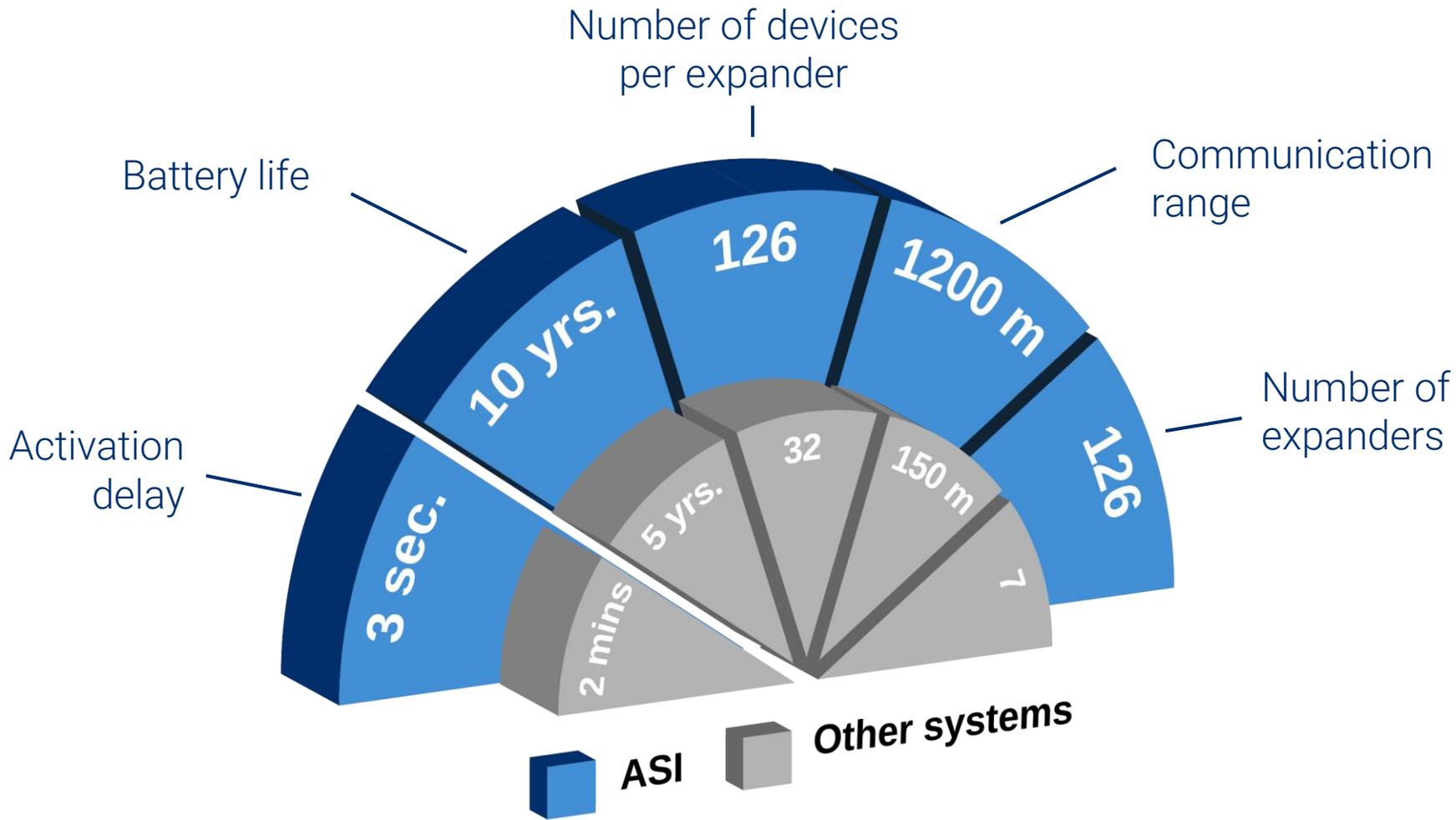
# High-rise buildings

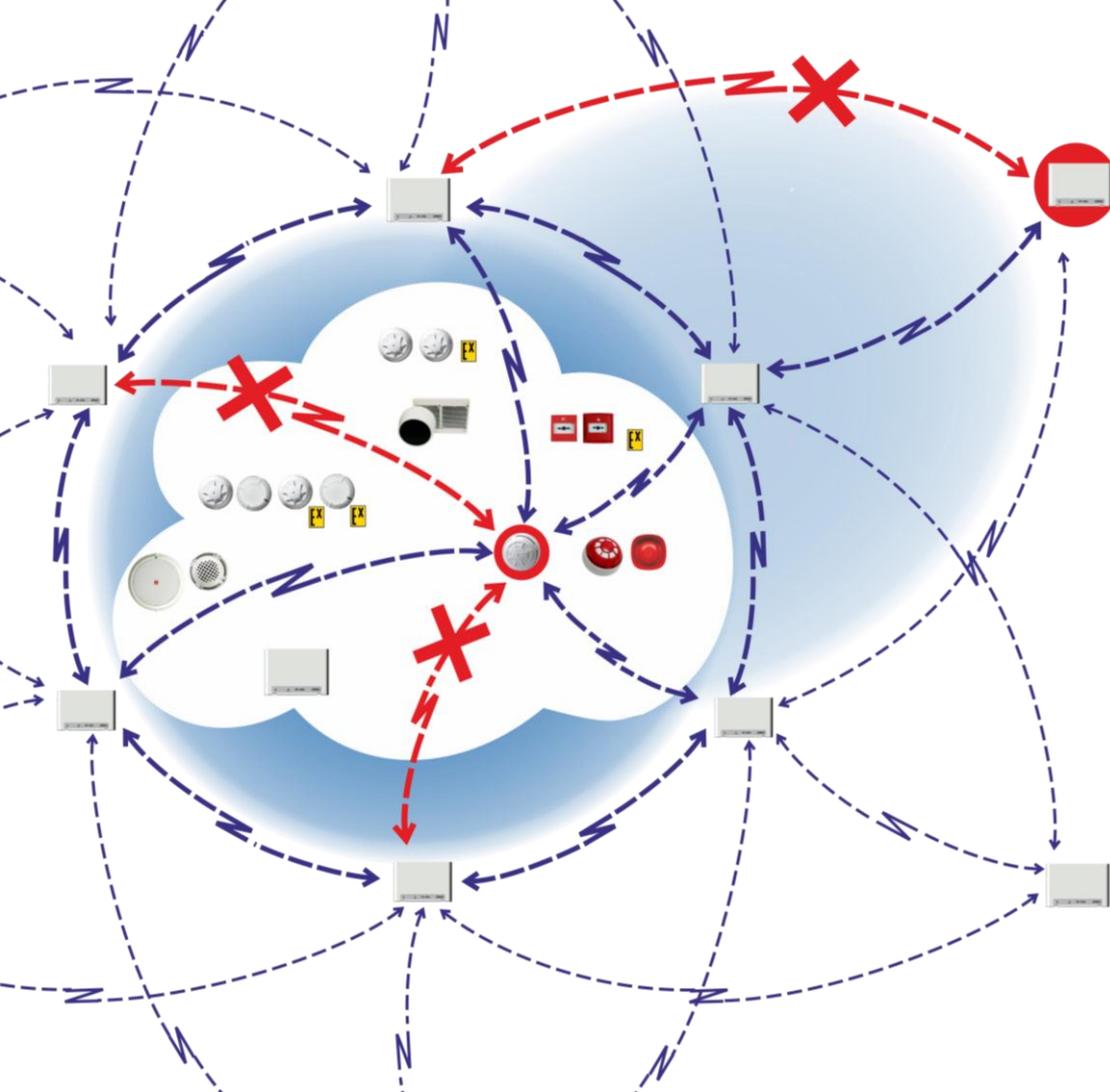


Up to 2000  
devices in one  
building

# Main Features







## Mesh network

Dynamic and  
self-configurable

# Product range

Translator & expander modules

Optical & thermal sensors

Multi-sensor

Optical sensor with in-built voice annunciator

Optical & thermal sensors with in-built sounder

Manual call point

Wall sounder

Input & output modules



# The Technology



# Cables highly vulnerable in the event of fire



**Limited information**  
on spread of the fire  
condition



# Wireless alarm stays connected

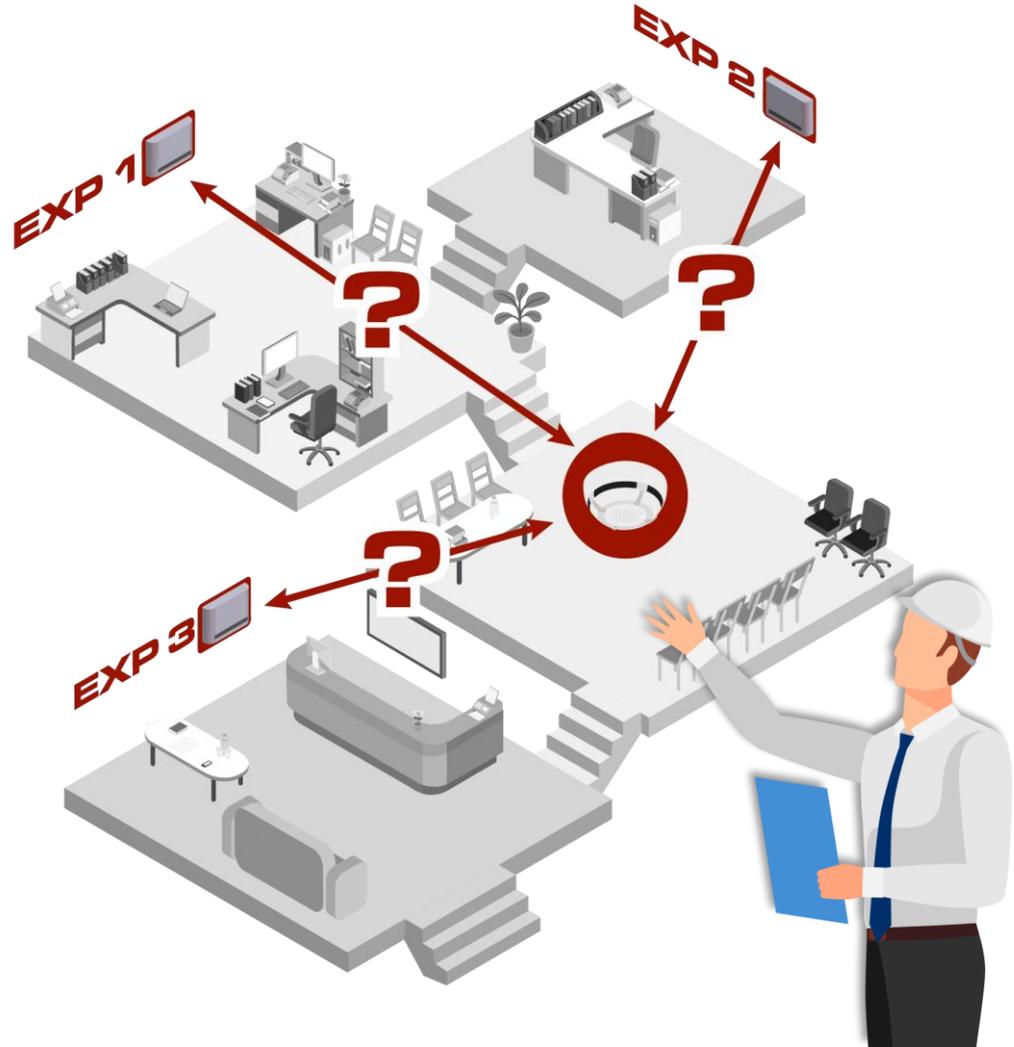


**Fire is monitored** and the location of people can be predicted



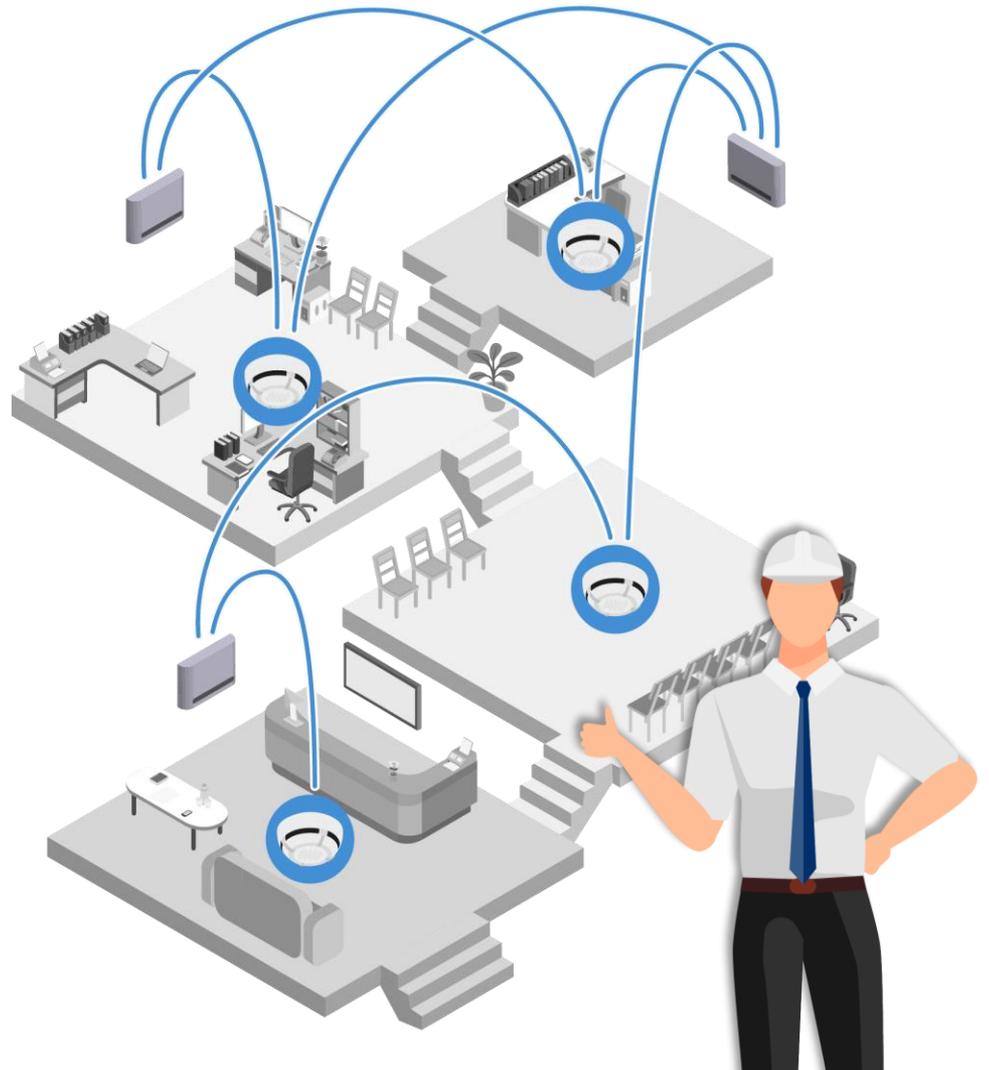
# Last generation wireless alarm

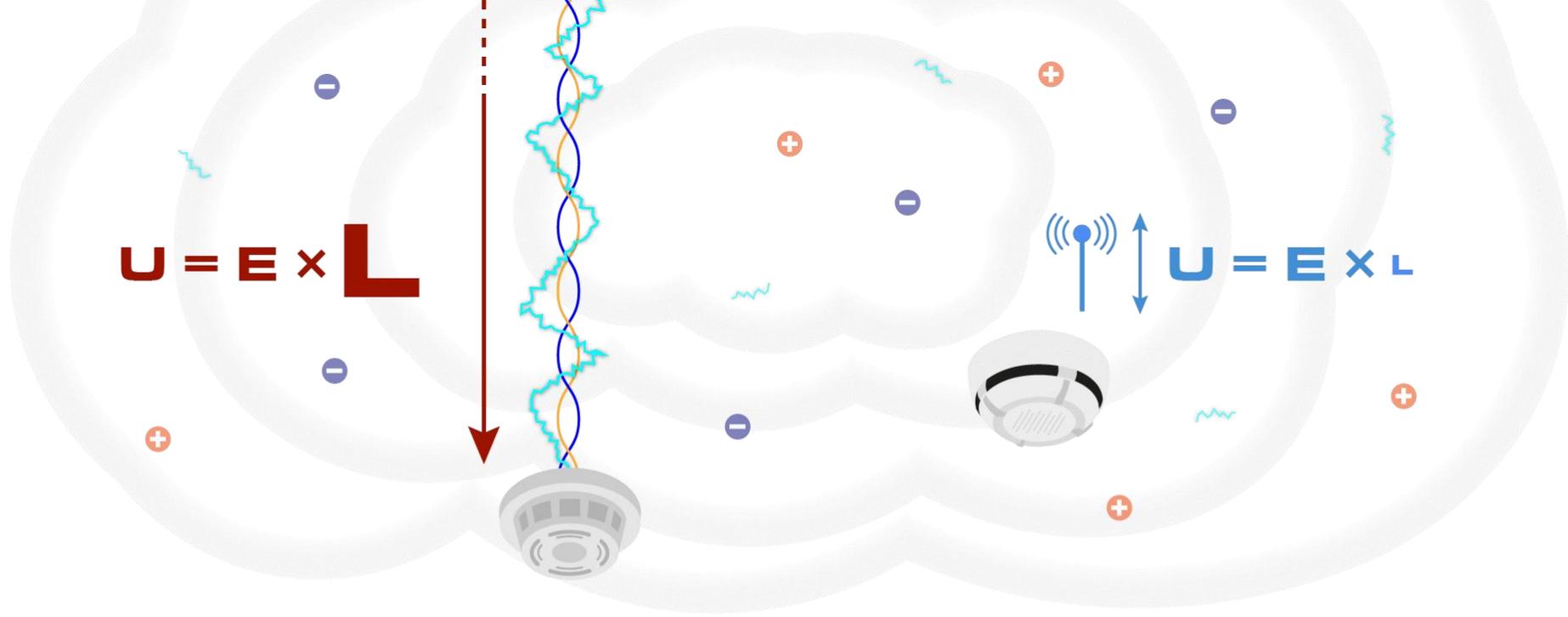
Which expander should be linked to the sensor?



# Mesh network

Install expanders and devices automatically form a network

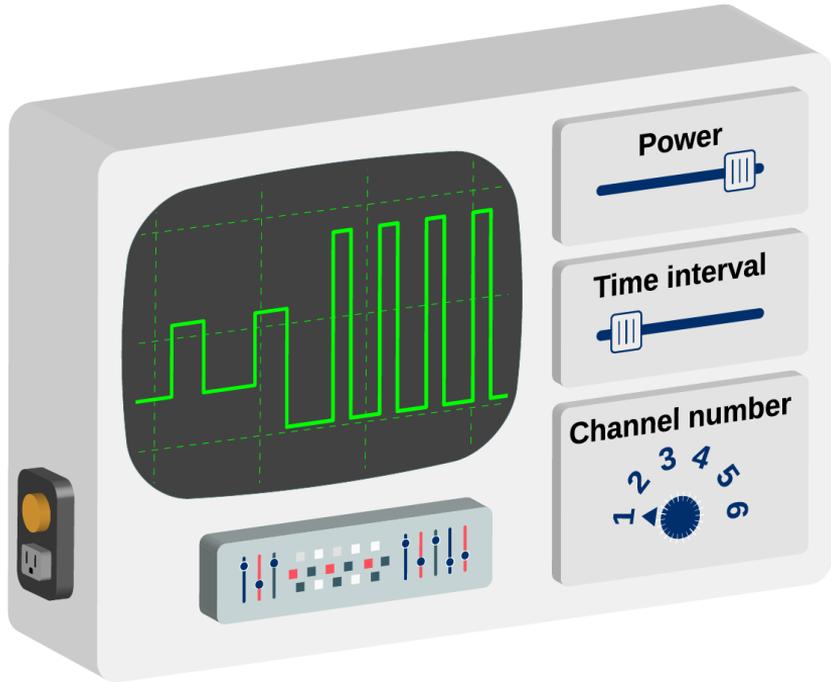




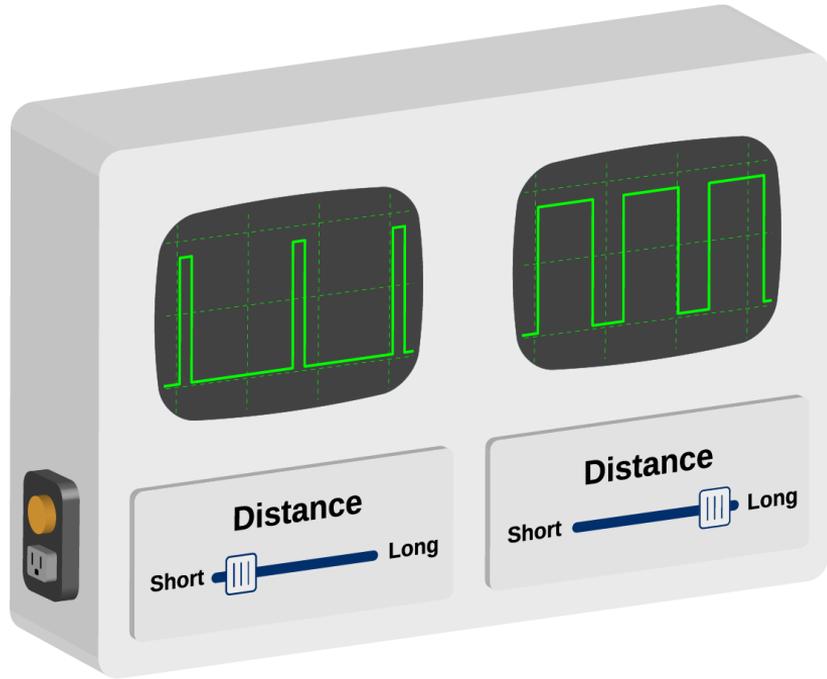
Longer wires –  
stronger interference

No wires –  
no interference!

## 3-step protection from interference



- 1 Increasing the effective radiated power
- 2 Decreasing the time interval between signals
- 3 Switching to a backup frequency channel



**Communication distance  
1200 meters in free air**

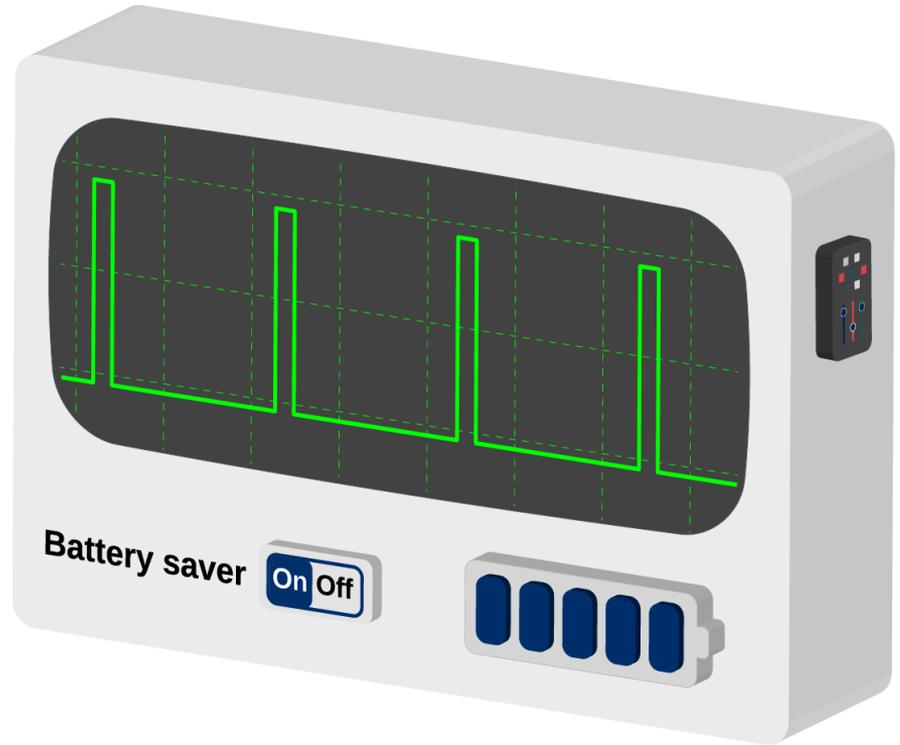
Transmission time of packages  
is adjusted to the distance

## 10-year battery life

Low effective  
radiated power

Brief active period

2-minute intervals  
between packages





**New battery technologies**  
trickle down to the fire alarm market

# Compliance





# Factory Approvals

Certificate of conformity  
of quality management system  
to **ISO 9001:2015**

Received from  
LPCB / BRE Global (UK)  
in October 2019



**LPCB®** www.redbooklive.com

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**Certificate of Management System Registration**  
Certificate Number: 1571 Issue: 03

**ASI Oy Ltd**

having complied with the requirements of:

**ISO 9001:2015**  
Quality Management Systems - Requirements

is certified by BRE Global Ltd, and is authorised to use the LPCB Certification Mark on stationery and publications related to the following products and/or services:

<b>ASI Oy Ltd</b> Laittaasilantie 3 57170 Savonlinna Finland	<b>Scope:</b> Manufacture of fire and security alarm system components.
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and held in force through regular surveillance activities.

18 October 2022	17 October 2025	18 October 2019
<small>Date of this Issue</small>	<small>Expiry Date</small>	<small>Date of First Issue</small>

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# Product Approvals

Full range of devices compliant with the **EN-54** standards for protection equipment



Received from  
LPCB / BRE Global (UK)  
in May 2020

# ASI equipment RED compliant



All wireless equipment  
must comply with RED

RED was introduced



الإدارة العامة للدفاع المدني دبي  
DIRECTORATE GEN. OF DUBAI CIVIL DEFENSE

# Approved in 80 countries

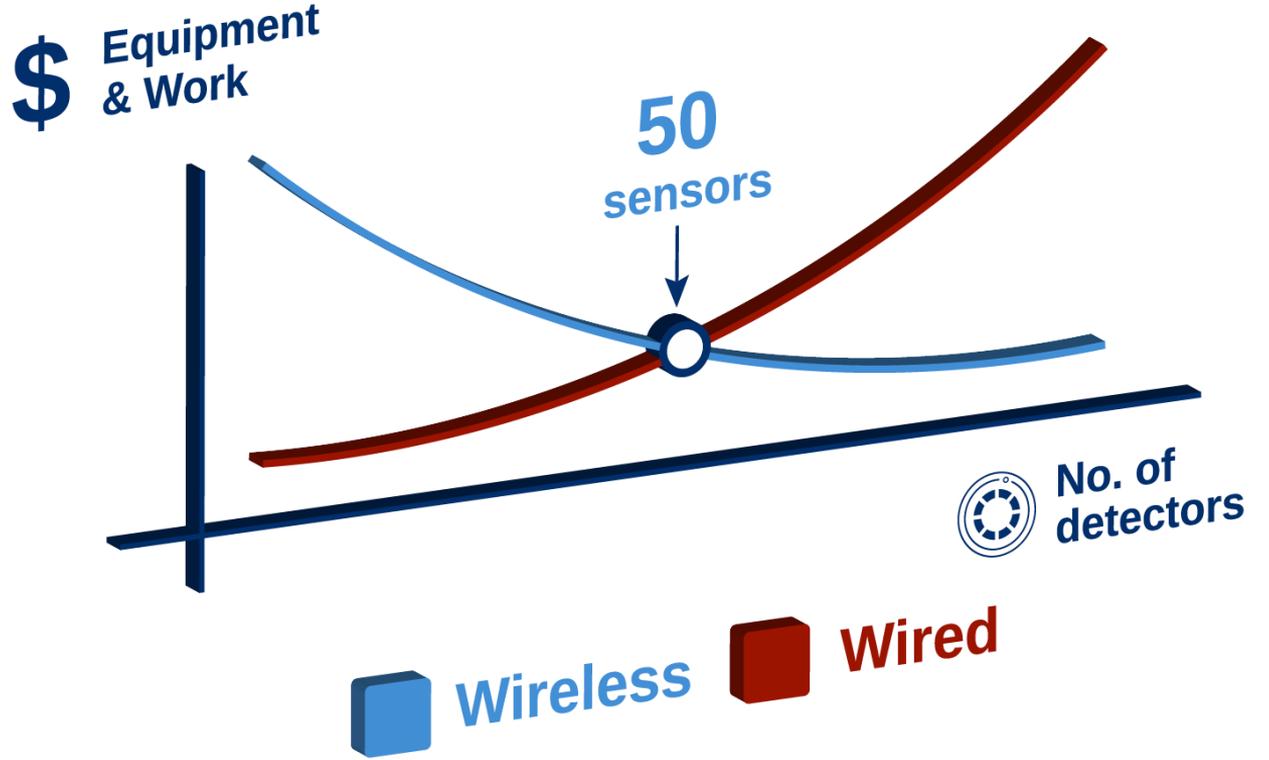
Certified by BRE, DCD, SAI, Element

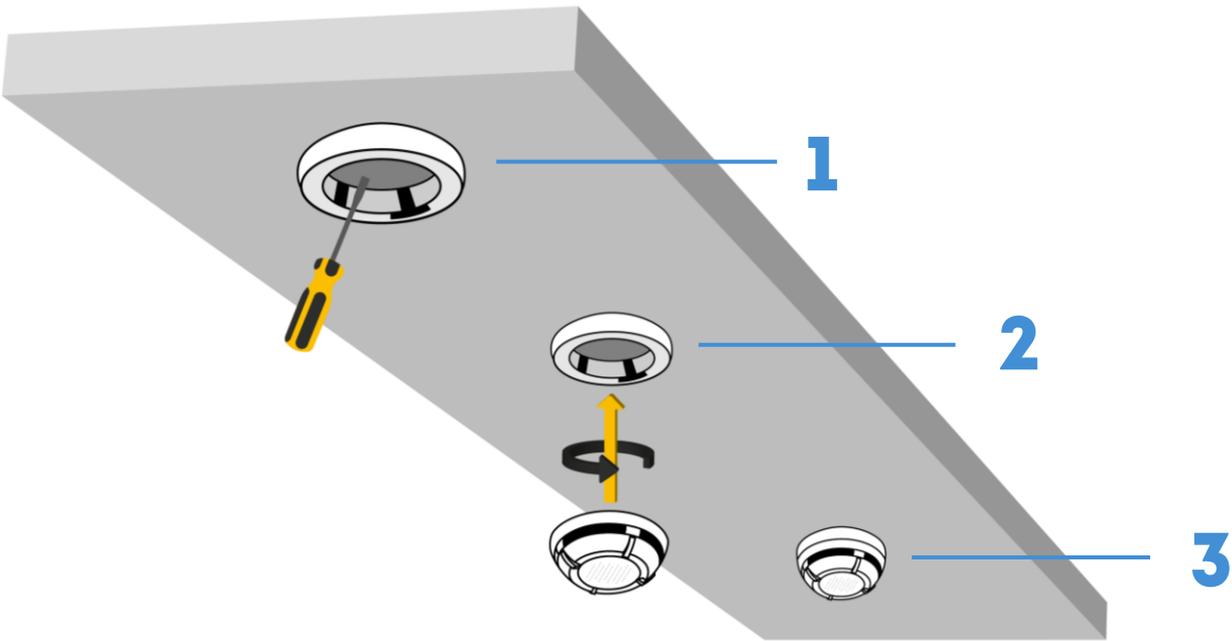


# The business side



# Price correlation

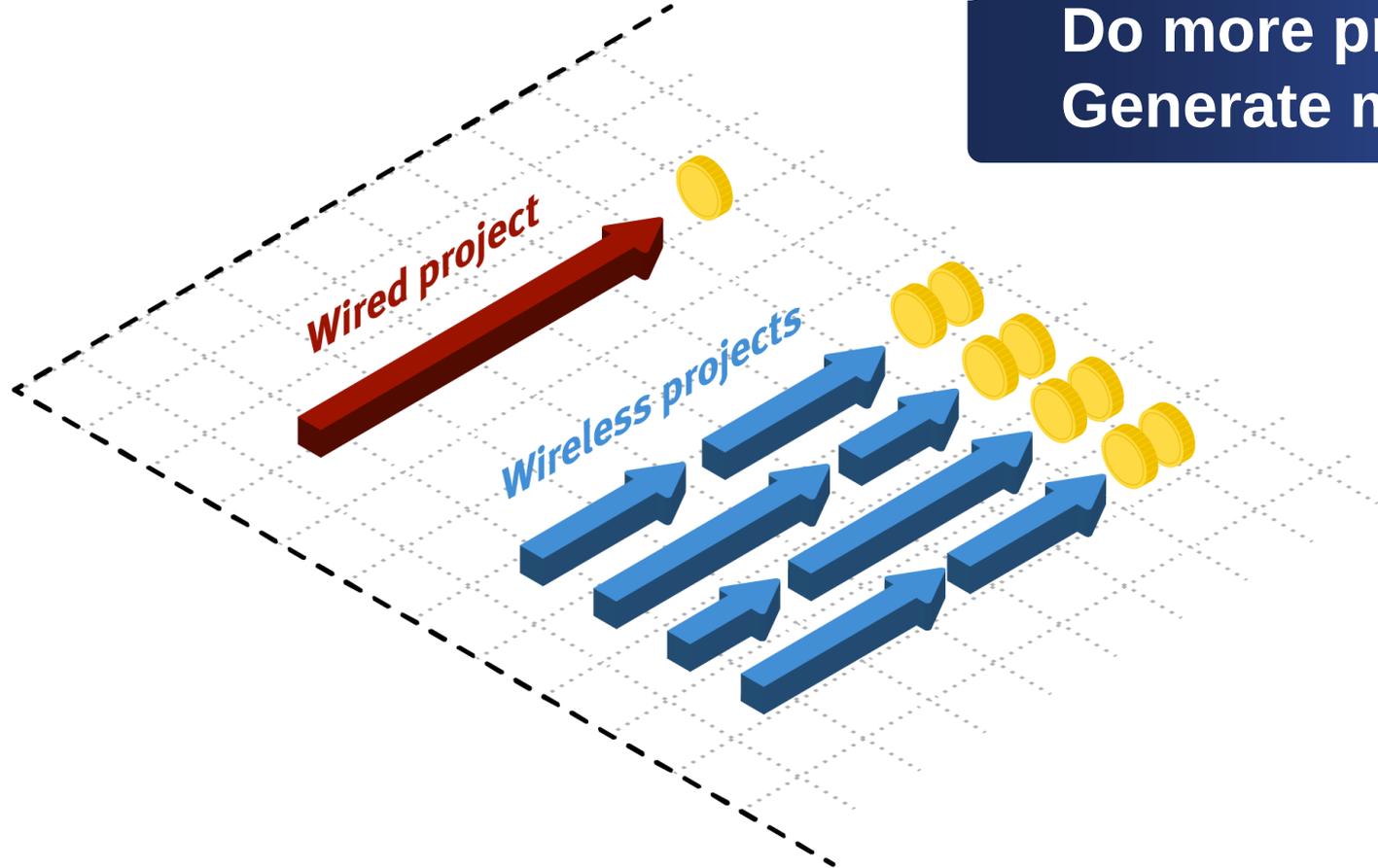




## Quick & easy installation

Minimal work  
and tools

Do more projects  
Generate more revenue





No disruption to  
operation of building



No damage to  
building interior



Cost & time  
efficient

**Retrofit an old  
fire alarm**



**Quick installation  
is safe installation**



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