



INFRABIRD™

# Service Offer

 Nexans x  dstelecom

## INFRABIRD™ : street cabinet safety

“smart up your network”

### INFRAKEY

Access management to  
street cabinets

### INFRAVIEW

Street cabinets health  
status monitoring and  
intervention monitoring

### INFRACOACH

Raising of field alerts and  
technical reports

# How it works

## Hardware



**Integrated sensor and lock  
in the street cabinet, without  
piercing or degrading IK / IP**

## Information System



**Cloud  
LoraWan  
MS Azure**

## User Interfaces



**A dedicated Web interface  
for supervision**

**A Mobile interface  
dedicated to technicians**



10  
years



Secure  
opening



Abnormal shock,  
temperature and  
humidity detection



Real time



Equipment  
mapping



Alert  
Real time

# How it works

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INFRABIRD™ is a digital solution that

- can be adapted to all existing cabinets
- which can be set up and maintained independently
- which is available and can be used by all stakeholders in the network, regardless of their skill level
- which does not need to be connected to the power grid

# How it works



INFRABIRD™

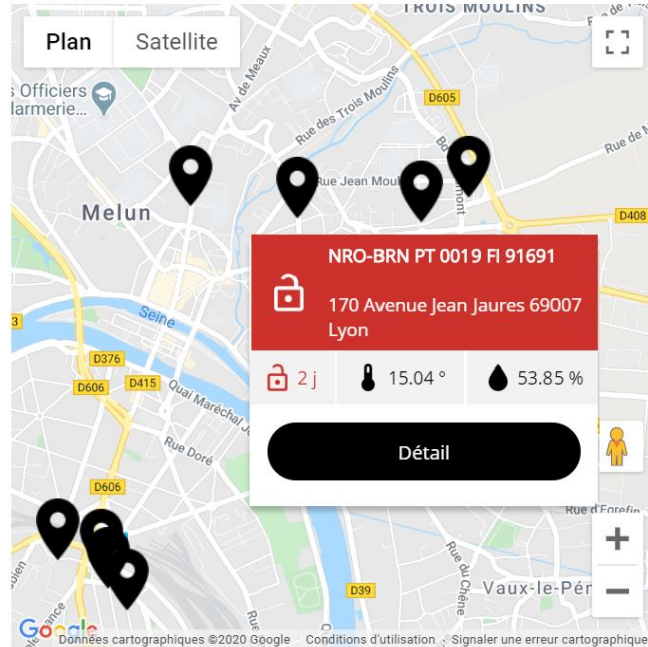
INFRABIRD™

↻ a Web application  
dedicated to  
network  
supervision

TOUTES LES ARMOIRES **18**

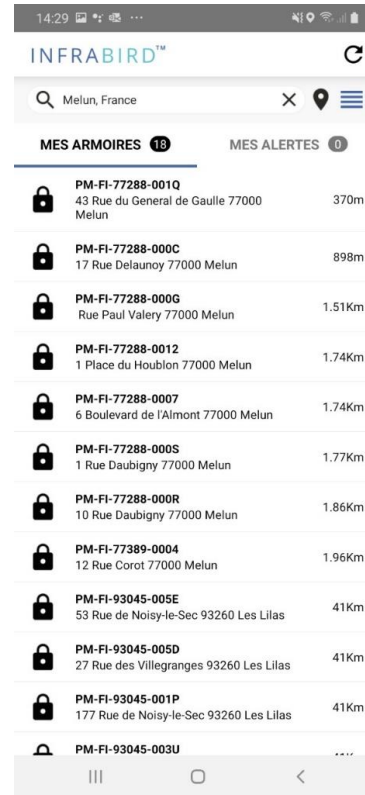
ALERTES PORTES OUVERTES **1**

Statut	Armoire	Adresse	Code Postal	Ville
	PM-FI-93045-005E	53 Rue de Noisy-le-Sec	93260	Les Lilas
	PM-FI-93045-UE6M	29 Rue des Bruyeres	93260	Les Lilas
	NRO-BRN PT 0019 FI 91691 DEMO	170 Avenue Jean Jaures	69007	Lyon
	PM-FI-77288-0007	6 Boulevard de l'Almont	77000	Melun
	PM-FI-77288-000C	17 Rue Delaunoy	77000	Melun
	PM-FI-77288-000G	Rue Paul Valery	77000	Melun
	PM-FI-77288-000R	10 Rue Daubigny	77000	Melun
	PM-FI-77288-000S	1 Rue Daubigny	77000	Melun
	PM-FI-77288-0012	1 Place du Houblon	77000	Melun



Nexans

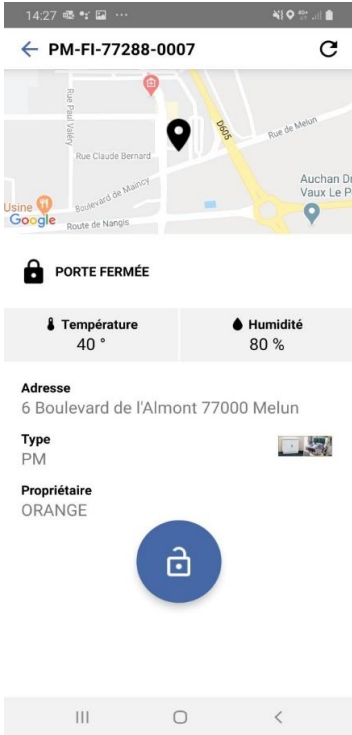
# How it works



Mobile application dedicated to technicians allowing :

- Visualization of the fleet and cabinets on alert
- Geolocation
- Listing with calculation of nearby cabinets
- Search by address

# How it works



Cabinet detail screen



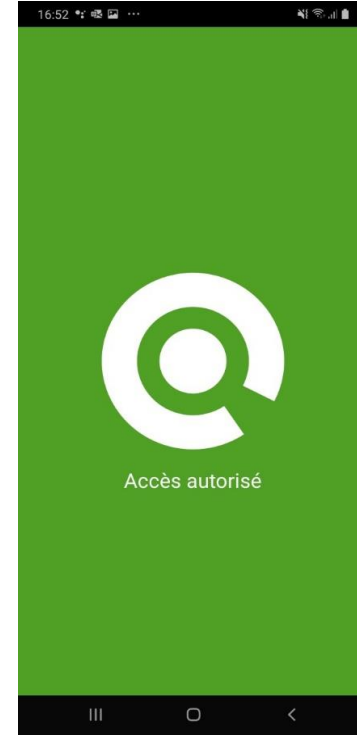
Unlocking instructions



Opening (NFC)



Opening  
(LPWAN or SIGFOX)



Opening validation

# Case study on the south and east of Paris



INFRABIRD™

Play ground

**1 280 000**

home

Deployment progress

**63,4%**

of home passed at Q2 2019

**9%**

connection failures  
due to street  
cabinets problems

**1 900 €**

supernumerary maintenance cost by  
street cabinet

**2 à 3%**

operator revenue lost in  
maintenance between the street  
cabinet and the abutment point

**25%**

potential reduction in  
street cabinets  
maintenance budget  
with INFRABIRD™



# Case study on the south and east of Paris

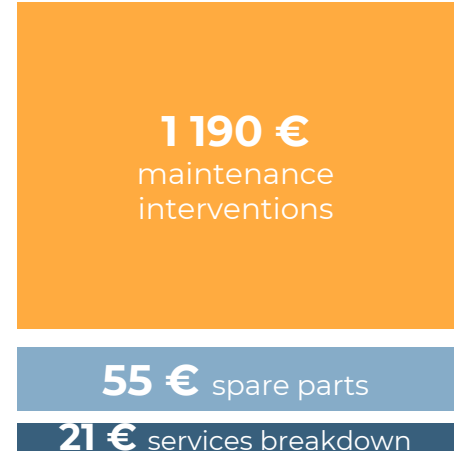
**1 900 €**

supernumerary maintenance cost by street cabinet



**- 30%**

maintenance cost by street cabinet



# Case study on the south and east of Paris



Without INFRABIRD for a low dense area of 30,000 inhabitants: 75 cabinets on average, 400 inhabitants per cabinet = around 150 k€/year of maintenance cost.

→ with a full implementation of INFRABIRD, the maintenance budget will decrease to 107 k€/year.

Cities	Qty of cabinet (2018)	Population	Maintenance budget w/o INFRABIRD™	Maintenance budget w INFRABIRD™
Avon	27	13 933	51 300 €	38 475 €
Bussy-St-Georges	33	26 346	62 700 €	47 025 €
Champ-sur-Marne	36	25 052	68 400 €	51 300 €
Chelles	73	53 833	138 700 €	104 025 €
Coulommiers	25	15 116	47 500 €	35 625 €
Lagny-sur-Marne	35	21 488	66 500 €	49 875 €
Melun	76	39 914	144 400 €	108 300 €
Noisiel	19	15 627	36 100 €	27 075 €



## EXPE'

XXXX € / month

25 street cabinets INFRAKEY and INFRAVIEW

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3 or 6 month trial

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Opening, temperature, shock and humidity control

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Installation on site

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2 training sessions

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Level 3 support



## Low Density Area

XX € / month / street cabinet\*

300 to 400 street cabinets with INFRAKEY and INFRAVIEW

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50 technicians and 6 supervision accounts

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+ INFRACOACH with technician reporting without shape recognition

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Opening, temperature, shock and humidity control

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Installation on site

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Level 3 support

*\* for a period of 1 year, then XX € / month / street cabinet*

# Functional perimeter available



INFRABIRD™

	EXPÉ'	RIP	NATIONALE (2500 ADR)
INFRAKEY™ <b>Smartphone</b> / Access by virtual key	✓	✓	✓
INFRAVIEW™ <b>Smartphone</b> / View and search for street cabinets	✓	✓	✓
INFRACOACH <b>Smartphone</b> / Technician reports (without shape recognition)		✓	✓
INFRAKEY™ <b>Web</b> / Access to the street cabinets opening history	✓	✓	✓
INFRAVIEW™ <b>Web</b> / Access to street cabinets surveillance	✓	✓	✓
INFRAKEY™ <b>Web</b> / Authorization management by area		✓*	✓

\* Availability march 2021





# INFRABIRD™



contact

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The Nexans logo, consisting of a red stylized 'N' followed by the word 'exans' in black lowercase letters.