

The logo for eolane, featuring the word "eolane" in a white, lowercase, sans-serif font. A small yellow accent mark is positioned above the letter 'e'. The background is a dark blue with a complex, light-colored circuit board pattern.

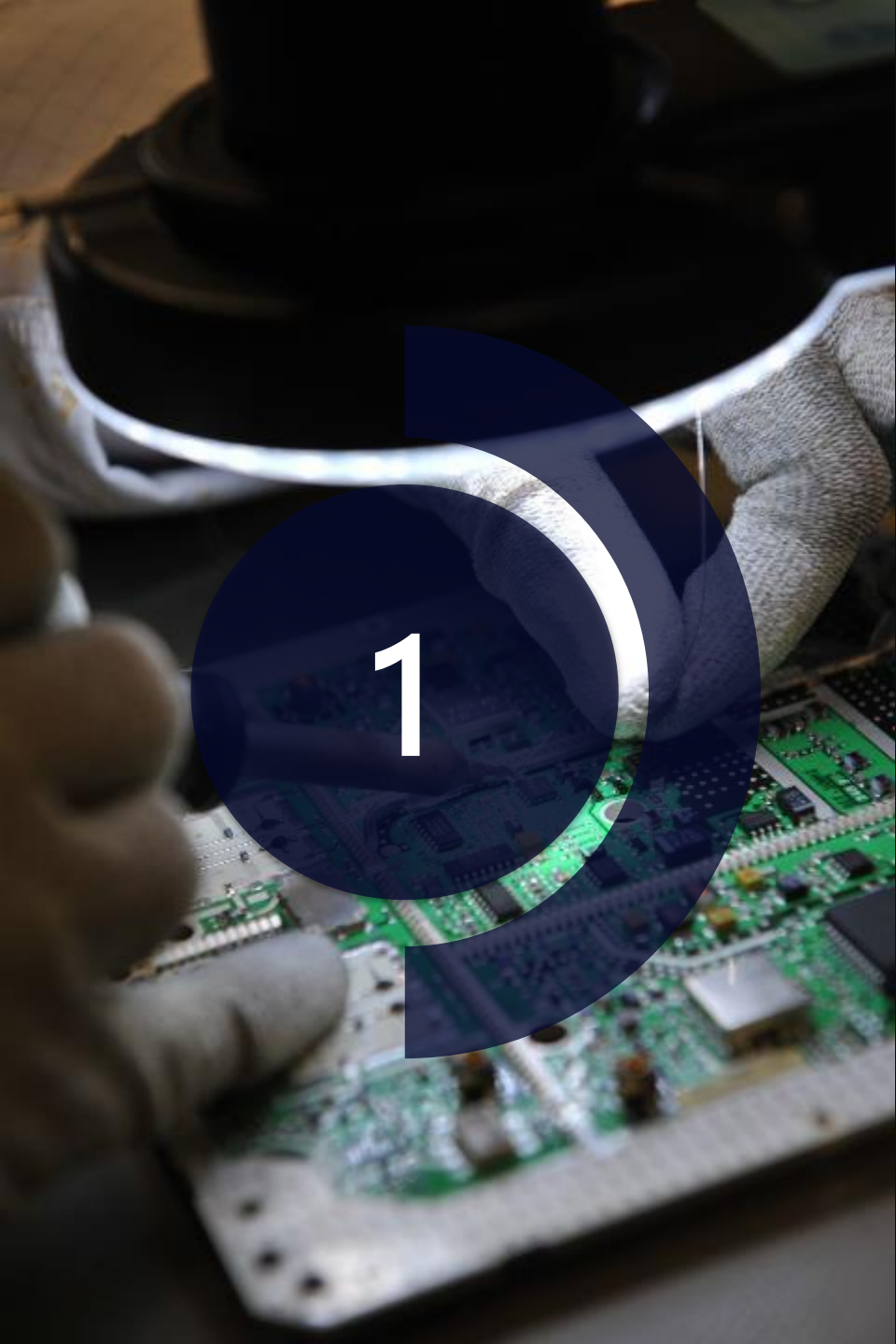
**French leader in professional electronic  
services and solutions**

March 2022

[www.eolane.com](http://www.eolane.com)

# Our Group

- **We are an EMS (Electronic Manufacturer Services), designer, manufacturer, producer and maintainer of electronic assemblies and sub-assemblies**
- **Our profession is the design of advanced electronic PCBA produced in small, medium and large series, and their integration into a final product, whether they are Institutional Customers, Large Groups International or Start Up.**
- **With 2,400 employees including 200 R&D engineers, we combine research and development capacity with high industrial performance.**



éolane

Key figures

# éolane in numbers

**290**

M€ of  
Turnover

**1 300**

Employees  
in France

**1 100**

International  
employees

**700**

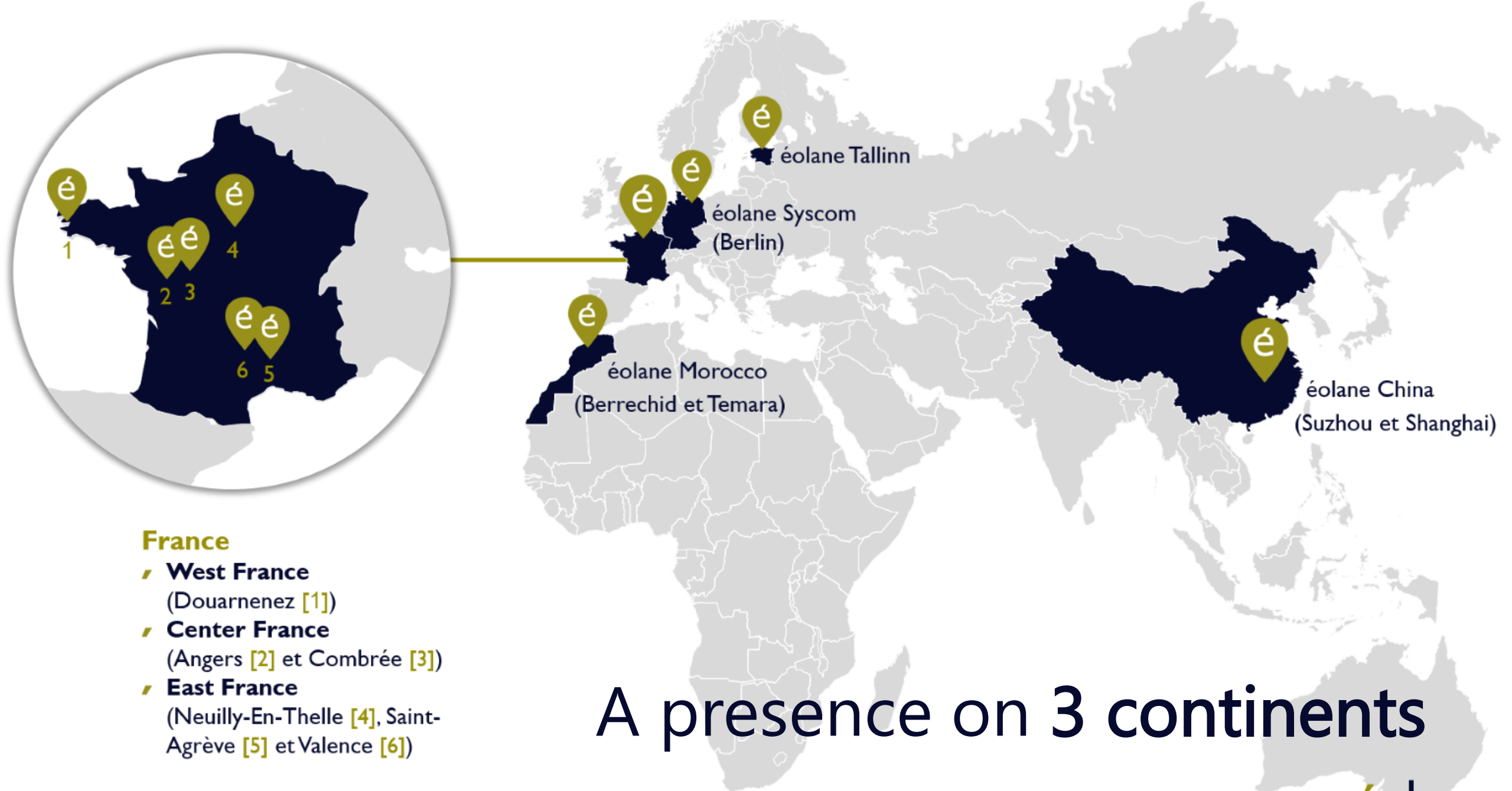
Customers

**12**

Production sites

**150**

R&D Engineers



### France

- **West France**  
(Douarnenez [1])
- **Center France**  
(Angers [2] et Combrée [3])
- **East France**  
(Neuilly-En-Thelle [4], Saint-Agrève [5] et Valence [6])

# A presence on 3 continents

# 8 main markets 2020



Defense – Naval  
– Civil Security

29%



Automotive –  
Rolling Stock

21%



Industry –  
Industrial equipment

16%



Railway –  
Public Transport

11%



Medical – Health  
Well being

11%



Energies -  
Natural resources

6%



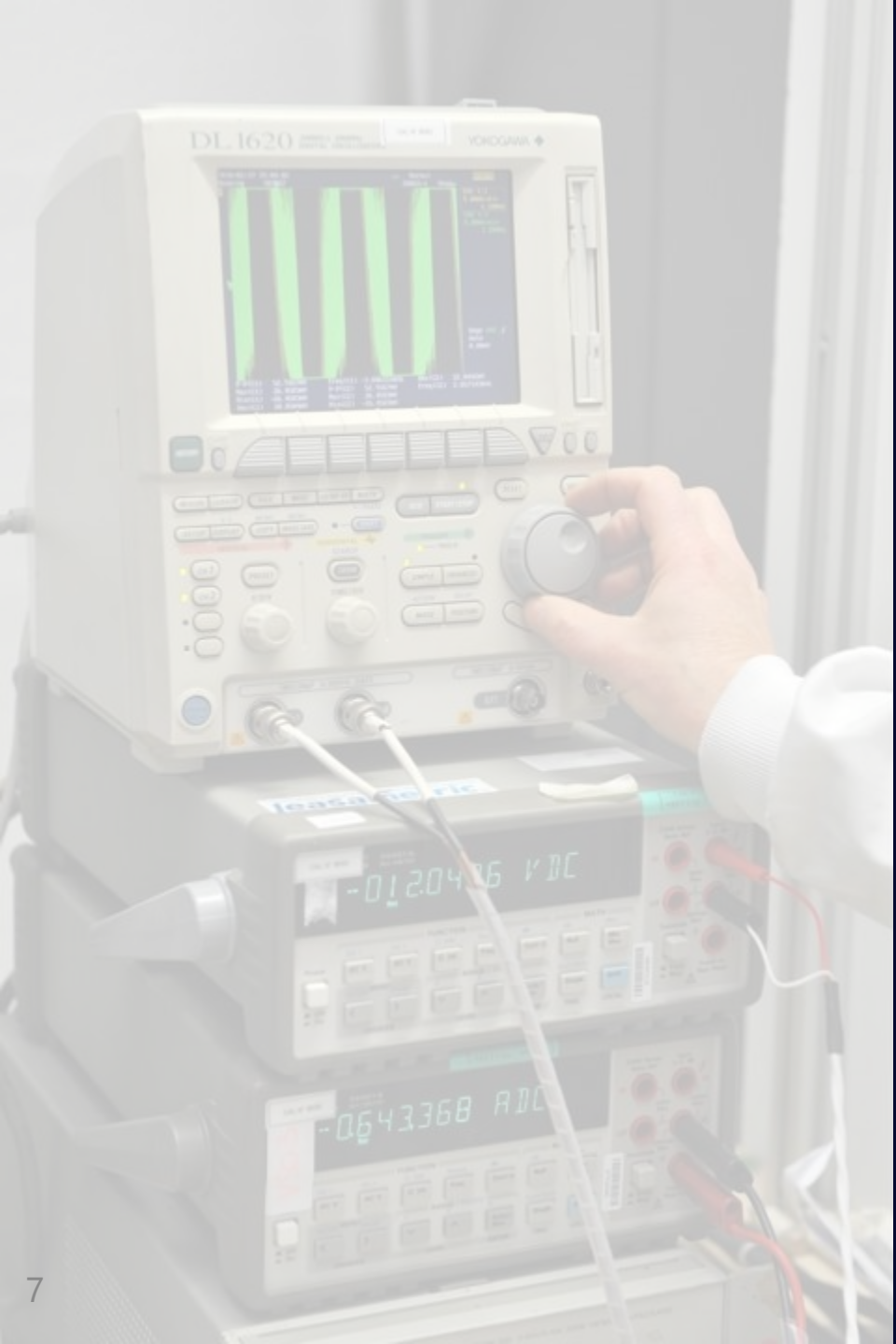
Telecoms  
MultiMedia

4%



Civil Aeronautics  
- Spatial

2%



# 13 certifications



\* Certification In Progress



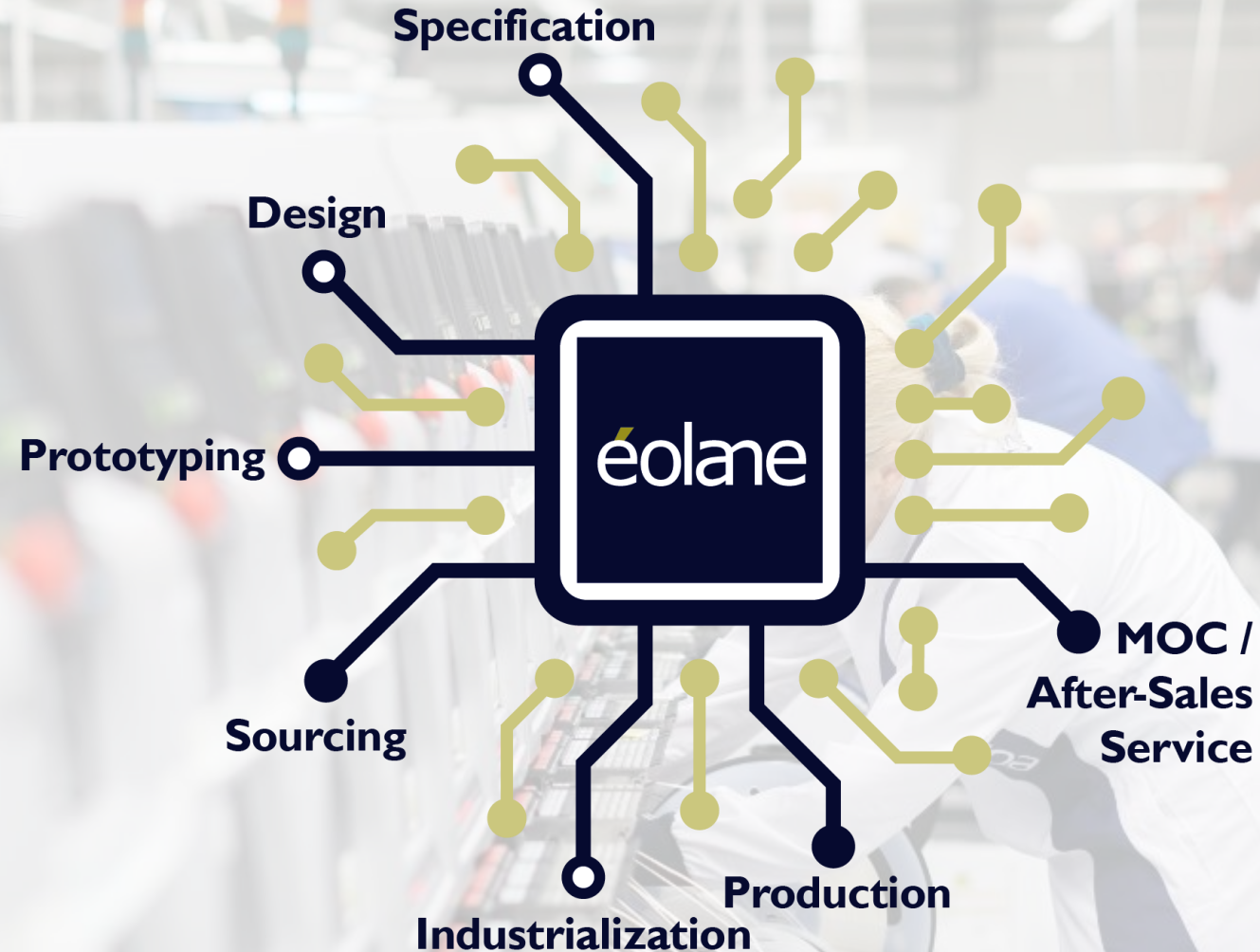
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# éolane

## Services et Solutions

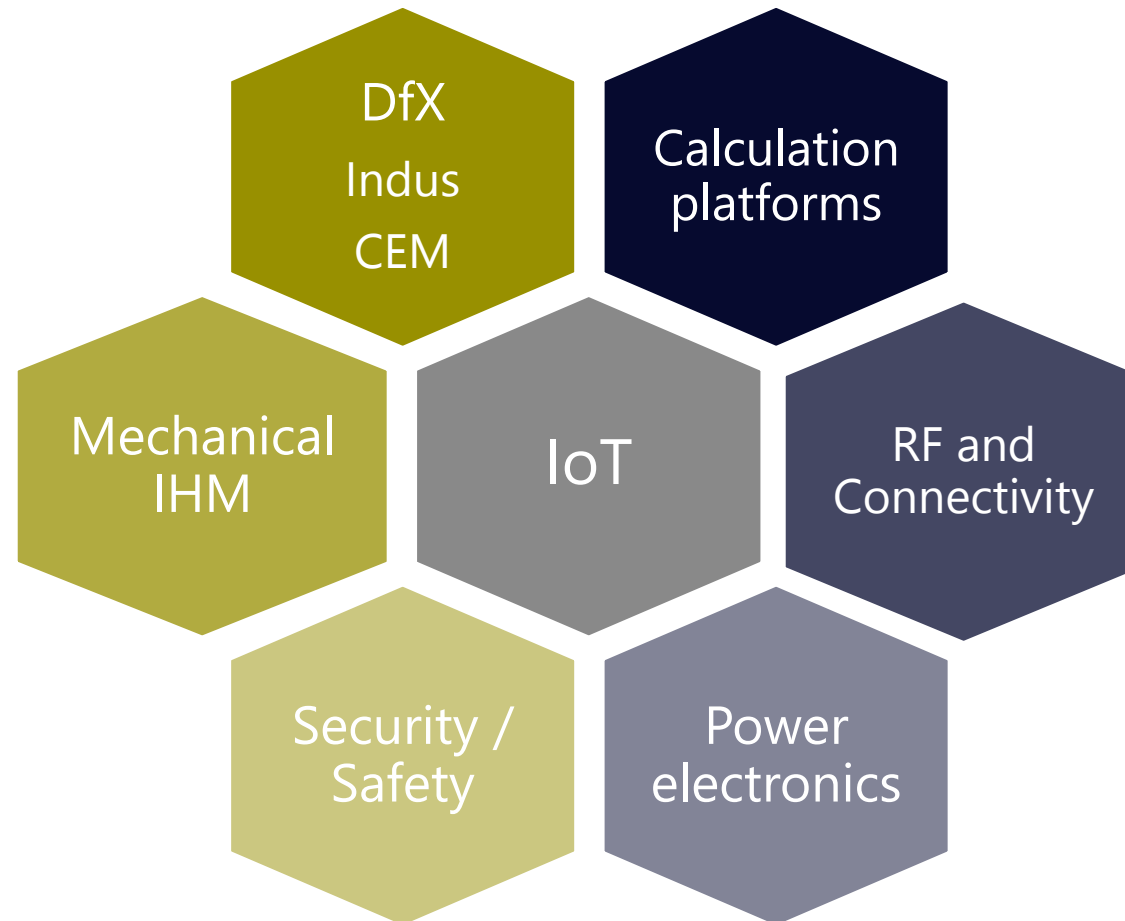


# A full range of services and solutions



# Our expertise – Our experts

Click for more



# Specification and design of your products

## Application / expertise areas

- Embedded systems
- Motor control
- Battery management
- Energy conversion
- Artificial intelligence
- HMI (Mechanics, Graphics, UX Design)
- Feasibility study, modelling (Proof Of Concept)
- Test benches, harness design

## System

- Definition of needs
- Functional analysis
- Architecture / modelling
- Tooled traceability matrix
- Severe environments
- Dependability
- Numerical simulation (thermal, mechanical, ...)
- EMC

## Electronic

- Analogical: weak signal and precision measurements
- Power: converters and motors
- High tension
- RF: Wifi, Bluetooth, Lora, Sigfox ...
- Digital: processors, microcontrollers and FPGA
- Lighting for power LED
- Industrial-oriented design, DfX

## Software

- UML modelling
- Embedded software
- Real-time cores
- Embedded Linux
- Boot loader, BSP
- Signal processing
- Fieldbus & associated protocols
- Human Machine Interface
- Cloud micro service
- Mobile apps
- Industrialization & maintenance oriented design, DfX

## Mechanic

- Form design, ergonomics
- Quick Mock-up
- Choice of materials & processes (plastics, sheet metal, machining, foundry...)
- Tooled design
- Finite element calculation
- Complex integration
- Industrial-oriented design, DfX

A specification and design process according to each market rules

ISO 9001, IATF, ISO 13485, CMMI lvl2 , HIS ASPICE lvl 2, ATEX; IEC 61508 SIL2, DO DAL-C, EN 50126, ISO 26262 ASIL-B

# CEM and radio expertise and support

## QUALIFICATION LAB by éolane



**Anechoic Chamber** Size 7m x 4m x 3,3m



### Measurement Receiver ESW26

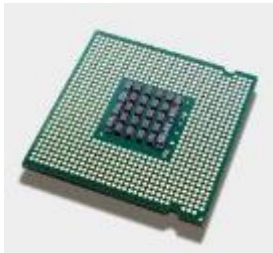
Allowing 100x faster measurement than a classic receiver !

- ✓ CEM and Radio expertise and support
- ✓ Emission test
  - ✓ CEM and Radio Qualification
  - ✓ CE Marking (Railway, Medical, IoT)
  - ✓ Emission measurements in automotive, military, aeronautics...
  - ✓ ISO 17025 Certification
- ✓ Immunity tests

# The Sourcing of your components

Sourcing

EMS Active components



PCB



LCD / LCM (incl. OLED, touch Panel)



Membrane Switch



EMS Passive components



Métal / Plastic products



Power Adapter



Cables & Silicone parts



# Industrialization

## Design for Excellence (Dfx)



### Purchase list optimization – Design for BOM

- Equivalences search - double sources
- Sustainability analysis
- Optimal component identification - supplier couple in order to secure the production activity

### Test strategy definition – Design for Test

- Forecast test strategy
- Test Coverage Analysis (TestWay / Expert test Technomatix)
- Structural test – Functional test Counter-proposals of test strategy

### Product / Process couple optimization – Design for Manufacturing

- Smart Industry
- Lean Manufacturing approach

# Support you in the production of your products



## Electronic PCBA

- Nearly a billion components installed per year
- From the standard IPC A610 Class 3 card
- Miniaturization - High density PCBA
- Selective soldering, Varnishing, Resining,
- From small series & low recurrence to large series
- Chip On Board
- Laser marking

## Integration - Mechatronics

- Mechanical Assembly (Screwing, Clipping, Gluing, Assembly, Marking, Resining)
- Micromechanics
- Power Chest
- Command bay

## Wiring

- Wired wiring
- Wrapping
- Stranded
- Harness

## Test

- Debugging
- X-ray, Automatic inspection system
- Structural test, Functional test
- CEM laboratory, Radio...

# An after-sales services guaranteed

MOC / After-Sales  
Services

## Support

- Maintenance in Operational Condition

## Sustainability

- Obsolescence Management (hardware and Software)

## Repair

- Long-term storage of electronic components
- After-sales services

## Logistic

- Fleet management and inventory regeneration



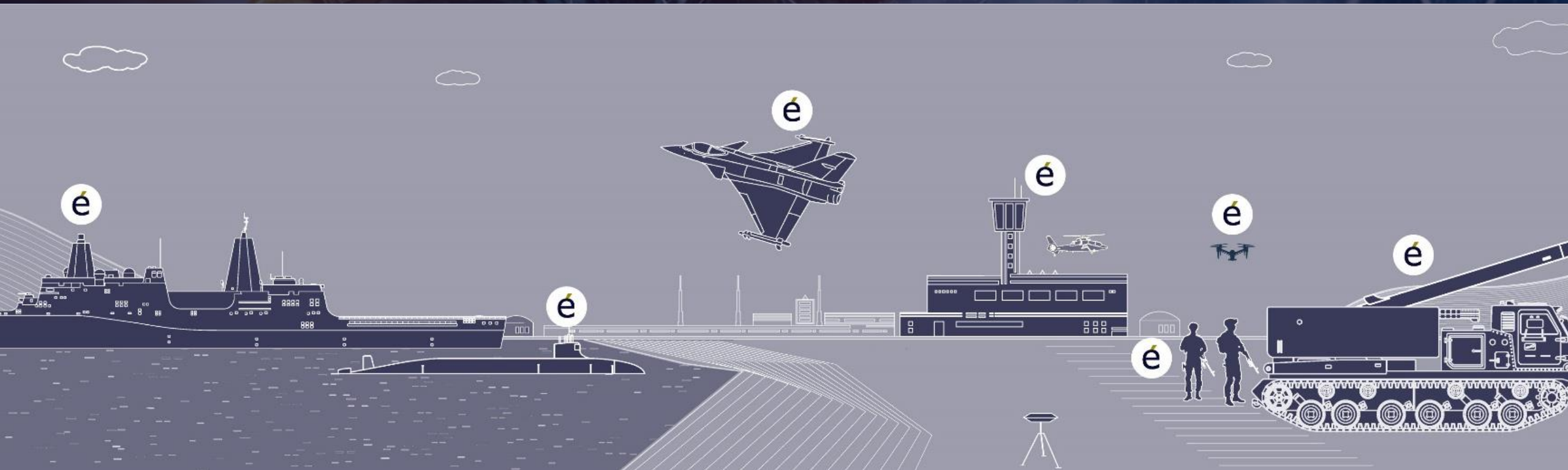


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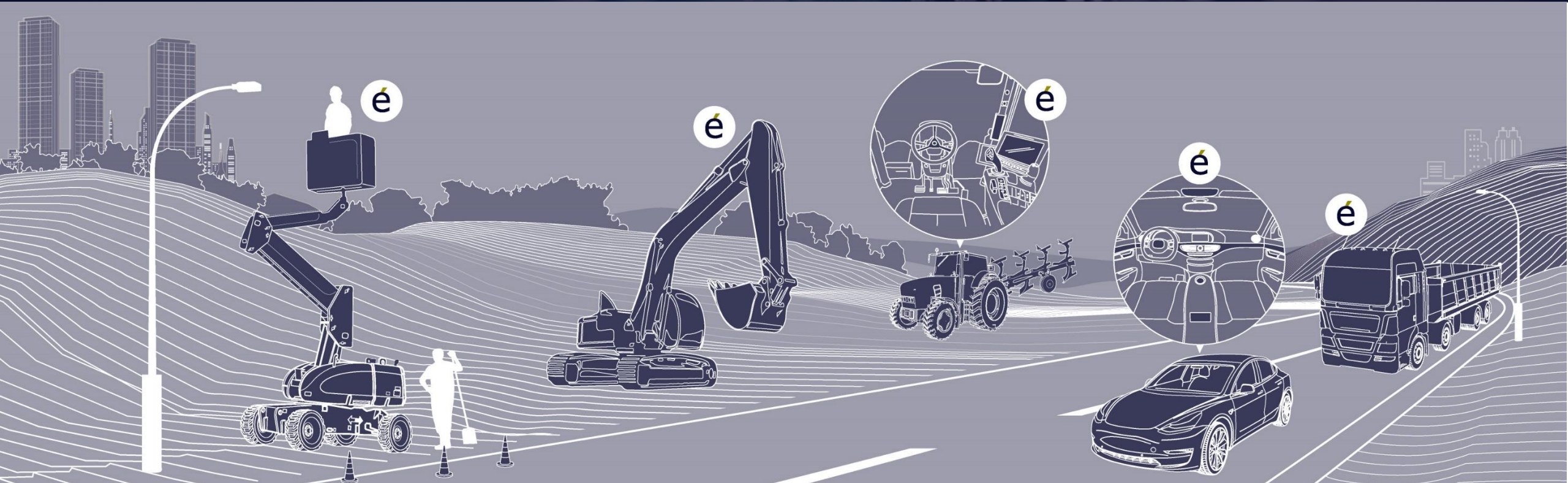
Market know-how  
#eolaneinside

# Defense – Naval – Civil Security

#eolaneinside

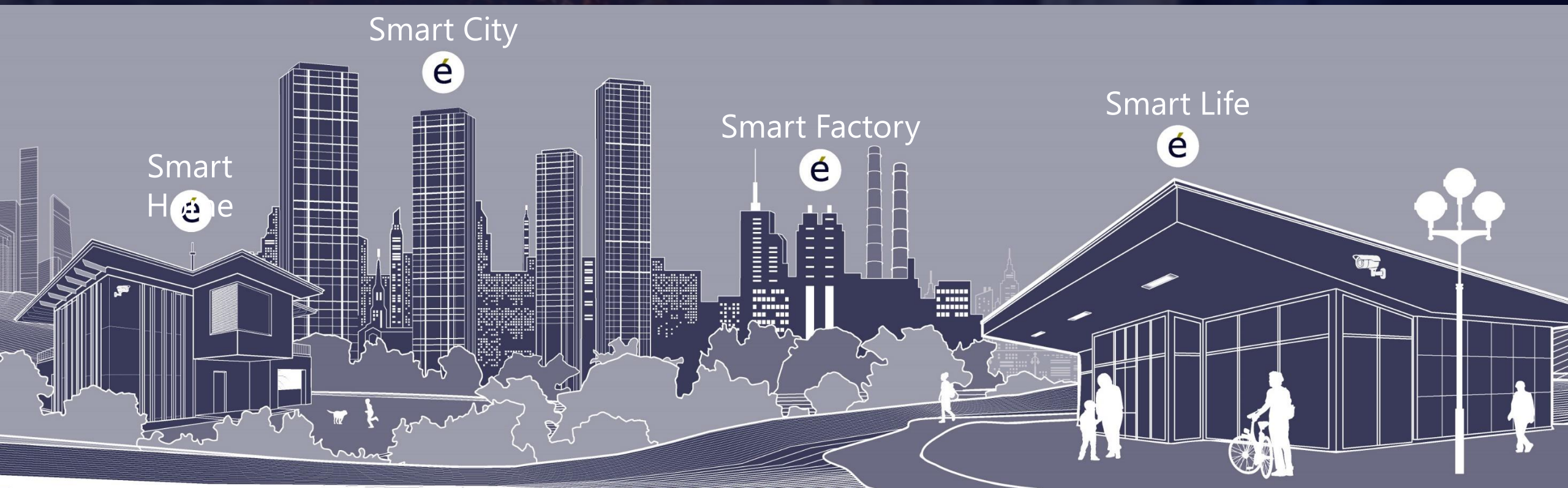


# Automotive – Rolling machines #eolaneinside



# Industry – Telecom Multimedia

## #eolaneinside



# Railway – Public Transport #eolaneinside



# Medical – Health Well being #eolaneinside



# Energies – Natural resources

## #eolaneinside



# Civil Aeronautics – Spatial

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Let's build the future together...

**Thank  
you**

# Contact us



Defense – Naval  
– Civil Security

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Civil Aeronautics  
– Spatial



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Telecoms  
Multimedia



Energies  
Natural resources



Medical – Health  
Well being

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# Our references / market

