



Co-funded by  
the European Union

# U-ELCOME

A Digital Sky Demonstrator project for the  
Market Uptake of U1/U2 Services

# SESAR 2020 SHOWCASE

# U-ELCOME PROJECT

EUROCONTROL and 51 European partners team up for a 3-year project aiming at the fully scalable market uptake of U1 and U2 U-space services



# U-ELCOME

We take off together



# U-ELCOME

The market uptake of U1/U2 services



**Demonstrations in 3 European countries**



**Interoperability**



**Targeting U1/U2 maturity levels TRL7/TRL8**



**Live operational environments**



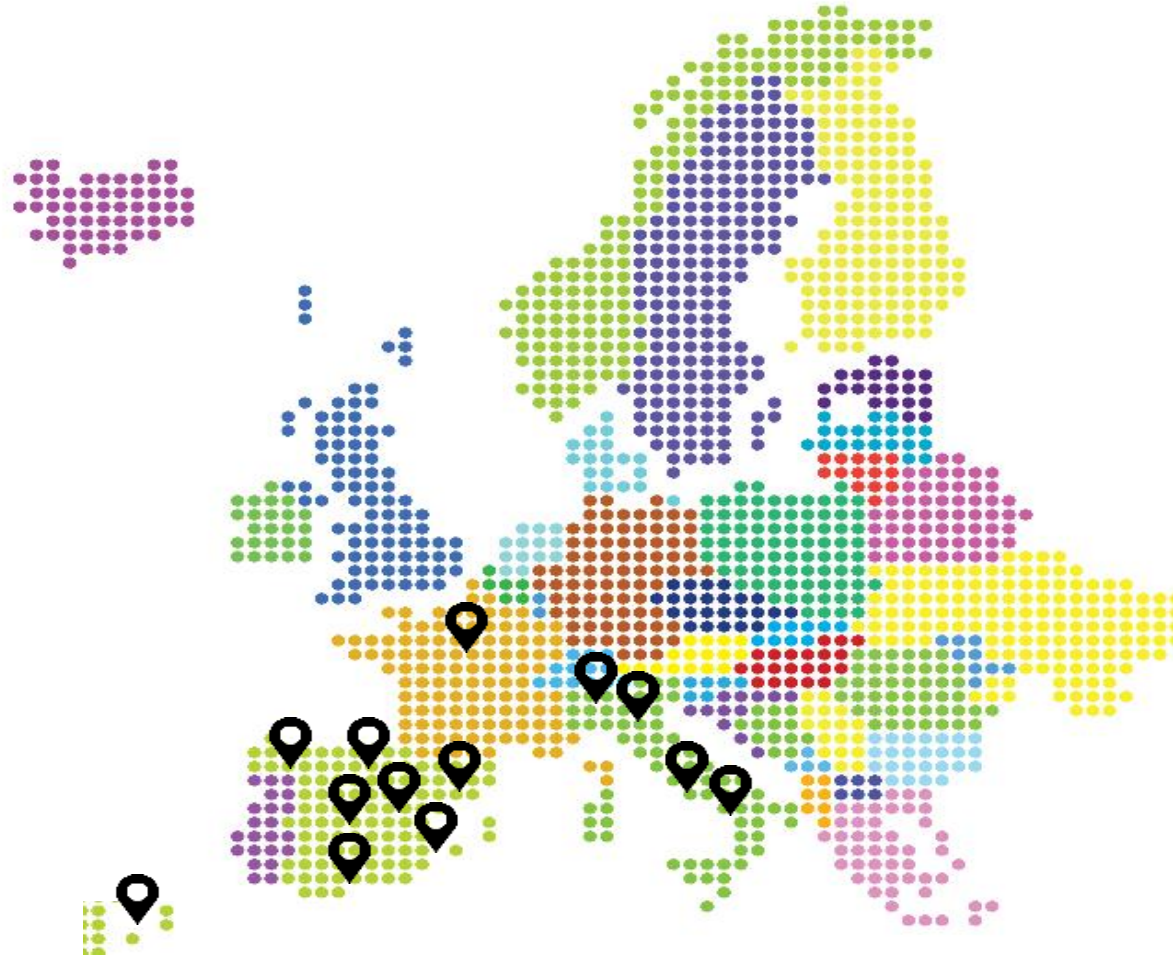
**Extrapolation to all over Europe**



# U-ELCOME

## Multiple sites

EU Nation	City
France	<ul style="list-style-type: none"><li>• Brétigny LF-R333</li><li>• Saint Quentin en Yvelines (5 sites)</li></ul>
Spain	<ul style="list-style-type: none"><li>• Navarra</li><li>• Catalonia Region</li><li>• Madrid</li><li>• Seville &amp; Jaén</li><li>• Zaragoza</li><li>• Fuerteventura (Canary Islands)</li><li>• A Coruña</li><li>• Valencia</li></ul>
Italy	<ul style="list-style-type: none"><li>• Milan</li><li>• Venice</li><li>• Rome</li><li>• Naples</li><li>• Others</li></ul>



### Several Environments

Urban

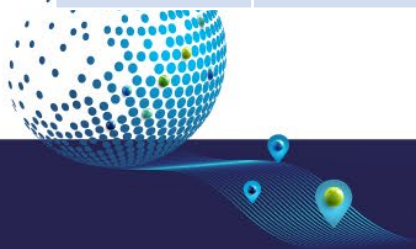
Rural

Sub-urban

Airport surrounding

Port surrounding

Other locations  
might be possible  
during the  
project



# U-ELCOME

Making a difference compared to the past R&I

## Now

- Research-oriented with ER and VLDs projects
- Developing prototypes
- Communicate with the local authorities



2016-2022

## U-ELCOME

- Business-oriented
- Deploying functional ecosystem
- Work with local authorities



2023 - 2025



## Future

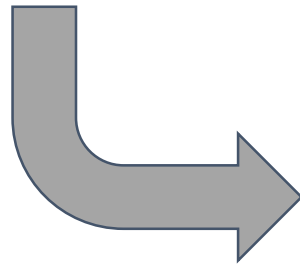
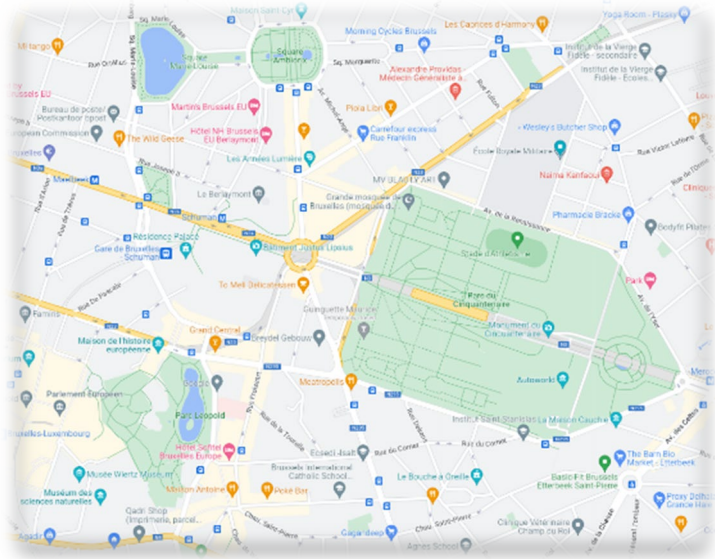
- Exploitation-oriented
- Full operational ecosystem
- Guidance material with solid Reg & Standards



>2025



# U-ELCOMÉ



## Vertical Deployment

UAS  
Capabilities  
Avionics  
MTOMs  
Other technical  
characteristics...

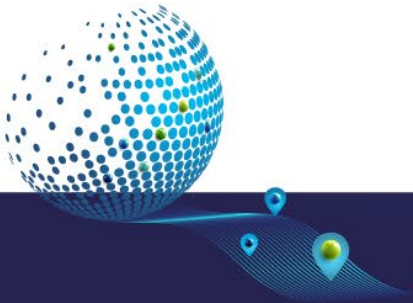
USSPs  
Capabilities  
&  
Technical  
characteristics

CNS  
Performances  
GNSS  
&  
Technical  
characteristics

AERONAUTICAL  
INFORMATION  
NOTAMs  
&  
Others

TYPE OF  
ENVIRONMENT  
Flight area  
characteristics  
Risk level  
Weather data

GROUND  
Population density  
Geographical zones  
obstacles...



# U-ELCOME

## A large spectrum of businesses



Goods & cargo delivery



Emergencies



Surveillance & inspections



People rescue



Medical parcel delivery



Media



Support to first aid operations



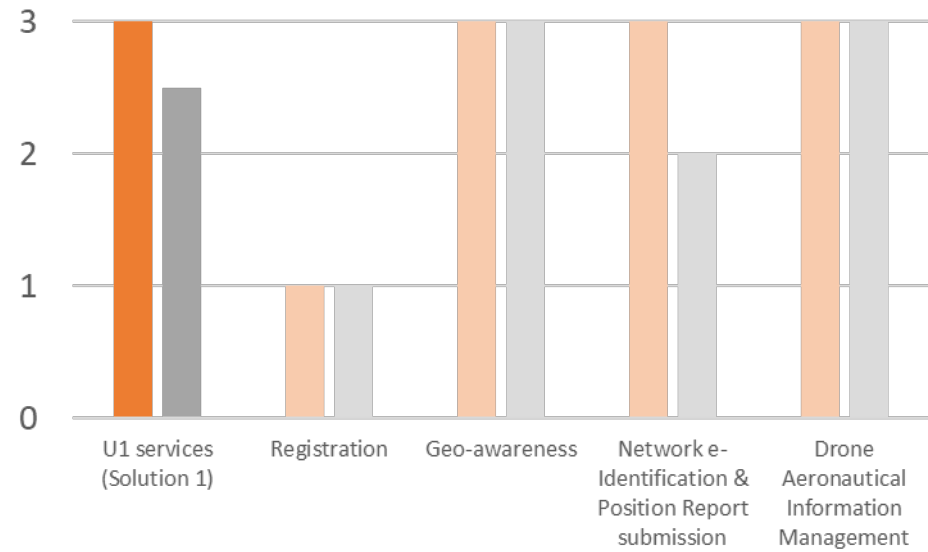
People Air Transport



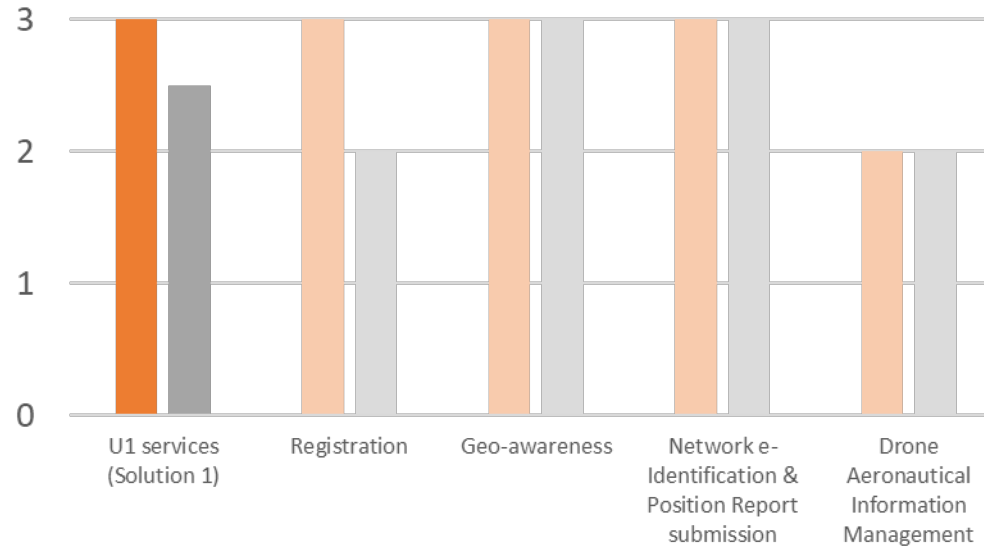


# U-ELCOME

### U1 - Espana



### U1 - Italia



### U1 - France



Robustness

Interoperability



# U-ELCOME

A European team to succeed

**CISPs**



**USSPs**



**ANSPs**



**DRONE OPERATORS**



**SMEs**



**AIRPORTS**



**INDUSTRY**



**TEST / R&D CENTRES**



**UNIVERSITIES**

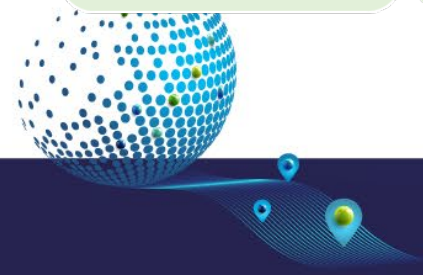
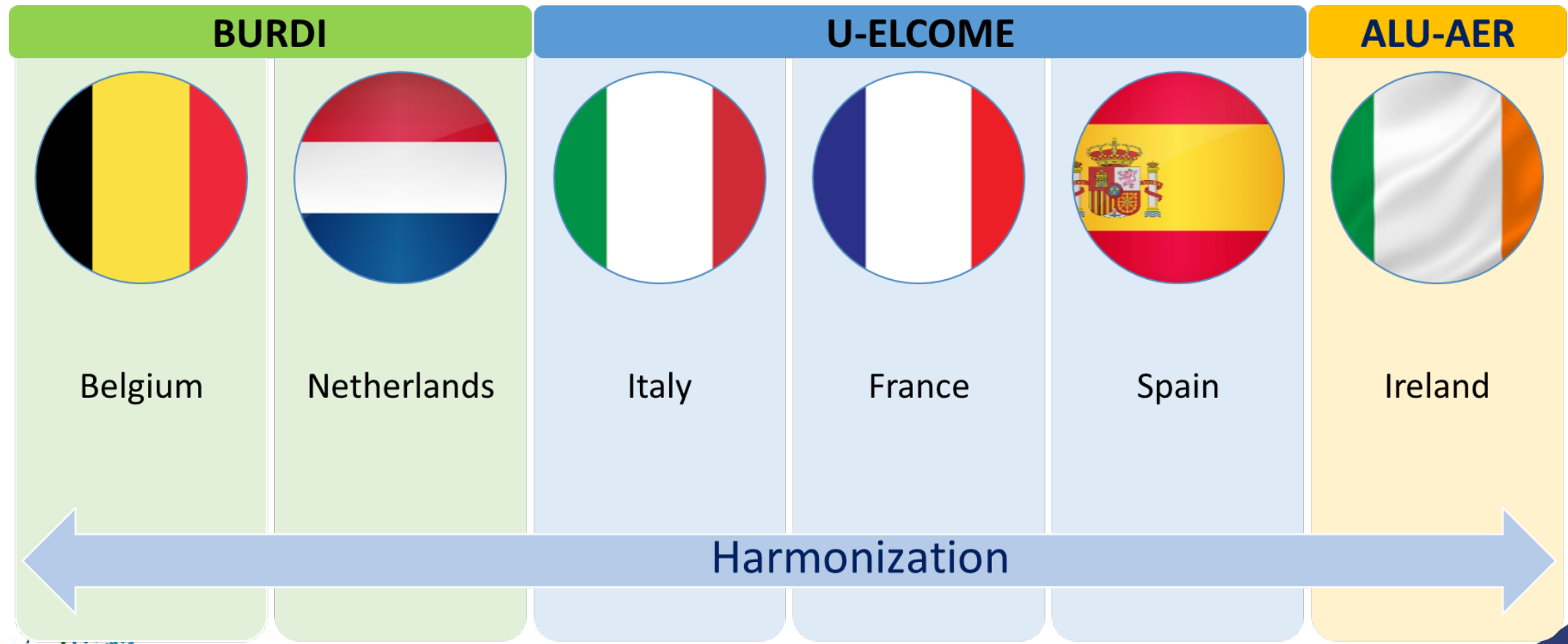


**LOCAL AUTHORITIES**



# U-ELCOME

A strong support to EU harmonization



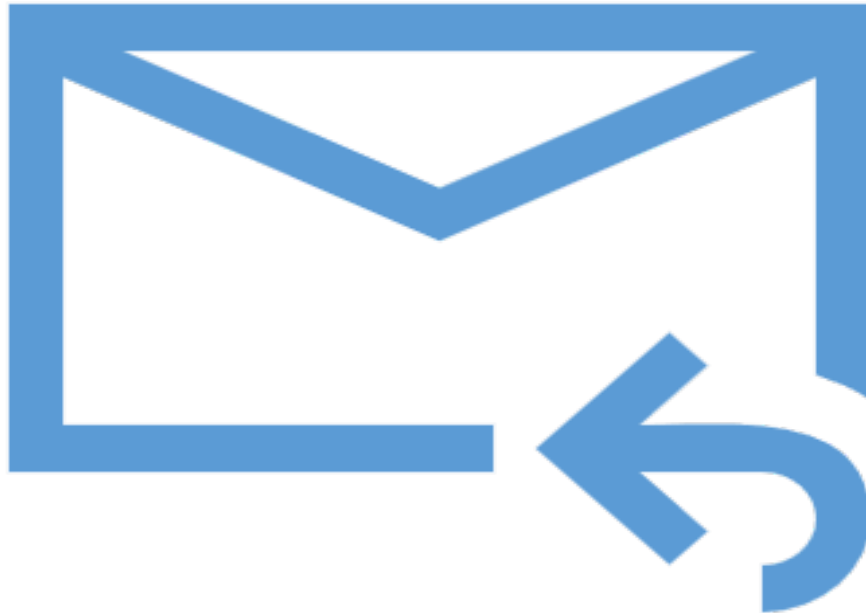
# U-ELCOME



	TODAY	2026
Maturity	Research & VLDs	Operational ecosystem
Business	Exploring business models	Allowing commercial operations
Vision	National perspective	Multi-national perspective
Regulation	Basic framework	Evidence-based framework
Society	Communication	Full engagement



# Contact us



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