



## INTEGRATION OF DRONES AT TOULOUSE AIRPORTS AND BEYOND

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# INTEGRATION OF DRONES AT TOULOUSE AIRPORTS AND BEYOND

## AGENDA

**Territory stakes**

**Economic and academic ecosystem**

**Airport, Smart City & Drones**

**Facilities**

**Stakeholders**

**EIP-SCC UAM Workplan**

# TERRITORIAL STAKES

AT OR UNDER OR ABOVE GROUND LEVEL? OR THE THREE OF THEM



+ 15 000 persons per year



Transportation Challenge



Sustainable Growth and  
Mobility



Transformation vision



VILAGIL

MUST



Typical multimodal mobility solutions in megacities  
~~do not~~ include air-mobility

## Urban Air Mobility



# ECONOMIC, RESEARCH AND TRAINING ECOSYSTEM

« HOW CAN I HELP YOU? »



# A DEPLOYMENT GAME FIELD

## BUT A SERIOUS GAME FIELD

### From simulations to live experiments

- SESAR1 RPAS Demonstration Project ODREA (Muret to Blagnac)
- Toulouse Occitanie Flight Arena
- Aircraft inspection

### Focus on drones integration in non segregated airspace

- a fast loop from research (ENAC, ISAE, ONERA, DSNA/DTI, etc. ) to regulation (DGAC, EASA) and standardisation (EUROCAE, EUSCG), in the framework of SESAR JU programs and the U-Space initiative

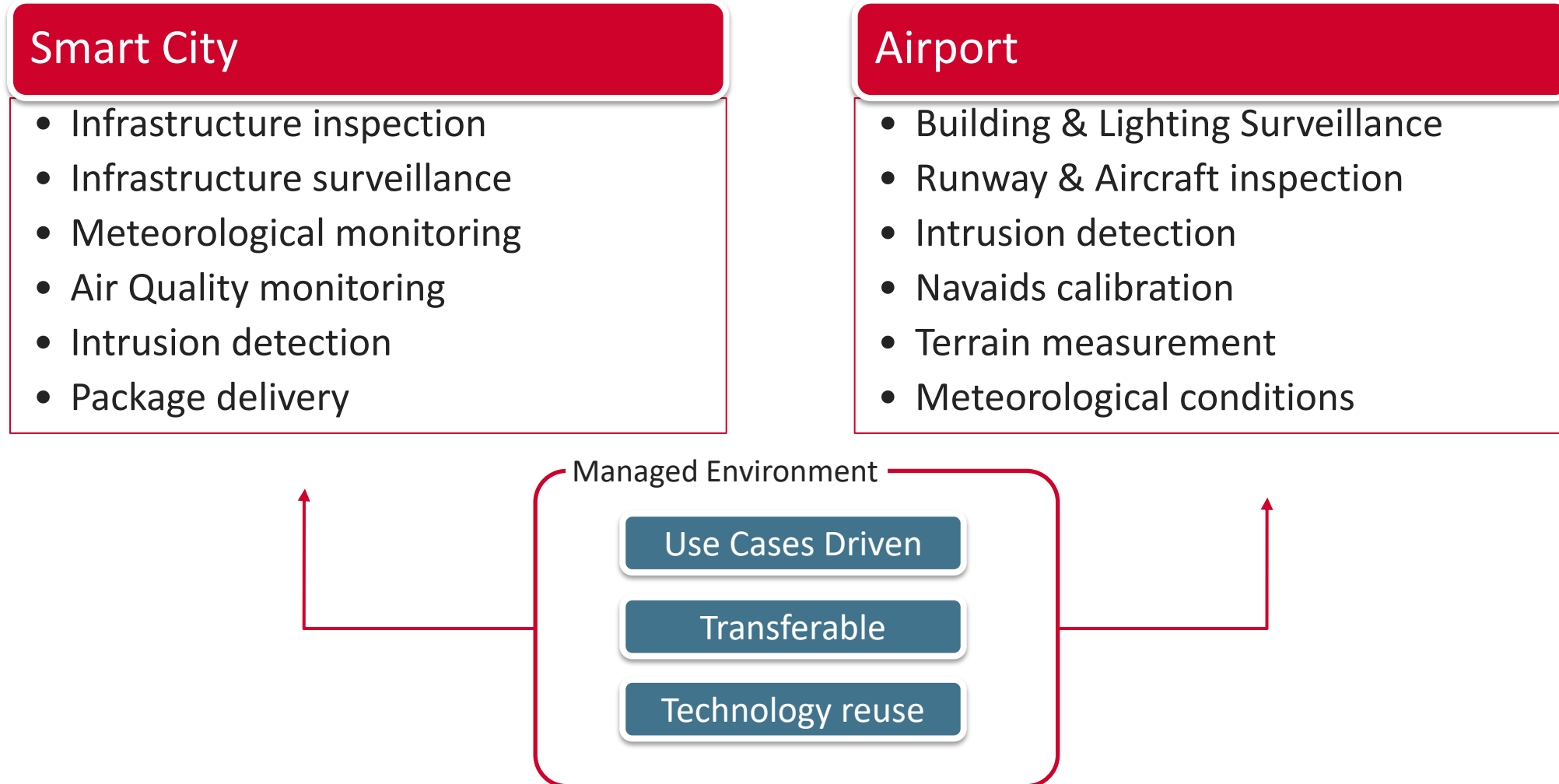
### Focus on the safety of 3D operations

- Drones use cases feed SORA
- Autopilot certification



# FROM SMART CITY TO SMART AIRPORT

## AND THE OTHER WAY AROUND





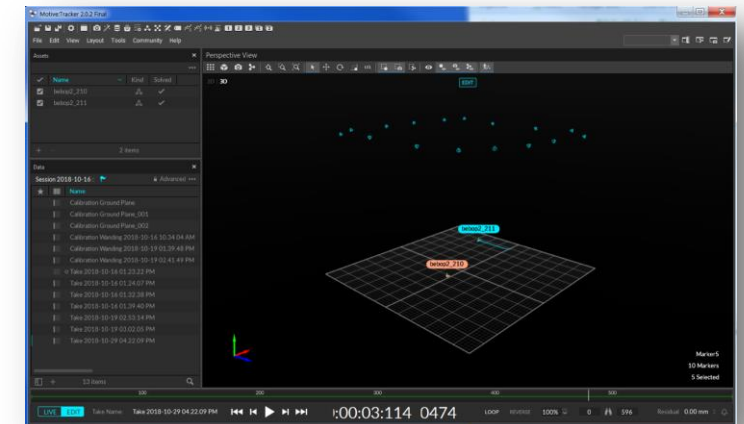
# A DEPLOYMENT GAME FIELD BUT A SERIOUS GAME FIELD

## Let's focus on 2 airports among 4

- Toulouse-Lasbordes
- Francazal
  - Drone piloting school
  - Drone competition
  - Land Mobility experimentation

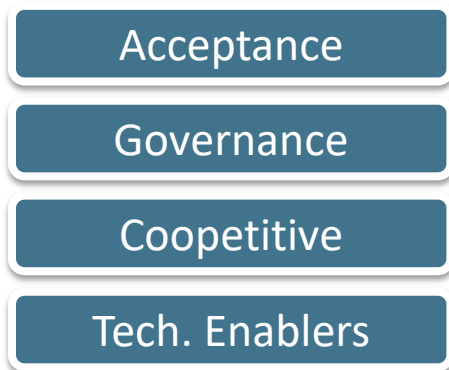
## Dedicated city area

- Montaudran site
  - An aviation piece of history
  - Drone to support infrastructure development
  - UTMS vision
- Toulouse Occitanie Flight Arena



# STAKEHOLDERS

## KNOCK KNOCK – WHO'S THERE?





# FOCUS AND NEXT STEPS : UIC2 – UAM INITIATIVE CITIES COMMUNITY

## AMONGST OTHER ONES

**UIC<sup>2</sup> : FrontRunners have become automatically members of European Network of U-Space Demonstrators**  
(launched on 19<sup>th</sup> Oct 2018 by the European Commission & managed by Eurocontrol)

### Emergency Management

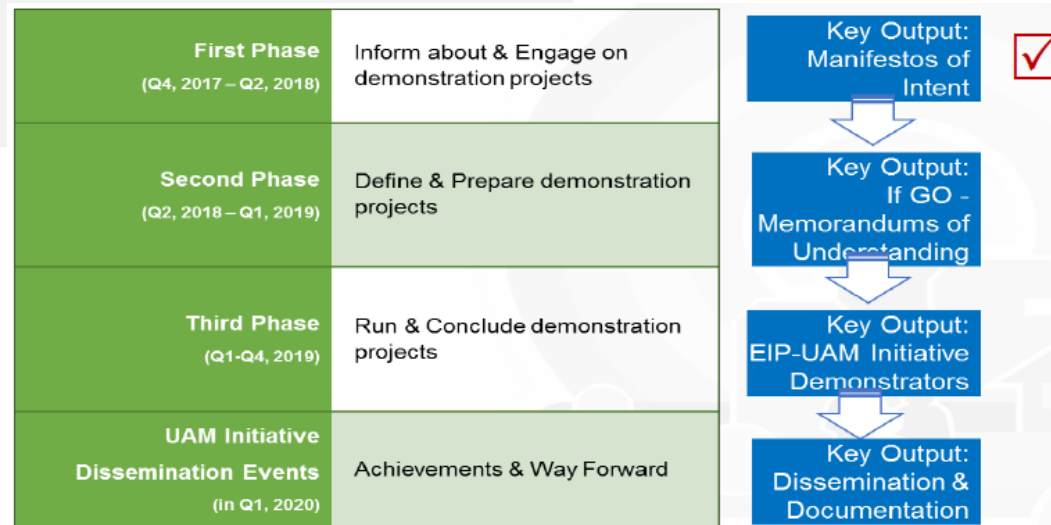
Drone ambulance for medical kit  
police surveillance for security  
fire detection and alarm

### Urban logistic

Drone taxi for the ambulance  
service and the city transportation

### Remote Sensing

Air Quality  
City Traffic Mapping  
Infrastructure monitoring





## QUESTIONS?

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