

# An Aviation Strategy FOR EUROPE



#AviationStrategyEU >



## **Drones: digitization and decarbonization**

### **An EU drone regulatory framework by 2019**

### **DG MOVE – 05 July 2017**

# What are we talking about?



It's all about AUTOMATION!

# How do drones fit into the wider picture?

- From aviation to mobility
- From hardware to digitization
- From kerosene to decarbonization
- From loose ends to connectivity
- From dumb things to the Internet of Things in Smart Cities

# How big will the drone service market be?

1. Conservative estimates: the EU drone services market will be worth at least €10bn by 2035
2. Optimistic estimates: more than \$100bn global market in the coming years (substitution)



# How can we promote drone technologies?

1. Keep threshold (and cost) as low as possible to integrate drone services into the value chain of EU businesses
2. Balance between embracing new technologies and protecting citizens' safety / security / privacy / environment
3. Common rules for manufacturers and operators to have access to a single market
4. Open up aviation to "silicon valley" technologies

## What are we doing?

1. EU rules to establish a common regulatory framework by 2019
2. U-Space Blueprint: vision paper on air traffic management for low level operations in place by 2019
3. Funding: SESAR – demonstrations – liaise with ongoing local projects
4. Dialogue: MS discussions + Industry experts group to help in steering EU drone policy



# Governance Overview

- Overview : Commission
  - Member States (EU DGs, EASA committee)
  - Industry: Informal Drone Experts Group
  - Technical experts group
- Rulemaking: EASA
  - NPA expert group
  - Expert groups on registration/identification/georencing
- R&D on integration: SESAR Joint Undertaking
  - Three working groups
  - Amend ATM Master Plan
- Standards development: Industry
  - EU Drone Standards Coordination Group
  - Managed by Eurocae



# Delivery Overview

- Delivery of legal basis: Parliament and Council
  - Extend scope + adopt basic rules
  - Under Estonian Presidency (end 2017)
- Delivery of rules: EASA
  - Rules on drones & operations
    - Rules on open category
    - Guidance
    - Scenarios for specific category
    - Rules on certified category
  - Airspace rules
  - Requirements for U-Space Services?
- Delivery of validated solutions: SESAR
  - Demonstrators to validate technologies
- Delivery of standards: Industry
  - Use existing standards?





# Countdown to 2019! Just in time delivery...

Thank you - Grand merci  
Danke schön - Muchas Gracias  
Dank je wel – Dziękuję – Grazie mille  
Obrigado – Efcharisto – Благодаря