



High-level roadmap to integrate all categories of drones in Europe

Florian Guillermet

High Level Conference on Drones, November 2017,
Helsinki



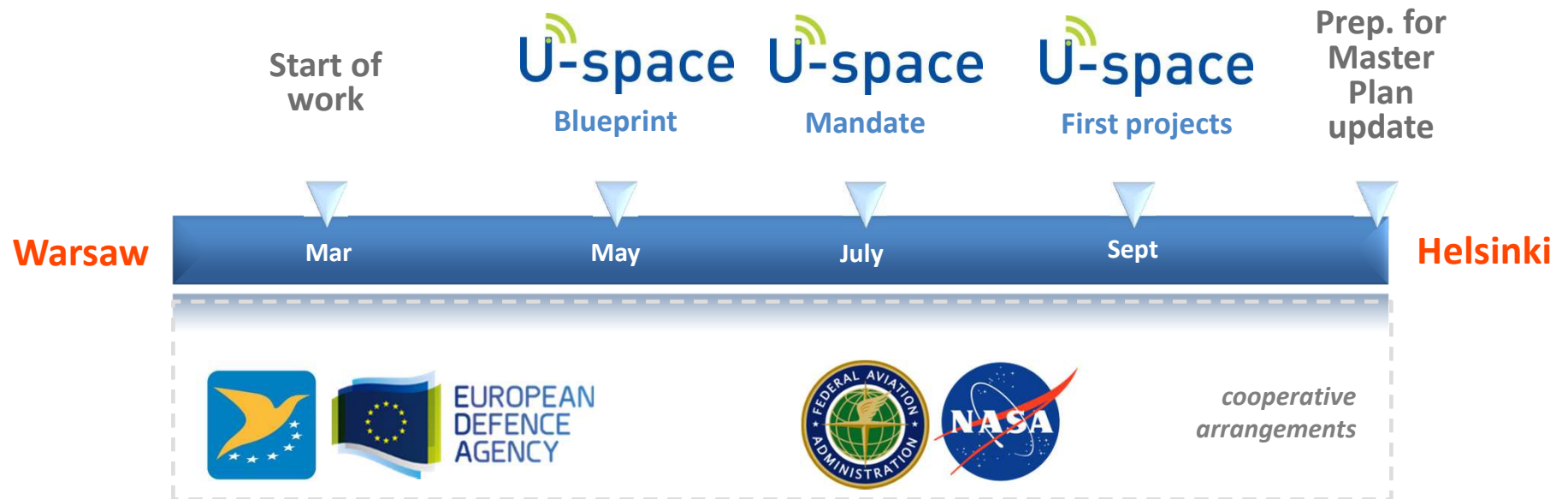
Founding Members



We've come a long way since Warsaw



- Blueprint and Master Plan delivered
- Launch of first U-space activities
- Working groups established involving all key stakeholders



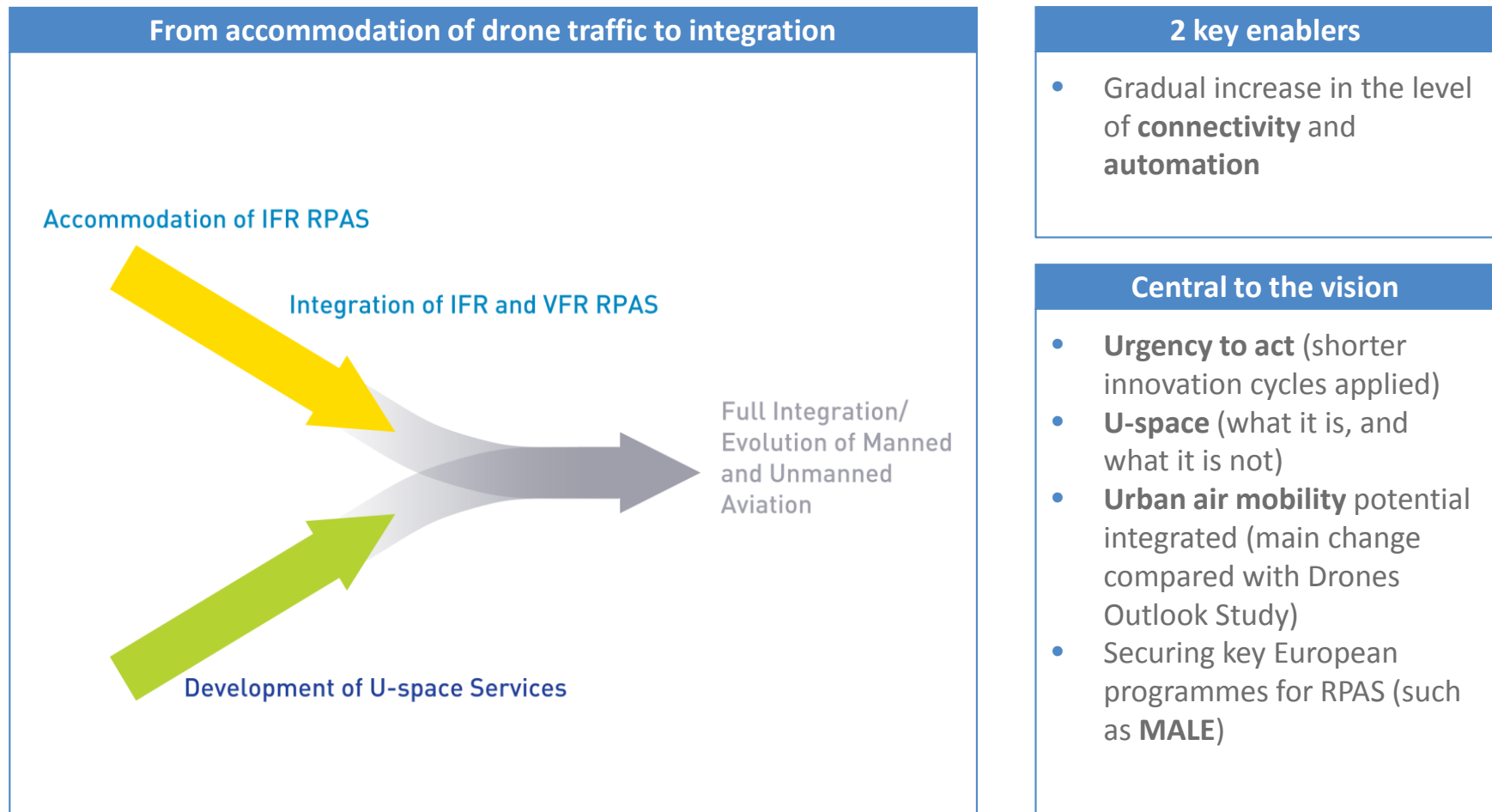
.... nice but how does it all fit together?

Vision for Europe now contains radically new solutions for connected drones in both rural & urban environment

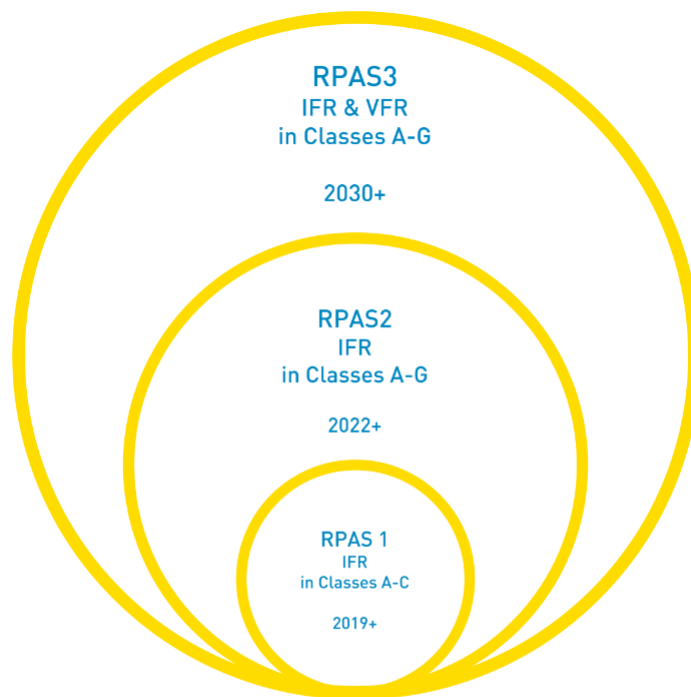


- New set of **digital data services**
- **Automation** of workflows on the ground
- **Interface** with conventional aviation
- Drones like any other **IoT** device: leveraging mobile and satellite communication networks
- **Autonomy** and D&A, V2X communication, high accuracy positioning
- **Safety**: dynamic geofencing, management of emergencies & contingencies
- **Security**: registration, authentication, Secure Drone2X communication

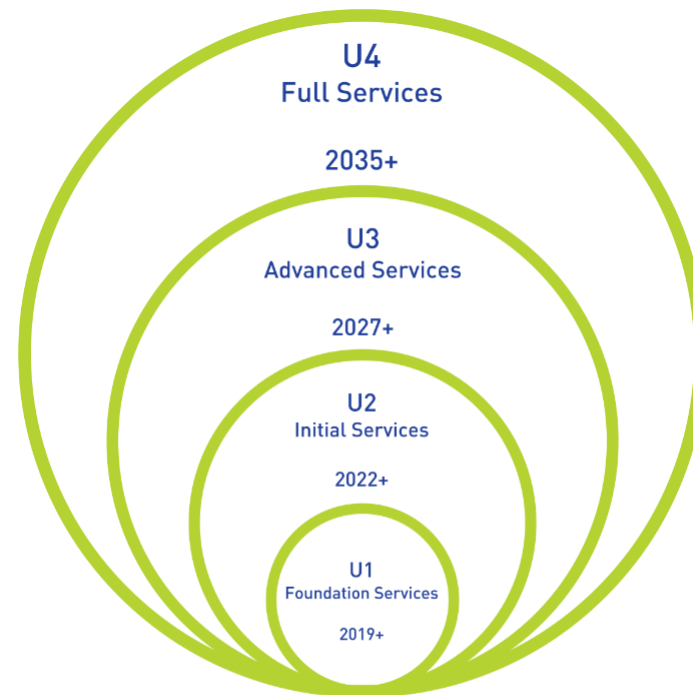
Vision defines what needs to be done and by when for the safe integration of all types of drone operations



The roll-out of each new phase should be seen as a high-level sequence for EU-wide harmonisation



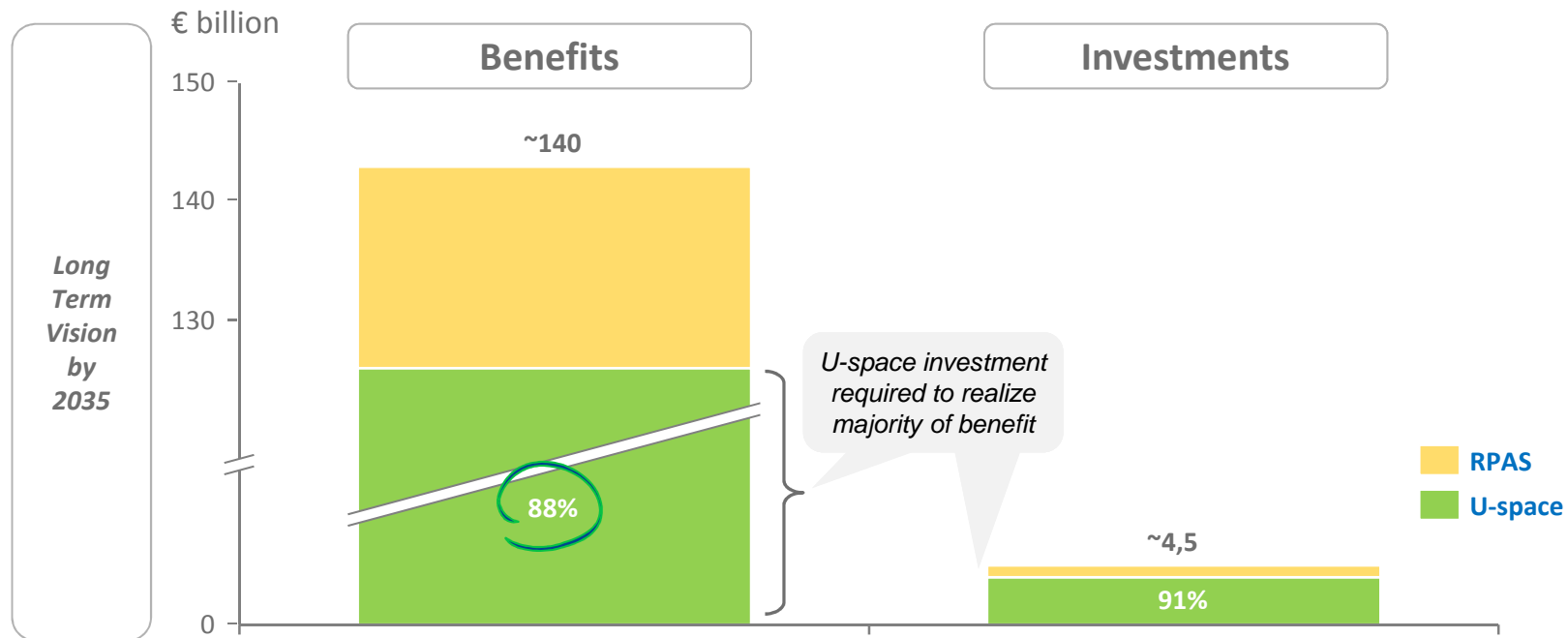
RPAS



U-space

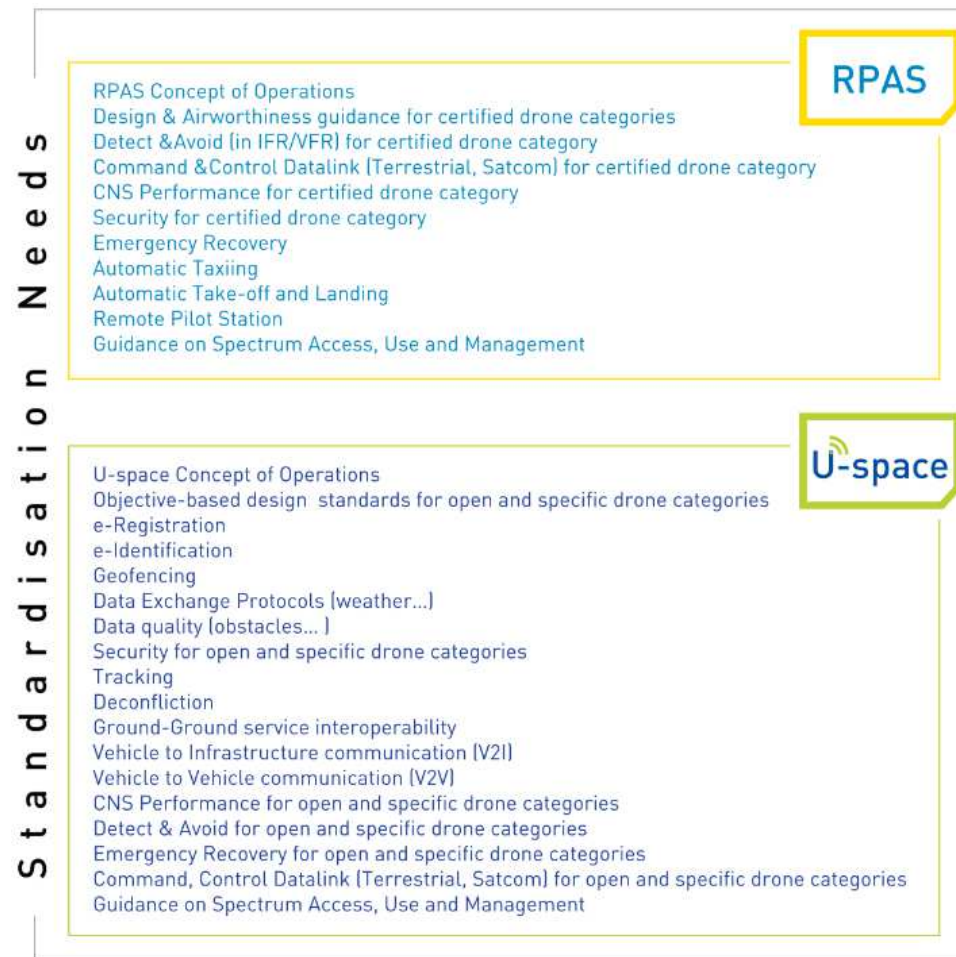
Implementations can be fast-tracked in parallel at local level and for certain types of operations of lower risk and complexity

Investments needed to secure the safe integration of drones represent small fraction of overall value at stake for Europe



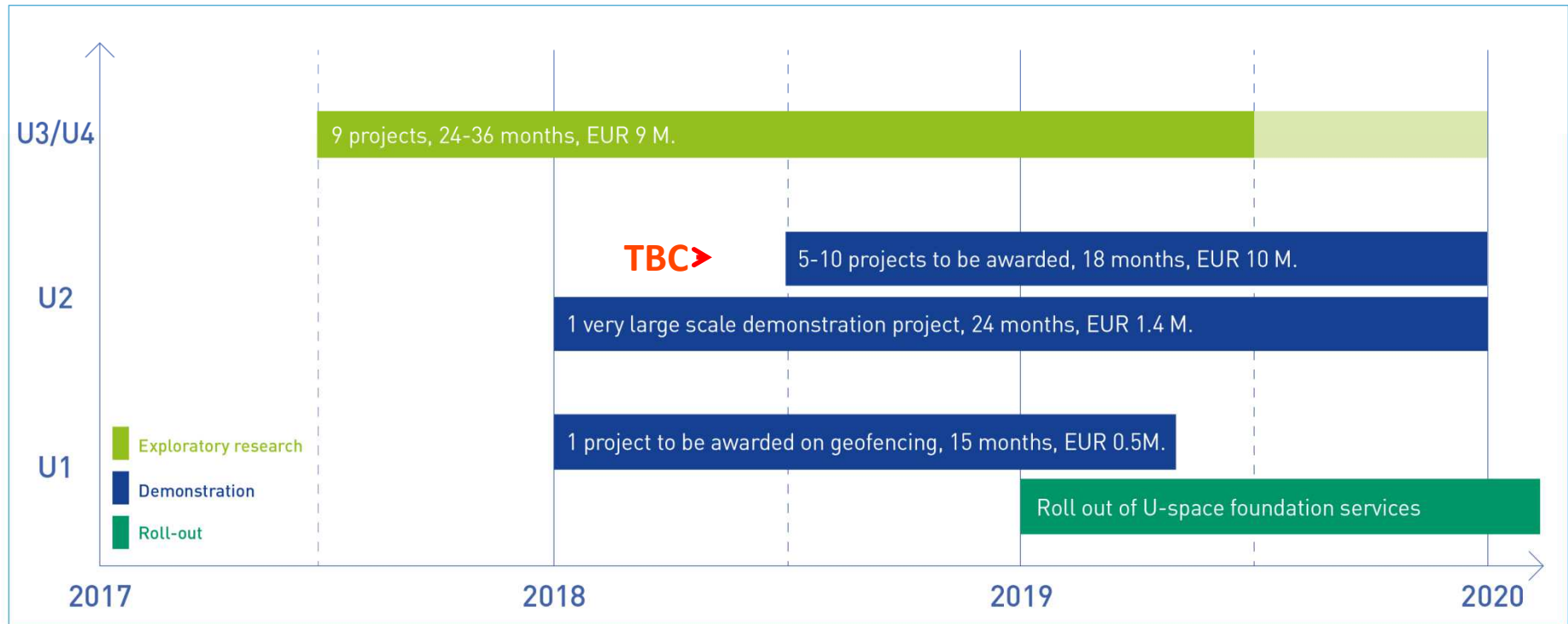
By 2035, cumulative benefit will reach ~140€ billion; cumulative investment levels anticipated at ~4,5€ billion; U-space on the critical path

Setting the next generation standards will be a global race, it is now essential to re-align and focus efforts



Need to bring level of collaboration in the industry and with new entrants to a whole new level to rise to this challenge

This is exactly what we are doing in practice ... example for U-space



Shorter cycles of “exploring and testing” will be central to SESAR’s new way of working from now on !