



A Spanish view of U-space service provision, technologies and services

Pablo Sanchez-Escalonilla, CRIDA - ENAIRE



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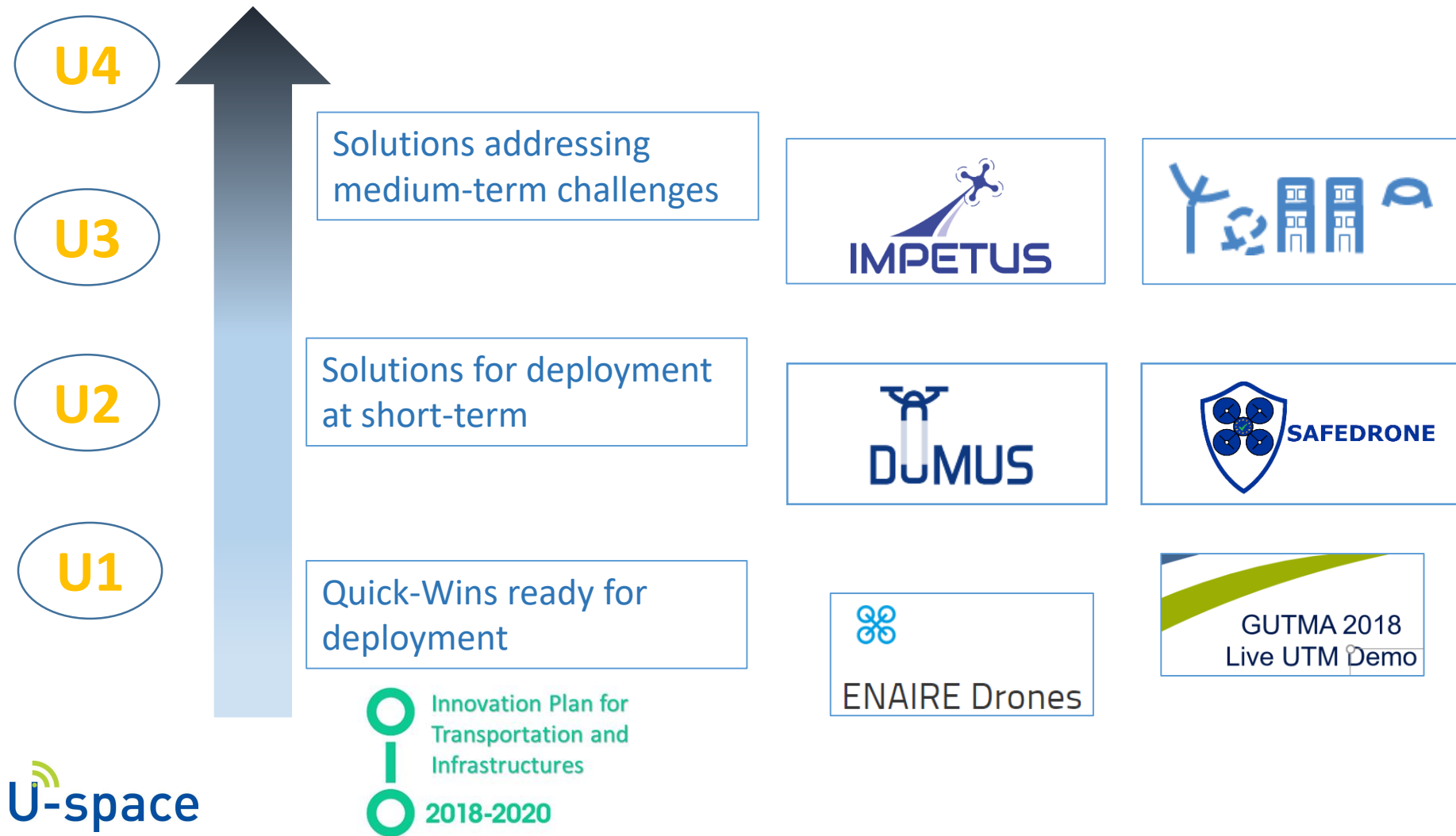


Context

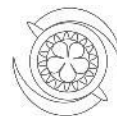
“Drones represents a genuine opportunity which requires immediate EU actions” (SESAR European Drone Outlook Study - November 2016)



U-space and the Spanish initiatives



Collaborations

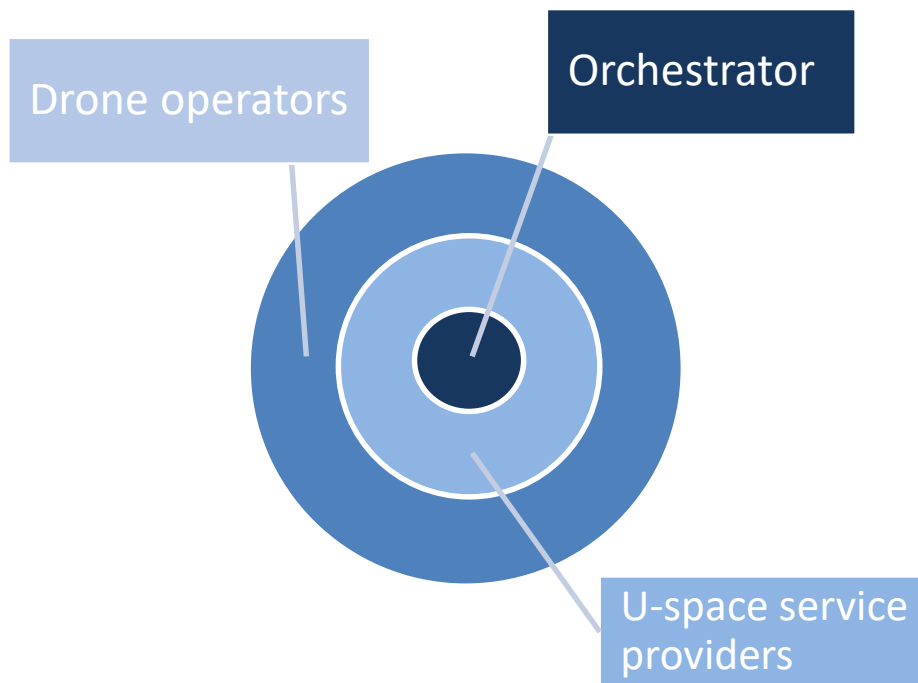


U-space webinar sessions



U-space deployment at short-term

VLOS and BVLOS simultaneous operations can be safely managed **in rural and sub-urban areas** through operation plan management and position reporting i.e. U1 and U2 services.



- **Federated architecture** with several U-space Service Providers simultaneously providing services to drones in the same geographical area, and one centralized role.



U-space solutions at medium-term

Most of
them exist
today

The number of drone operations and diversity of business models, **specially in urban environments**, make necessary to evolve towards new technological solutions.

Microservice-based design

addresses the principles requested to the future U-space architecture.

- ❑ Flexibility to assign and proportionally bill computing resources when needed.

Automation is a 'must' for the implementation of U3 services.

- ❑ Services will manage multiple factors varying dynamically such as weather or CNS performances.



Flexible &
Cost-
adaptive



In conclusion

No major constraints were identified that prevent the **deployment of U-space U1 and U2.**

Centralized role and
several USSPs



Progressive
delegation of safety-
critical services to
the USSP





THANK YOU FOR YOU ATTENTION



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