



Urban Air Mobility: Set up drone demonstrations

Dr. Maria Kamargianni

Associate Professor of Transport & Energy, Head of MaaS Lab
MaaS Lab, Energy Institute, UCL



www.maaslab.org

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The HARMONY project

Vision

Develop a **new generation of harmonised spatial and multimodal transport planning tools** which comprehensively model the dynamics of the changing transport sector and spatial organisation, enabling metropolitan area authorities to lead the transition to a low carbon new mobility era in a sustainable manner.

Demonstrate in real life conditions:

- AVs for passenger and freight
- Drones for freight

More information: <https://harmony-h2020.eu>



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HARMONY drone demonstrations

Oxfordshire

- Drones demonstration - Freight: carrying parcels within Milton Park
- Integration and demonstration of UTM (Unmanned Traffic Management) & UTMC (Urban Traffic Management Control)
- Drones collaborating with AVs - Freight (microdepots)
- Acceptance surveys to stakeholders (before & after the demo)

Trikala

- Drones demonstration - Freight: carrying medicines from the city to surrounding villages
- Acceptance surveys to stakeholders (before & after the demo)
- Acceptance survey to citizens

GZM

- Working with stakeholders to specify various UAM use cases
- Acceptance surveys to stakeholders for the identified use cases
- Acceptance survey to citizens for the identified use cases
- Potential drone demonstration (use case is under specification)



Drones to be demonstrated

Heavy and light-lifting drones (5kg to 100kg) provided by Griff Aviation



Working to provide recommendations for Sustainable Urban Mobility Plan

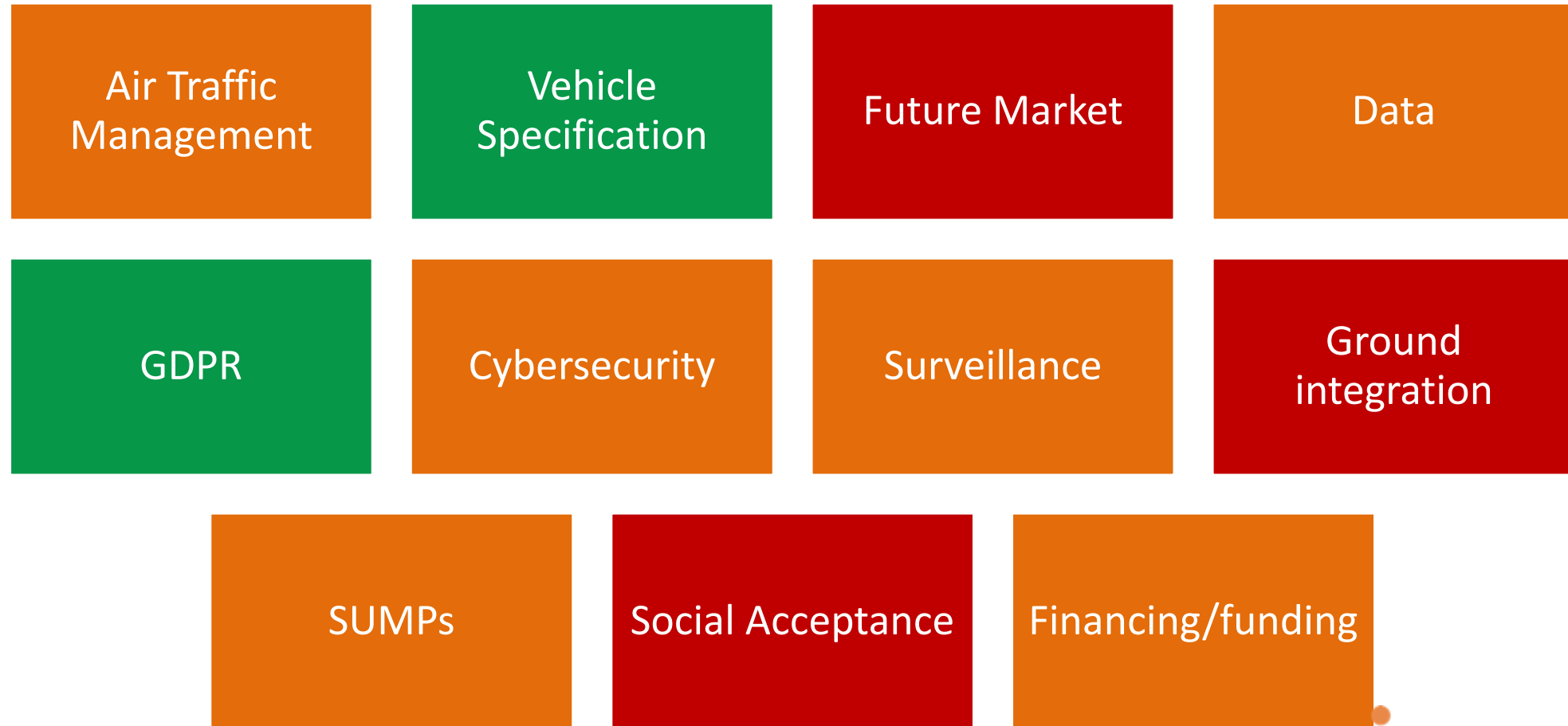
- Clear recommendations regarding SUMP's but missing air component
- Importance of integration with logistics (SULPs) when discussing UAM
- Where does UAM interact with the ground?

Building on policies in place, technical opinions, UAM blueprints, project experience and workshop outputs

- Flights in urban areas at low altitudes are currently heavily restricted
- Disjointed regulatory frameworks across topics and countries
- U-SPACE (air traffic management, vehicle specifications, future market), IT (data, privacy, cybersecurity), Urban Planning, Public Acceptance
- Bringing together a range of stakeholders for a coherent collaborative solution to enable progress



Current Gaps



HARMONY consortium

21 partners from 9 European countries



www.harmony-h2020.eu



Harmony-H2020



Harmony_H2020



CITTA DI TORINO



transport for athens



e-trikala

Metropolis^{GZM}



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Thank You!

Maria Kamargianni

m.kamargianni@ucl.ac.uk