





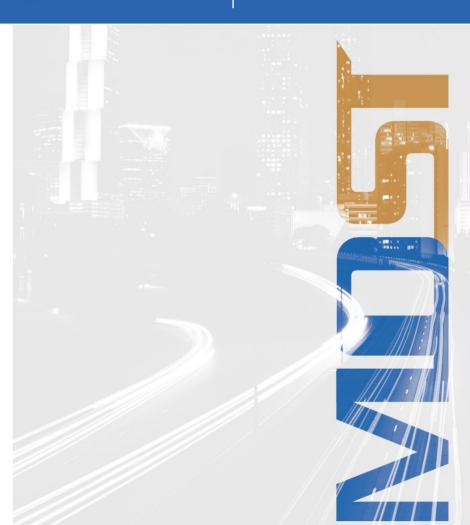


26/07/2023 – Presentazione bandi a cascata Spoke 1 Air Mobility

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CN 00000023 – Centro Nazionale per la Mobilità Sostenibile PNRR M2C4 – Inv. 1.4





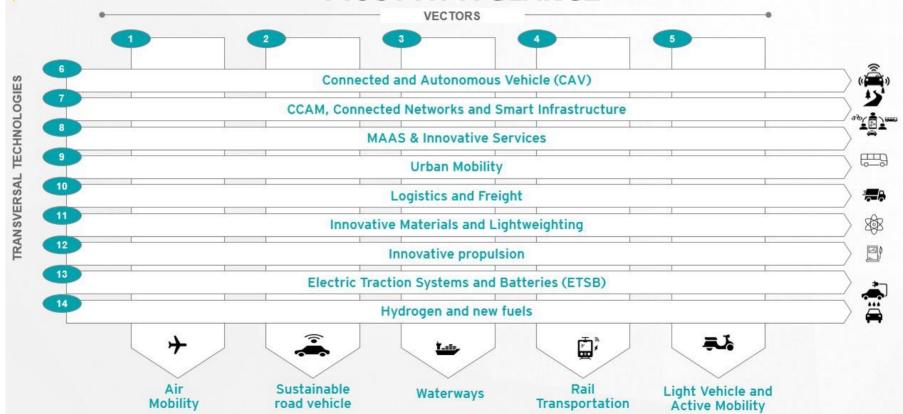








MOST AT A GLANCE









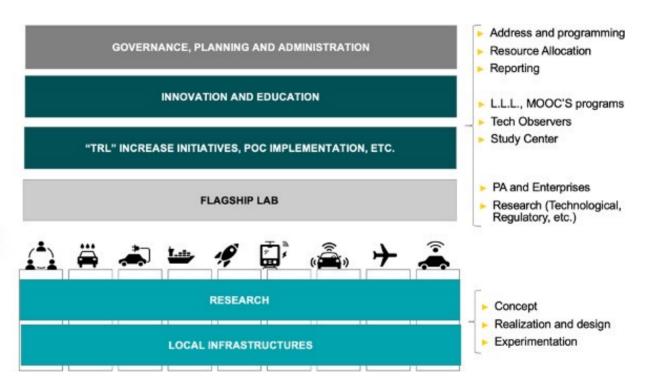




GOVERNANCE MODEL















Spoke 1: actions and objectives

SPOKE-WIDE











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LOCAL





















GOALS OF THE PROJECT







- INCREASED RANGE FOR DRONES USED FOR MIDDLE MILE DELIVERY: hybridization of existing platforms
- DEMONSTRATE FULLY ELECTRIC PROPULSION ON A GENERAL AVIATION AIRCRAFT
- CONCEPTUAL DESIGN OF A HYBRID 50pax REGIONAL AIRCRAFT









WP BREAKDOWN (1/2)

WP1: Sustainable design and social acceptance for urban air mobility with demonstrator

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OBJECTIVES	METHOD
The research will focus on the methodologies to evaluate and minimize the impact of AAM on the urban environment as required by the SRIA Agenda	

WP3: Enabling technologies for next generation air mobility with demonstrator









OBJECTIVES	METHOD
Development of data-based strategies for next	Use of Virtual Reality for VTOL operations;
generation air-mobility, ecompassing solutions	AI-based design of innovative solutions.
for infrastructure, operations and	
nerformance	

WP2: Disruptive technologies for electric and hybrid propulsion aircraft with demonstrator



OBJECTIVES		METHOD
	-	Data-driven based optimization and analysis of the aircraft perfrormance and the thermal management system.

WP4: Scalable, Safe and Silent next generation aircraft with demonstrator









OBJECTIVES	METHOD
Development of data-based strategies for	
next generation air-mobility, encompassing	The activities of this WP will converge in the
solutions for infrastructure, operations and	development of at least two Spoke-wide
performance.	Demonstrators











WP BREAKDOWN (2/2)

WP5: Multidisciplinary design optimization and innovative solutions for next generation green aircraft with demonstrator









OBJECTIVES

METHOD

Develop computer aided design and analysis Digital twin of aircraft subsystems for their methodologies for innovative propulsion analysis and integration. Advanced simulation systems and advanced air mobility. Innovate systems and models for innovative propulsion. the risk analysis tools to account for the The activities of this WP will converge in the operations of AAM vehicles in several development of at least two Spoke-wide **Demonstrators**

WP 7-T Digital twins and threads: a new paradigm for aircraft design and maintanance with demonstrator



scenarios.



OBJECTIVES







METHOD

accenture

Develop the capabilities of digital twins and	Development of digital twins models of the
threads aimed at aircraft design and	innovative propulsion system, aircraft design and
maintenance.	maintenance. strong interaction between high-
	fidelity simulations, reduced-order models and
	data-driven approaches in a multi-disciplinary

framework.

WP 6-T A challenge for aviation: business models for electric aircraft and digital innovation with demonstrator



goods flows.

UNIVERSITÀ DEGLI STUDI



OBJECTIVES

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forecasting,

To identify market opportunities for the Market introduction of electrical aircrafts, and to environmental identify and test digital innovation at airports behavior in airports

METHOD

Economic

and

assessment, **Passengers** to enhance passenger service and improve the The activities of this WP will converge in the

development of at least two Spoke-wide **Demonstrators**











OPEN CALLS

- Total funding: € 1.998.714
- Climate constraint >36% of the action
- **Digital constraint** >15% of the action
- Topics covered in the open calls: See "Allegato 3" of the call

SAVE THE DATE!

Azione	Data
Apertura della Cascade Call	25 Luglio 2023
Cut off	31 Ottobre 2023
Valutazione delle proposte	26 Luglio - 30 Novembre 2023
Inizio delle attività finanziate	1 Gennaio 2024













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