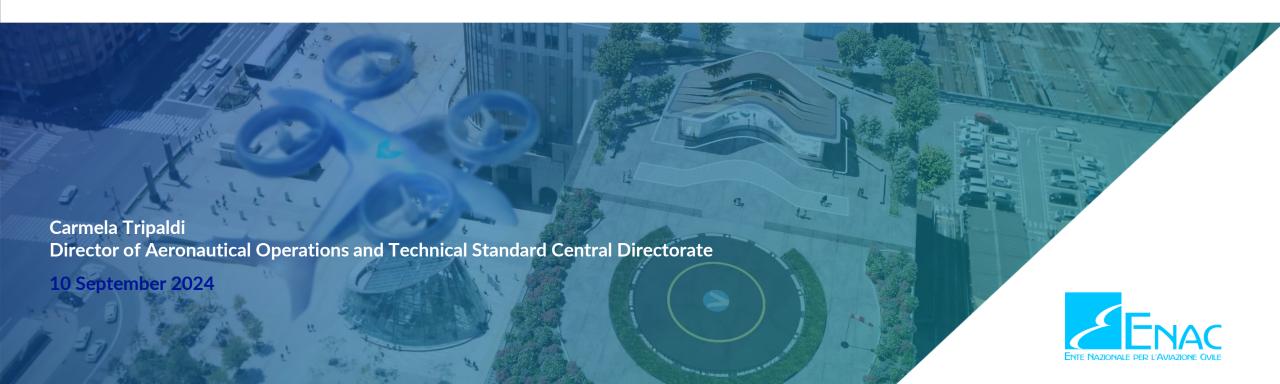


Facilitation in Advanced Air Mobility



Emerging Aviation Technologies

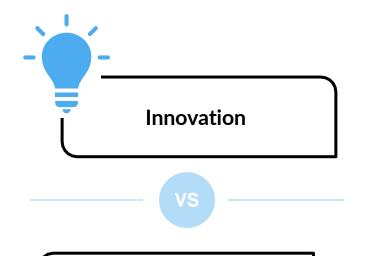
A New Era

- AAM reimagines services, business models & ways to move people and cargo
- How might facilitationrelated regulations and tools evolve?



A **balanced strategy** must promote technology, protect rights, ensure security, and understand people's needs

The Pace Problem





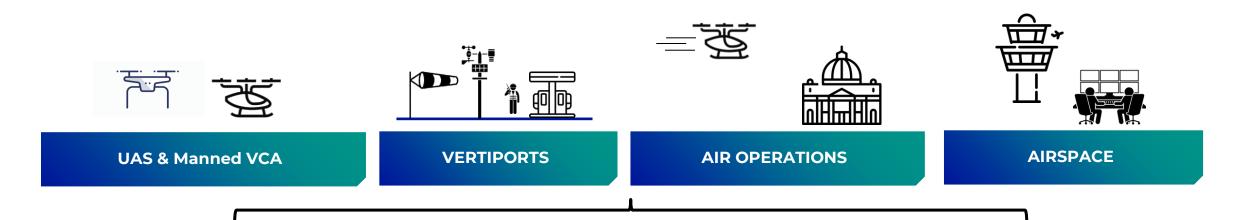
Italian Strategy

- A national AAM ecosystem in line with EU policy
- Integrate sustainable air mobility services in the traditional transport network (Mobility as a Service)
- Public & Private investment model



ENAC

Regulatory Framework A set of measures to address AAM challenges and ensure safe operations



EU-EASA

Reg EU 2019/945 Reg EU 2019/947 Framework U-Space

UAS operations

PTS-VPT-DSN



Prototype Technical Specifications for the Design of VFR Vertiports for Operation with Manned VTOL-Capable Aircraft Certified in the Enhanced Category SC-VTOL Reg EU 2024/1111



- New VCA category
- Flight operations
- Inter/regional/ Urban environment
- Interaction with other manned and unmanned traffic

IT - ENAC

National Manned VCA Regulation



- Part 1: Airspace Design Criteria (Flight Corridors
 VCA enhanced)
- Part 2: VCA enhanced operator requirements
- Part 3: Requirements for the construction and operation of vertiports (ref.EASAOpinion 03-2023and the PISMPIDSN)

SandboxRegulation



The Sandbox benefits from a simplified transitional framework

Pilot Project | Air Taxi in Rome









- Commercial service, aimed at citizens and tourists
- It should be available during the 2025 Jubilee year
- It also aims to demonstrate the benefits that can be obtained from AAM in the passenger transport and tourism sectors and also healthcare applications.

CIA Airport



Pilot Project | Air Taxi in Rome | First Steps to Facilitation





Enhanced passenger experience → increased social acceptance



Vertiports in airports: passengers and luggage flow



Smooth security controls, proportional to the real risk



Pilot Project | Air Taxi in Rome | Existing Passengers Experience



An efficient passenger experience, supported by sustainable, mature and stable solutions, can increase social acceptance

Challenges



- INCREASING DEMANDS OF TIME AND SPACE
- DOCUMENT CHECKS HAVE BECOME MORE HI-TECH BUT COMPLEX (E.G., HEALTH STATUS, VISA ELIGIBILITY ETC.), NOW PHYSICAL IDENTITY VERIFICATION
- SHARE TRAVELER DATA IN ADVANCE
- STAFF SHORTAGE
- WELL DEFINE AND CLEAR REGULATORY UPDATES

QUEUES AND DELAYS AT THE AIRPORTS

POOR TRAVELLER EXPERIENCE

INEFFICIENT AND EXPENSIVE PROCESSES

AN INCREASE IN FRAUD AND SECURITY ISSUES

Global trends shaped by customer expectations



WILLINGNESS TO USE BIOMETRICS AND FACIAL RECOGNITION TECHNOLOGY



SAFER, SEAMLESS & TOUCHLESS BORDERS



DIGITAL IDENTITY FOR MORE SECURE AND EFFICIENT TRAVEL BASED ON ABSOLUTE CERTAINTY



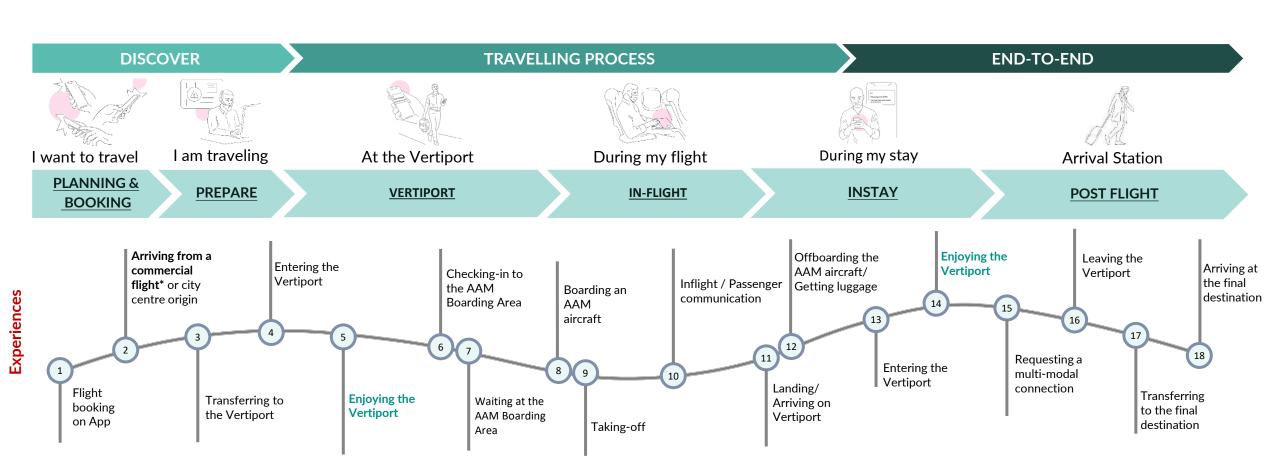
CONTACTLESS INTERACTIONS IN A HYGIENE CONSCIOUS WORLD





Pilot Project | Air Taxi in Rome | Passenger experience

Only an efficient passenger experience, supported by sustainable, mature and stable solutions, can increase social acceptance





Lesson Learned- What is necessary!



VALUE DRIVERS - IDEAL SITUATION

Efficiency

Process large volumes of travelers without requiring manual intervention

- No manual document checks at vertiport
- As many passenger information as possible are handled online in advance
- Travelers can check in online as normal
- Online process also connects to immigration authorities avoiding carrying documents
- Low cost to VTOL operators using the platform thanks to efficiencies of scale

Security

Minimize the frequency of fraudulent identification

- Passenger information is confirmed against government databases
- Minimal need for manually reviewing paper documents
- Where paper documents are used, best efforts are made to ensure validity
- Creation of sanctions for attempting to use fake documents

Safety and Privacy

Improve/ reduce interaction between airline/vertiport staff and travelers

- Travelers are largely self-service throughout vertiport journey
- Ineligible travelers do not come to the vertiport
- Travel provider systems and staff do not directly handle fake information
- Travel provider systems do not improperly store passenger information

Simplicity

Make the process of traveling as simple as possible to drive business

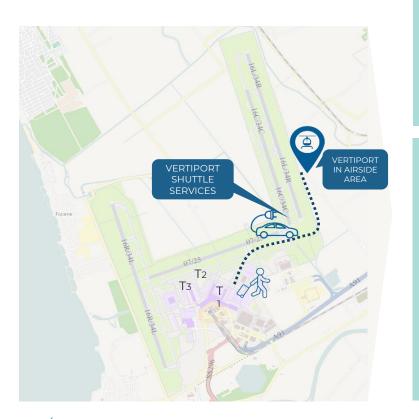
- Travelers can validate their information (e.g., ID, weight, health status) with minimal work – even automatically based on information already held by the VTOL operator, and can enable interline travel with one validation
- Minimal complexity (use of separate websites, multiple forms, re-entering data, etc)
- Repeat travelers can reuse existing credentials
- Simple digital technology/system solutions by travel provider



Case study: Passenger and luggage flow in Fiumicino airside vertiport



The passenger and luggage flow was studied in order to enable direct connections at FCO airport between conventional flights and eVTOL flights from/to Rome city vertiport.













In the vertiport there is no personnel available representing the carrier for the onward flight; beyond the problem of transporting luggage in the hold of the plane, it is therefore necessary to consider the issue of checking in the hold luggage which must be carried out at the airport.

In case of hold luggage

ARRIVING

DEPARTING

Considerations for ICAO Annex 9

Coordination between facilitation and aviation security

Art 1.6.1

A security risk based approach is necessary in order to support the new AAM industry.

Designated custom vertiports

Article 10 & Aeronautical Information Services (Doc 7383).

It may be necessary to introduce the concept of "designated custom vertiport" for cross border operations where the vertiports area are located near country borders.

FAL Programme

National FAL programme to be updated in order to consider AAM

It may be necessary to introduce the concept of a "Vertiport FAL Programme".