EPATS+

European Personal Air Transportation System – Study Plus

Coordination and Support Actions (Supporting)

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AAT.2010.7-12. Assessing and further developing the role of small aircraft in the air transport system

Expected impact: Proposals should demonstrate contributing to an improved understanding of the role that small-size aircraft operating on scheduled or non-scheduled flights can play as a component of the air transport system to satisfy the needs of transportation in regions where transport networks are underdeveloped.

Scope: Study to develop a road map and supporting business case to address the benefits of the use of small aircraft as a component of the air transport systems. The task will identify the technologies necessary to meet the safety, environmental, operational and economic requirements, including integration into the European ATM environment, ensuring complementarity with SESAR. The implications of the safety regulation process as it applies to small aircraft will also be considered. The existing capabilities in the Member States and Associated Countries regarding this sector should be assessed.

Funding scheme: Coordination and Support Actions aiming at supporting research Activities
STRATEGIC OBJECTIVES:

- Improving the energy efficiency of all modes of transport (according “European Strategy for Transport”),

- To give travellers a free choice of transport mode – according to their need, and limited by their time value,

- Revitalization European GA Industry and Regional Airports by opening European demand for Small Commercial Aircrafts and creating economy reasonable new component of Air Transport System.
The Goal of the EPATS+ (CSA-SA)

- The goal of the EPATS+ Study (CSA-SA) proposal is to demonstrate contributing to an improved understanding of the role that small-size aircraft operating on scheduled or non-scheduled flights can play as a component of the Air Transport System to satisfy the needs of transportation in regions where transport networks are underdeveloped.

- The EPATS+ Study (CSA-SA) project will be a very important tool to support the European Commission in defining appropriate actions and a roadmap to implement the Agenda for Sustainable Future in Business and General Aviation that was recommended by the EU Parliament Resolution on 3rd February 2009.
Main Issues of the EPATS+

- Definition of a **common vision** of the small aircraft transport system for inter-regional mobility through the identification of the corresponding requirements. The requirements will identify the technology needs and regulatory issues to be addressed.

- Definition of a **business case** compliant to the identified requirements which describes the relations among all the system’s components.

- Assessment of **current capabilities** versus the ATS demand, collection of previous results and involvement of the stakeholders in Europe among all actors (manufacturers, research establishment, EASA, airspace users, infrastructure providers, airport managers, small aircraft service providers).

- Definition of a **roadmap** to fill the technology/regulatory/operative gaps in order to fulfill the requirements considering the current capabilities. Identification of dissemination actions and establishment of a network of stakeholders.

- Assessment of **risks and benefits** of the identified new system’s concept.
## Consortium

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EPATS Study Plus – WBS

**EPATS+**
European Personal Air Transportation System Study Plus

**WP1**
Small Aircraft Transportation System - Common Vision and Requirements
- Demand of Small Aircraft in Air Transport System
- Common Vision Process set up
- System Requirements Definition
- Regulation

**WP2**
The business case based on business models
- Identification and definition of the different business model
- Business model specification, business case parameters, and impact factors
- Business Model simulation
- Analysis (also sensitivity) of the impact of business cases on the small aircraft industry

**WP3**
The Roadmap
- Development of RTD roadmap for EPATS aircraft and their operations
- Identification of RTD projects, their linkage between national and European initiatives
- Recommendations on content and timing of EU Framework Calls
- Set up a network between EPATS partners and others to update the roadmap

**WP4**
The Capabilities
- Identification of the inventory of existing capabilities in Europe
- Identification of the inventory of missing capabilities in Europe
- Recommendations on content and timing of EU Framework Calls
- Future Personal Transport System Technologies

**WP5**
Project Management
- Project Management Committee/Advisory Group
  - Meetings
- Reporting
- Dissemination

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Thank you for your attention!

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