



CargoMap

Project Overview

**The project has been already closed.
The content below is taken from the former project website.
It is not guaranteed that all the information is still actual.**

The Air Cargo technology roadmap project

The Air Cargo technology Roadmap project focuses on the future role of air freight and the definition of a technology roadmap for future cargo aircraft responding to end user requirements and environmental needs. In order to improve seamless flow of goods, Inter-and Co-modality approaches will be considered within the SESAR operational concept.

In general...

Main issues of the CARGO Map (CSA-SA) project are:

- Analysis of current situation versus the demand with the involvement of the stakeholders in Europe among all actors (manufacturers, research establishment, regulators, airspace users, infrastructure providers, airport managers)
- Expected future bottlenecks/challenges in air freight transport and the identification of the corresponding requirements. The requirements will identify the technology needs and regulatory issues to be addressed
- Synopsis and evaluation of possible improvements related to future business models
- Definition of a technology roadmap to fill the technology/regulatory/operative gaps in order to fulfil the requirements considering the current capabilities

The project investigates what new challenges and opportunities exist for new air cargo operations in the future, responding to societal challenges and the concept of seamless multi modal transport chains. Based on business models for such new types of air cargo operations, the need for novel dedicated air cargo planes will be derived and the technologies that will be needed to create these novel airplanes will be identified in a roadmap.

This is a totally new approach within the Frame work program. Whilst identifying novel technologies, only those specific to air cargo operations will be shown in the roadmap, assuming that generic technologies in aviation will take place. The roadmap will identify current and planned research and missing elements to enable a new generation of air cargo aircraft to be realised.



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Analysis of current situation versus the demand with the involvement of the stakeholders in Europe among all actors (manufacturers, research establishment, regulators, airspace users, infrastructure providers, airport managers)

Main issues of the Cargo Map project are:

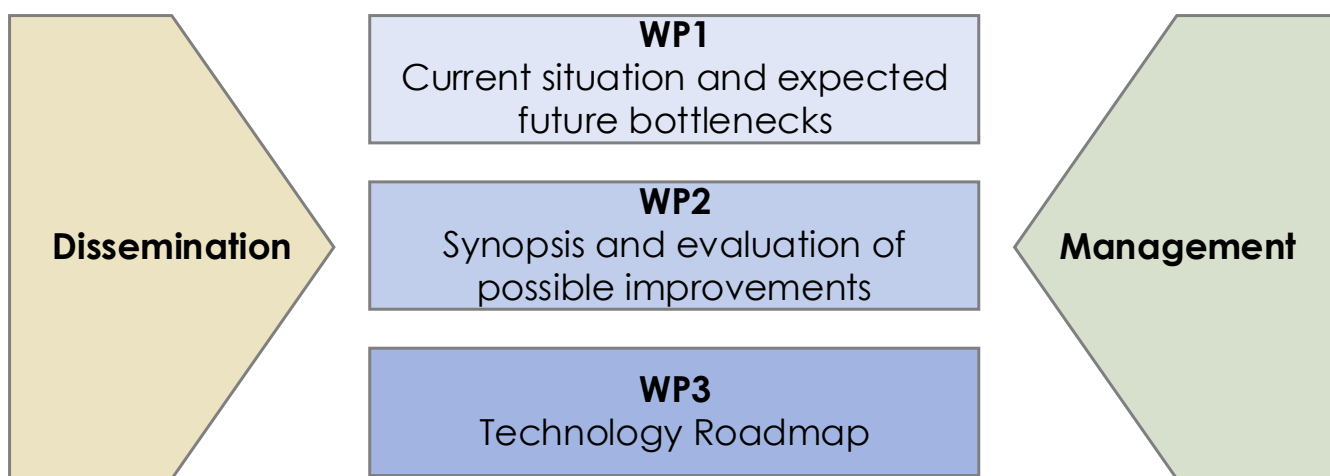
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Collaboration

The effectiveness of the consortium is built on the diversity and the complementarity of the project partners. The consortium members were selected with the aim of representing the European air cargo transportation community as carefully as possible. The competences of the partners complete one another in a way that forms a strong and reliable team.

The following picture introduces the interdependencies between the workpackages:



Policy Briefs



Strategic objectives addressed:

- Understanding of the future role of air freight according to business cases related to well identified scenarios.
- Definition of a technology roadmap for future cargo aircraft.
- Improving seamless flow of goods via Inter-and Co-modality within the SESAR operational concept.

Strategic expected achievements:

- European action to support improvements of air freight in European transport by adoption of a new business model and advanced technology thus responding to end user requirements and environmental needs.
- Map the RTD programmes and projects in Europe
- Set up recommendations for future EU Framework Programmes related to Air Cargo Aircraft

In order to investigate the above objectives the project will perform the following logical steps:

- Analysis of current situation and expected future bottlenecks/challenges in air freight transport
- Synopsis and evaluation of possible improvements (related to future business models)
- Technology roadmap

The Delivery of Technology Roadmap to the EC will help the EC to make recommendations to the European Commission on the calls for proposals based on the missing issues in technology development. The recommendations will especially relevant for FP8 and the new Strategic Research Agenda of ACARE.

Reports



Public reports of the CargoMap project:

[AIR CARGO TECHNOLOGY ROAD MAP](#)

The Roadmap document is collecting the results of the CargoMap Project in a single self-standing report, referring to the specific deliverables for detailed analysis.

The Roadmap is thus providing a preliminary summary of main achievements of the CARGOMAP Project and the technology roadmap derived with a new approach:

- investigate challenges and opportunities for air cargo operations in the future, responding to societal challenges and the concept of seamless multi modal transport chains;
- study the current business models and provide alternative business cases for new types of air cargo operations;
- define new requirements for novel air cargo planes;
- identify the technologies that will be needed to create these novel airplanes.

EU related projects

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The following projects are dealing with topic bringing innovative products and services to the market: analysis of pathways and best conditions for innovation. Therefore it is decided to have closer cooperation to enable best results.

INTRASME



INTRASME project seeks to develop clusters of firms working in the field of smart mobility and low carbon transportation in the Midlands (UK), Piedmont (Italy), Warsaw (Poland), Northern and Eastern Bulgaria. You can find more information in the official project website: <http://www.intrasme.eu>

TIPS



The objective of the TIPS project is to produce better innovation in the transport sector by enhancing the capacity of EU-funded FP projects in the field of transport to be at the source of innovation and to help them transform research results into products and services. You can find more information in the official project website: <http://www.transport-tips.eu/>

T-TRANS



T-TRANS aims at providing information on innovation mechanisms for the ITS, facilitating the transfer of related innovative products and services to the market.

The project involves all stakeholders of the transport and ITS innovation chain: Universities, R&D and technology centres, enterprises of any size, regional clusters, public authorities and policy makers, venture capital and other investors, with special focus on SMEs.

The project addresses the difficulty of transferring to market developing technologies with a significant potential for improvement, both in terms of efficiency and costs, once they could be commercialised. You can find more information in the official project website: <http://www.ttransnetwork.eu>

Innovation Center for Transport, Logistic and Transformation



The Innovation Center for Transport, Logistic and Transformation was created in response to the public notice for the establishment and expansion of Regional Innovation Centres, call POR FESR Calabria 2007/2013, Integrated Regional Strategic Project , Regional Network of Innovation Centres, published on 07/09/2010. You can find more information in the official website at <http://www.innovazione-rdlog.it/EN/>