



AENA's participation in SESAR

CONFERENCIA SAE

"EL PROGRAMA SESAR: EL FUTURO SISTEMA DE CONTROL DE TRÁFICO AÉREO
EUROPEO. LA MAYOR OBRA DE INFRAESTRUCTURA EUROPEA"

Madrid, 13th November 2012



AENA in SESAR: why?

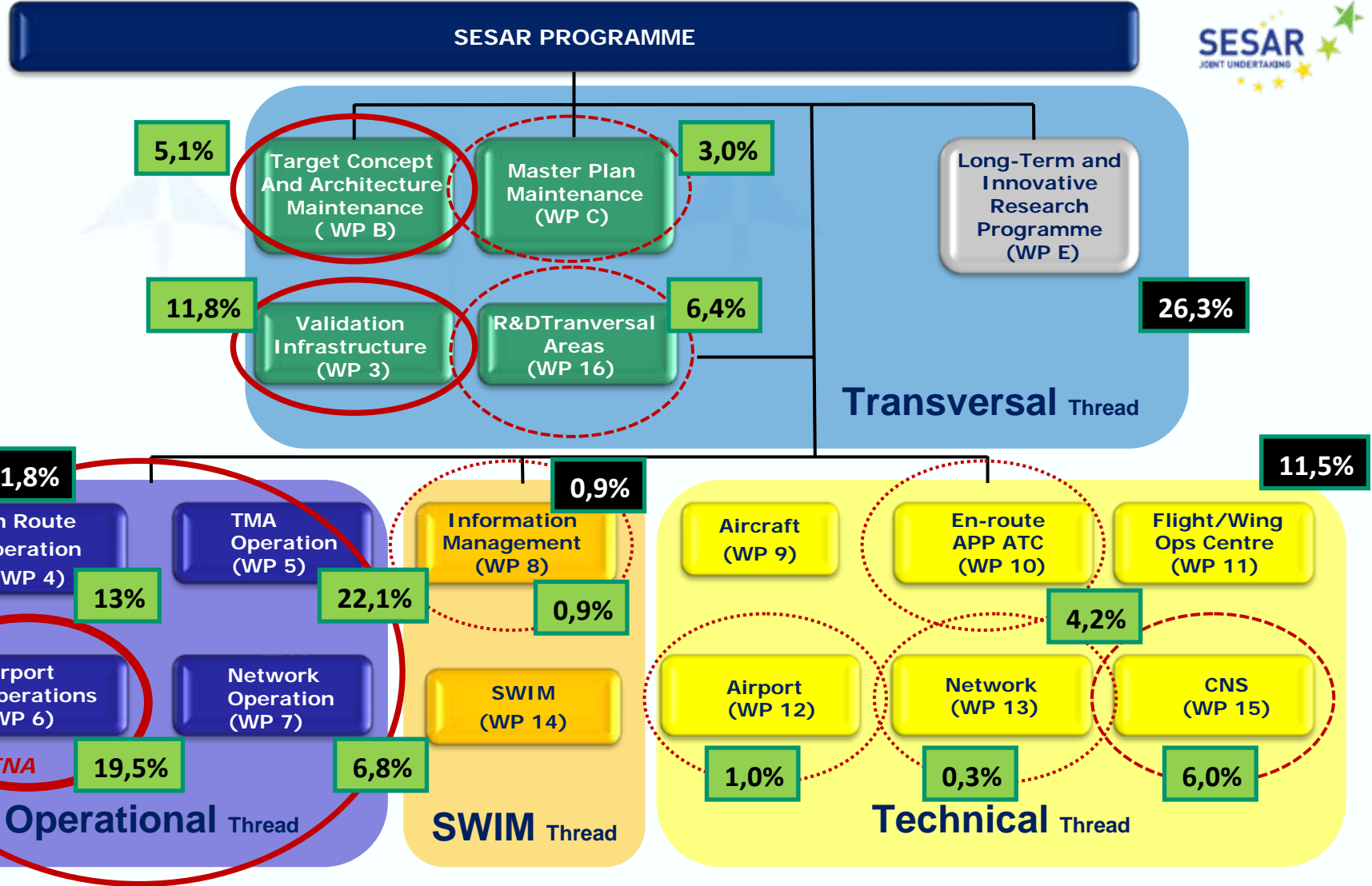


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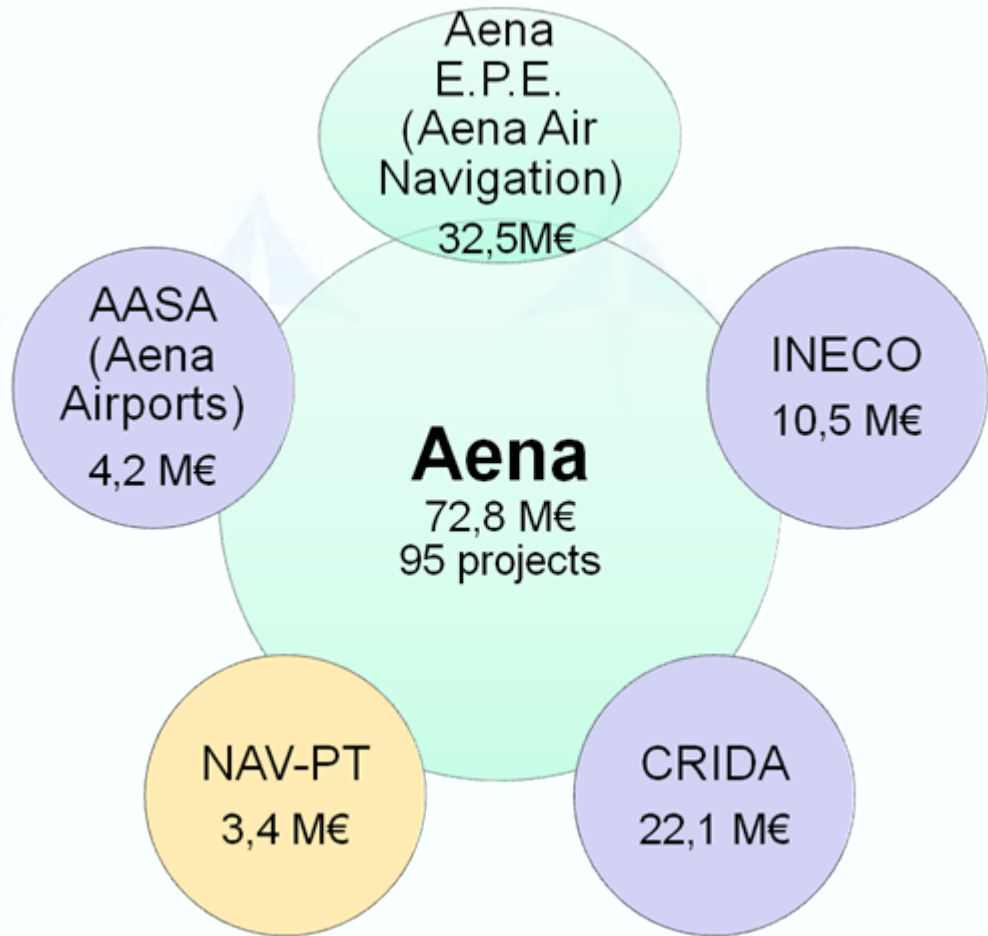
- Active role in defining and shaping the future European ATM system: participating in equal terms of effort and decision making as other major european ANSPs (A6 group composed by the ANSPs of France/Germany/Italy/Norcon/Spain/UK)
- Influencing in Europe ATM system evolution but considering also the SACTA / ITEC achievements and evolution plans
- Streamlining efforts in R & D (including validation): participation in the SESAR Joint Undertaking allows a more efficient use of resources (human, equipment, facilities), avoiding fragmentation
- Join action and commitments in the organization from planning to operation. (One goal: European ATM Master Plan)
- Strengthen national leadership of AENA in R&D in air transportation, including cooperation with the leading national partners of Aena in the ATM environment (CRIDA, Ineco, Isdefe and Indra) and with the institutions concerned (DGAC, AESA, CDTI)
- Easier working framework for regulators as applicable rules (safety, certification, etc.) will be similar and used on similar systems and procedures across Europe



AENA in SESAR R&D (SJU): where?



AENA in SESAR R&D (SJU) : how much?



Co-financed at 50%



AENA in SESAR R&D (SJU): how much?



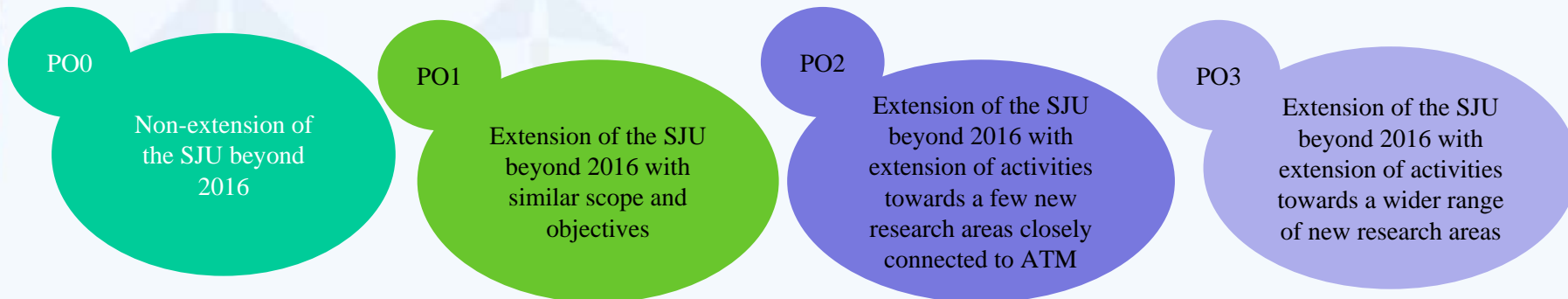
- Participates to 95 projects
- Leading 16 Projects:
 - WP 6 Leader (Airport Operations R&D)
 - Leading 2 management projects (SWP 3.3. y 4.8.)
 - Leading 13 R&D projects
- In-kind contribution: 72,8 M€
- Around 300 people have already worked in SESAR/SJU
- In-cash contribution: 1,8 M€
- Deep involvement in other SJU initiatives: AIRE, OPTIMI, Flight Demonstration Activities

Executed Validation activities (up to now)



	<i>Exercise Name</i>	<i>how?</i>	<i>where?</i>	<i>Main results achieved</i>
Release 1 2011	PRNAV in Complex TMA	Real Time Simulation (RTS)	HQ Pre-Operational IBP EnRoute/TMA segment (Madrid ACC)	Procedures and sectorization for the implementation of PRNAV in Madrid TMA mature to start implementation
Release 2 2012	Integration of Arrival Manager (AMAN) and supporting functionalities with point P-RNAV procedures in a complex TMA.	RTS	HQ Pre-Operational IBP EnRoute/TMA segment (SENASA)	Reduction in TMA ATCO's workload, resulting in an overall increase in the capacity of the TMA.
	Implementation of Dynamic Capacity Management in a high density area	Shadow mode	Barcelona ACC	Improved predictability of the traffic load ,optimization of unused capacity and management of unexpected events (i.e. lack of ATCOs)

Regulation 219/07 sets the dissolution of the SJU in December 2016. During 2012 the extension of the SJU in time and responsibilities has been raised according to the following 4 options:



Aena supports in principle option PO2

- It is proved that a centralized body such as the SJU for public-private management of European ATM R&D projects improves both the result and the usability of R&D products/deliverables.
- The 3 levels of ATM R&D (Bluesky research, Applied research, Close to market/validation) as well as large-scale demonstrations should be under SJU's responsibility, avoiding fragmentation

SESAR: Deployment Manager (DM)

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- ❑ **Synchronization** (air-ground & ground-ground) is the real challenge of the Deployment process, and requires the implementation of an effective governance scheme.
- ❑ Aena shares CANSO position regarding the DM as follows:
 - **DM Scope:** single legal entity leading Deployment Governance level 2, and fully accountable for the definition and execution of the Deployment Programme.
 - **Timeline:** selection of DM before the end of the first half of 2014.
 - **Operators' leadership:** DM composed of ANSPs, Airports and Airlines.
 - **Implication of ATM stakeholders** not participating directly to the DM: contributions of and buy-in by all airspace users, ANSPs and Airports ensured through consultation platform. Need to define clear interfaces with Network Manager and SJU.

