



FROM INNOVATION TO SOLUTION

THE TECHNOLOGICAL CHALLENGE

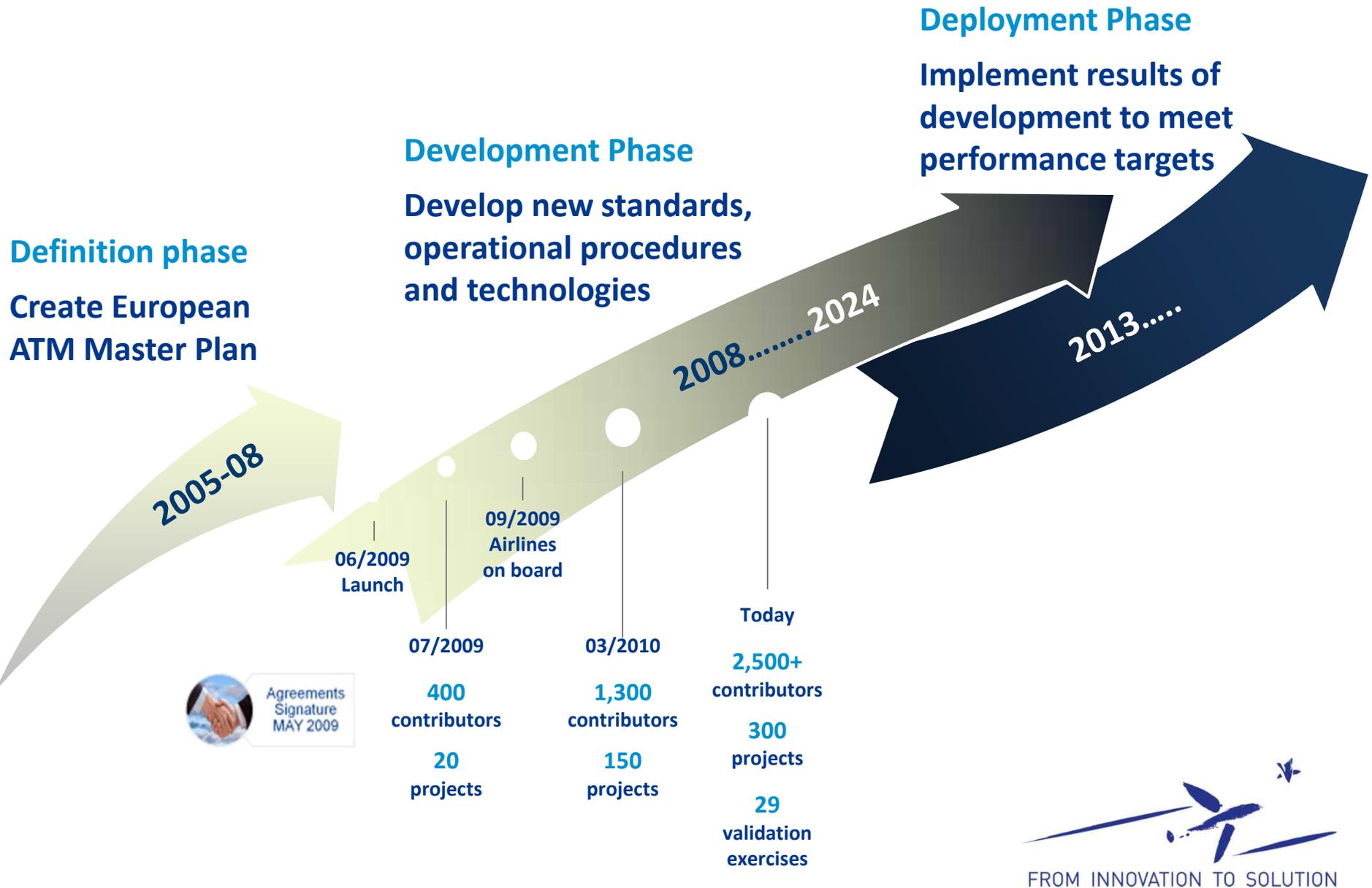
Jose Antonio Calvo Fresno
Chief Regulatory & Institutional Affairs



founding members



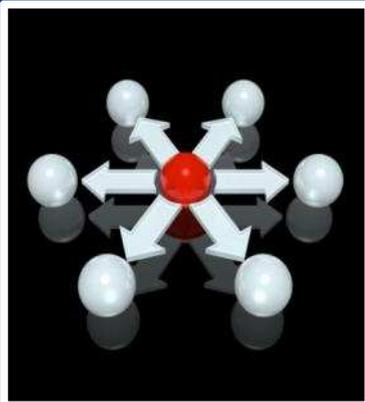
BUILDING SESAR...



The Fundamental Changes of ATM

INTEGRATION OF AIRPORTS

Integrating airports - time synchronised operations of surface trajectories and flight turn-around



THE 4D TRAJECTORY PRINCIPLE

Integrating airspace users flight systems to build predictable time synchronised flight precision



THE SYSTEM WIDE INFORMATION MANAGEMENT

The Intranet for Air Traffic Management



AUTOMATION

Human operators concentrate on high value-added tasks

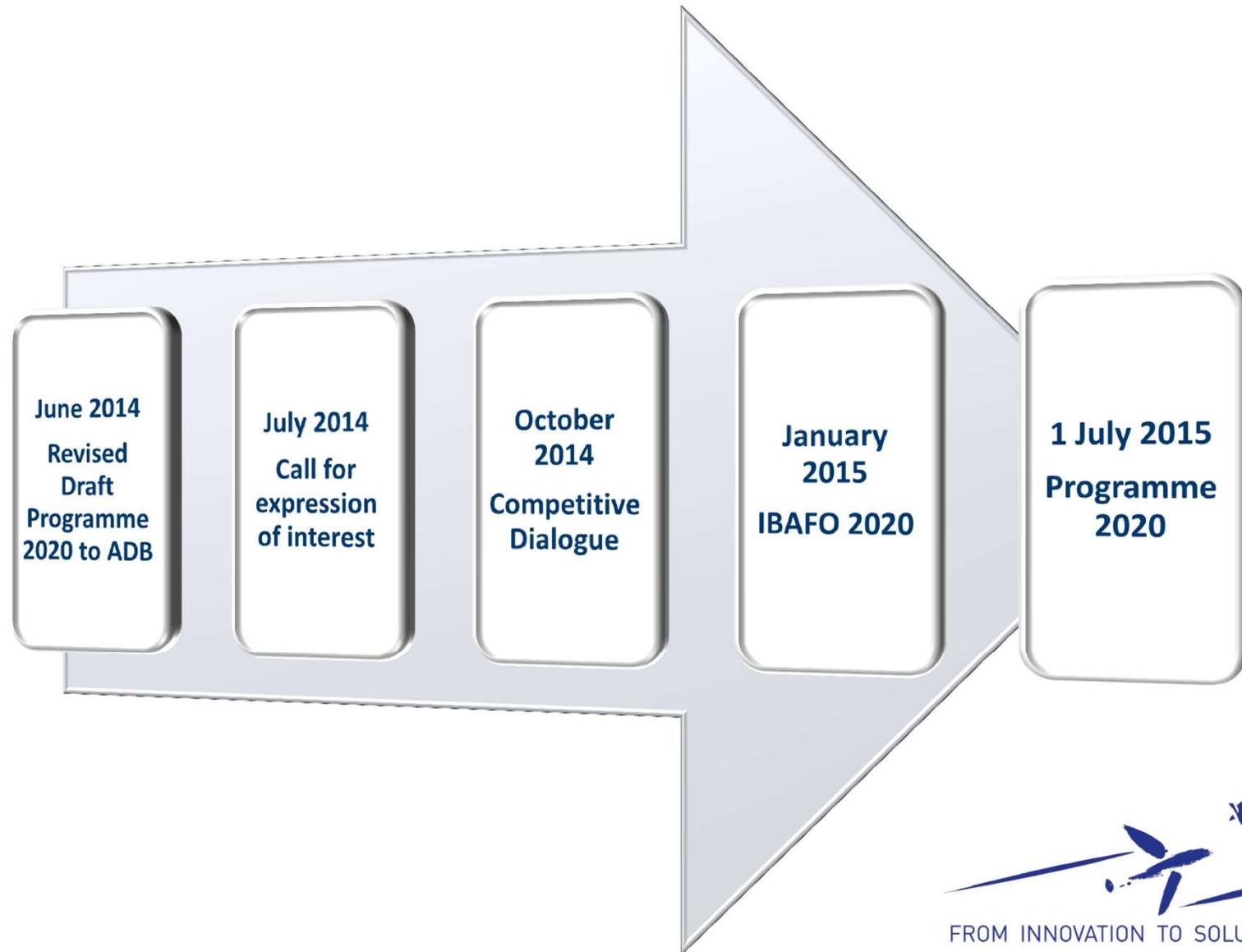


COLLABORATIVE NETWORK PLANNING

Integrated with airport operations planning and airspace user flight planning



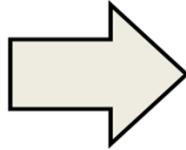
Next Steps



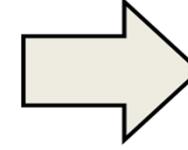
THE SESAR PROGRAMME 2020 DRAFT



100-200M EUR



1200M EUR

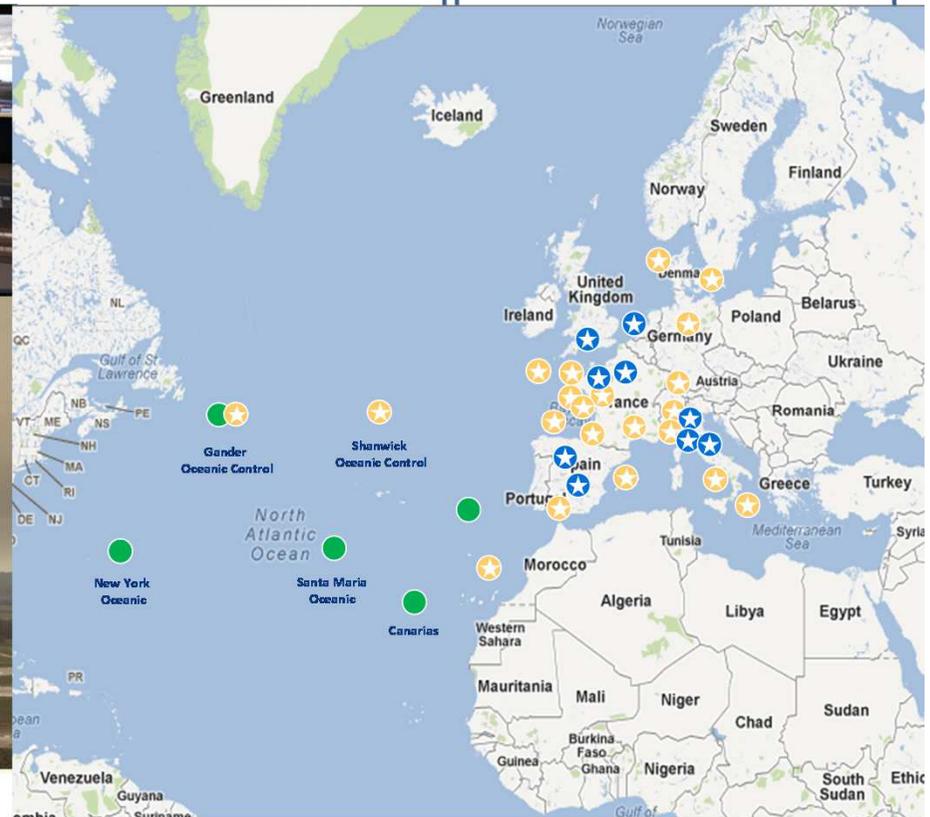
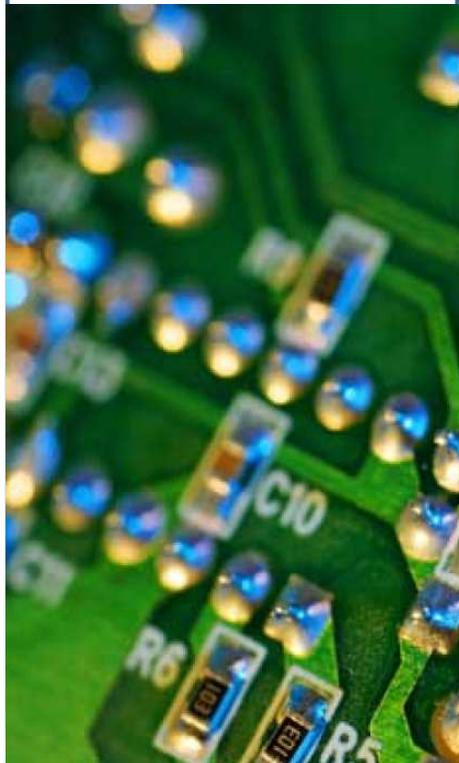


300-400M EUR

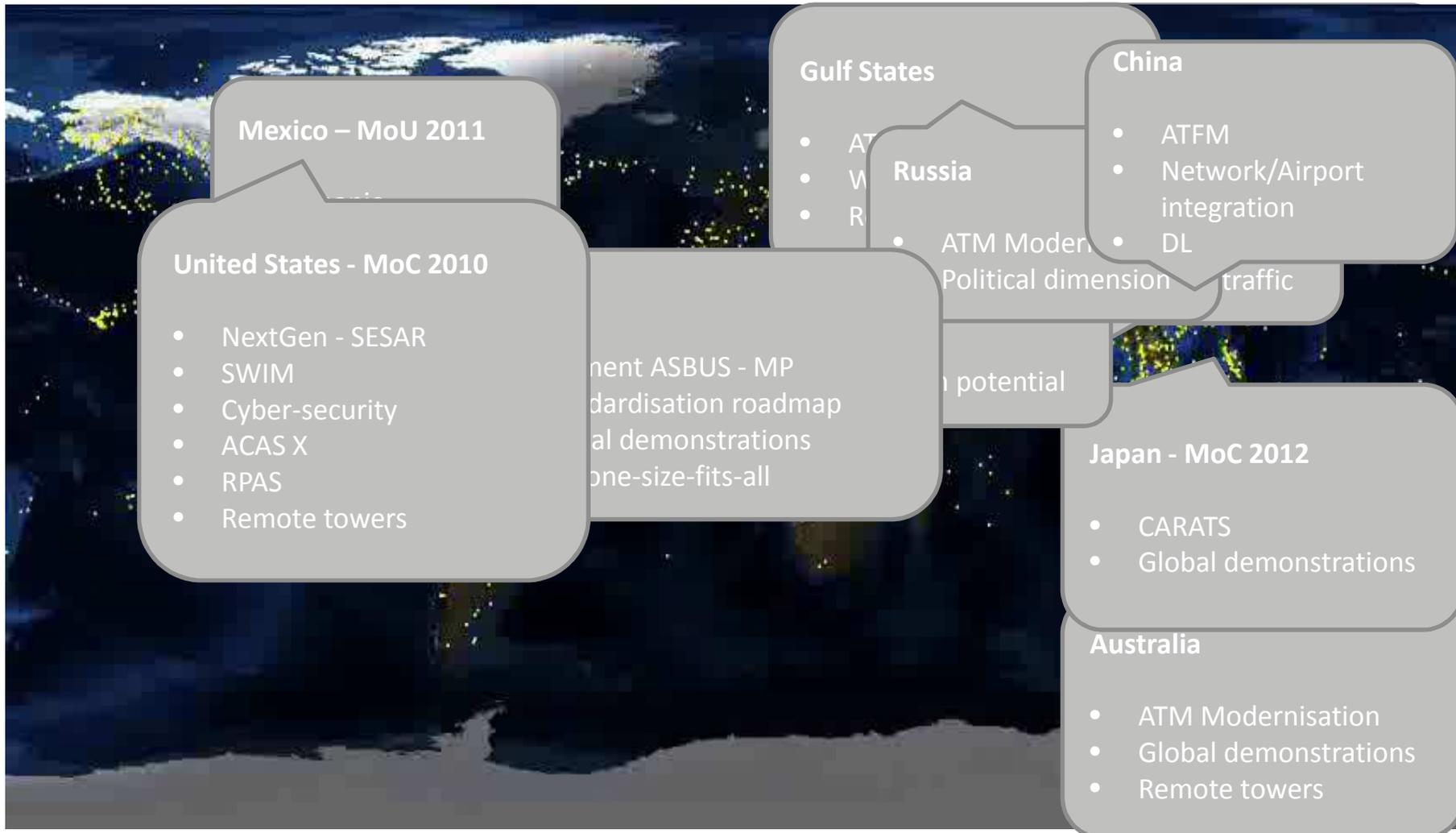
Exploratory
Research

Applied Research,
Pre-Industrial Development,

Large Scale
Demonstrations



SESAR and the Global Aviation Network



SESAR, Standardization and Regulation

RTCA



SESAR
JOINT UNDERTAKING



FROM INNOVATION TO SOLUTION



Thanks for your attention

