



FROM INNOVATION TO SOLUTION

THE TECHNOLOGICAL CHALLENGE

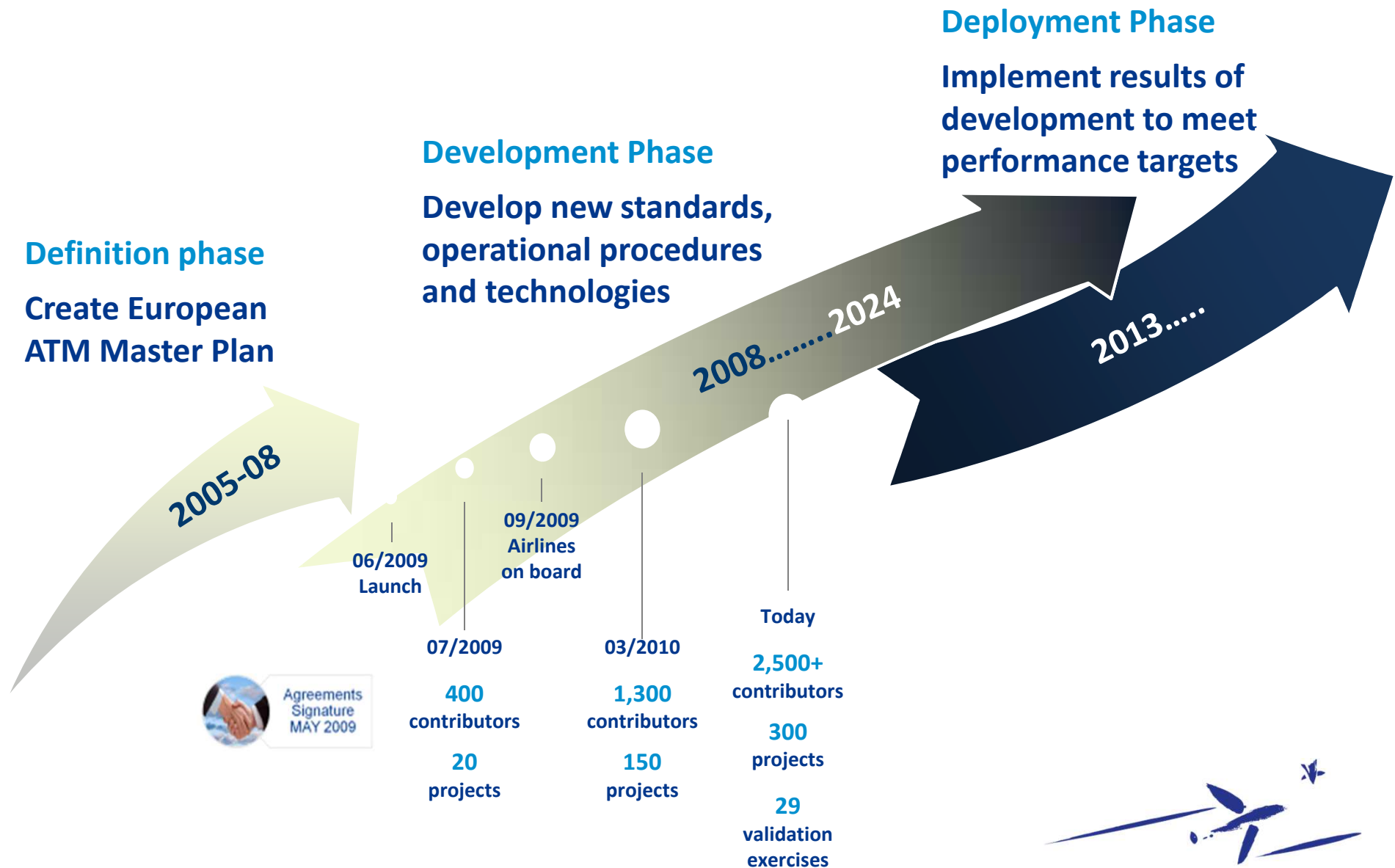
Jose Antonio Calvo Fresno
Chief Regulatory & Institutional Affairs



founding members



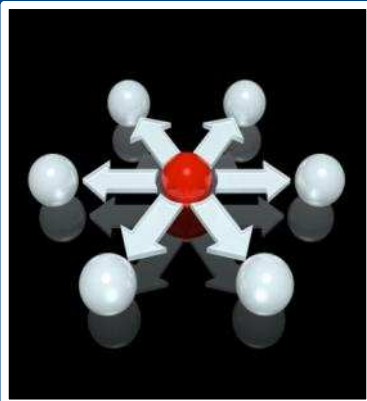
BUILDING SESAR...



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

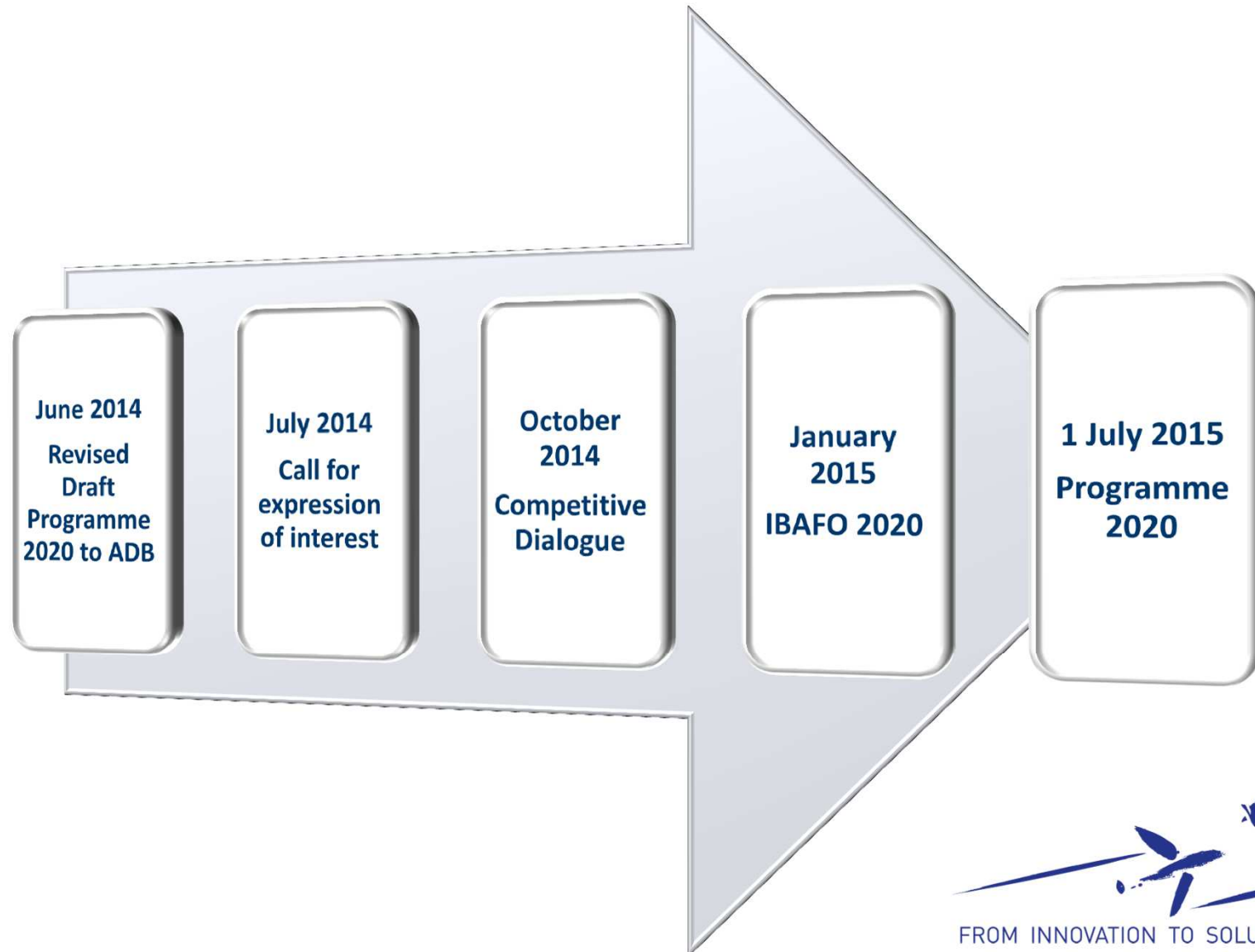


COLLABORATIVE NETWORK PLANNING

Integrated with airport operations planning and airspace
user flight planning



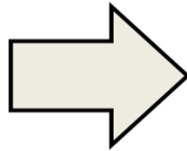
Next Steps



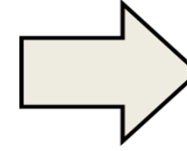
THE SESAR PROGRAMME 2020 DRAFT



100-200M EUR



1200M EUR

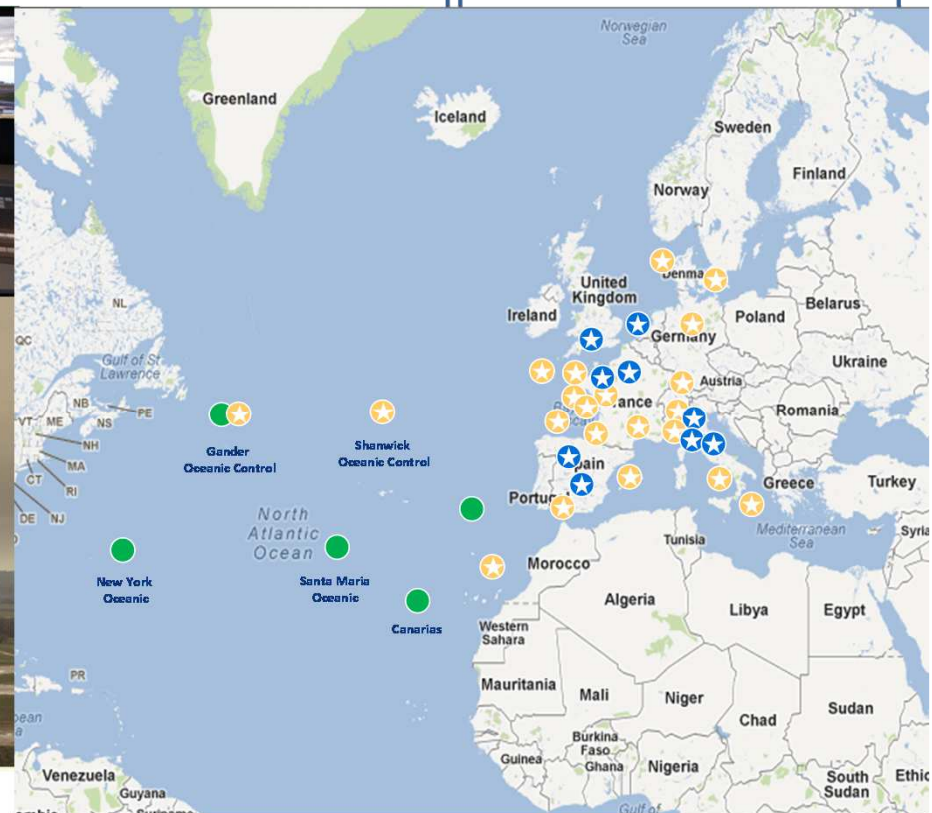


300-400M EUR

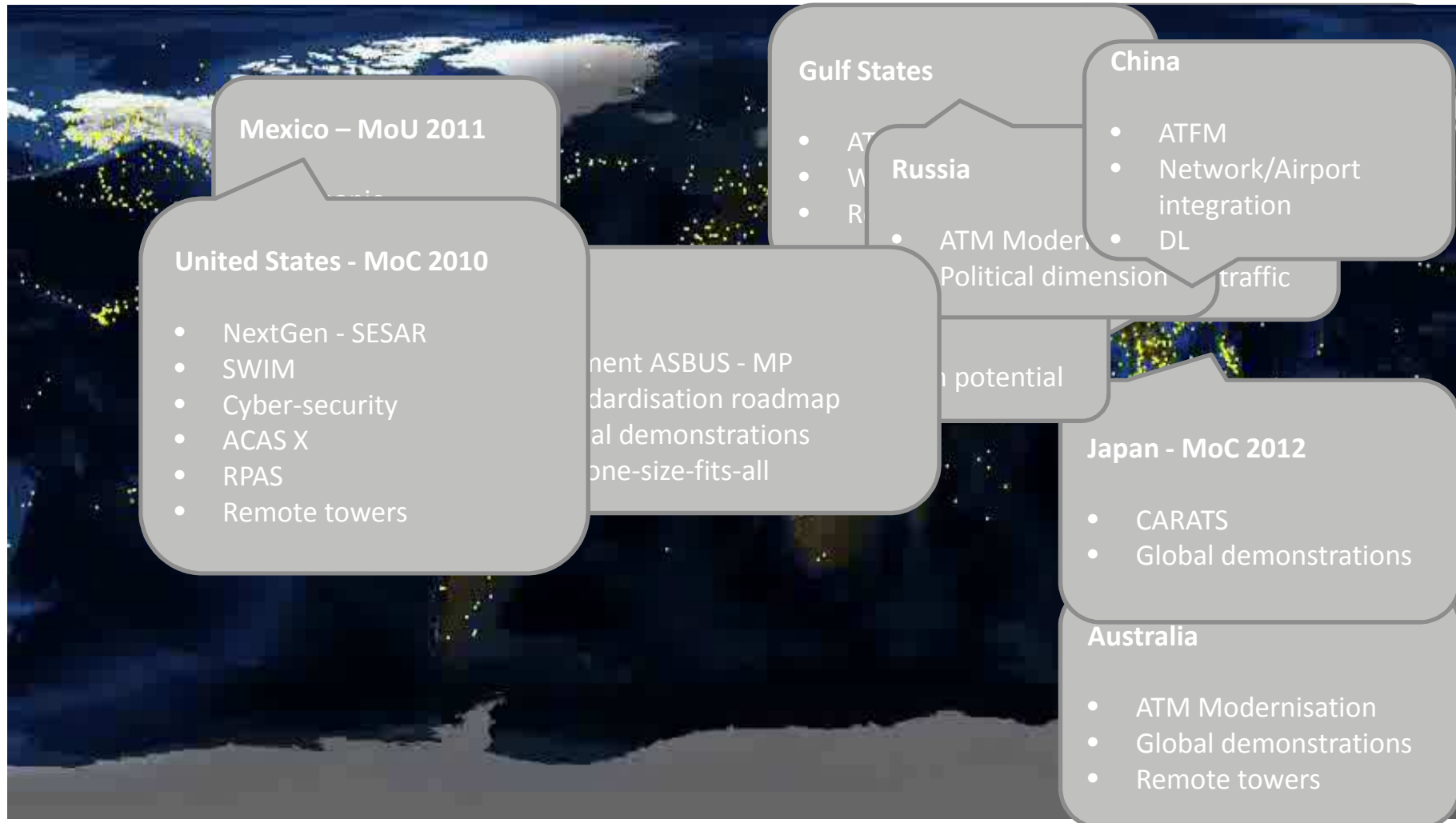
Exploratory
Research

Applied Research,
Pre-Industrial Development,

Large Scale
Demonstrations



SESAR and the Global Aviation Network



SESAR, Standardization and Regulation

RTCA



SESAR
JOINT UNDERTAKING





Thanks for your attention

