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World ATM Congress 2017

Operated by CANSO in partnership with ATCA

Agenda

- CEF Transport calls - SESAR priority (INEA)
- Closing the Gap on ATM Investment Needs (EIB)
- Overview of SDM coordination and support to Implementation projects (SDM)
 - ✓ 2017 CEF Transport Blending MAP Call under SDM coordination (SDM)
- Information on the timeline for the next SESAR 2020 Calls (SJU)



CEF Transport calls - SESAR priority

Claudio Palestini





Single European Sky

INEA in the big picture

→ Reforming ATM to enhance performance (Capacity, Safety, impact on environment, ATM costs)

Institutional (NSA, NM, FAB, etc.)

Technological

SESAR

ATM Master Plan defines

SESAR Concept

H2020

SESAR Joint Undertaking
develops/validates/demonstrates

SESAR solutions

CEF

Implemented by
INEA



SESAR Deployment
framework

(essential/mature/
Need for synchronisation)

Common Projects

Deployment Manager
Deployment Programme
Implementation projects

Other projects category

CEF

SESAR



CEF Transport calls

2014

- Unprecedented interest from promoters
- Record **735** submitted proposals
- Requested funding **3 x more** than available budget
- Outcome: close to **€13 billion EU support** to **263** projects with high EU added value
- Total investment of more than **€28 billion**
- Largest ever EU investment in transport infrastructure

2015

- Continued strong interest in CEF Transport: requested funding **2x** available budget
- Outcome: **€6.7 billion** investment in **195** projects with high EU added value
- **€9.6 billion** total investment
- Bridging the gap between EU regions: **84%** of funding to Cohesion MS
- Focus on decarbonisation and digitalisation of transport

2016

- **€1.9 billion of funding available** for projects of common interest in the transport sector
- **349** project proposals received, requesting nearly **€7.5 billion in total EU funding**
- requested funding more than **3x** available budget
- **Currently under evaluation**

2017

- **Blending** call already launched: **€1 billion of grants** from CEF to be combined with financing from the European Fund for Strategic Investments (EFSI), the European Investment Bank (EIB), National Promotional Banks or private sector investors
- Aim of progressively move towards a smart combination of grants, loans, guarantees to leverage private funds

CEF Transport calls – SESAR priority

2014

- **10** Actions related to SESAR
- Total amount of EU support of **€364.4 M**
- **~2.85 %** of the CEF-T 2014 budget
- 23 MS and 2 third countries involved



■ SESAR
■ Other horizontal priorities
■ Core Network

2015

- **32** Actions related to SESAR
- Total amount of EU support of **€694 M**
- **~10.35 %** of the CEF-T 2015 budget
- 26 MS and 2 third countries involved



■ SESAR
■ Other horizontal priorities
■ Core Network

2016

- **Currently under evaluation**
- Indicative amount of EU support of **€400 M**
- **~26.67 %** of the CEF-T 2016 budget



■ SESAR
■ Other horizontal priorities
■ Core Network



"Blending" call rationale

- Support through financial instruments (e.g. debt financing) may not always be sufficient for the projects needed to complete the trans-European transport network
- A targeted grant in these cases would enable the financial case to be established
- Blending, in the context of this Call, is the use of CEF grants in projects utilising private finance, or with finance from NPBs/EIB
- The European Fund for Strategic Investments (EFSI) should be used whenever possible in order to maximise the leverage of private sector involvement.



€1 billion CEF Transport blending call - focus on projects of common interest in the transport sector & maximising the leverage of private involvement and capital in the delivery of CEF transport projects



Budget available for SESAR

Single European Sky (SESAR)	€ 40 million
<i>a) Common Projects</i>	<i>80%</i>
<i>b) Other projects</i>	<i>20%</i>





Category A: Common Projects

A) Common projects:

- 6 AFs covered by the Pilot Common Project (PCP)
- Essential operational changes
- Mature
- Synchronisation & coordination
- Member States have to verify consistency with their adopted performance plans (EU 390/2013) and that national civil-military coordination has taken place.



- AF 1** Extended Arrival Management (AMAN) & Performance Based Navigation (PBN) in high density TMAs
- AF 2** Airport Integration & Throughput Functionalities
- AF 3** Flexible Airspace Management (ASM) & Free Route
- AF 4** Network Collaborative Management
- AF 5** Initial System Wide Information Management (i SWIM)
- AF 6** Initial Trajectory Information Sharing (i4D)



Category A: Common Projects

- To optimise impact of EU funding, focus on certain key priorities under Common Projects
 - a) Implementation projects that support the implementation of specific families identified in the Deployment Programme
 - b) Implementation projects aiming to implement datalink capability in support to AF6 – Initial Trajectory Information Sharing





Category B: Other Projects

B) Other projects:

Priorities by importance:

1. Deployment of new technologies and best practices
2. Specification and deployment of new generation of flight and radar data processing systems
3. Optimal provision of air navigation services in the context of FABs
4. Deployment and support to the deployment of ATM functionalities defined in the ATM Master Plan and the deployment baseline that are not included in the Common Projects.





Category B: Other Projects

- **To optimise impact of EU funding, focus on certain key priorities under Other projects**
 - a) Actions that support early implementation of instrument approaches utilising PBN with a corresponding commitment to phase out legacy navigation instruments as well as airborne infrastructure that support the use of satellite based augmentation system, in particular EGNOS.
 - b) Actions that support equipage with 8.33 KHz radios in existing aircraft fleet. (Regulations EC N°1265/2007 & 1079/2012)





Options for blending

- Grant disbursement for selected Actions will be conditional:
 - For all Member States/projects : CEF grants + EFSI
 - Only for projects aiming at removing bottlenecks, projects with cross-border impact, or projects in cohesion Member States: CEF grants + NPBs or EIB or at least one private sector investor for at least the value of the CEF grant awarded
- For clarity:
 - EIB involvement in financial close is not a requirement for grant disbursement (i.e. a project may receive EFSI Investment Committee EIB Board of Director approval, but then subsequently choose to close with other providers of finance than the EIB)
 - NPB: an institution with lending capacity and operating under public mandate (i.e. using loans as instruments of achieving public policy goals)





Size of Actions

- Size of Action is an eligibility requirement
- The total eligible costs of the Action shall be in excess of **€10 million**
- Projects seeking complementary EIB/EFSI support should typically have a project total cost in excess of **€25 million** for an individual loan. A lower project investment cost may be eligible for EIB/EFSI finance depending on the structure of the project and the type of financing product requested. For small projects the use of intermediation and aggregation vehicles, notably EFSI Investment Platforms, and the involvement of NPBs or private sector investors is recommended.





Co-Funding Rates

Type of project	Max. support MAP <i>General/Cohesion</i>
Ground-based equipment	50%
On-board equipment	20%





Indicative timeline of the selection process (1)

Call publication	8 February 2017
1 st Cut-off date for submission	14 July 2017 (17:00:00 Brussels time)
Evaluation of proposals	July – November 2017
Consultation of CEF Coordination Committee Information of European Parliament	December 2017
Adoption of Selection Decision	January 2018
Information to applicants	January 2018
Time To Grant	April 2018



**The entire available budget may be allocated to proposals submitted within the first cut-off date*



Indicative timeline of the selection process (2)

Call publication	8 February 2017
2 nd Cut-off date for submission	30 November 2018 (17:00:00 Brussels time)
Evaluation of proposals	December 2017 – March 2018
Consultation of CEF Coordination Committee Information of European Parliament	April 2018
Adoption of Selection Decision	May 2018
Information to applicants	As of May 2018
Time To Grant	Late August 2018



SESAR Calls

Closing the Gap on ATM Investment Needs

Elena Campelo - Antoine Hottelart



THE EIB AT A GLANCE

Investing in Europe's growth

- Natural financing partner for the EU institutions since 1958
- Around 90% of lending is within the EU
- Shareholders: 28 EU Member States
- Headquartered in Luxembourg and has 40 local offices

Largest multilateral lender and borrower in the world

- We raise our funds on the international capital markets
- We pass on favourable borrowing conditions to clients

Some 450 projects each year in over 160 countries

Offers loans, guarantees, microfinance and equity investments, as well as blended products (combining EIB and EU funds) and provides advisory services.

SUPPORT TO THE ATM MARKET

CEF budget is insufficient to support all necessary developments in the industry.

With the support of the EC through EFSI, the **EIB can help closing the gap** by **developing financial instruments to fund ATM projects**.

MoU signed with the EC and the SDM **to support PCP deployment**.

Key Eligibility and Viability Criteria:

In addition to PCP, all bankable and technically viable projects, leading to an increase in flight safety and capacity and compliance with SES and ATM regulations in general.

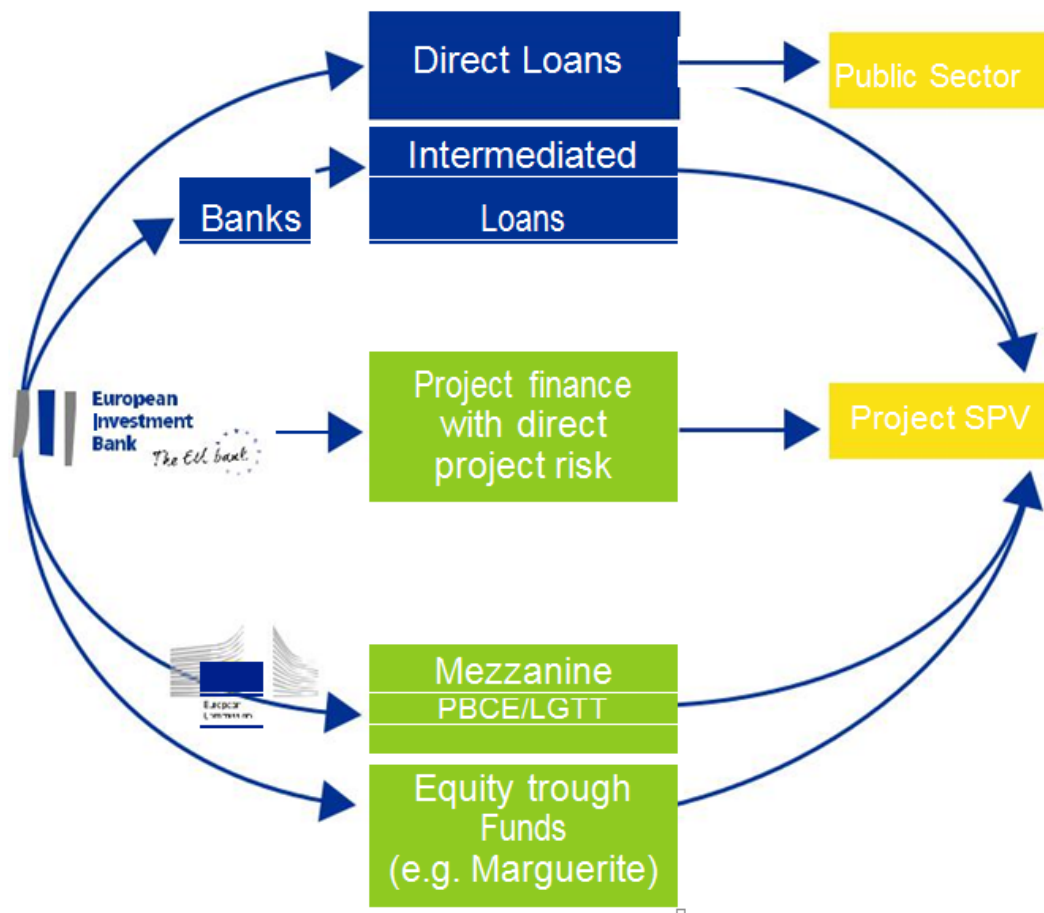
To whom?

ANSPs, Civil Airspace Users, Airports, Policy-makers and Private Lenders.

How much?

The EIB can provide up to **50% of project costs**, with the balance provided by Member States, EU grants, the private sector or a combination thereof.

EIB PRODUCTS



EIB contribution to project value: 50%

Eligibility:

- Asset purchase
- Software and licences
- Installation
- One-off training
- Capital Expenditure

Appraisal Process:

- Cost-benefit analysis
- Credit analysis
- Technical analysis



SDM/EIB ROLE IN THE BLENDING CALL: KEY POINTS

- As a first financial instrument, EUR 40 million CEF grant is available for SESAR to “blend” with EIB (where possible with EFSI), national promotional banks (NPB) or private finance depending on type of transport project/location.
- For projects seeking CEF grant, CEF eligibilities and co-funding rates apply.
- All EIB/EFIS lending operations must satisfy normal EIB/EFIS requirements
- SDM is available for advice for eligible projects.
- All CEF grant applications must submit a Letter of Support or financial readiness check by a third-party financial institution. Requirements for PPPs/concessions differ. EIB can provide a standard statement depending on stage of project in EIB pipeline (or not).

EIB ROLE IN THE BLENDING CALL: LETTER OF SUPPORT

- ▶ All CEF grant submissions to include a Letter of Support (financial readiness assessment) by a third-party financial institution
- ▶ EIB can only provide a factual statement, if by the time of call submission, the project either:
 - ▶ Has requested EIB finance
 - ▶ Is under appraisal
 - ▶ Has been approved by the Bank's governing bodies.
- ▶ For PPP/concession projects – financial readiness to be evidenced by information requirements in the call proposal (Section 7.2.2)

SESAR Calls

Overview of SDM coordination and support
to Implementation projects

Paola Di Giovanni

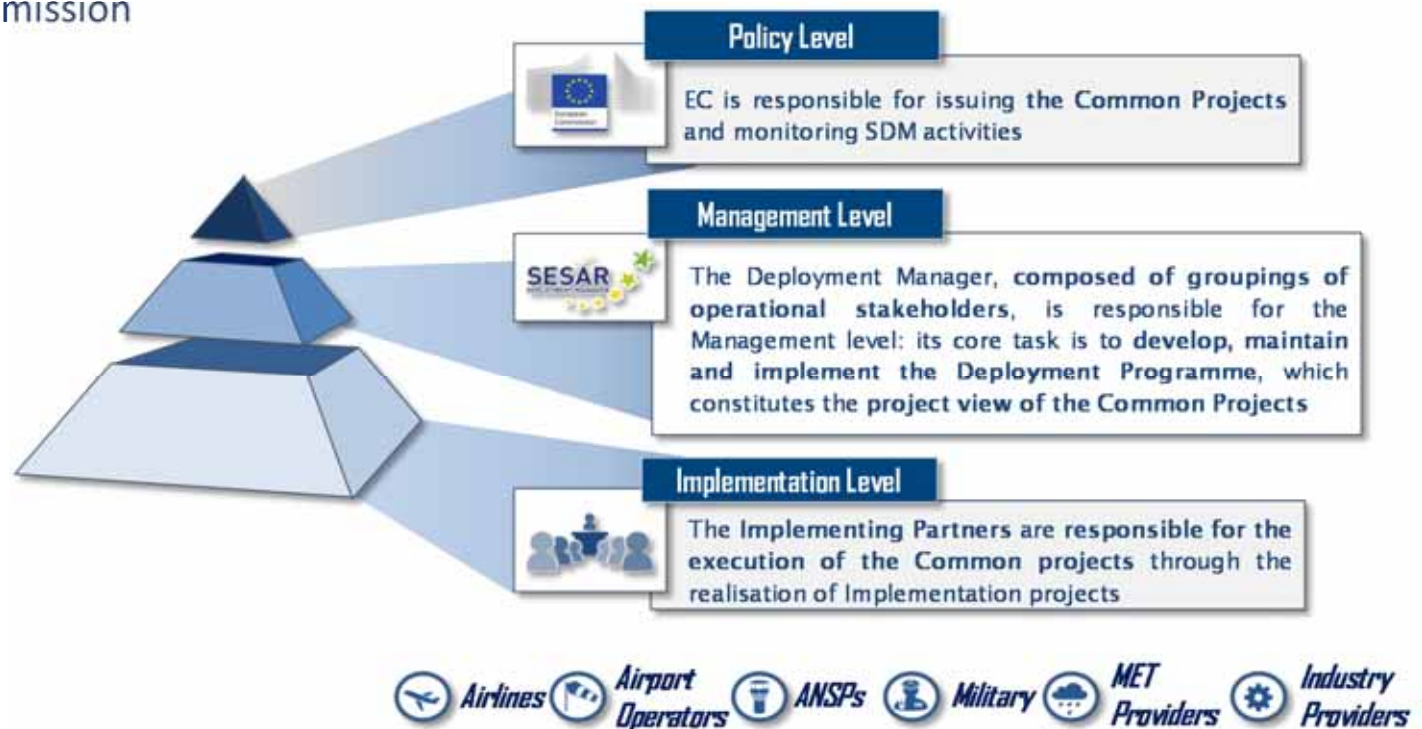


Funding under CEF Multiannual Work Programme 2014-2020

SESAR Deployment Manager

- With the IR N.409/2013 a new governance has been established for the SESAR Deployment
- On **5th of December 2014** the **SESAR Deployment Alliance** has been appointed as the SESAR Deployment Manager (SDM) by the European Commission (EC) to **synchronize and coordinate the modernization of Europe's air traffic management system**, under the political oversight of the European Commission

**SESAR
Deployment
governance**



PCP implementation achievements

SESAR DEPLOYMENT PARTNERSHIP RAMP-UP

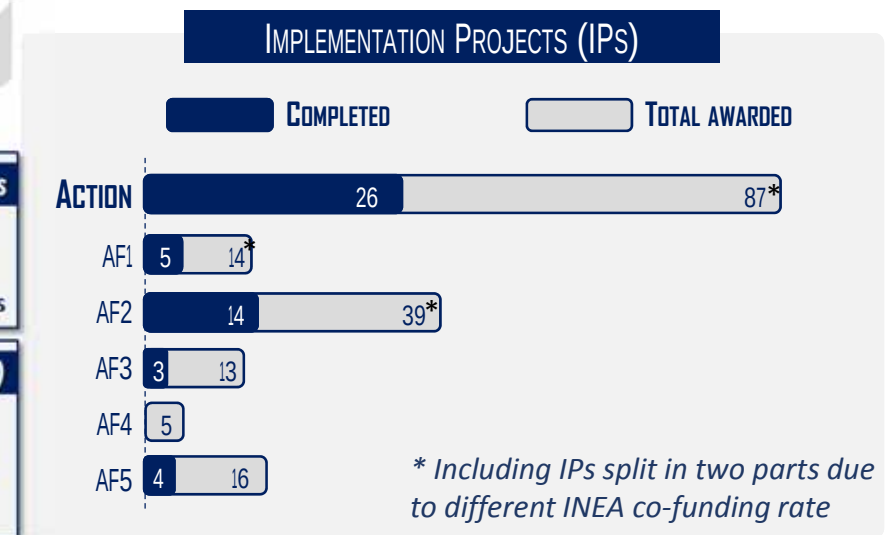
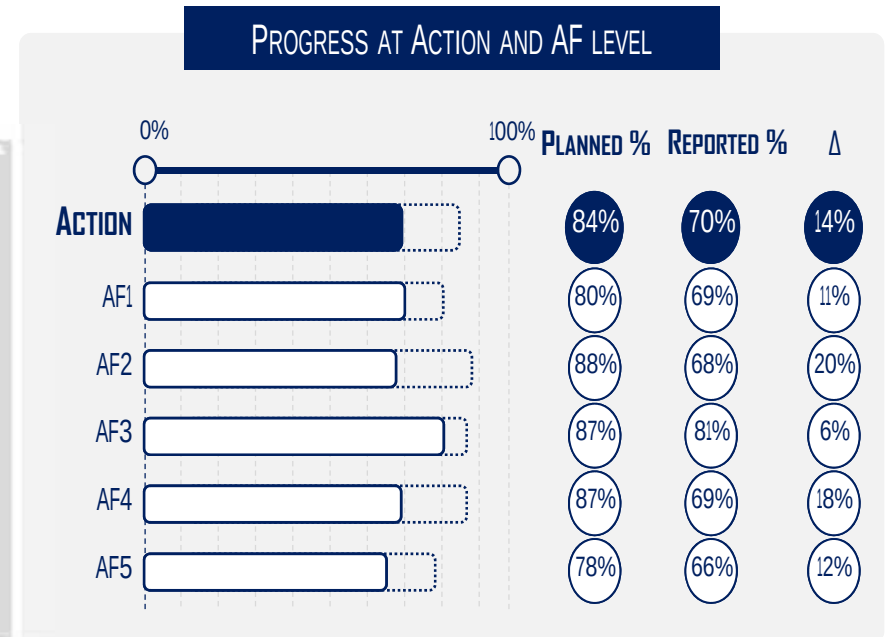
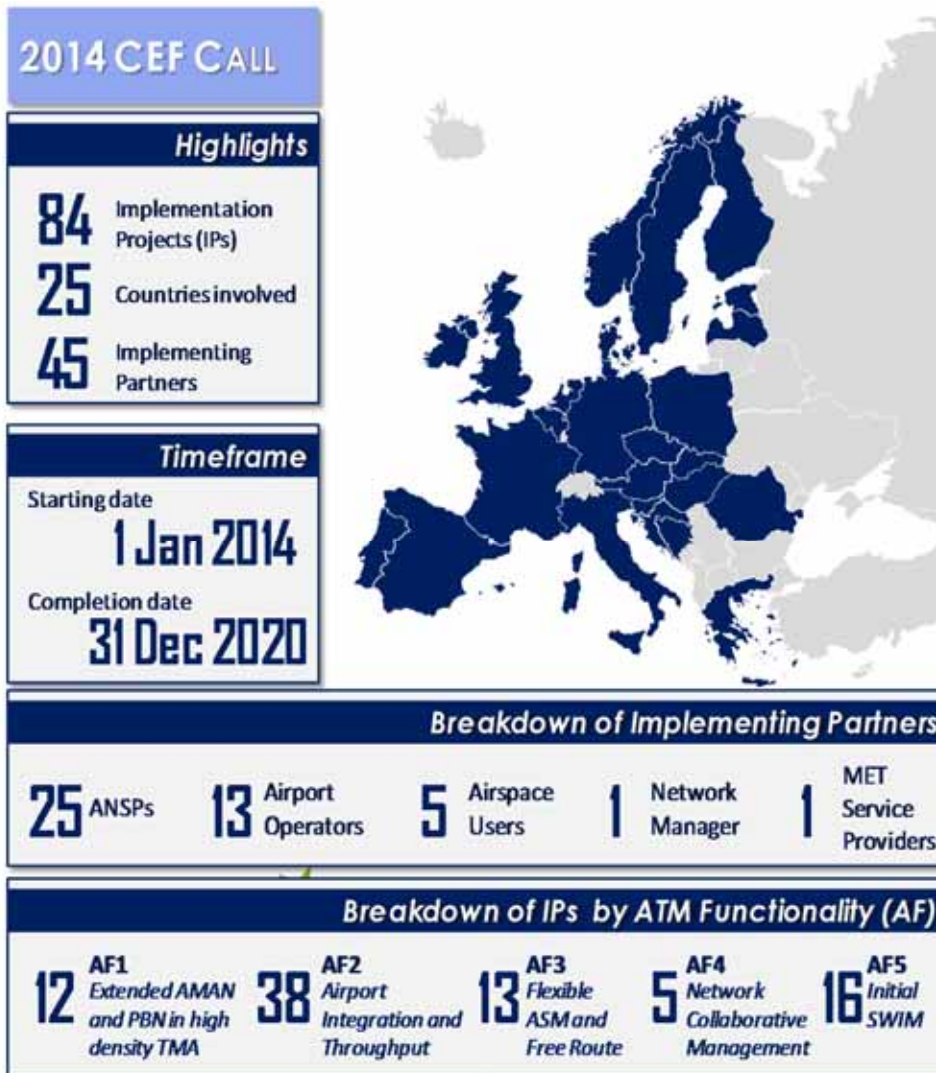
- Since the end of 2014, the establishment of the second layer of the SESAR Deployment Governance, so far SDM is coordinating 4 Actions execution phases and it has also submitted two proposals in responses to the 2016 CEF Transport Calls for proposals:

4 Actions in execution
2 Applications Submitted (under INEA evaluation)



SESAR Deployment Manager within CEF Framework

Actions in execution phase 1/4



SESAR Deployment Manager within CEF Framework

Actions in execution phase 2/4

2015 CEF CALL CLUSTER 1

Highlights

50 Implementation Projects (IPs)
16 Countries involved
34 Implementing Partners

Timeframe

Starting date
16 Feb 2016
Completion date
31 Dec 2018



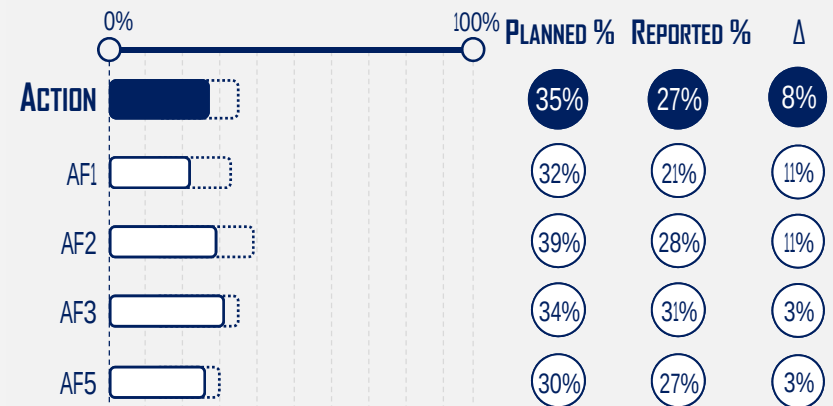
Breakdown of Implementing Partners

11 ANSPs **12** Airport Operators **3** Military **3** Airspace Users **1** Network Manager **4** MET Service Providers

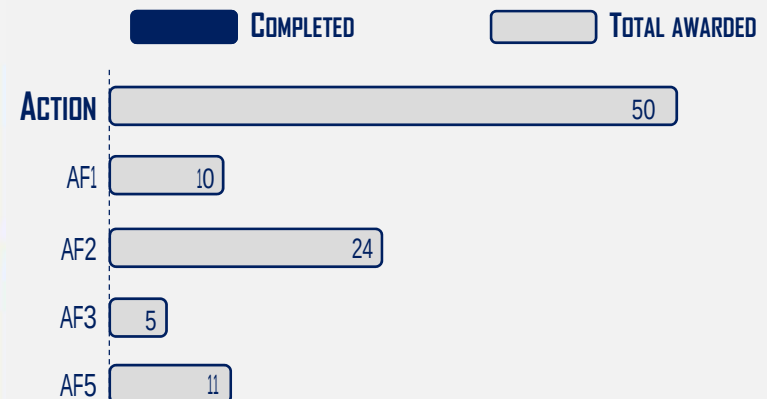
Breakdown of IPs by ATM Functionality (AF)

10 AF1 Extended AMAN and PBN in high density TMA
24 AF2 Airport Integration and Throughput
5 AF3 Flexible ASM and Free Route
11 AF5 Initial SWIM

PROGRESS AT ACTION AND AF LEVEL



IMPLEMENTATION PROJECTS (IPs)



SESAR Deployment Manager within CEF Framework

Actions in execution phase 3/4

2015 CEF CALL CLUSTER 2

Highlights

62 Implementation Projects (IPs)
19 Countries involved
41 Implementing Partners

Timeframe

Starting date
16 Feb 2016
Completion date
31 Dec 2020



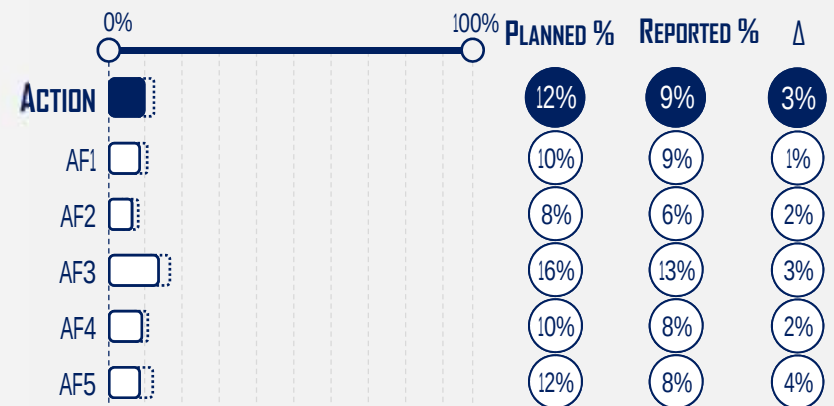
Breakdown of Implementing Partners

18 ANSPs **8** Airport Operators **3** Military **4** Airspace Users **1** Network Manager **1** Industry **6** MET Service Providers

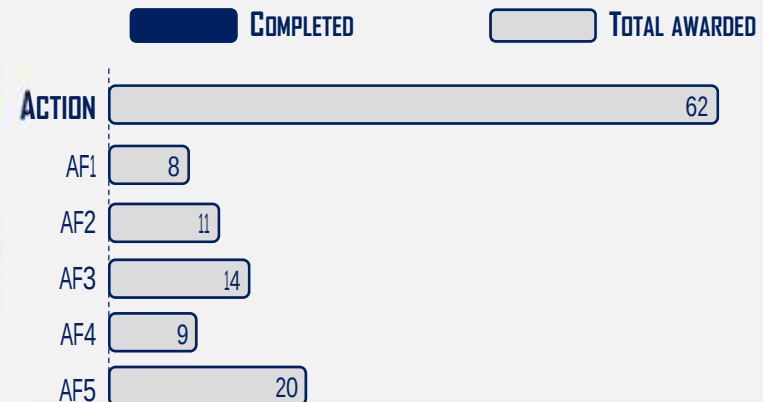
Breakdown of IPs by ATM Functionality (AF)

8 AF1 Extended AMAN and PBN in high density TMA **11** AF2 Airport Integration and Throughput **14** AF3 Flexible ASM and Free Route **9** AF4 Network Collaborative Management **20** AF5 Initial SWIM

PROGRESS AT ACTION AND AF LEVEL



IMPLEMENTATION PROJECTS (IPs)



SESAR Deployment Manager within CEF Framework

Actions in execution phase 4/4

2015 CEF CALL CLUSTER 3

Highlights

24 Implementation Projects (IPs)
10 Countries involved
12 Implementing Partners

Timeframe

Starting date
16 Feb 2016
Completion date
31 Dec 2020



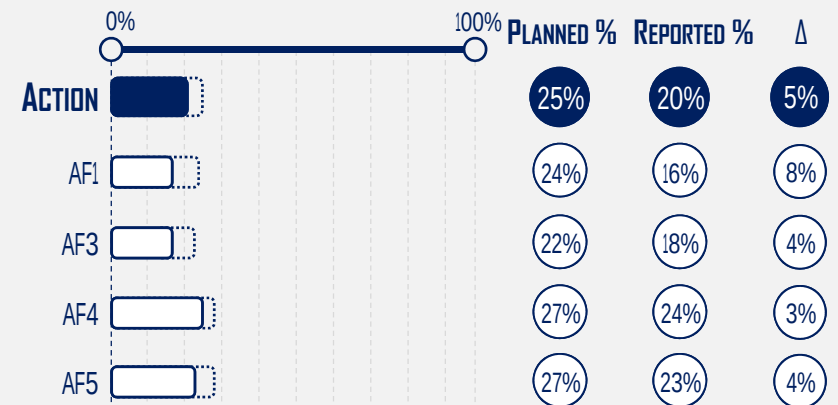
Breakdown of Implementing Partners

8 ANSPs **2** Military **2** MET Service Providers

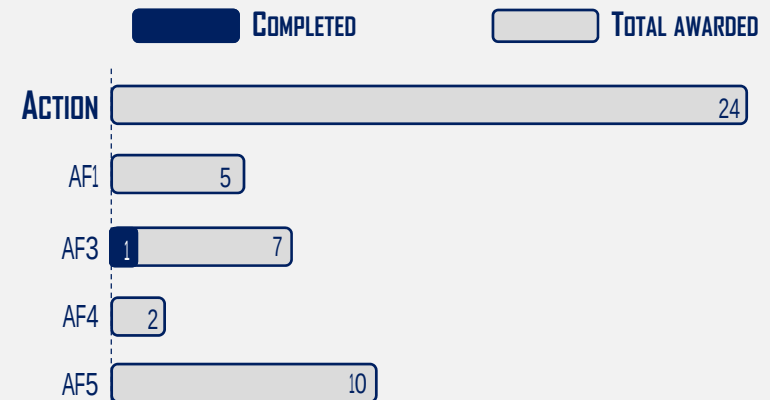
Breakdown of IPs by ATM Functionality (AF)

5 AF1 Extended AMAN and PBN in high density TMA **7** AF3 Flexible ASM and Free Route **2** AF4 Network Collaborative Management **10** AF5 Initial SWIM

PROGRESS AT ACTION AND AF LEVEL



IMPLEMENTATION PROJECTS (IPs)

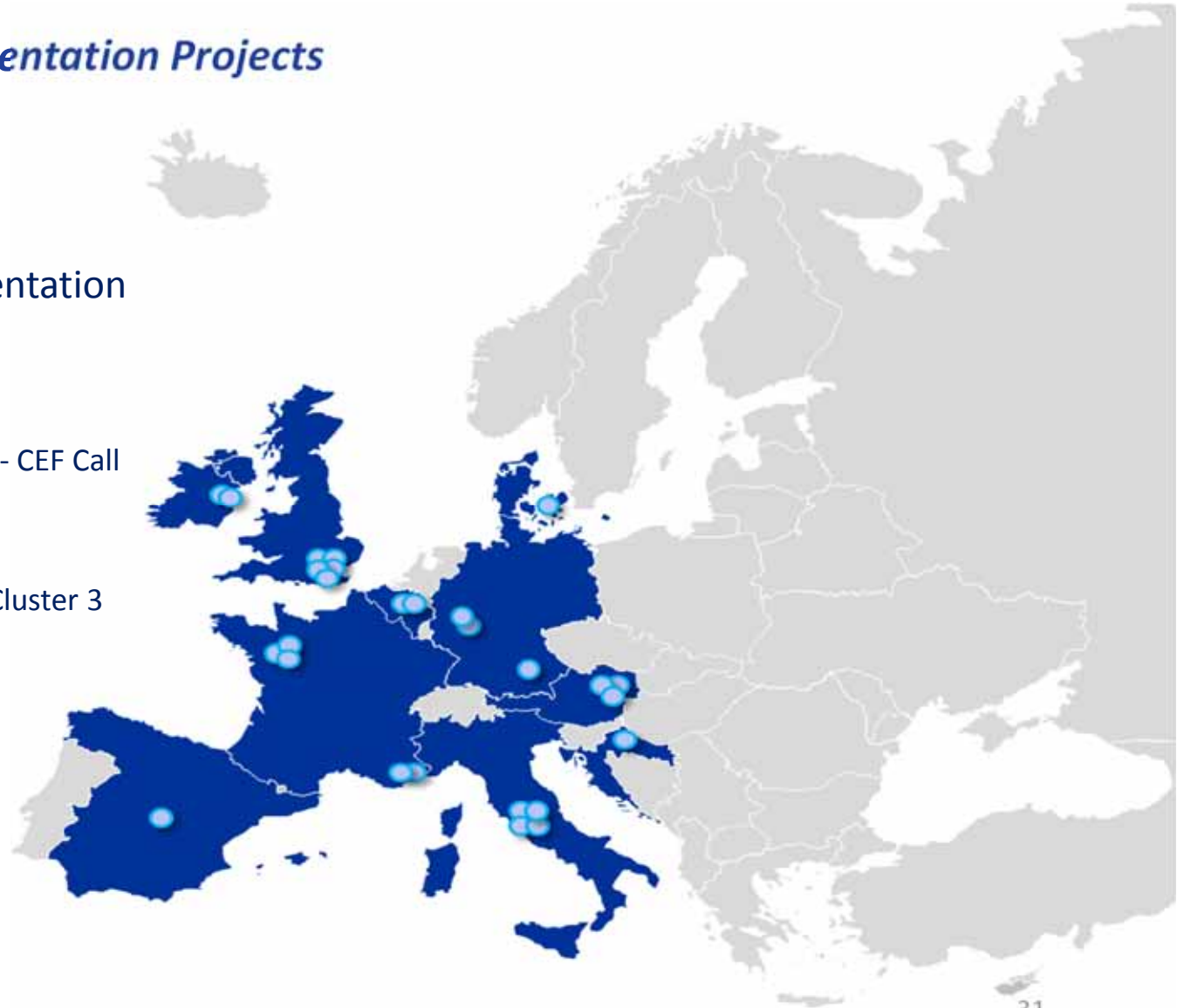


SESAR Deployment Manager within CEF Framework

Completed Implementation Projects

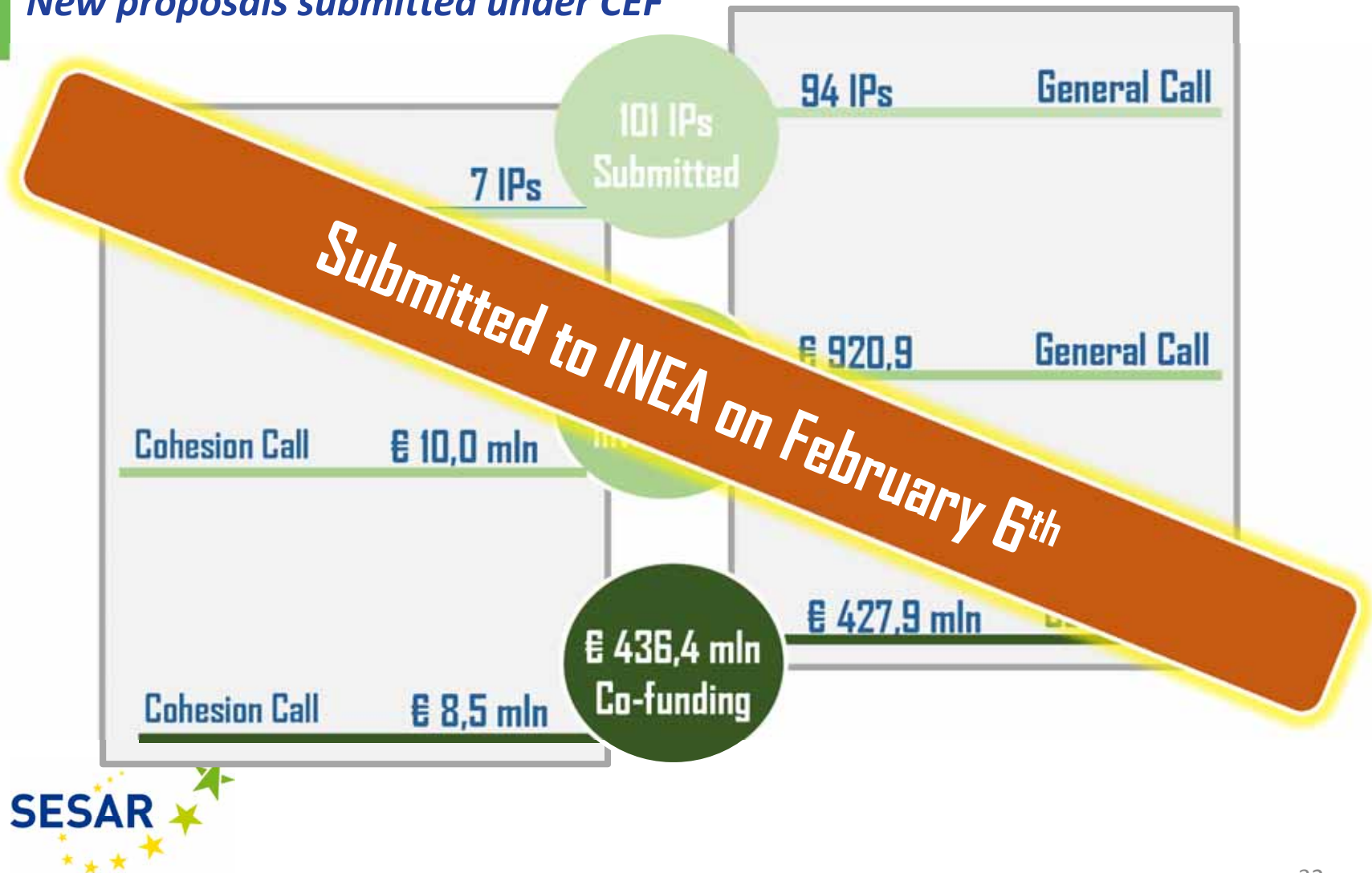
27 Completed Implementation Projects

- ✓ **26** DP Implementation - CEF Call 2014
- ✓ **1** SESAR Deployment Implementation 2015 – Cluster 3



SESAR Deployment Manager within CEF Framework

New proposals submitted under CEF



SESAR Deployment Manager within CEF Framework

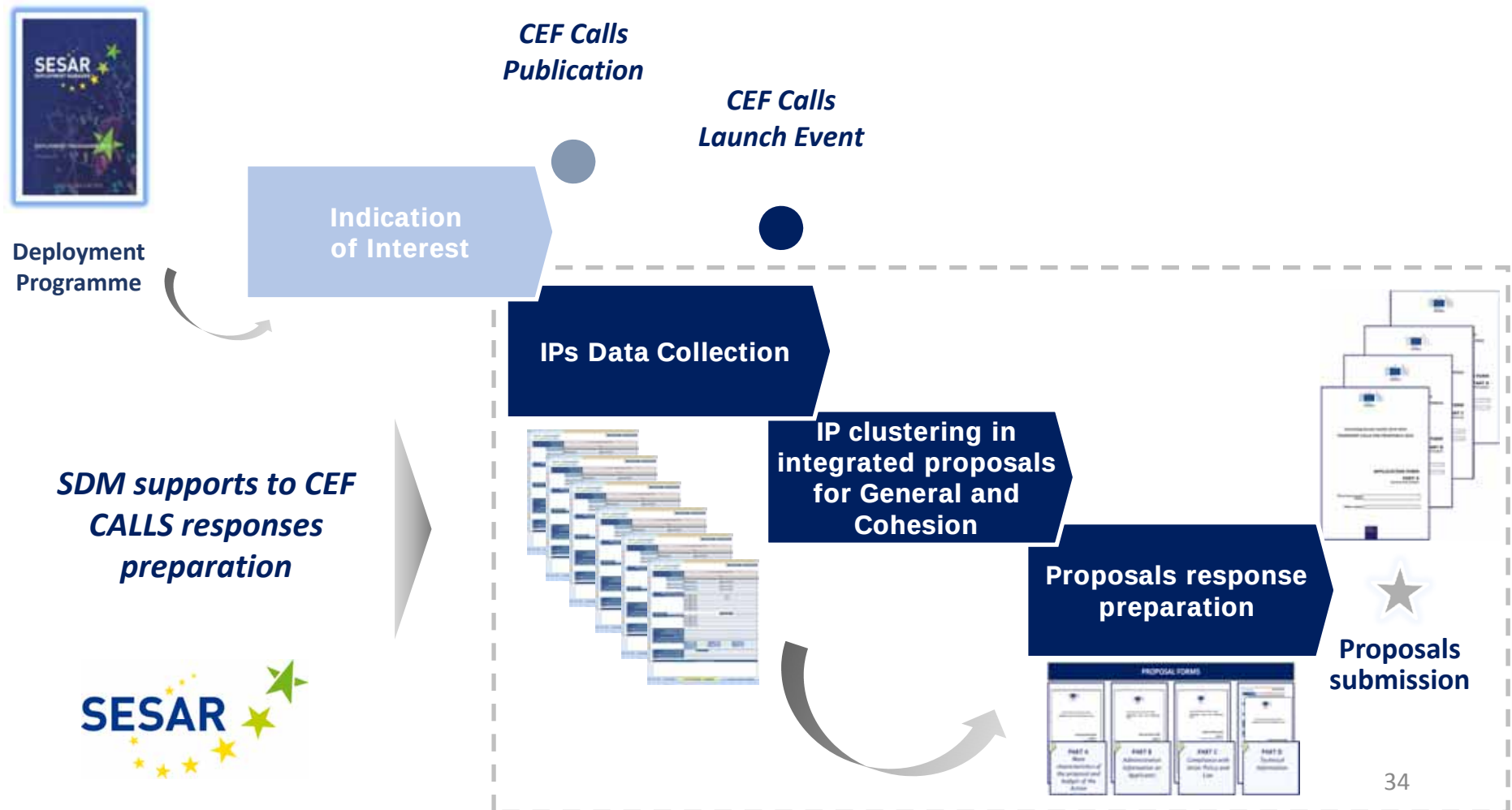
From Indications of Interest to Execution phase (1/2)

- Participation to CEF Transport calls through SDM coordination is mandatory for any candidate project which is PCP related in order to comply with CEF eligibility criteria and to ensure full alignment with Deployment Programme (DP)
- **SDM** acts as “**coordinator**” of all Implementing Partners’ responses to the CEF Call for Proposals submitted under funding objective 3.1.1 Single European Sky – SESAR, category 1. Common Projects
- SDM oversees processes to be followed by the Implementing Partners in order to comply with its role as “gateway” to INEA to accomplish requests and agreed deadline, facilitating the access to EC Funds



SESAR Deployment Manager within CEF Framework

From Indications of Interest to Execution phase (2/2)



2017 CEF Transport Blending MAP Call 1/3

- The **2017 CEF Transport Blending MAP Call for Proposals** has been published on 8th of February 2017, **making €1 billion** of funding **available** for **projects of common interest in the transport** sector aiming at maximising the leverage of private involvement and capital in the delivery of CEF Transport projects.
 - ✓ **40 million available for priority Single European Sky – SESAR**
- Timeframe:
 - ✓ 1st cut - off date - 14th of July 2017 (CET 17:00)
 - ✓ 2nd cut - off date - 30th of November 2017 (CET 17:00)
- **SDM** will act as a **coordinator** of proposals to be submitted under the funding objective 3, priority 3.1.1 Single European Sky, category 1 “Common Projects” aiming at supporting the timely and efficient implementation of the Single European Sky (SES), in particular the deployment of SESAR (Single European Sky ATM Research and Development).



2017 CEF Transport Blending MAP Call 2/3



Scrutiny of the projects vs the Deployment Programme and INEA Eligibility and Evaluation Criteria

Completeness of Proposals/Contribution to the description of the Global Project

Collection of the documents, uploading to the TENtec and submission before the deadline



Legal and Administrative Information (Part A, B, C)

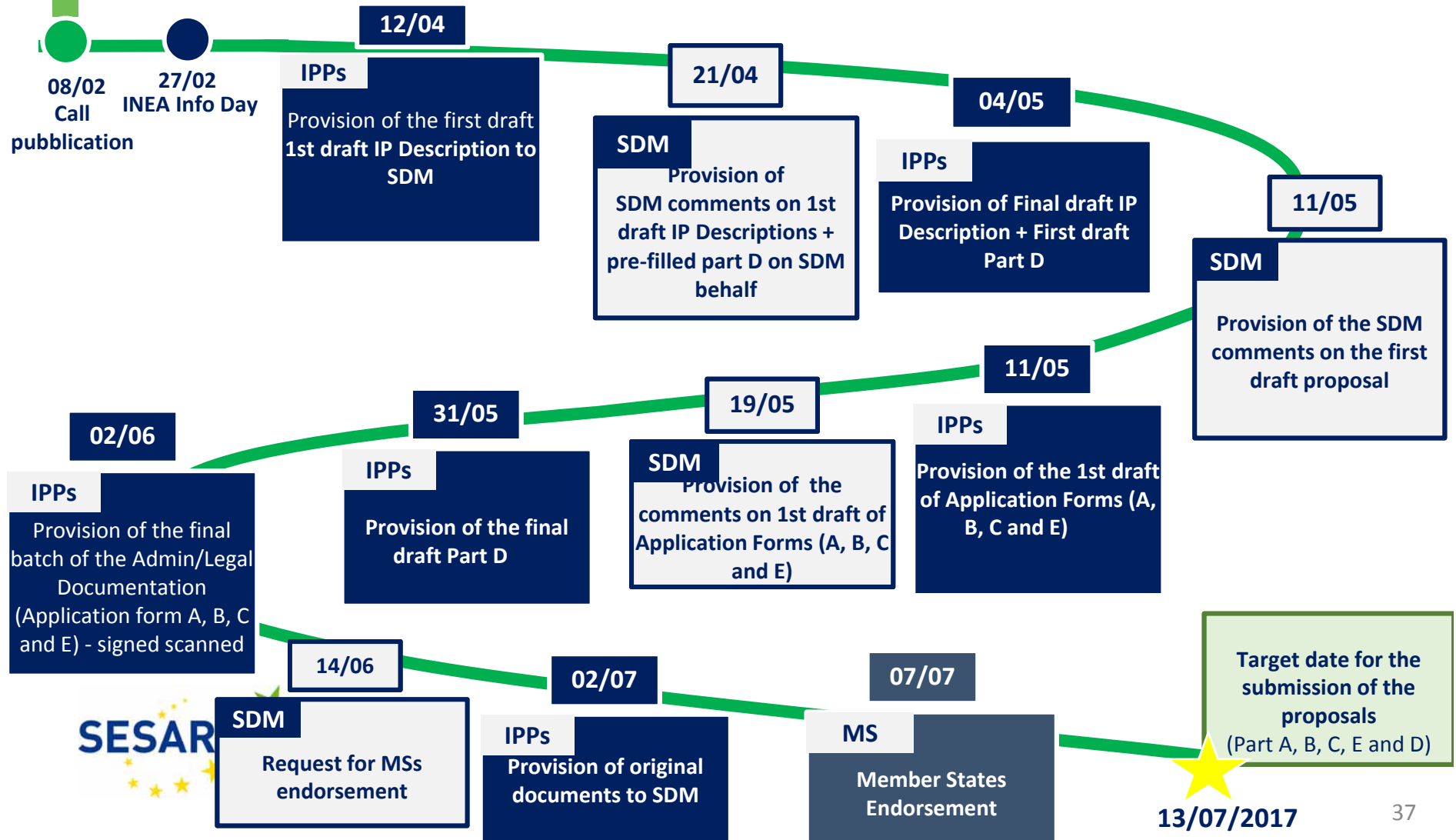
Ownership of the elaboration on the Technical Part - part D

Ownership in the elaboration of the Part E - Financial Information

Declarations of Compliance to EU Law/Policy



2017 CEF Transport Blending MAP Call 3/3



SESAR Calls

Information on the timeline for the next
SESAR 2020 Calls

Peter Hotham – Manuela Alfe

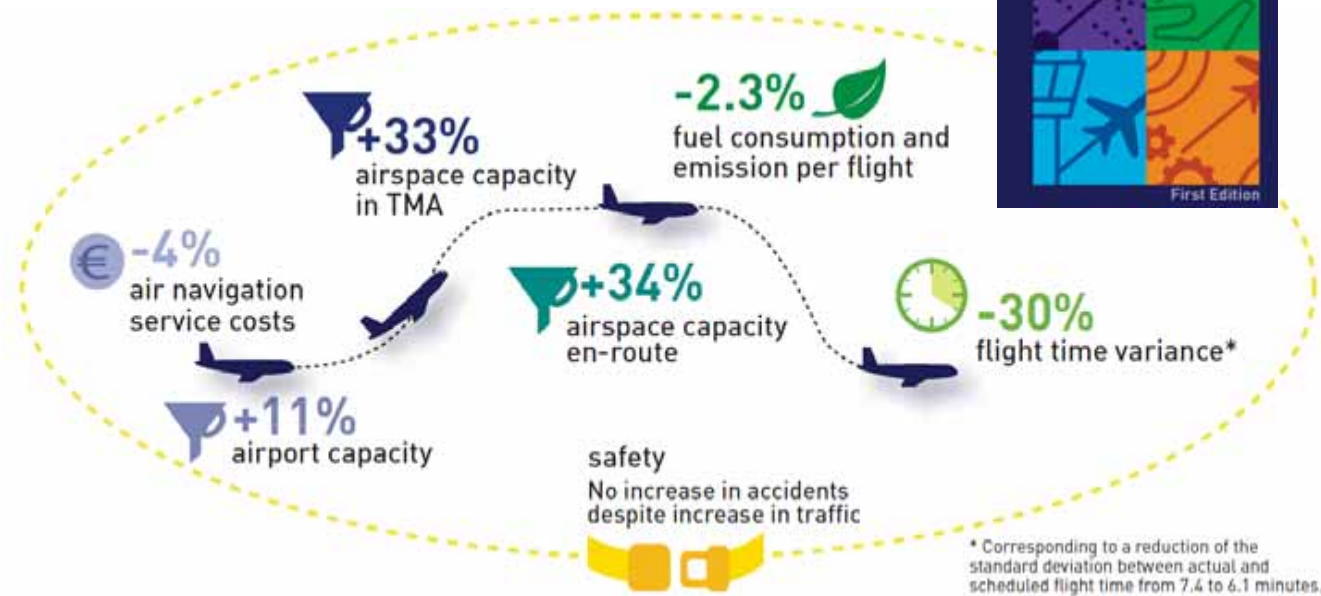


Where are we today?

- Building upon established results
- SES performance in a global context
- 53 grants awarded

Next steps

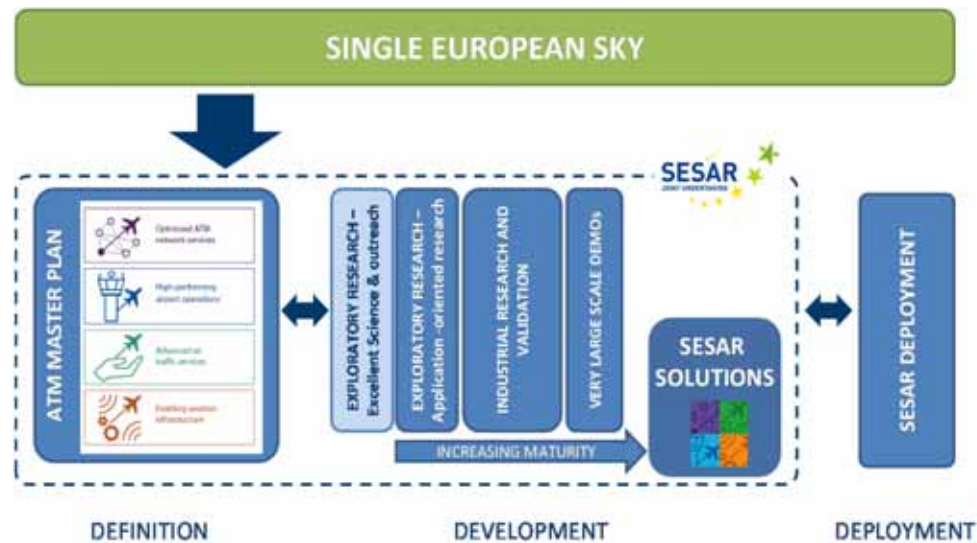
- Solutions delivered in SESAR 1 [SESAR Solutions Catalogue – First Edition]
- Solutions developed in SESAR 1, to be delivered in SESAR 2020
- Solutions to be developed in SESAR 2020



* Corresponding to a reduction of the standard deviation between actual and scheduled flight time from 7.4 to 6.1 minutes.



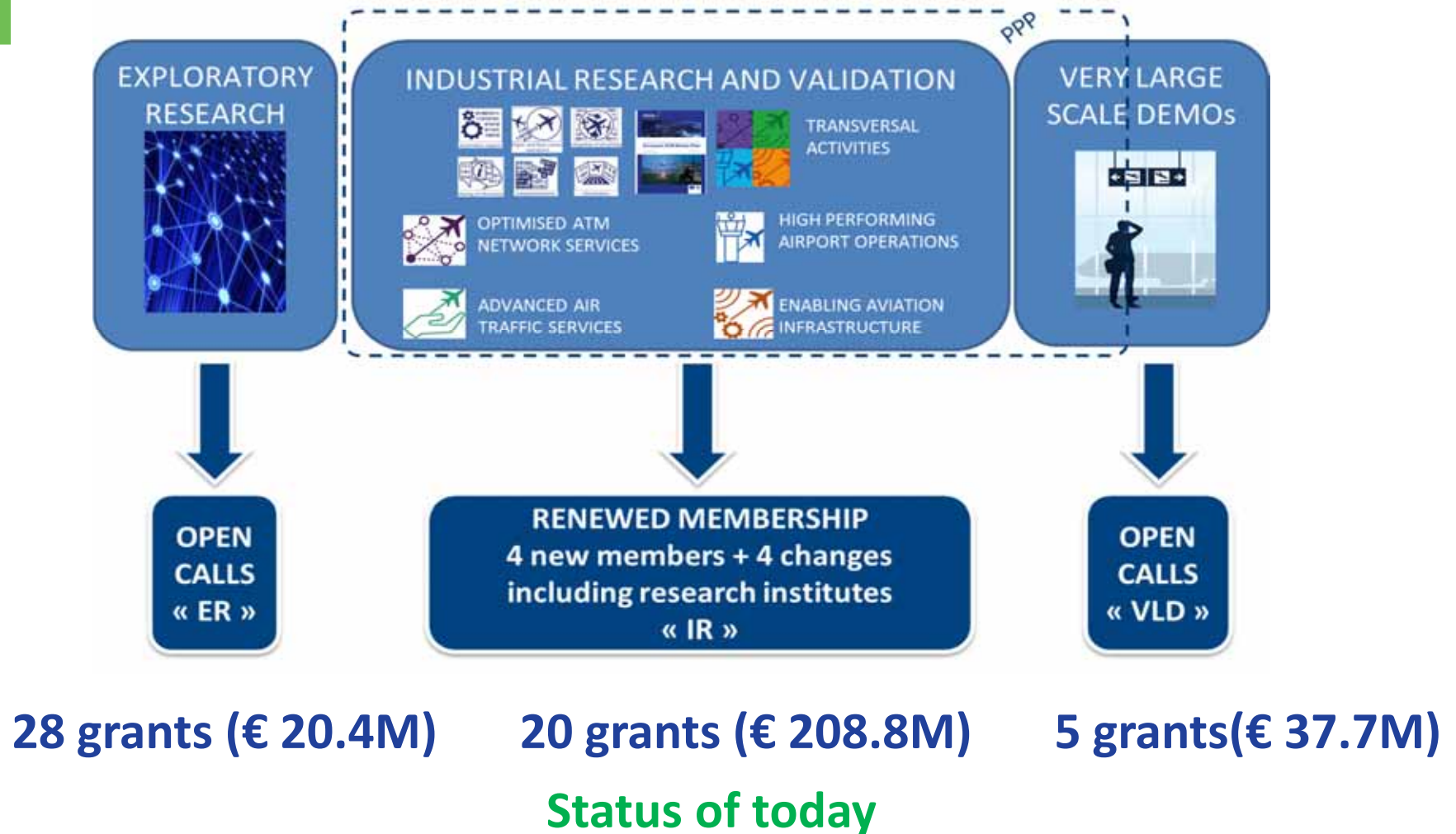
Programme objectives



- Align with EU Strategy & policy
- Realise the 'Pipeline' to Innovation
- Focus on the high-value results as Solutions
- Generate knowledge and develop skilled people



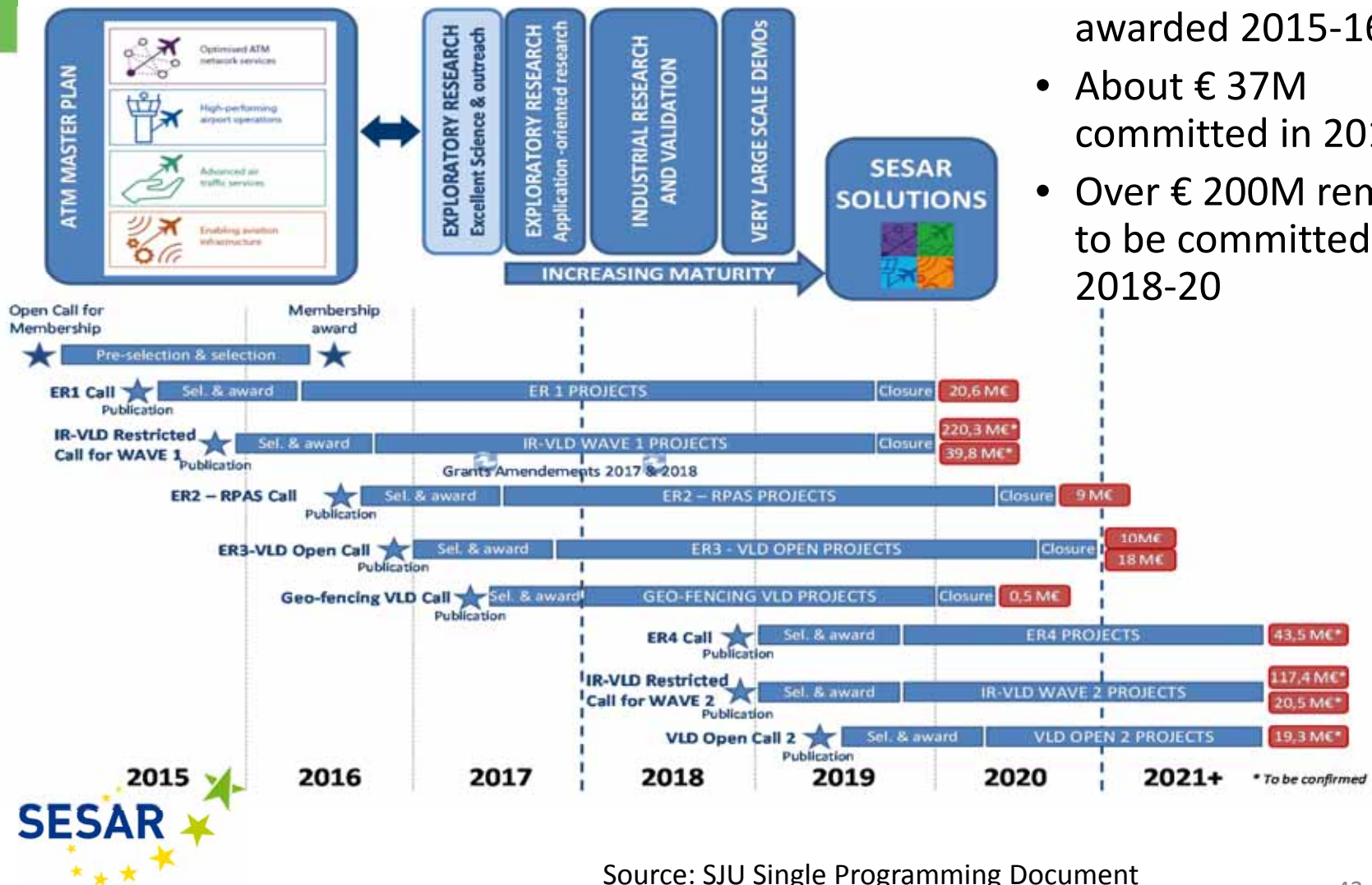
Programme overview



The forward plan

• Horizon2020 funds

- Over € 260M awarded 2015-16
- About € 37M committed in 2017
- Over € 200M remain to be committed in 2018-20



2017 Call activities

- **SESAR 2020 RPAS EXPLORATORY RESEARCH - CLOSED**
 - Entered grant preparation phase
- **SESAR 2020 EXPLORATORY RESEARCH AND VERY LARGE SCALE DEMONSTRATIONS - OPEN**
 - Call identifier: H2020-SESAR-2016-2
 - Deadline: 11 May 2017
 - 1 ER Topic for a Knowledge Transfer Network (c.4M€)
 - 5 ER Topics for Application-Oriented Research (c.6M€)
 - 6 VLD Topics for High Performing Aviation (c.10M€)
 - 2 VLD Topics for Global Interoperability (c.3M€)
 - 2 VLD Topics for Safe Integration of General Aviation, Rotorcraft & Drones (c.5M€)



Available information

- All relevant call documentation available on the [Participant Portal](#):



Available information

Click on any of the topics



Topic: [SESAR-ER3-01-2016: Knowledge Transfer Network \(KTN\)](#) Open

Publication date: 15 December 2016

Types of action: CSA Coordination and support action

DeadlineModel: single-stage

Opening date: 15 December 2016

Deadline: 11 May 2017 17:00:00

Time Zone : (Brussels time)

Topic conditions and documents

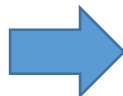
+ More

Please read carefully all provisions below before the preparation of your application.



Expand
here

Here you find
all relevant
documentation



8. SJU Additional documents:

[ER/VLD Call Technical Specifications](#)

[SJU Annual Work Programme](#)

[ATM Master Plan](#)

[Project Execution Guidance for SESAR 2020 Exploratory Research \(ER3\)](#)

[Horizon 2020 Rules for Participation](#)

[Horizon 2020 Regulation of Establishment](#)

[Horizon 2020 Specific Programme](#)

Guidance on how to submit

- **Read all relevant documentation on the participant portal – and in particular topic conditions and documents**
- **Consult the guidance on proposal submission in the H2020 online manual:**
http://ec.europa.eu/research/participants/docs/h2020-funding-guide/grants/applying-for-funding/submit-proposals_en.htm
- **Send your questions to the SESAR JU Call Helpdesk:**
info-call@sesarju.eu
- **Do not submit at the last minute!**





Thank you for your attention

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World ATM Congress 2017

Operated by CANSO in partnership with ATCA