



FROM INNOVATION TO SOLUTION

THE MASTER PLAN CAMPAIGN

Workshop RPAS (WS 03) – 22 January 2015



founding members



The objectives of the campaign

Campaign objectives

Following the endorsement from the PC, SPP and ADB of the PC Tiger Team recommendations the following were agreed to constitute the success criteria of the 2015 campaign:

1. Ensure the necessary alignment with **SESAR 2020**
2. Strengthen **performance driven** approach towards “performance needs” in pre-determined time horizons and take into account related priorities
3. Identify **perimeter of future CPs**
4. Provide high-level view of **architecture evolution options** and impact on business models
5. Provide greater levels of **predictability & confidence with regards to deployment dates** (taking into account in particular industrialization phase)
6. Include **RPAS** integration and stronger focus on **cybersecurity** aspects
7. **Emphasize SESAR achievements** to further build momentum

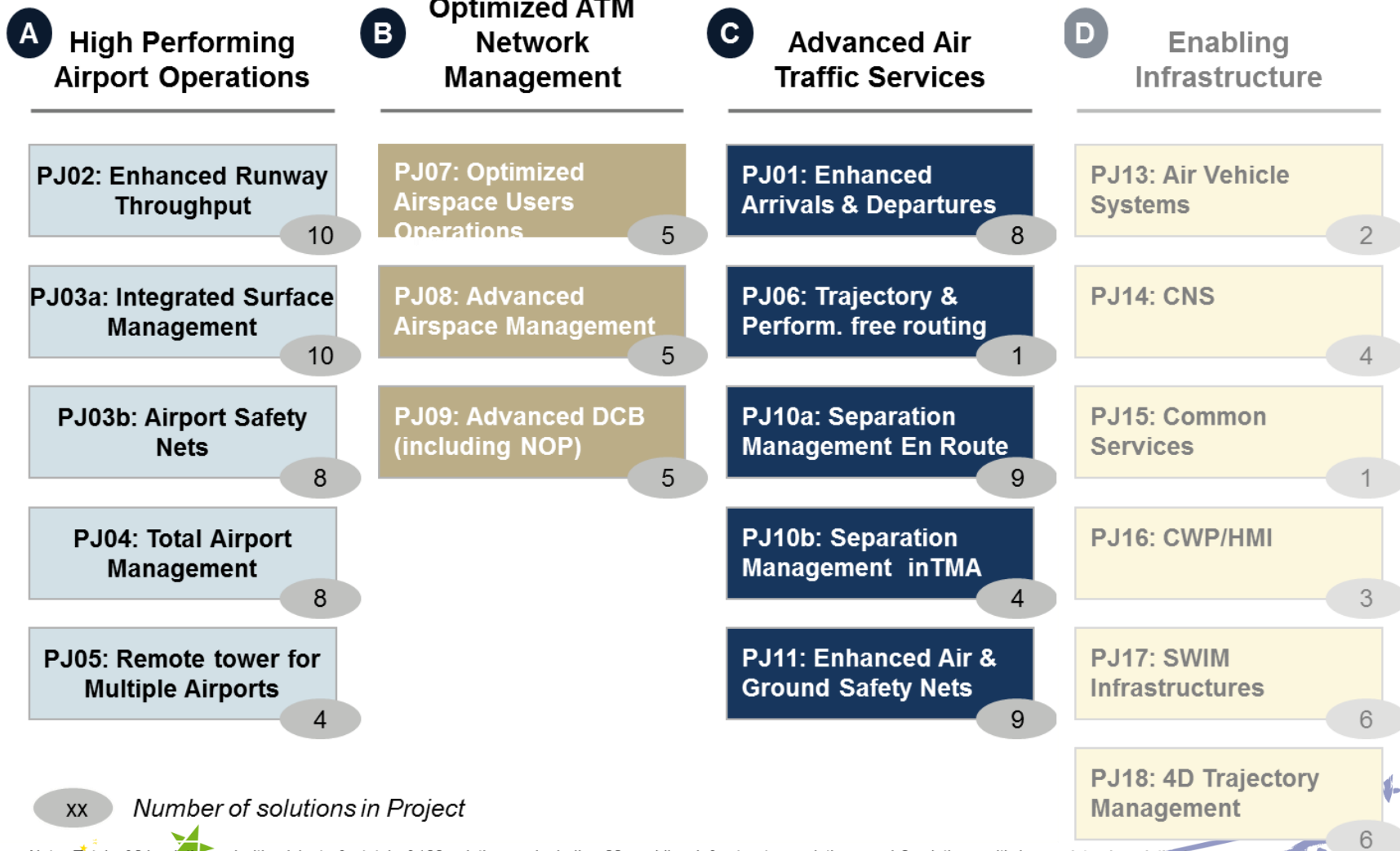
- The next edition is intended to be delivered for formal consultation at a moment in time when the SESAR 2020 programme is expected to be launched. It is therefore essential to ensure the necessary alignment between the two.
- This may imply that elements that are in negotiation in the context of SESAR 2020 need to be refined to take into account the results of the campaign.

Close interactions between SESAR 2020 and the ATM MasterPlan teams required over the course of 2015



Initial work has focused on 86 solutions contained within the first three SESAR 2020 pillars

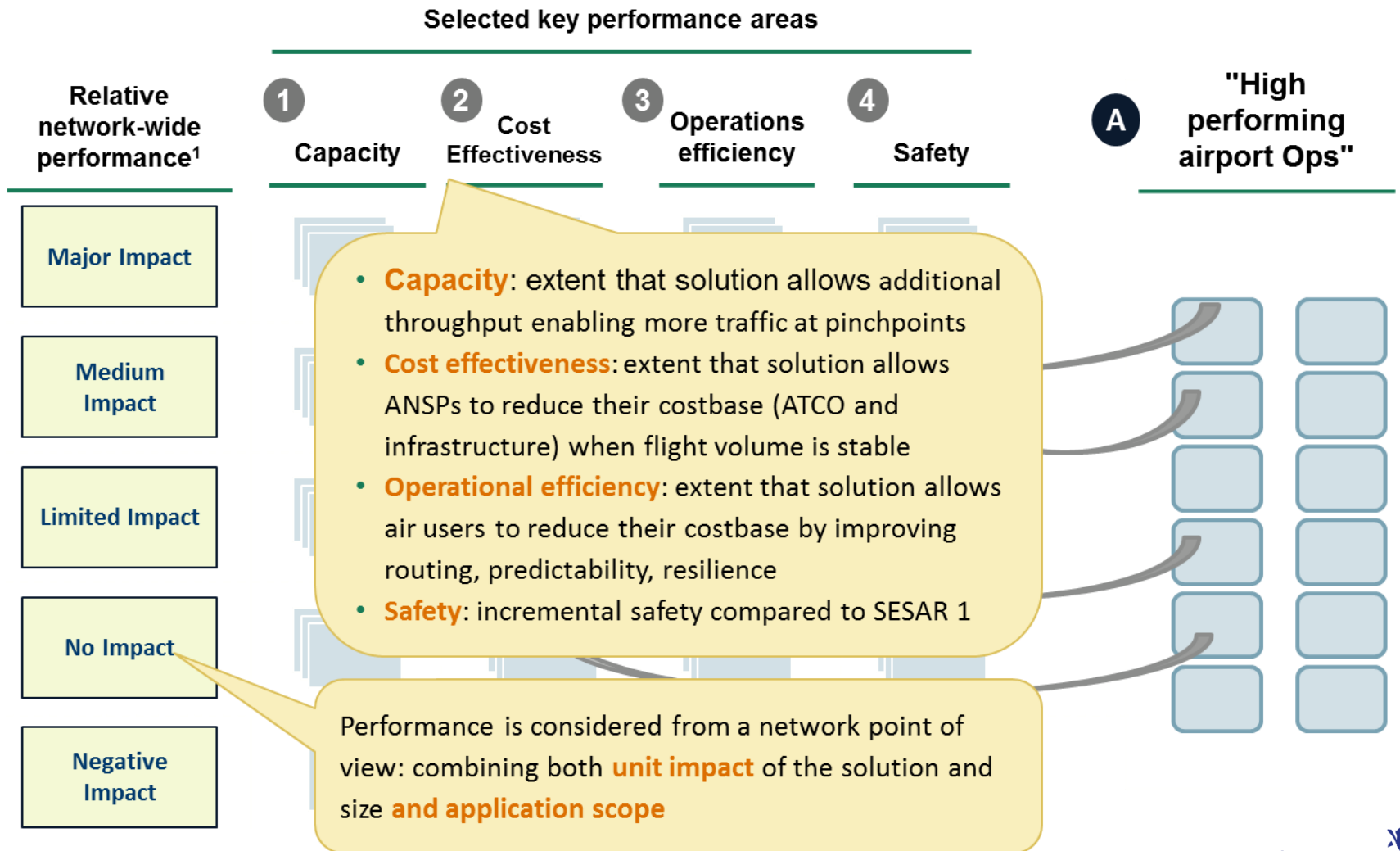
Focus so far



xx Number of solutions in Project

Note: Total of 84 solutions prioritized (out of a total of 108 solutions - including 22 enabling infrastructure solutions and 2 solutions with incomplete description)

Performance was assessed by the reference team ranking solutions across four key performance areas



Assessment of each solutions need for coordination

No synchronized deployment required



Solution can be deployed locally without need for synchronization with Air-Ground or Ground-Ground integration

Typically solving a local performance need

Standards required – no sync. deployment



Solution can be deployed locally without need for synchronization with Air-Ground or Ground-Ground integration

Common standards are required to ensure consistency across the network

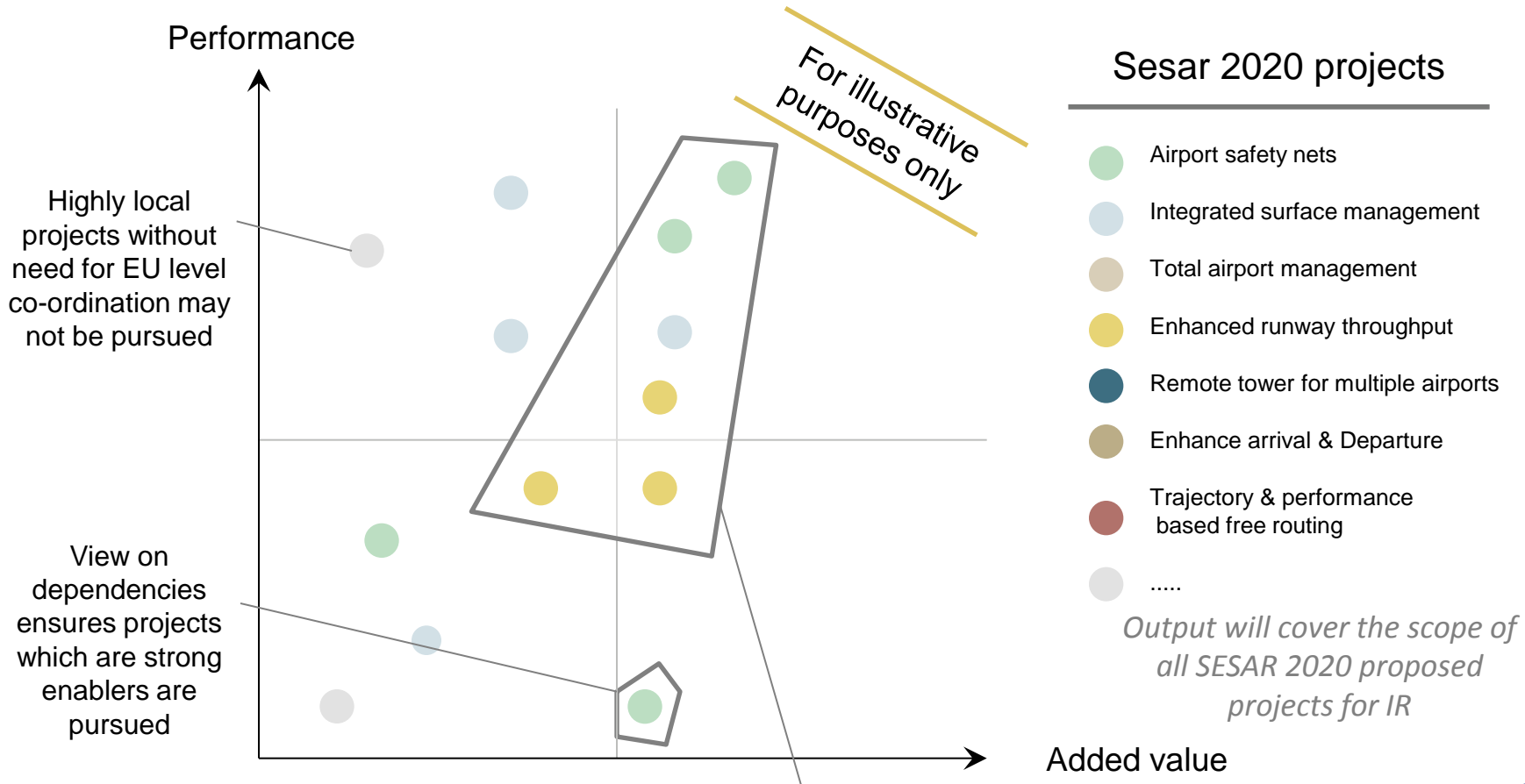
A-A/ A-G/ G-G¹ synchronized deployment



Solution requires a need for coordination and synchronization in terms of Air-Air, Air-Ground or Ground-Ground integration in order to provide benefits

- Eg: new airborne equipments

Next: combine this scoring, with a view on the project dependencies, and expert judgment to develop proposals for smart clusters



Within the SESAR 2020 projects will map at the level of SESAR solutions and then smartly group to take into account dependencies

Strengthen performance driven approach

- The next edition shall be articulated more around the **contribution to performance** in pre-determined time horizons with a particular attention to the period **2020+**
- **Growing needs in the area of cost-efficiency**
- Gradual removal of the emphasis on the notion of “steps” at Level 1 in favor of a **clearer articulation Performance Needs (How Much) - SESAR Solutions (What)** in these time horizons

Identify perimeter of future CPs

- The MP already aims at **prioritising** a set of essential changes.
- This analysis has to be deepened in order to **pre-identify future ATM functionalities** that could become part of a Common Project considering that the definition of the next Common Project should be foreseen shortly after the next MP update.
- This will support further maximising levels of complementarity between the MP (“planning view”), Common Projects (“business view”) and relevant SESAR Deployment monitoring mechanisms (“project view”).
- The final decision on establishing common projects remains with the Commission.

Provide high-level view of architecture evolution options and impact on business models

- The current version of the ATM Master Plan does not provide a high-level view of the technical architecture evolution which implies that there is no single strategic reference point for both R&D and deployment.
- Although the long-term objective is to provide such a view for the evolution of the whole ATM system, the ambition level for Edition 2015 will be limited in a first step to provide it for the elements that would fall into the perimeter of future Common Projects.
- This view will provide a strategic view on the organisational logic for related ATM business processes and supporting technical infrastructure. It will also reflect the integration and standardisation requirements of the ATM system business model.

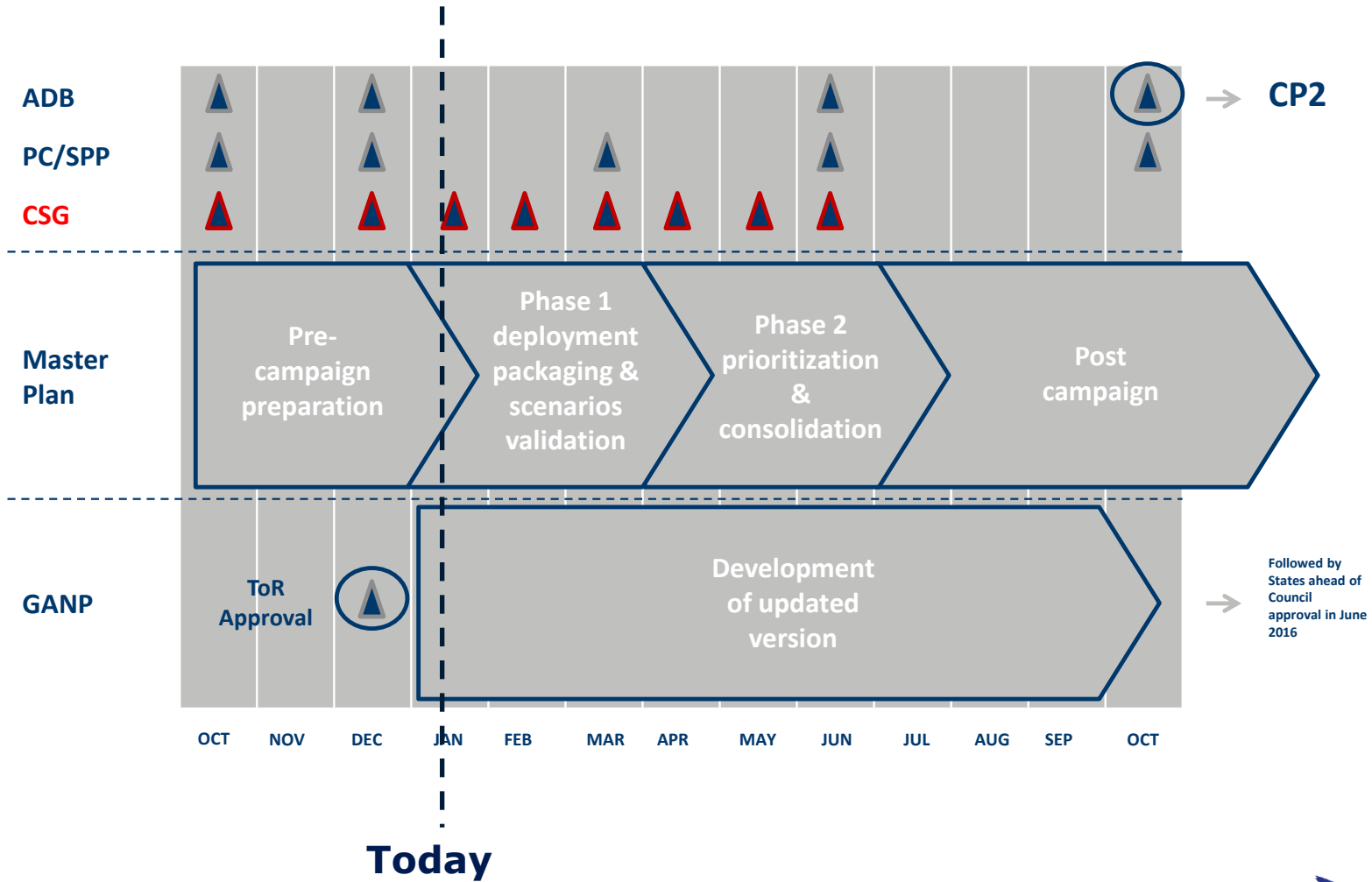
- The recent PCP experience has shown that there is a need to significantly **increase confidence** in V4/V5 start/end dates by defining a process to secure operational stakeholder's commitment on the plan (together with standardisation bodies and EASA).
- Defining **end of deployment dates** is also important to be able to determine the investment profile of SESAR changes as well as the expected contribution to performance over time.

- Following the establishment of the **RPAS** Roadmap by the European RPAS Steering Group and its handover to the Commission in 2013, the SESAR JU has established an internal RPAS Project Team under SJU leadership with the aim to identify and define the needs for civil RPAS integration. One of the objectives of this team is to provide input to the Campaign.
- In addition, as the future ATM system will more strongly rely on SWIM services, the SESAR JU has launched a **cyber-security** study which is expected to conclude by April 2015. The study focuses on the definition of an information security policy to steer to ensure that future SESAR solutions adequately manage-cyber security aspects without becoming an obstacle to the effective deployment and to interoperability.

- The MP is also a communication tool for the European Union in the international scene. That is why SESAR achievements both from an R&D and Deployment perspective should be further highlighted in the future edition.

The time line

Phasing of the activities



The decision-making process

MP Campaign
start
Dec 2014

30 June 2015

Formal Board consultation
~4-6 months

31 December
2015

ATM Master
Plan update
proposal



SESAR
JOINT UNDERTAKING

Executive
Director delivers
the MP **update
proposal** to the
Administrative
Board

Commission
Adopts EU position
through comitology

*Opinion of the
Single Sky Committee*

College
Decision

EUROCONTROL
adopts its position through
consultation/approval
procedure

*EUROCONTROL
provisional council*

**SJU
consolidates
ATM MP
update
proposal with
the positions of
Board
& resubmits to
the Board**



SESAR
JOINT UNDERTAKING

Administrative
Board adopts
**final version of
the updated MP**


Other Board Members
establish their positions

ICAO

Development of the next version of the GANP/ASBUs

Followed by State level
consultation ahead of Council
approval in June 2016

The Master Plan is the EU's "ambassador" for ATM modernisation worldwide, it will feed global master planning at ICAO level

A view from an airplane window showing a sunset over a dark landscape. The sun is low on the horizon, creating a bright orange and yellow glow that transitions into a deep blue sky. The foreground shows the curved edge of the airplane window frame.

THANK YOU FOR YOUR ATTENTION
QUESTIONS?

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