

INFORMATION DAY

SESAR 3 Digital European Sky

Calls for Proposals

22 April 2022

AGENDA

INFORMATION DAY

SESAR 3 Digital European Sky Calls for Proposals

Virtual event

22 April 2022

- | | |
|-------|---|
| 09:30 | Digital European Sky (DES) programme overview
Benoit Fonck |
| 09:40 | DES Exploratory Research – first call
Luca Crecco |
| 10:00 | DES Industrial Research and validation – first call
Alfredo Gomez |
| 10:20 | Programme management
Serge Bagieu |
| 10:40 | Horizon Europe Call evaluation and procedures
Manuela Alfé |
| 11:00 | Financial aspects of grants – key messages
Katty Hancq |
| 11:20 | Tips and tricks for proposal submission
Manuela Alfé |
| 11:30 | Questions and answers |
| 12:00 | ENDS |

SESAR 3 DIGITAL EUROPEAN SKY OVERVIEW

Benoit Fonck
CHIEF PROGRAMME

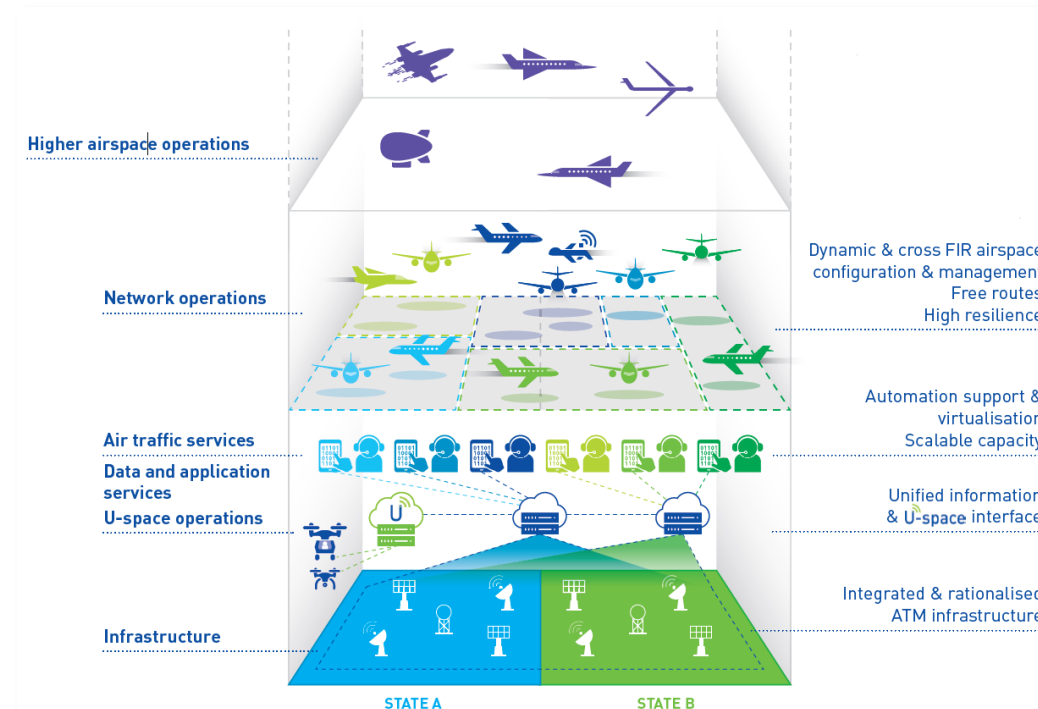
New vision aims at delivering a digital European sky by 2040

Fully scalable ATC system with strong air-ground integration

Relying on a **digital ecosystem**

Elimination of environmental inefficiencies caused by the aviation infrastructure

Ensuring that it offers solutions that will fully exploit the potential offered by the next generation aircraft for cleaner and quieter flight



SESAR 3 JU a new instrument to implement the vision



Accelerate through research & innovation the delivery of an inclusive, resilient & sustainable Digital European Sky



50+ founding members representing entire aviation value chain (incl. new entrants)



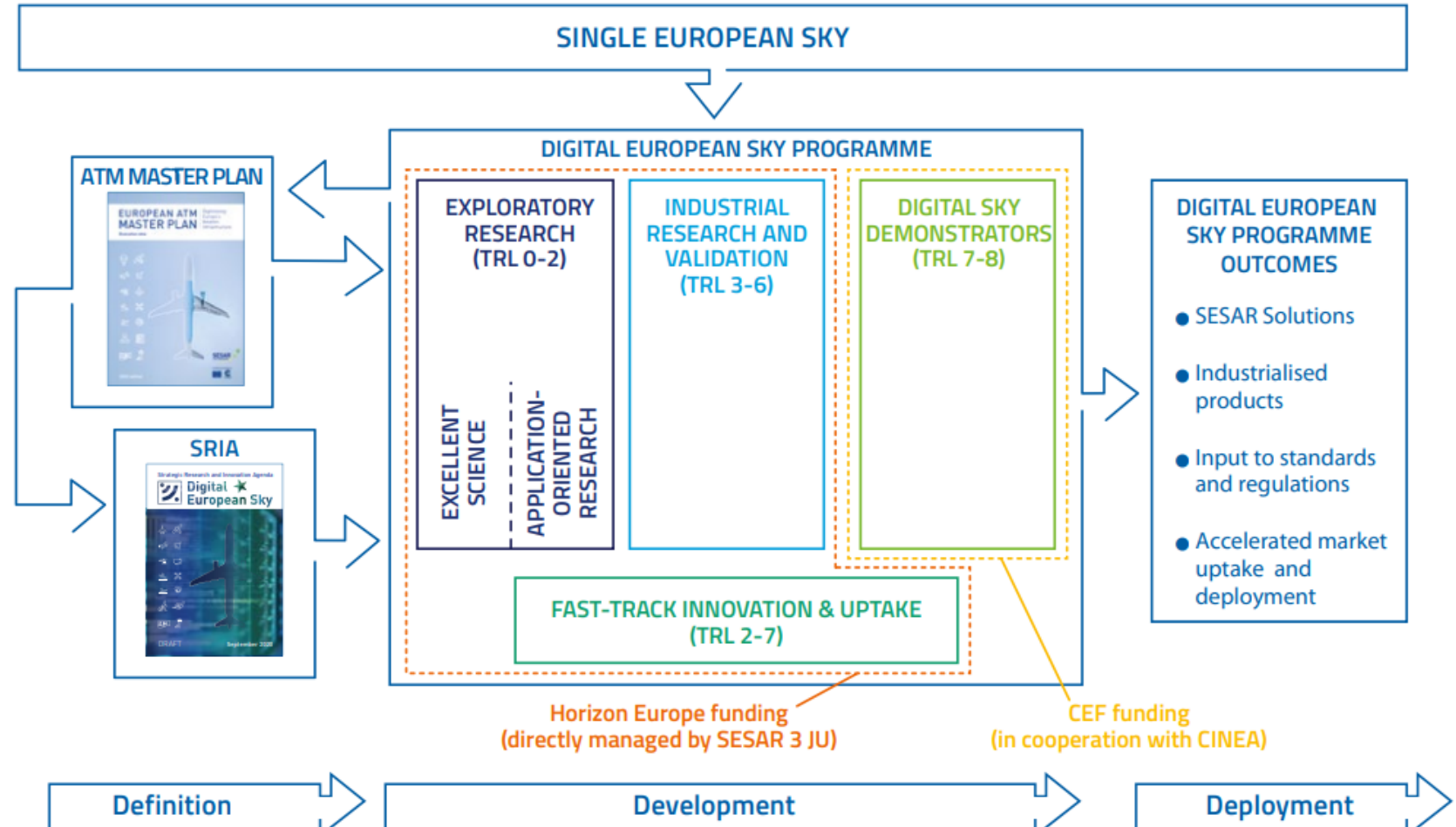
- Horizon Europe - EUR 600 million
- Eurocontrol – up to EUR 500 million (in-kind & financial contributions)
- Industry - EUR 500 million minimum (in-kind & financial contributions)

Additional funds via Connecting Europe Facility (in coordination with CINEA) to the value of at least EUR 200 million.



Connected to policy and regulation

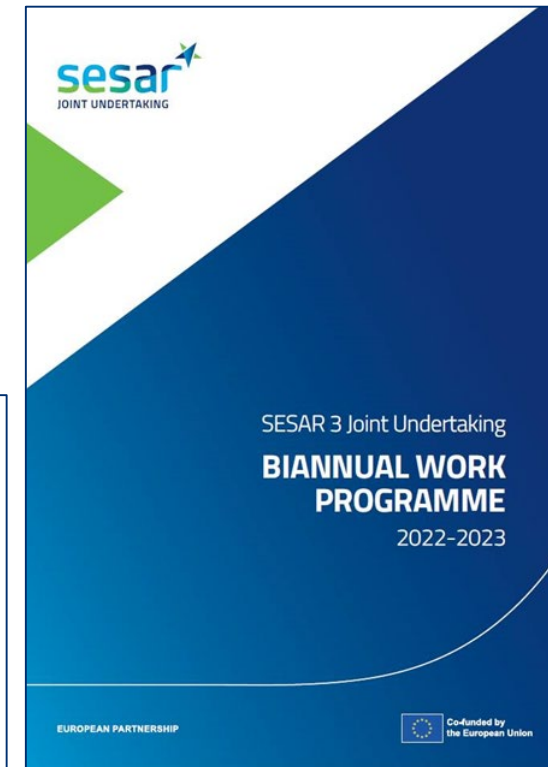
The SESAR 3 JU innovation pipeline is part of the broader SESAR project (covering definition) and of the Single European Sky initiative



SESAR 3 Work Programmes



- ❑ Establishes the framework for the definition, planning and execution of the SESAR 3 JU operations from 2021 to 2031;
- ❑ Defines the overall lifecycle of the R&I programme;
- ❑ Defines the main principles for budget allocation.

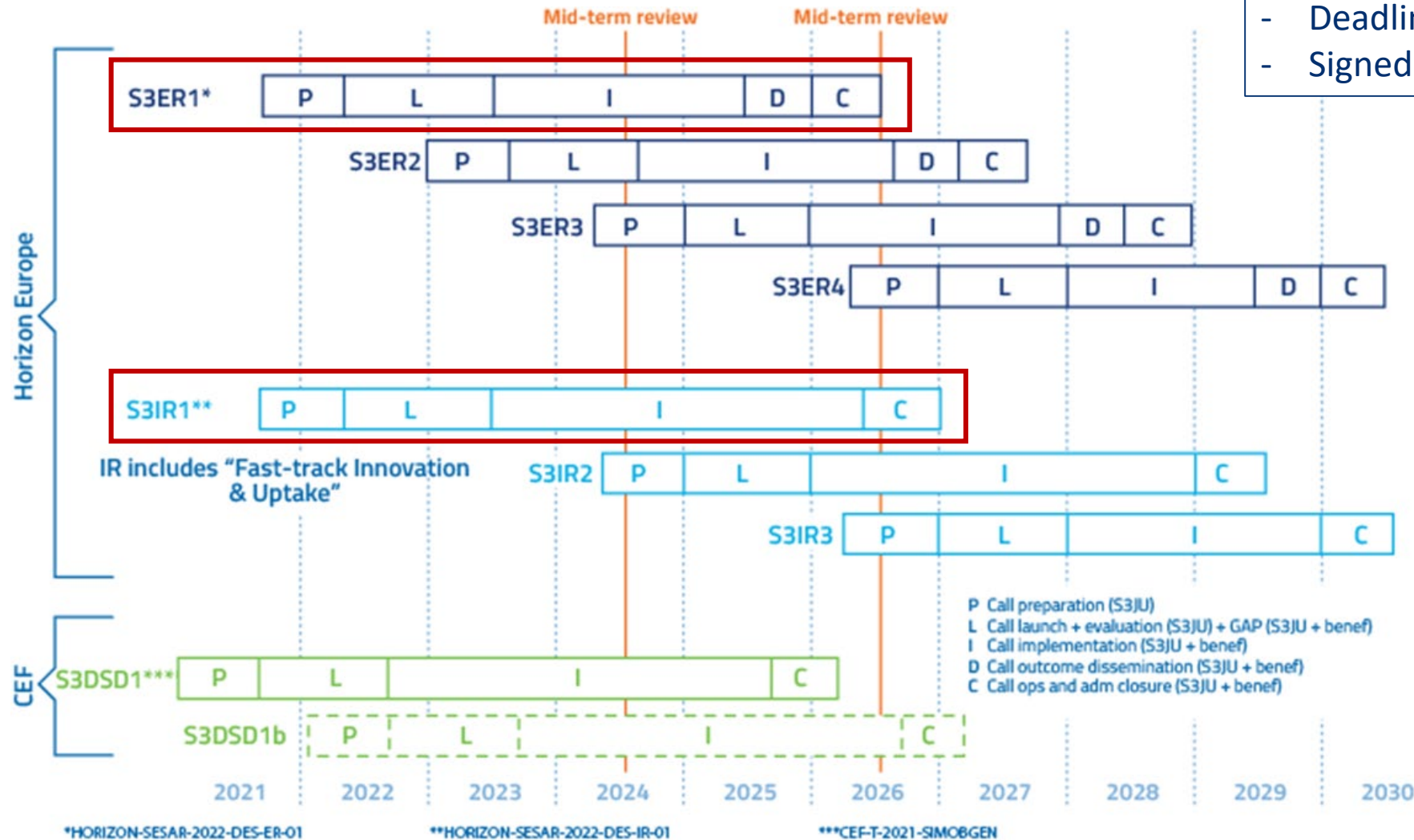


- ❑ Outlines the scope of R&I activities to be performed in 2022 & 2023;
- ❑ Defines the Calls Conditions and Technical Content:
 - Annex II section 2.1 : Call HORIZON-SESAR-2022-DES-ER-01
 - Annex II section 2.2 : Call HORIZON-SESAR-2022-DES-IR-01

SESAR 3 Calls

S3 ER1/IR1 calls schedule

- Publication : 7 April 22
- Info day : 22 April 22
- Deadline : 13 October 22
- Signed Grants : before Summer 23



Digital European Sky research and innovation flagships ("Destinations" for Horizon Europe)



Connected and
automated ATM



Multimodality and
passenger experience



Air-ground integration
and autonomy



Aviation
green deal



Capacity-on-demand
and dynamic airspace



Artificial Intelligence
for aviation



U-space
and urban air mobility

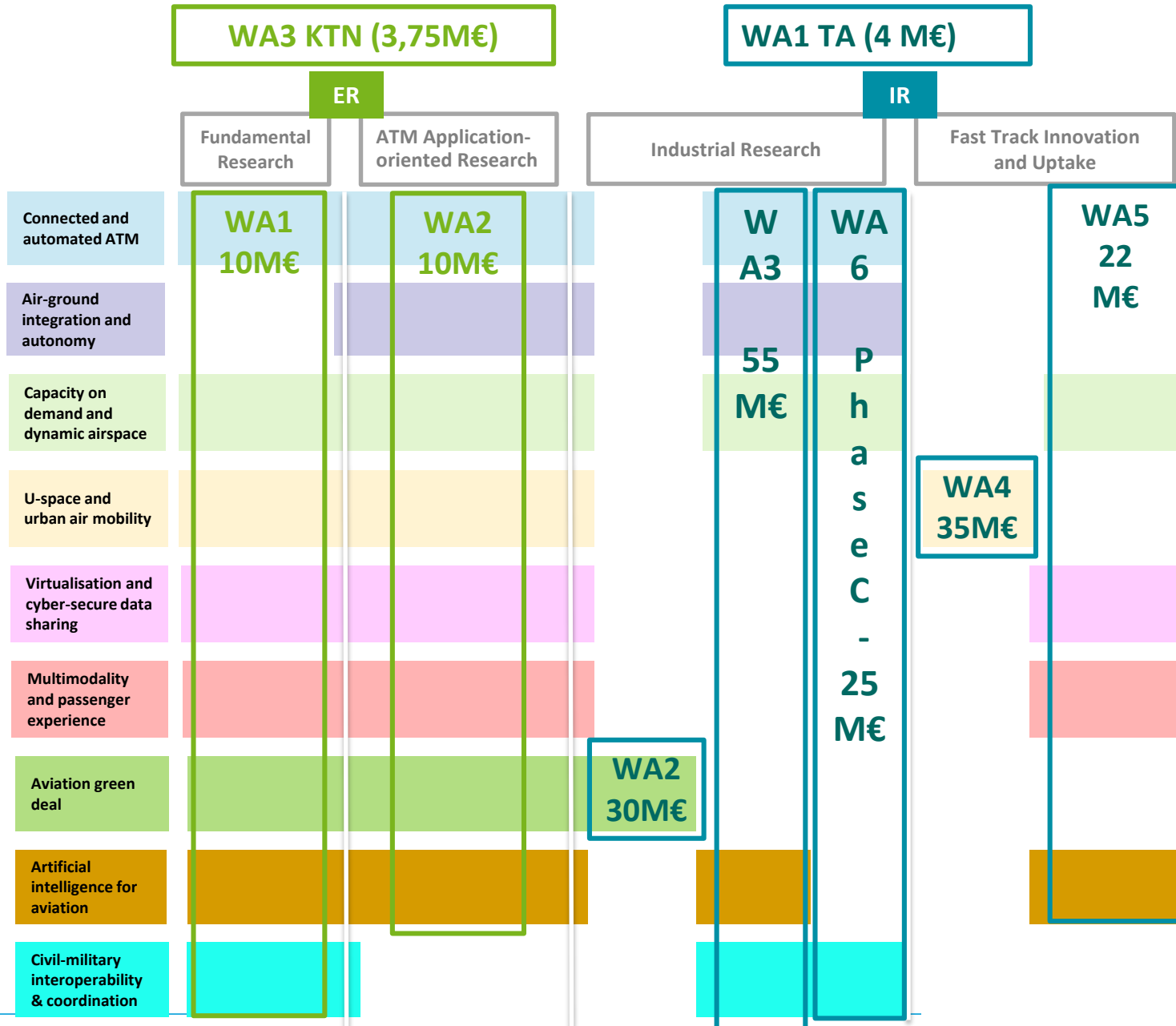


Civil/military interoperability
and coordination



Virtualisation and
cyber-secure data sharing

Calls structure



- ☐ Innovation Flagships are the backbone of the calls;
- ☐ Working Areas (WA) defined per R&I Pillar;
- ☐ WA addresses some flagships;
- ☐ Topics per WA & Flagship;
- ☐ Budget allocation per WA.

DES EXPLORATORY RESEARCH

LUCA CRECCO
ATM Expert

SESAR 3 Programme principles (ER proposal template section 2.1)

Proposals shall in particular demonstrate:

- ☐ a high potential contribution to establishing Europe as the most environmentally friendly to fly in the world
- ☐ a significant contribution to the realization of the Digital European Sky vision (SESAR Phase D)
- ☐ a clear breakthrough potential (vs business as usual) in long terms (2028-2029 and beyond)

WA 1 Fundamental science and outreach

- ❑ Comprises the research necessary to develop new concepts for ATM beyond those identified in the European ATM Master Plan
 - ❑ The list is not intended as prescriptive; proposals for work on areas other than those listed in the Call are welcome provided they include adequate background and justification to ensure clear traceability with the SRIA R&I needs of a given topic
 - ❑ Target is TRL1
- *Moving from magnetic to geographic bearings, use of Slant Visual Range (SVR) beyond RVR*
 - *Development of methodologies for environmental impact assessment of U-space operations*
 - *Quantum Computing in ATM, Application of Business Intelligence (BI) to the NM organisation*
 - *UAM impact on multimodality, multimodality and environment*
 - *Atmospheric physics for aviation (non-CO2/extreme weather events)*
 - *Human-centric AI, AI for higher automation*

TOPICS



Connected and automated ATM



Capacity-on-demand and dynamic airspace



U-space and urban air mobility



Virtualisation and cyber-secure data sharing



Multimodality and passenger experience



Aviation green deal



Artificial Intelligence for aviation



Civil/military interoperability and coordination

WA 2 ATM application-oriented research

- ❑ Comprises the research aiming at bridging the results of ATM application-oriented research with the higher maturity ATM research performed as part of S3JU Industrial Research activities, and providing the necessary scientific support to ATM change.
 - ❑ The list is not intended as prescriptive; proposals for work on areas other than those listed in the Call are welcome provided they include adequate background and justification to ensure clear traceability with the SRIA R&I needs of a given topic
 - ❑ Target is TRL2
- *TBO Machine-to-machine flight-deck-ATC negotiation, Digital coupled AMAN-DMAN function*
 - *Frequency management, Advanced A/G integration for General Aviation*
 - *(Future) Digital network services, Improved prediction of Network evolution*
 - *New virtualisation business model*
 - *Multimodal governance*
 - *Geometric altimetry*
 - *AI for complex operations*

TOPICS



Connected and automated ATM



Capacity-on-demand and dynamic airspace



U-space and urban air mobility



Virtualisation and cyber-secure data sharing



Multimodality and passenger experience



Aviation green deal



Artificial Intelligence for aviation



Civil/military interoperability and coordination

WA 3 : Knowledge transfer network

- ❑ Building on the Knowledge Transfer Network being developed during SESAR 2020, the challenge is to keep SESAR exploratory and industrial research aligned, to support and encourage collaborative research on future and emerging innovative ideas and expertise, for the benefit of the evolution of the European ATM system and its people (i.e. further nurture the European future ATM skilled workforce).
- ❑ Key content and activities
 - ATM concepts roadmap
 - Wiki “one-stop knowledge hub”
 - Catalyst finding
 - SESAR Digital Academy
 - Events, publication & website

DES INDUSTRIAL RESEARCH

ALFREDO GOMEZ
Head of Release Management & Validation

SESAR 3 Programme principles (IR proposal template section 2.1)

Proposals shall demonstrate, when relevant:

- ☐ a high potential contribution to establishing Europe as the most environmentally friendly to fly in the world
- ☐ a significant contribution to the finalization of the SESAR Phase C as developed in SESAR 2020
- ☐ a significant contribution to the realization of the Digital European Sky vision (SESAR Phase D)
- ☐ the need for finding a common solution across the European Network (vs local) with a clear need for standardisation
- ☐ a clear breakthrough potential (vs business as usual) in a medium (2025) and long (2028-2029) terms

WA 1 Transversal Activities

- ❑ Coordination & Support Action (CSA) for service provision to SESAR 3 JU (not independent projects)
- ❑ Support the Programme needs under the leadership of the SESAR 3JU

- ❑ *Performance management and network impact assessment*
 - *Maintenance of performance framework and coaching on methodologies*
 - *Consolidated performance assessment and gap analysis*
 - *Multi-solution impact assessment*

- ❑ *Master planning and monitoring*
 - *ATM MP L3 planning and reporting*
 - *Consolidated CBA*
 - *Develop deployment scenarios of SESAR solutions*
 - *Additional support activities on the SESAR 3 JU request (e.g. ATM MP L1 update, Content Integration)*

WA 2 Industrial research and validation topic addressing the aviation green deal

TOPIC



Aviation
green deal

- ❑ Goal: contribute to European Green Deal (↓90% greenhouse emissions in transport in 2050)
 - ❑ Address both global and local environmental impacts
 - ❑ Target is TRL6
-
- *Wake Energy Retrieval*
 - *Flexible eco-friendly clearances*
 - *TBO trajectory revision via CPDLC uplink*
 - *Green ATC capacity*

WA 3 Industrial research and validation

- ❑ Addresses Phase D of the ATM Master Plan 2020
 - ❑ Non-prescriptive set of SESAR solutions
 - ❑ Target TRL6
- *Fully scalable services supported by a digital ecosystem*
 - *Next generation of ATC platforms to deliver Trajectory Based Operations and virtualisation*
 - *Highly resilient and efficient airport operations, passenger-centric, multimodality*
 - *Single pilot operations, delegation of separation responsibility to systems assistants*
 - *High and Full Automation (level 4/5)*

TOPICS



Connected and automated ATM



Air-ground integration and autonomy



Capacity-on-demand and dynamic airspace



Artificial Intelligence for aviation



Civil/military interoperability and coordination

WA 6 IR topics addressing key SESAR 2020 solutions required to complete ATM Master Plan phase C

- ☐ Part of the scope of the first IR call ONLY
 - ☐ Focused on Phase C Key R&D solutions in ATM MP 2020 that will not complete TRL6 in SESAR 2020
 - ☐ Prescriptive solutions
- *Future satellite data link technologies SatCom Class A in a multilink environment (PJ.14-W2-107)*
 - *GBAS approach service type (GAST-F) (PJ.14-W2-79b)*
 - *IFR RPAS integration in controlled class A-C airspace (PJ.13-W2-117)*
 - *Increased flexibility of ATCO validations (PJ.10-W2-73 IFAV, PJ.33-W3-01a, PJ.33-W3-01b)*
 - *Collaborative Airport integration in the network (PJ.04-W2-28.2)*
 - ***Integrated validation activities***

TOPICS



Connected and automated ATM



Air-ground integration and autonomy



Capacity-on-demand and dynamic airspace



Civil/military interoperability and coordination

What is fast track ?

MAWP definition : *This thread is designed to **accelerate** the development of **high risk / high gain** projects with the perspective of shortening the time to market for disruptive and **highly innovative solutions**. These activities may **start at very low TRL levels** but should aim at delivering as rapidly as possibly new products & services to the market at **TRL7 (System demonstration in an operational environment)**.*

In summary :

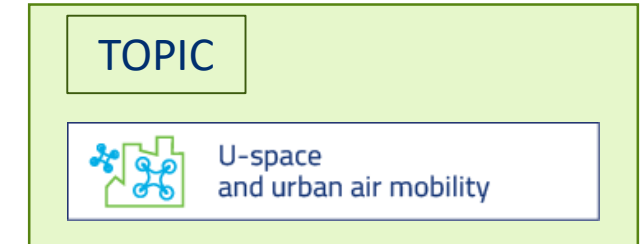
Move from **low to high TRL** :

- based on **agile methodology** (sprint)
- with **rapid prototyping/fast software** development
- supported by **quick maturity assessment**
- **deciding to progress** to next step or
- to take **corrective action**,
- for **delivering SESAR Solutions**
- ready for **fast market uptake**



WA 4 Fast-track innovation and uptake topic addressing U-space and urban air mobility

- ❑ From TRL 2 to TRL6/7
- ❑ Agile methodology shall be described in the proposal (template section 1.2)
- *U-space advanced services (U3)*
- *U-space full services (U4)*
- *U-Space interaction with ATM*
- *Enable urban air mobility autonomous operations*
- *U-Space services for general aviation and rotorcraft*
- *Environmental sustainability and social acceptance*



WA 5 Fast-track innovation and uptake

- ❑ From TRL 2 to TRL6/7
- ❑ Agile methodology shall be described in the proposal (template section 1.2)
- *Digital solutions for cyber-resilience, increasing system robustness against cyberattacks and fast and effective cyberattack systems-response*
- *Trustworthy AI powered ATM environment*
- *Service oriented approach to CNS Infrastructure with a wide implementation of IP based technologies*
- *Human – AI collaboration*
- *Integrated transport network crisis management process*

TOPICS



Capacity-on-demand
and dynamic airspace



Virtualisation and
cyber-secure data sharing



Multimodality and
passenger experience



Artificial Intelligence
for aviation

PROGRAMME MANAGEMENT

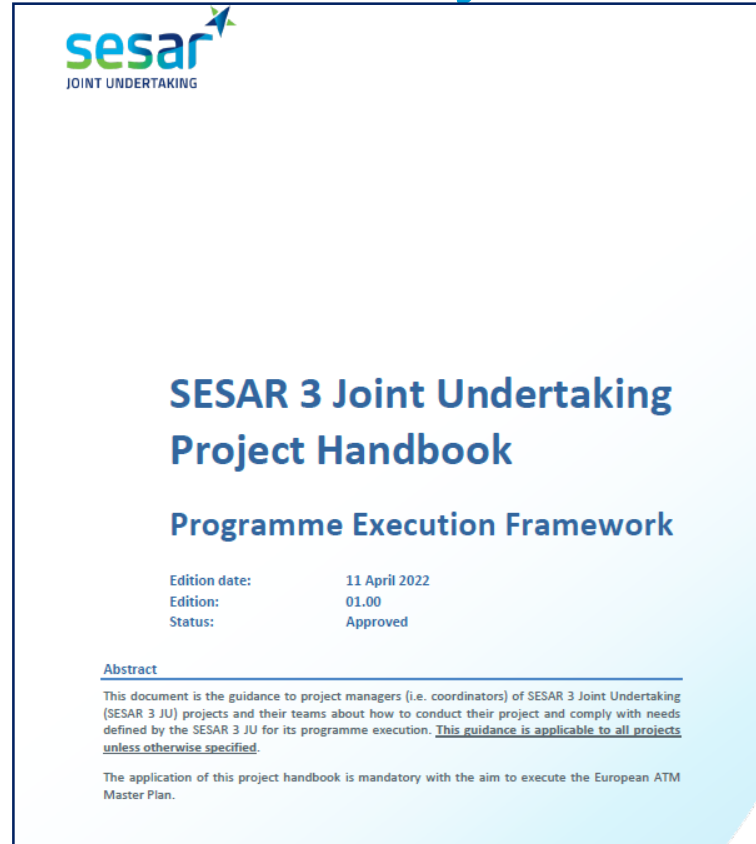
SERGE BAGIEU
Head of Operations Quality Control

General principles (IR proposal template sections 2.2, 2.3 & 3.1)

Proposals shall:

- ☐ Describe the **standardisation and regulatory** state of the art of the development of your project/each SESAR Solution to maximise impact towards industrialisation;
- ☐ Outline your **strategy to develop and consolidate standardisation and regulatory needs** and how they should be supported by appropriate bodies (e.g. Standardisation Development Offices, National Supervisory Authority, EASA...);
- ☐ Demonstrate the measures to maximize impact through **dissemination, exploitation and communication**;
- ☐ **Provide work plan** (including target **SESAR Solution definition** and expected performance – **one per work package**) and resources (including to support work with Transversal project and high coordination with SESAR 3 JU).

References for Project Management

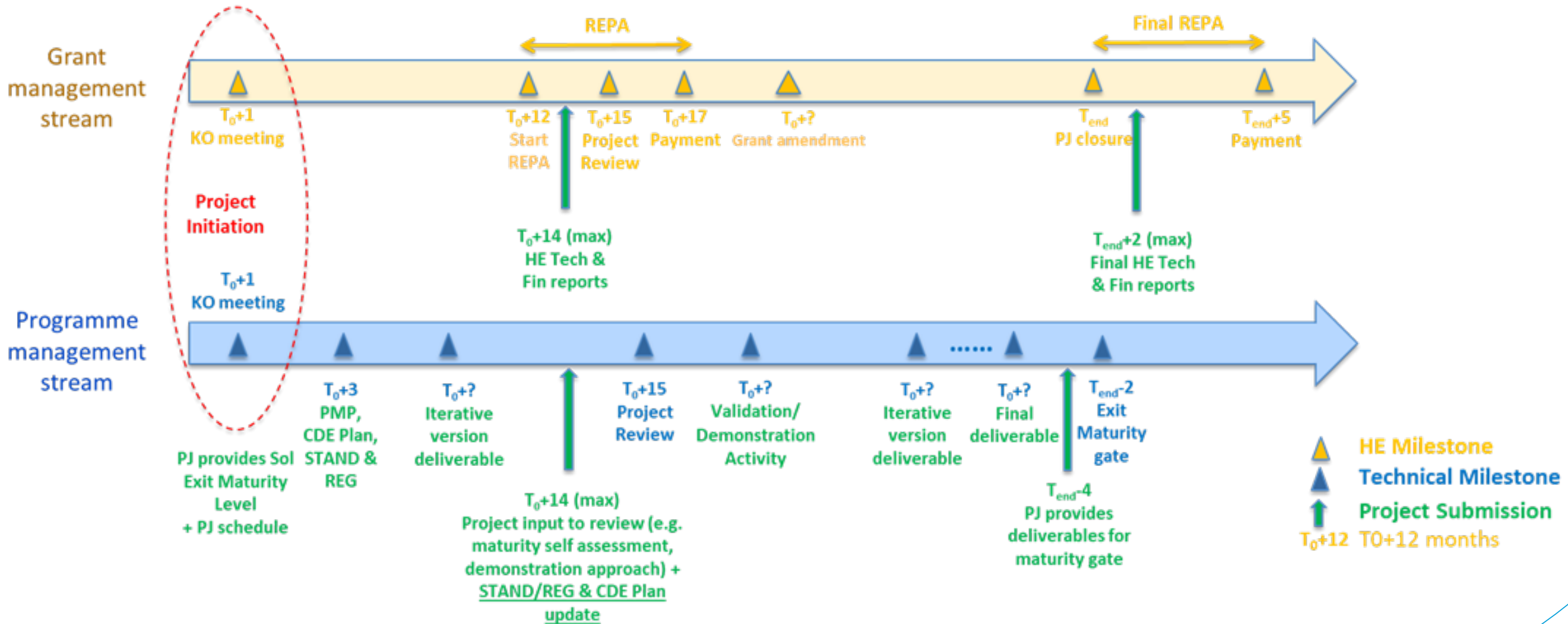


- ☐ List of the key processes to apply by all Projects;
- ☐ Included in the Call material;
- ☐ Will be explained at the Project Kick-Off Meetings;
- ☐ Ensure a programmatic management of all Projects.

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Grant/Project Management – key milestones



Regular coordination between Projects and SJU will ensure quality of the delivery

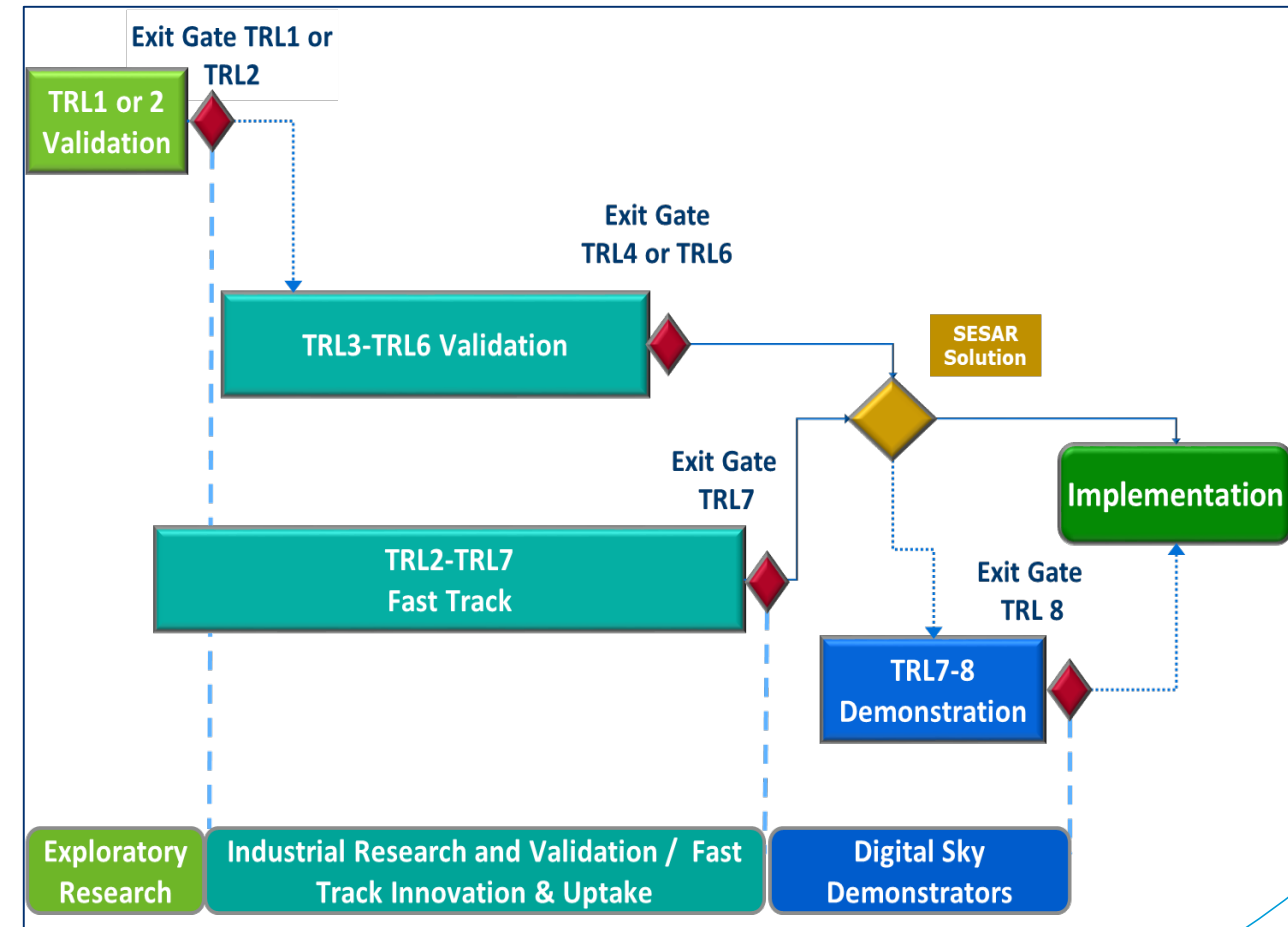
Kick off meeting expectation

At KOM, project shall be able to present:

- ☐ SESAR Solution title, definition and description with
 - Initial maturity level
 - Exit target maturity level
 - Performance expectation
- ☐ Project WBS (one SESAR Solution par work package)
- ☐ Resources (including collaborative work with SESAR 3 JU, Transversal projects and as necessary involvement of National Authority and/or EASA)
- ☐ Communication approach

SESAR Solution development

- ❑ Each project shall define SESAR Solution(s)
 - SESAR Solution = deployable ATM improvement in relevant operating environment
 - Definition & description according to ATM MP vision
 - Expected performance (KPA & KPIs)
 - Initial and target exit maturity levels
- ❑ One SESAR Solution per work package
- ❑ Content Integration
 - Architecture modelling as of TRL4
 - Integration at transversal level
 - Specific methodology to be provided



Technical Deliverables

Deliverables	Fundamental research	Applied oriented research	Industrial research	Fast track to innovation & uptake	Digital Sky Demonstrators
Concept Outline					
ERP					
ERR					
FRD					
OSED					
ECO-EVAL					
Contextual Note					
SPR-INTEROP/OSED					
TS/IRS					
(T)VALP					
(T)VALR					
CBA					
DEMOP					
DEMOR					
STAND					
REG					

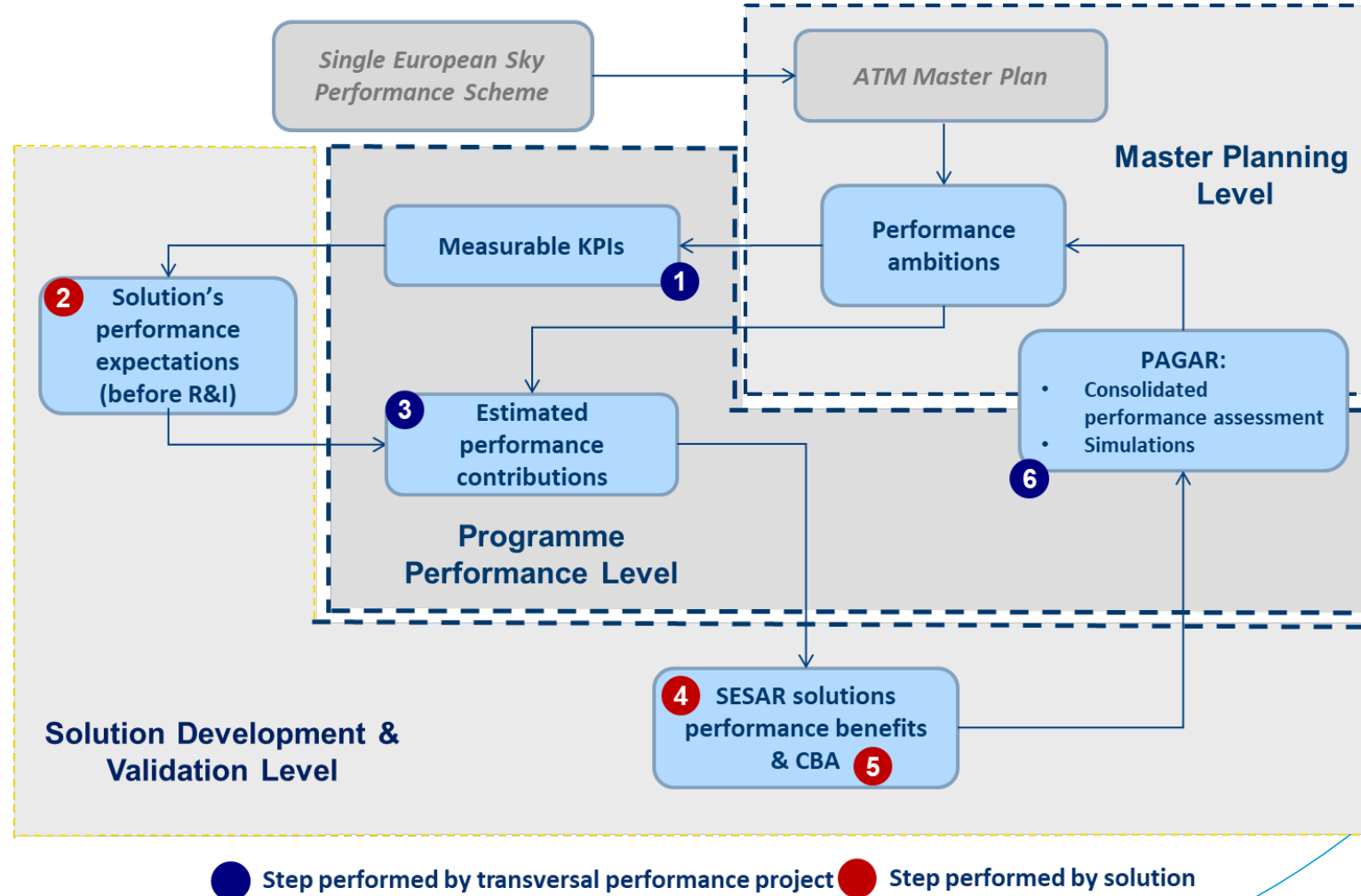
- ☐ Contractual deliverables and public
- ☐ Templates available at Project Kick Off meeting
- ☐ Subject to Quality assessment by SESAR 3 JU

Additional deliverables

- ☐ PMP & Project Schedule
- ☐ Communication/dissemination & exploitation Plans
- ☐ Solutions description
- ☐ Maturity assessments
- ☐ HE Technical report & Financial report

Performance Management

- ❑ Aim is to ensure fulfilling the ATM MP performance ambitions;
- ❑ Specific methodologies to apply (guidance material);
- ❑ Cover Safety, Security, Human performance, Environment;
- ❑ Require close coordination with SESAR 3 JU and Transversal Project dealing with Performance Management.



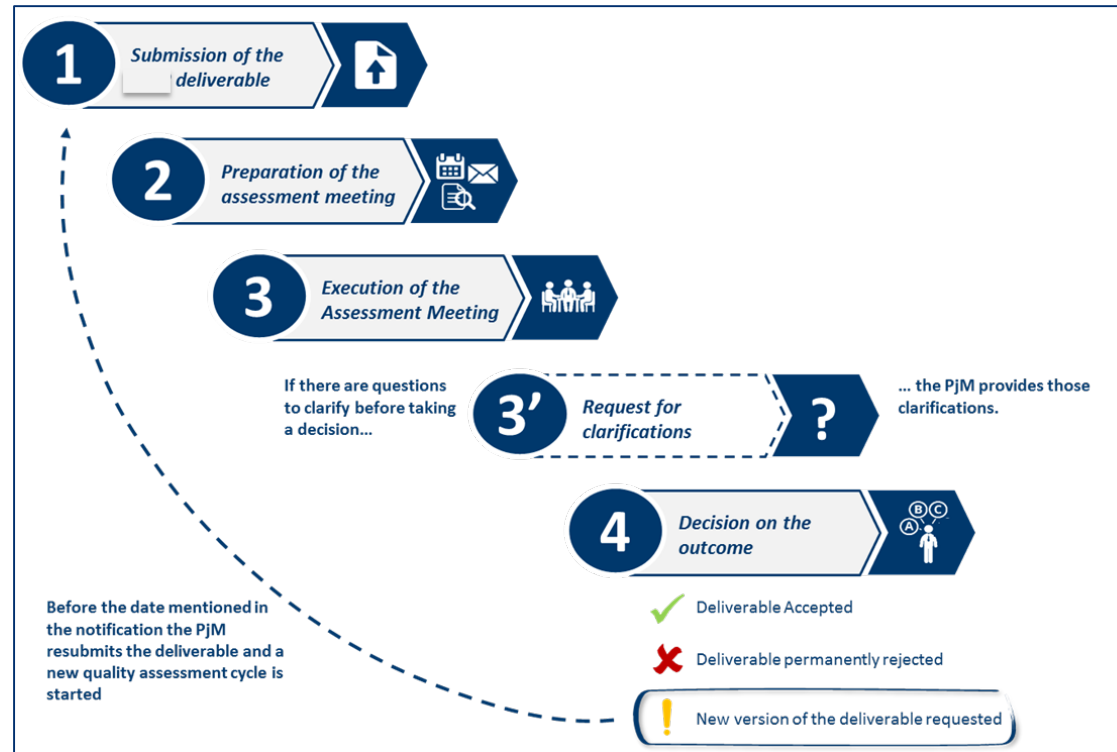
Maturity Assessment

Thread	Criteria ID	Criteria definition	Where - Technical Deliverable
OPERATIONAL	OPS.TRL6.1	Is the operational concept apportioned to the SESAR Solution refined and further detailed and documented after TRL6 activities in the SPR-INTEROP/OSED and justified by the ATM Master Plan and/or SRIA e.g. reference to specific section or paragraph?	SPR-INTEROP/OSED TRL6
OPERATIONAL	OPS.TRL6.2	Are the OI steps under the scope of the SESAR Solution fully described and documented e.g. definition, description and rationale are updated based on the feedback from validation results, etc...?	SPR-INTEROP/OSED TRL6
OPERATIONAL	OPS.TRL6.3	Are the Operational, Performance and Safety Requirements (including information exchange requirements (IERS)) available and updated with feedback from TRL6 validation activities in the SPR-INTEROP/OSED?	SPR-INTEROP/OSED TRL6
OPERATIONAL	OPS.TRL6.4	Are the Interoperability requirements (SPR-INTEROP/OSED) updated after TRL6 activities?	SPR-INTEROP/OSED TRL6
OPERATIONAL	OPS.TRL6.5	Have the most critical dependent SESAR Solutions been integrated and validated together, and shown that they work coherently?	VALR TRL6
OPERATIONAL	OPS.TRL6.6	Do validation results confirm the evidences (quantitative and qualitative) on the operational feasibility and acceptability of the SESAR Solution obtained in previous TRL?	VALR TRL6
SYSTEM	SYS.TRL6.1	Are the enablers under the scope of the SESAR Solution fully described and documented e.g. description and rationale are updated based on the feedback from validation results, etc...?	TS/IRS TRL6
SYSTEM	SYS.TRL6.2	Has a "high fidelity" prototype of the system supporting the ATM SESAR solution been produced and integrated on an Industrial Based Platform (close to operational environment)? <i>High Fidelity prototype: all/significant number of technical requirements in the TS/IRS have been successfully implemented in the prototype.</i>	VALR TRL6
SYSTEM	SYS.TRL6.3	Are the System Requirements (TS/IRS) validated, stable and updated after TRL6 activities?	TS/IRS TRL6
SYSTEM	SYS.TRL6.4	Are the CNS infrastructure requirements identified and defined?	TS/IRS TRL6
SYSTEM	SYS.TRL6.5	Are the SWIM infrastructure requirements identified and defined?	TS/IRS TRL6
SYSTEM	SYS.TRL6.6	Are the evidences (quantitative and qualitative) on the technical feasibility of the SESAR Solution obtained in previous TRL confirmed?	VALR TRL6

- At any moment, project shall assess and monitor the maturity progress of each SESAR Solution
- When ready, project shall propose to have a maturity gate with SESAR 3 JU
- Formal process run by SESAR 3 JU with support of a set of experts

Maturity Criteria (MAWP Annex E)

Quality Assessment of deliverables



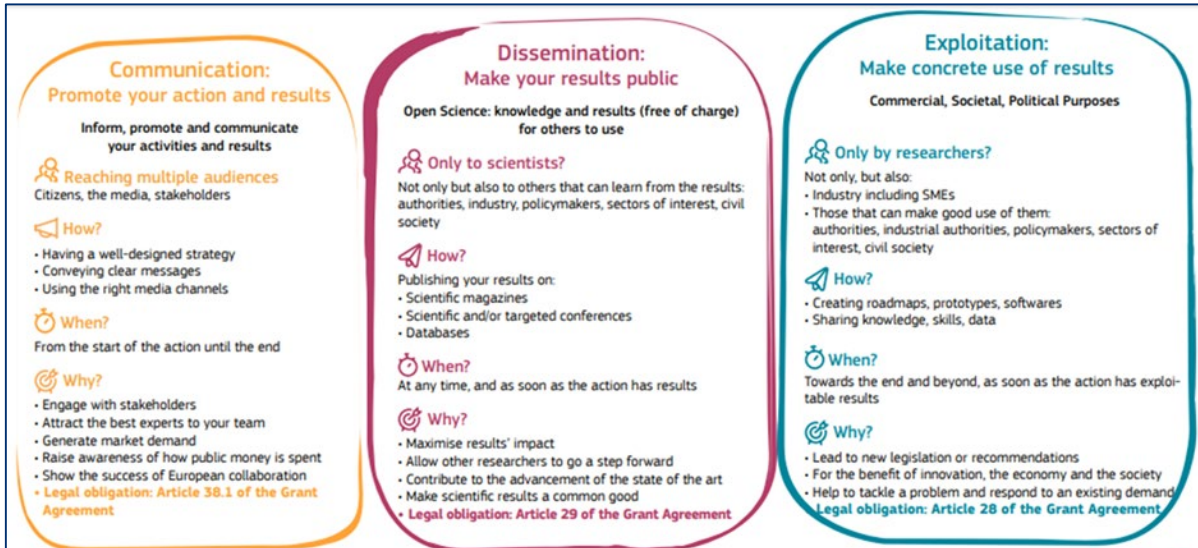
- ❑ Iterative review of draft deliverables will de-risk the formal assessment of the final deliverable
- ❑ At start of deliverables drafting, consider :
 - Contribution to Standardisation & Regulatory needs (e.g. Coordination with EUROCAE, EASA)
 - Applying performance methodologies

EASA in your proposals



- Along the development and validation of the SESAR Solutions, care shall be taken on the need to **engage with the National Authorities and EASA (when required)**, to address the regulatory issues and to consider the need for developing standards.
- When relevant, projects shall **anticipate the contribution of EASA in the Grant** as Participant (Beneficiary or Third party).
- EASA contribution may include:
 - Coordinating the **review of the safety argumentation** with the competent authorities involved
 - **Provide guidance** to support the safety review.
 - Supporting the **approval and endorsement** of the safety cases
- Contact during the proposal elaboration phase: SESAR_requests@easa.europa.eu

Communication, Dissemination & Exploitation – CDE



- ☐ **Communication, Dissemination and Exploitation plan shall be drafted in the proposal.**
- ☐ **Includes sharing information/data between projects; calls; members.**
- ☐ **SESAR 3 is not made of standalone projects !!**

The EU's open science policy

Open science is a policy priority for the European Commission and the standard method of working under its research and innovation funding programmes as it improves the quality, efficiency and responsiveness of research.

When researchers share knowledge and data as early as possible in the research process with all relevant actors it helps diffuse the latest knowledge.

And when partners from across academia, industry, public authorities and citizen groups are invited to participate in the research and innovation process, creativity and trust in science increases.

That is why the Commission requires beneficiaries of research and innovation funding to make their publications available in open access and make their data as open as possible and as closed as necessary. It recognises and rewards the participation of citizens and end users.

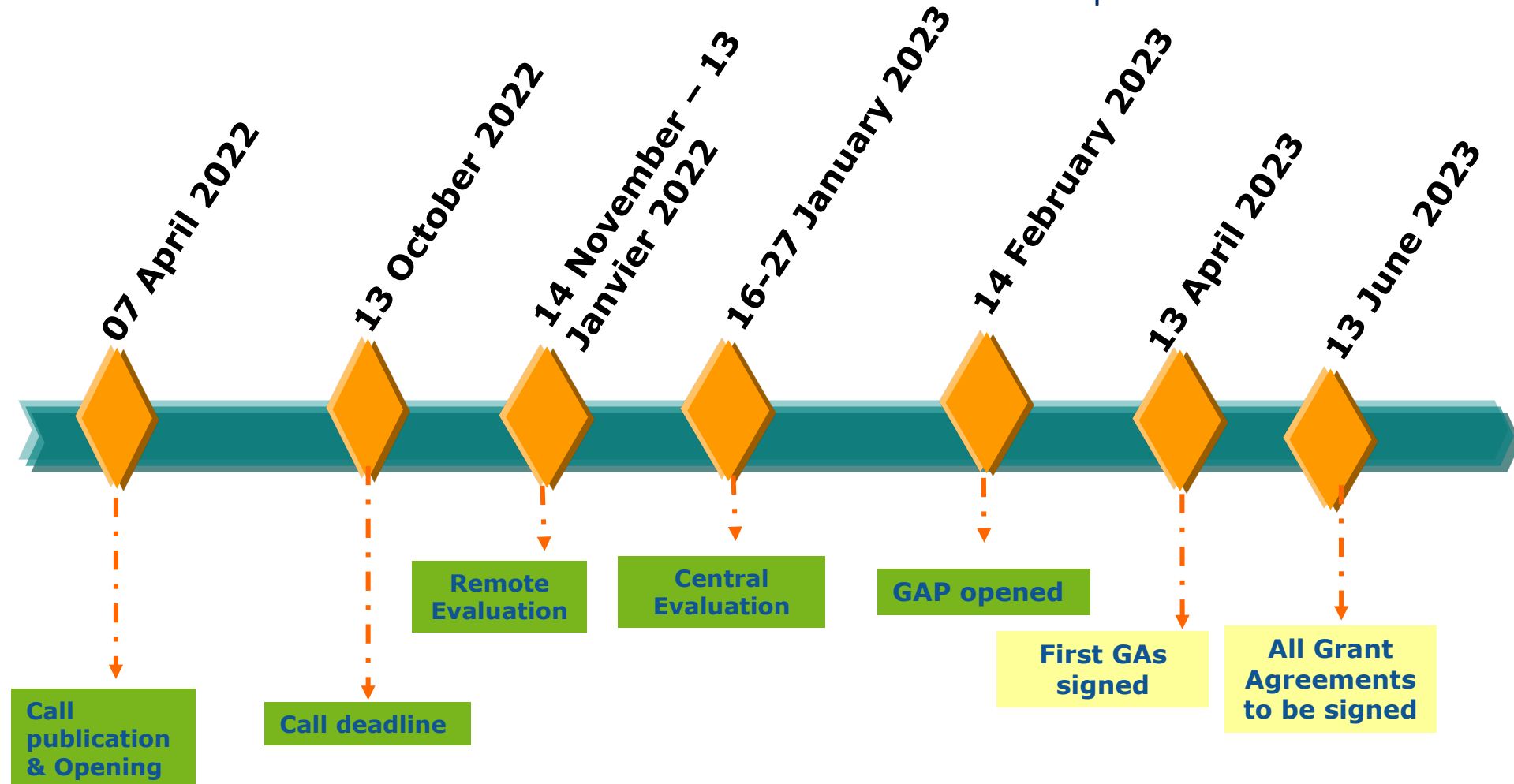
HORIZON EUROPE CALL EVALUATION & PROCEDURES

MANUELA ALFE'
CALL COORDINATOR

SESAR 3 DIGITAL EUROPEAN SKY CALLS

HORIZON-SESAR-2022-DES-ER-01 – Exploratory research

HORIZON-SESAR-2022-DES-IR-01 – Industrial research and Fast track Innovation & Uptake



Work Areas and budget allocation

	EXPLORATORY RESEARCH		
Work Area	Full title	Type of Action	BUDGET
WA1	Fundamental science and outreach	RIA	€10.000.000
WA2	ATM application oriented research	RIA	€10.000.000
WA3	Knowledge transfer network	CSA	€3.750.000
TOTAL	€23.750.000		

	INDUSTRIAL RESEARCH		
Work Area	Full title	Type of Action*	BUDGET
WA1	Transversal activities	CSA	€4.000.000
WA2	Industrial research for Green Deal	RIA	€30.000.000
WA3	Next generation of enabling platforms and service	RIA	€55.000.000
WA4	FTIU for U-Space & UAM	IA	€35.000.000
WA5	FTIU for capacity on demand and dynamic airspace, virtualisation and cybersecure data-sharing, multimodality and passenger experience, and the aviation green deal.	IA	€22.000.000
WA6	Industrial research for European ATM Master Plan 2020 phase C	RIA	€25.000.000
TOTAL	€171.000.000		

* a standard reimbursement rate of 70% applies to all type of actions for this call

Admissibility

Same general admissibility conditions as in H2020

- Applications must be submitted before the call deadline, **electronically** via the Funding & Tenders Portal
- Applications must be **complete, readable, accessible and printable**, and include a **plan for the exploitation and dissemination of results**.

Proposal page limit

Substantial reduction in maximum length compared to H2020:

- RIAs and IAs type of actions: limit for a full application is **45 pages**
- CSAs: limit is **30 pages**
- **Please note that excess pages will be disregarded!**

Eligibility

Consortium composition (collaborative projects)

- at least one independent legal entity established in a Member State, and
- at least two other independent legal entities each established either in a different Member State or an Associated Country.

NEW! Gender Equality Plan (applicable only from 2022 on)

Participants that are public bodies, research organisations or higher education establishments from Members States and Associated countries **must have a gender equality plan**, covering minimum process-related requirements.

- A self-declaration will be requested at proposal stage (for all types of participants).
- Included in the entity validation process (based on self-declaration)

Who is eligible for funding?



EU COUNTRIES

- Member States (MS) including their outermost regions
- The Overseas Countries and Territories (OCTs) linked to the MS.



NON-EU COUNTRIES

- Countries associated to Horizon Europe (AC)
- Low and middle income countries: See HE Programme Guide.



SPECIFIC CASES

- Affiliated entities established in countries eligible for funding.
- EU bodies
- International organisations (IO):
 - International European research organisations are eligible for funding.
 - Other IO are not eligible (only exceptionally if participation is essential)

Associated Countries



For the purposes of the eligibility conditions, applicants established in Horizon 2020 Associated Countries or in other third countries negotiating association to Horizon Europe will be treated as entities established in an Associated Country, if the Horizon Europe association agreement with the third country concerned applies at the time of signature of the grant agreement.

Specific situation of UK

- The UK is expected to soon become an associated country to Horizon Europe. UK entities can take part in the first calls for proposals of Horizon Europe
- The UK is associating to the full Horizon Europe programme with the only exception of the EIC Fund (which is the loan/equity instrument of the EIC).

Activities eligible for funding

Eligible activities are the ones described in the call conditions

Activities must **focus exclusively on civil applications** and **must not**:

- aim at human cloning for reproductive purposes;
- intend to modify the genetic heritage of human beings which could make such changes heritable (except for research relating to cancer treatment of the gonads, which may be financed);
- intend to create human embryos solely for the purpose of research, or for the purpose of stem cell procurement, including by means of somatic cell nuclear transfer;
- lead to the destruction of human embryos.

Maximum funding rates- DES calls

Call	Type of action	Funding rate
ER	Coordination and support action	100%
ER	Research and innovation action	100%
IR	Coordination and support action	70%
IR	Research and innovation action	70% (for all types of legal entities)
IR	Innovation action	70%

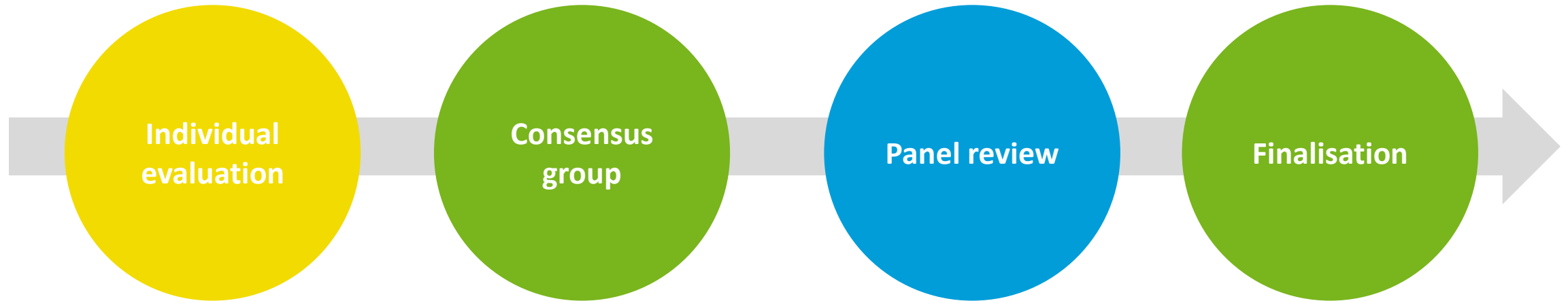
SPECIFIC CALL CONDITIONS - ER CALL

- Award criteria: see BAWP
- Additional dissemination and exploitation obligations: see BAWP
- Max project duration:
 - RIA= 30 months, including 6 months at the end for dissemination
 - CSA= 48 months
- Specific types of deliverables are expected per WA: see BAWP
- The integration of gender dimension is NOT a mandatory requirement

SPECIFIC CALL CONDITIONS - IR CALL

- Award criteria
 - specified in the BAWP
 - weighting: Excellence: 40 % Impact: 40 % Implementation: 20%
- The evaluation committee might be composed partially by representatives of EU institutions and agencies (internal experts)
- A funding rate of 70 % applies to all beneficiaries (regardless of their legal status).
- Additional dissemination and exploitation obligations: see BAWP
- Funded projects will be linked to each other and to SESAR 2020 Wave 2&3 projects =) linked actions
- Max project duration: 36 months
- Specific types of deliverables are expected per WA: see BAWP
- The integration of gender dimension is NOT a mandatory requirement
- **Only for FTIU topics:** purchases of equipment, infrastructure or other assets specifically for the action (or developed as part of the action tasks) may be declared as full capitalised costs.

Standard evaluation process



Individual evaluation

Experts assess proposals **individually**. Minimum of three experts per proposal (but often more than three).

Consensus group

All individual experts discuss together to agree on a **common position**, including comments and scores for each proposal.

Panel review

The panel of experts reach an **agreement** on the scores and comments for all proposals within a call, checking **consistency across the evaluations**.

if necessary, resolve cases where evaluators were unable to agree.

Rank the proposals with the same score

Finalisation

The Commission/Agency reviews the results of the experts' evaluation and puts together the **final ranking list**.



Ethics review

Same criteria as in H2020

For all activities funded, ethics is an **integral part** of research from beginning to end, and **ethical compliance** is essential to achieve real research excellence. An ethics review process is carried out systematically in all Horizon Europe proposals, based on a **self-assessment** included in the proposal.

Ethical research conduct implies the application of fundamental ethical principles and legislation in all possible domains of research. This includes the adherence to the highest standards of **research integrity** as described in the **European Code of Conduct for Research Integrity**.

Adapted following lessons learnt

- Focus mainly on complex/serious cases
- Reduce number of ethics requirements in funded projects.



Security scrutiny

New in Horizon Europe

Security issues will be checked **systematically** in all Horizon Europe proposals (in H2020 only proposals submitted to topics flagged as 'security-sensitive' were checked). The checks are based on a **self-assessment** included in the proposal. The focus is on:

- Whether the proposal uses or generates **EU classified information**
- Potential of **misuse** of results (that could be channeled into crime or terrorism)
- Whether activities involve information or materials subject to **national security restrictions**

The checks based on the self-assessment may trigger an in-depth security scrutiny.

FINANCIAL ASPECTS OF GRANTS

KEY MESSAGES

KATTY HANCQ
HEAD OF FINANCE

Annex 2 – General Horizon Europe MGA cost categories



A. PERSONNEL COSTS

- **A.1** Employees
- **A.2** Natural persons under direct contract
- **A.3** Seconded persons
- **A.4** SME owners and natural person beneficiaries



B. SUBCONTRACTING COSTS



C. PURCHASE COSTS

- **C.1** Travel and subsistence
- **C.2** Equipment
- **C.3** Other goods, works and services



D. OTHER COST CATEGORIES

- **D.1** Financial support to third parties
- **D.2** Internally invoiced goods and services
- **[D.3 Transnational access to research infrastructure unit costs]**
- **[D.4 Virtual access to research infrastructure unit costs]**
- **[D.5 PCP/PPI procurement cost]**
- **[D.6 Euratom Cofund staff mobility costs]**
- **[D.7 ERC additional funding]**
- **[D.8 ERC additional funding (subcontracting, FSTP and internally invoiced goods and services)]**



E. INDIRECT COSTS

Disclaimer: Information not legally binding



European
Commission

A. Personnel Costs

What are the categories of personnel?

(Art 6.2.A Horizon Europe MGA)

Personnel costs
&
(corporate)
Daily Rate

A.1 EMPLOYEES (OR EQUIVALENT)

- ❖ For your personnel working under an **employment contract** (or **equivalent appointing act**, e.g. for civil servants) and assigned to the action.

Three cases:

- ✓ Employees with a fixed salary
- ✓ Employees whose remuneration increases when working in projects ('**project-based remuneration**')
- ✓ Employees of a beneficiary whose usual cost accounting practice is to calculate average personnel costs ('**average personnel costs**')

A.2 PERSONS UNDER DIRECT CONTRACT & A.3 SECONDED PERSONS AGAINST PAYMENT

- ❖ A.2 Costs for natural persons working under a **direct contract** other than an **employment contract** (e.g. in-house consultants)
- ❖ A.3 costs for seconded persons **by a third party** against **payment**.

A.4 SME OWNERS AND NATURAL PERSON BENEFICIARIES

- ❖ Costs for SME owners (i.e. **owners** of **beneficiaries** that are **small and medium-sized enterprises** **not receiving a salary**) or
- ❖ Costs for **natural person beneficiaries** (i.e. **beneficiaries** that are **natural persons** **not receiving a salary**)

Disclaimer: Information not legally binding

How to calculate your personnel costs?

Category A.1

Case 1: Employees with a fixed salary

Corporate daily rate formula

(Article 6.2.A.1 of the HE MGA)

$$\begin{array}{c}
 \text{Personnel costs} \\
 \{ \text{daily rate for the person} \} \\
 \text{multiplied by} \\
 \{ \text{number of day-equivalents worked on the action (rounded up or down to the nearest half-day)} \} \\
 \\
 \text{Daily rate} \\
 \{ \text{annual personnel costs for the person} \} \\
 \text{divided} \\
 215
 \end{array}$$

How to apply these formulas for reporting periods lasting more or less than a calendar year?

→ Single approach over any period of months (total recorded cost + pro-rata of 215)

How to reduce number of mandatory calculations?

→ Single calculation for reporting period

How to reduce specific calculation needs (first/last year, part-time, new hires)?

→ Single formula covering all (horizontal) cases

How to avoid over-declaration of personnel cost?

→ Maximum declarable days: pro-rata of 215 (e.g. 107,5 for 6 month, 322,5 for 18 month), same as denominator for daily rate (see single approach)

How to calculate your personnel costs for a given reporting period ?

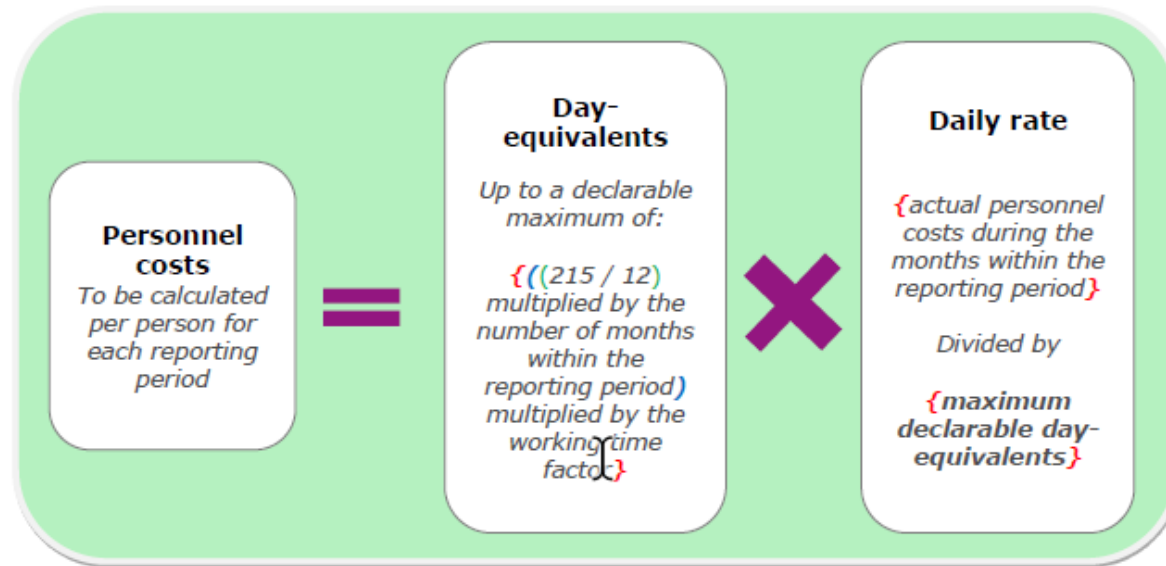
Personnel costs
&
(corporate)
Daily Rate

Category A.1

Case 1: Employees with a fixed salary

Corporate daily rate formula

Annotated Model Grant Agreement (AGA)



Disclaimer: Information not legally binding



European
Commission

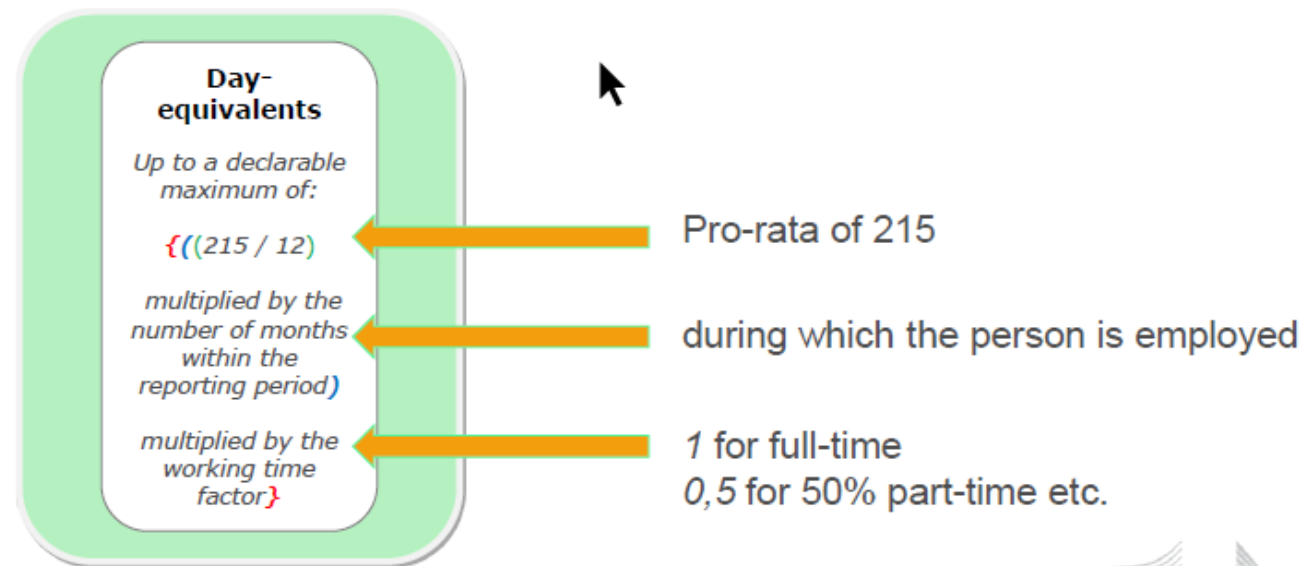
How to calculate your personnel costs for a given reporting period?

Category A.1

Case 1: Employees with a fixed salary

Corporate daily rate formula

Annotated Model Grant Agreement (AGA)



Disclaimer: Information not legally binding



European
Commission

How to calculate your personnel costs for a given reporting period?

Personnel costs
&
(corporate)
Daily Rate

Example:

In the reporting period from 01/01/2022 to 31/03/2023, you work full-time in 2022 and 50% part-time in 2023.

You calculate the maximum declarable day-equivalents separately for 2022 and 2023 (because conditions have changed).

12 months of full-time work: $((215 / 12) \times 12) \times 1.0 = 215$

3 months of part-time work: $((215 / 12) \times 3) \times 0.5 = 27$

Total: The maximum declarable day-equivalents for the reporting period are therefore: $215 + 27 = 242$

B. Subcontracting

- Ensure best value for money (or lowest price) and avoid conflict of interests
- Subcontracting between beneficiaries is not allowed. Subcontracting to affiliates is generally not allowed either
- Estimated costs and tasks must be identified in the budget and in Annex 1
- Simplified approval procedure allowed (i.e. beneficiary flags the subcontracting at reporting stage) However, beneficiary bears the risk of rejection

E.g.: Testing described in Annex 1 as action task

- The beneficiaries are responsible for the proper implementation of the subcontracted action tasks by the subcontractors (*proper quality, timely delivery, etc*).


Disclaimer: Information not legally binding

C. Purchase Costs

May cover:

- Travel, accommodation and subsistence (Article 6.2.C.1)
- Equipment (Article 6.2.C.2)
- Other goods, works or services, if necessary to implement the action (Article 6.2.C.3)

e.g.: CFS, consumables and supplies, promotion, dissemination, protection of results, translations, publications, etc.

- ✓ Must be declared as actual costs
- ✓ Ensure best value for money and avoid any conflict of interests

Certificate on financial statements

ALIGNMENT WITH CORPORATE APPROACH & HORIZON EUROPE SPECIFICS

Certificate on
financial
statements



HIGHER THRESHOLD

- **EUR 430 000** (increased from EUR 325 000 in H2020)
- CFS to be submitted at **payment of the balance (H2020 continuity)**



SIMPLER CALCULATION BASE

- **Requested EU contribution calculated on all costs** (not only actual costs and unit costs calculated in accordance with usual costs accounting practices as in H2020)



LESS CFS FOR LOW-RISK BENEFICIARIES WITH SPA

- For **beneficiaries with a low-risk classification** after a **SPA** the threshold will increase to **EUR 725 000** (instead of EUR 430 000)

D. Indirect costs

- Indirect costs will be reimbursed at the flat-rate of 25% of the eligible direct costs (categories A-D, except volunteers costs, subcontracting costs, financial support to third parties and exempted specific cost categories, if any).

E. IKOP – Members ONLY

- IKOP of the Members shall be calculated and reported automatically through the Funding and Tender Portal and eGrants tool.
- IKOP shall consist of the eligible costs incurred by Members in implementing indirect actions less the contribution of SESAR 3 JU to those costs.
- The value of the reported IKOP shall be audited in accordance with the mechanism applicable to the specific grant agreement.

TIPS & TRICKS FOR PROPOSAL SUBMISSION

MANUELA ALFE
CALL COORDINATOR

FINDING INFORMATION

Available Information

☐ All relevant call documentation is available on the Funding & Tenders opportunities (including presentations on Horizon Europe)

Grant

General information

Topic description

Conditions and documents

Partner search announcements

Submission service

Topic related FAQ

Get support

Call information

Call updates

General information

Programme

Horizon Europe Framework Programme (HORIZON)

Call

Digital European Sky Exploratory Research 01 (HORIZON-SESAR-2022-DES-ER-01)

See budget overview

Type of action

HORIZON-JU-RIA HORIZON JU Research and Innovation Actions

Type of MGA

HORIZON Action Grant Budget-Based [HORIZON-AG]

Open for submission

Deadline model

single-stage

Opening date

07 April 2022

Deadline date

13 October 2022 17:00:00 Brussels time

Available Information /1

Click on any of the topics

Funding and tenders (17)

 Need help?



Sort by:

Submission status 

Fundamental Science and Outreach for Connected and Automated ATM
HORIZON-SESAR-2022-DES-ER-01-WA1-1

[Call for proposal](#) [Grant](#)

Programme	Horizon Europe (HORIZON)	Status	Open for submission
Type of action	HORIZON JU Research and Innovation Actions	Deadline model	single-stage
Opening date	07 April 2022	Deadline date	13 October 2022 17:00:00 Brussels time

Topic conditions and documents

General conditions

1. Admissibility conditions: described in [Annex A](#) and [Annex E](#) of the Horizon Europe Work Programme General Annexes

Proposal page limits and layout: described in Part B of the Application Form available in the Submission System

2. Eligible countries: described in [Annex B](#) of the Work Programme General Annexes

[show more...](#)

Expand here



Available Information /2

Here you find all relevant documentation



Call documents:

SESAR 3 application form (RIA/IA) – *this call-specific application form is also available in the Submission System*

Standard evaluation form – will be used with the necessary adaptations based on the specific award criteria (see BAWP, Annex II, section 2.1.3 - Award criteria)

Standard evaluation form (HE RIA, IA)

MGA

HE General MGA v1.0

Additional documents:

SESAR 3 Joint Undertaking Bi-Annual Work Programme (BAWP) 2022-2023

SESAR 3 Joint Undertaking Multi-Annual Work Programme (MAWP) 2022-2031

SESAR 3 Project Handbook

HE Main Work Programme 2021–2022 – 1. General Introduction

HE Main Work Programme 2021–2022 – 8. Climate, Energy and Mobility

HE Main Work Programme 2021–2022 – 12. Missions

HE Main Work Programme 2021–2022 – 13. General Annexes

Council Regulation 2021/2085 of 19 November 2021 establishing the Joint Undertakings under Horizon Europe (SBA)

Finding Support /1

Horizon Europe (HORIZON)

clear filter

Guidance & Manuals

 Support overview

 Guidance & Manuals

 FAQs

 Helpdesk & Support Services

 Support videos

Grants

Tenders

Reference documents

The page reference documents of the programmes managed on the EU Funding & Tenders Portal including legal documents, work programmes, model grant agreements and guides for specific actions.

Online Manual

Step-by-step online guide through the Portal processes from proposal preparation and submission to reporting on your on-going project. Valid for all 2021-2027 programmes.

H2020 Online Manual

Step-by-step online guide through the Portal processes from proposal preparation and submission to reporting on your on-going project. Only valid for Horizon 2020.

IT How to

IT support guide with step-by-step walkthroughs and videos.

Glossary

A list of funding and tender definitions.

Finding support /2

Get support

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

SESAR 3 JU Call Helpdesk: info-call@sesarju.eu

Online Manual is your guide on the procedures from proposal submission to managing your grant.

Horizon Europe Programme Guide contains the detailed guidance to the structure, budget and political priorities of Horizon Europe.

Funding & Tenders Portal FAQ – find the answers to most frequently asked questions on submission of proposals, evaluation and grant management.

- ❑ **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:**
 - https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/om_en.pdf

- ❑ **Send your questions to the SESAR 3 JU Call Helpdesk:**
info-call@sesarju.eu

PREPARING YOUR PROPOSAL

Electronic submission

☐ Prepare proposal

- Online for structured part – Administrative forms
- Upload non structured parts – Technical annex – pdf file

☐ Submit the proposal well BEFORE the deadline

DO NOT WAIT FOR THE LAST MINUTE

Submission failure rate : approx. 1%

☐ Only reason for failure: waiting until the last minute

- technical problems
- starting the upload too late
- trying to reach the helpdesk 5 minutes before the deadline

In summary

- ☐ Make sure that you are very familiar with the topic description and call conditions;
- ☐ READ all documentation;
- ☐ Follow the proposal templates;
- ☐ Cover ALL evaluation criteria and subcriteria;
- ☐ Plan resources adequately and in line with the objectives to achieve;
- ☐ Do not forget the importance of dissemination activities:
 - Be innovative
 - Justify when your deliverables are confidential

Thank you for your attention