



Association of
European Research Establishments in Aeronautics

Position paper on the continuation of SESAR in 2014-2020

General remarks

- EREA welcomes the envisaged continuation of SESAR and believes it can bring great benefit in participating in the definition phase of future SESAR research areas.
- In particular EREA supports the proposed deployment phase, funded via the Connecting Europe facility.
- At the same time EREA is of the opinion that the Research and Development process should also continue under Horizon 2020 in order to prepare the next building blocks for SESAR Deployment and the time beyond SESAR.
- EREA sees the need for a close connection between SESAR deployment and long term ATM research. However, the processes to control both approaches need to be independent, to avoid that funding needed for research are used for deployment and vice versa.
- The goals of future ATM research as well as SESAR deployment including the underlying ATM Master plan should fit into the Strategic Research and Innovation Agenda of ACARE.
- In the new ATM research and deployment (innovation) scheme there should be a clear role and position for research establishments and universities in the future governance according to interest based governance with limited overhead.
- An efficient operation of the future ATM research and deployment (innovation) scheme includes making maximum use of existing facilities and knowledge already available in the Member States.
- For EUROCONTROL a strong role is foreseen in the coordination of the R&D activities and to ensure the relation with the ATM Mater Plan.

Research and Development in the new ATM research and deployment scheme

- EREA agrees with EUROCONTROL that the R&D process should be split in three phases.
 - Exploratory Research,
 - Facilitate „competition of best ideas“ based on a broad range of sources (skills, organisations, disciplines)
 - Applied Research
 - Solid R&D (reliable, scientific rules, independent, all KPA, goal driven)
 - Pre-industrial Developments
 - Close to operations, pre-operational trials and demonstrations

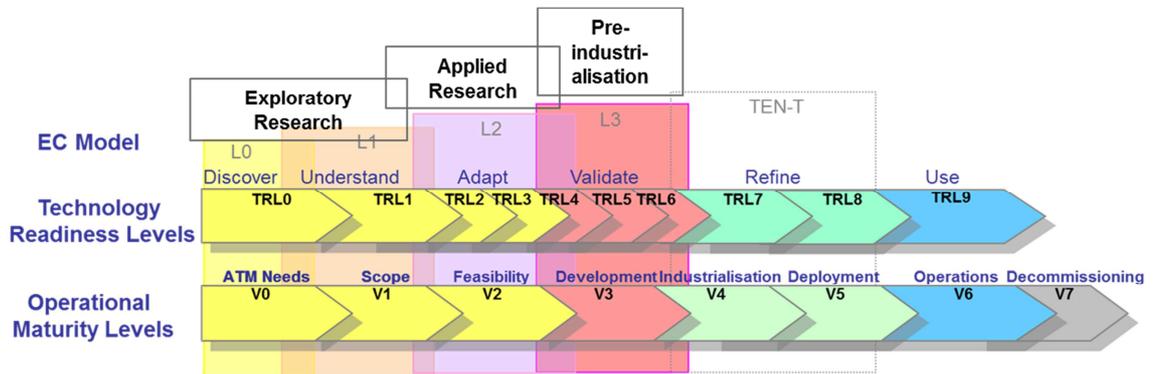
CIRA - Centro Italiano Ricerche Aerospaziali
DLR - Deutsches Zentrum für Luft- und Raumfahrt
FOI - Totalförsvarets FOOrskningsInstitut
INTA - Instituto Nacional de Técnica Aeroespacial
NLR - Nationaal Lucht- en Ruimtevaartlaboratorium

ONERA - Office National d'Études et de Recherches Aéropatiales
VZLU - Výzkumný a Zkušební Letecký Ústav, a.s.
ILOT - Institute of Aviation
INCAS - National Institute for Aerospace Research "Elie Carafoli"



- Industrialisation and Deployment are outside the R&D process and shall have a separate budget and management (e.g. SESAR Deployment activities, TEN-T budget). All stakeholders are requested to contribute to all phases. However in different roles and volume.

Mapping the phases to other used metrics of the innovation cycle leads to the following figure.



- EREA foresees involvement of both research institutes and industry in these phases, with their share in the process changing according to their capabilities (similar as in the usual framework programme with L0, L1, L2 and L3 projects).
 - In the Exploratory Research phase research should have an 80% say and involvement in the programme. Industry has a 20% share
 - In the Applied Research phase research and industry should equally share the voting rights and involvement in the programme
 - In the Pre-industrial Development phase industry should have an 80% say and involvement in the programme. Research has a 20% share
- The instrument of a technology/impact evaluator should be introduced in SESAR 2 to bridge the gaps between the different phases.
- The Industrialisation and Deployment phases are part of the Deployment process and handled differently than the R&D phases.

Participation in the new ATM research and deployment scheme

- Participation in individual research projects should be open through open calls for proposals in order to fully utilize the knowledge potential available in the Member States.
- An open and transparent evaluation process as also used in the current Framework Programme should be ensured.

Budget of the new ATM research and deployment scheme

- EREA believes that a total budget of about 700 million euros is needed for the 7-year R&D process under the new ATM research and deployment scheme.
 - Out of this budget 20% should be allocated for exploratory research
 - 40% for applied research
 - 30% for pre-industrial development
 - And 10% for the technology evaluator mechanism.
- For reasons of simplification the new ATM research and deployment scheme should apply the same rules of participation and funding rules as Horizon 2020.