

# Update on Research & Innovation

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# EASA Research and Innovation objectives



- Support the European R&I initiatives and the EU ‘Green Deal’ objectives
- Accelerate market deployment of new technologies, changes to concepts of operations
- Provide an agile and effective regulatory system for a smooth and timely integration of new products and innovative operations
- Advance safety, security and environmental impact assessments
- Develop a common EU partnership R&I agenda for civil aviation with EASA Member States, taking into consideration large EU Programmes and ongoing projects at Industry level

# R&I Portfolio

## EASA Research and Innovation Portfolio

Art. 86 Basic Regulation

Single Basic Act (SBA)

EPAS actions, approved by MB

Related EASA  
components

Strategy planning  
and foresight

Competency  
management

SPD and EPAS  
planning

Preparation for  
rulemaking and  
industry standards  
actions

Further  
development of  
certification and  
oversight tools

Stakeholder  
management

MAB Research  
Group and FPs

SAB & Industry  
Partners

Scientific  
Committee  
[PhD Scheme]

EREA, ACARE  
MoCs with DLR,  
ONERA, INTA,  
CIRA, & CAJU

Support to  
Industry

Industry-funded  
R&I projects

IPCs/TACs/PACs

F&C

Publicly-funded  
collaborative  
research

Collaboration  
Agreements

National R&I  
programmes

Public/Private Partnership  
Aviation Research  
Programmes

Clean Aviation

Horizon  
EU

F&C

SESAR 3

Horizon  
EU

F&C

Clean Hydrogen  
TBD

Management of  
aviation authority  
research needs

Contribution  
Agreements

Horizon  
EU

CA.1 (ongoing)  
CA.2 (ongoing)  
(upcoming)

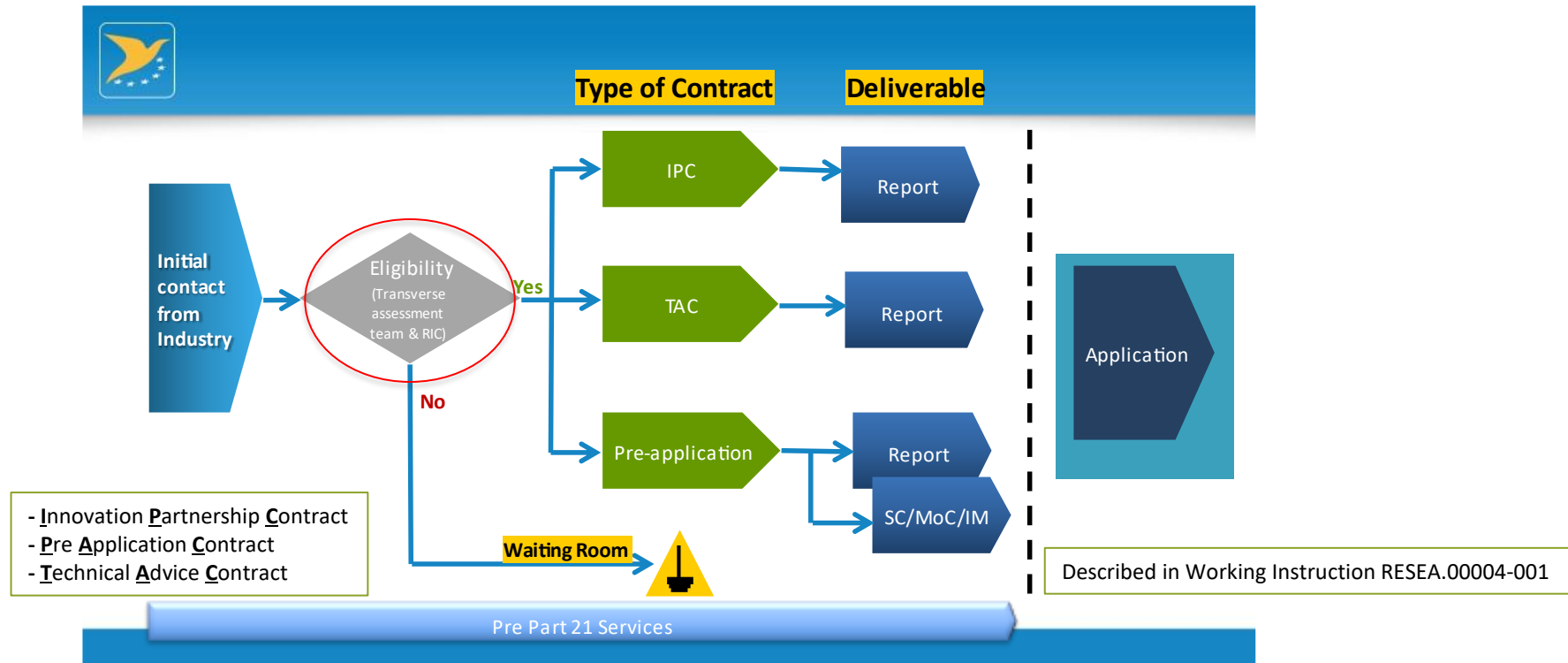
Horizon  
EU

EU R&I  
Partnership  
Agenda

Horizon  
EU

National R&I  
programmes

# Pre Application Services (IPC/PAC/TAC) - New Workflow



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## Key Steps:

- **Step 1 - Eligibility Assessment:** Transversal assessment (CONOPS, ATM, Organisation maturity, etc) of incoming requests presented to the EASA Research & Innovation Committee
- **Step 2 - Endorsement:** RIC endorsement of the eligibility assessment
- **Step 3 - Negotiation:** Contract negotiation (IPC/PAC/TAC) and monitor progress
- **Step 4 - Validation:** Validation of reports and publication of Generic SC/MOC/IM as necessary

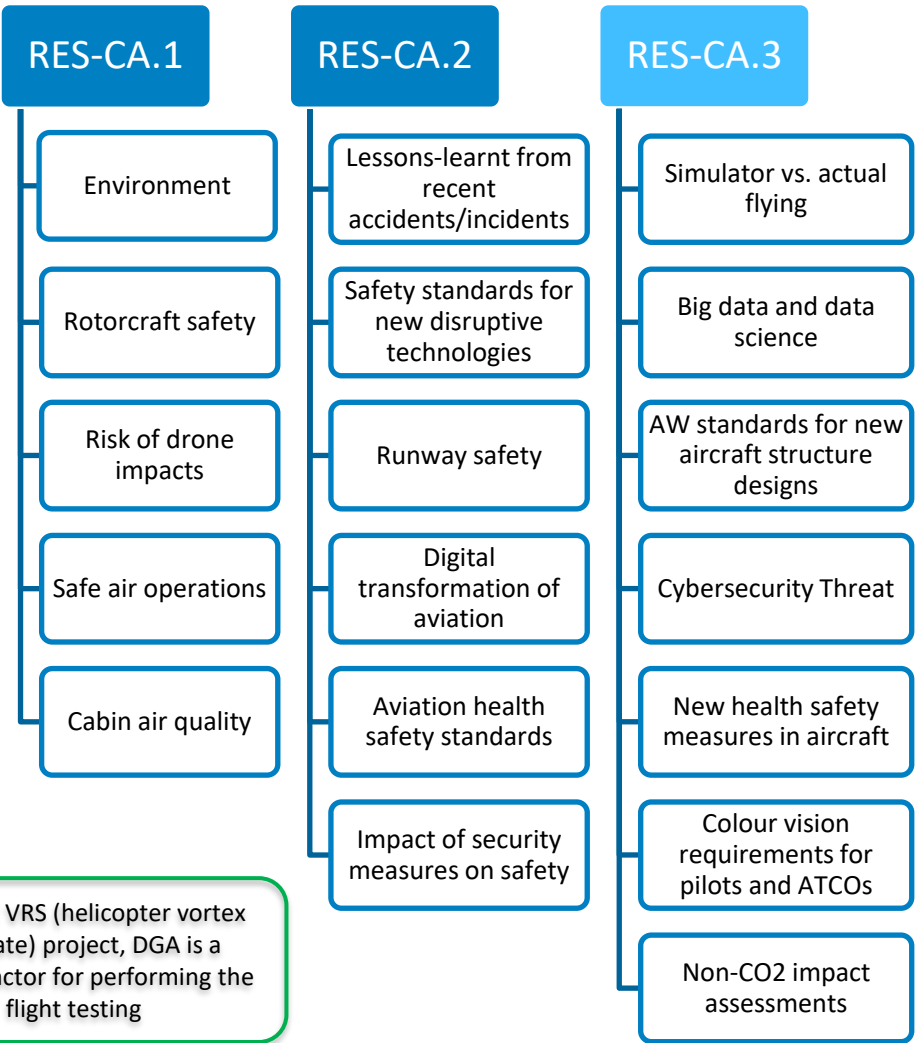
# Partnerships with Joint Undertakings

- Participation in the **SESAR 3 JU Governing Board** (as observer), Scientific and Programme Committees and Delivery Management Subcommittee
- Participation in the **Clean Aviation JU's Governing Board** (as observer), Technical Committee and Scientific Advisory Board
- Participation in **Clean Aviation and SESAR 3 projects** - Expected benefits:
  - Coordinate the **review of safety argumentation**, supporting the approval and endorsement of safety cases
  - **Prepare the needed regulations (across all domains)** incl. hard and soft law
  - Coordinate the **development of relevant industry standards** for product development and deployment of new technologies
  - **Adapt certification methods and tools** for new technologies
  - **Advise on the certifiability** of different technologies



# Contribution Agreements

- Main objectives:
- Strengthen EASA’s capacities as aviation authority and regulator
  - Implement strategic EPAS actions
  - Contribute to EASA’s competency management and knowledge development



# EASA Scientific Committee

- Launched in 2021 and formed with 11 renowned scientists from different universities
- Tasked with the provision of advice to the Agency to tackle major changes in aviation systems and operations
- 2 initial topics to be addressed:
  - **Artificial Intelligence applications**
  - **Impact of extreme weather events on aviation**
- Support to the implementation of EASA PhD scheme



# Thank you for your attention

More information on EASA Research and innovation activities:  
<https://www.easa.europa.eu/domains/research-innovation>

[easa.europa.eu/connect](https://easa.europa.eu/connect)



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