

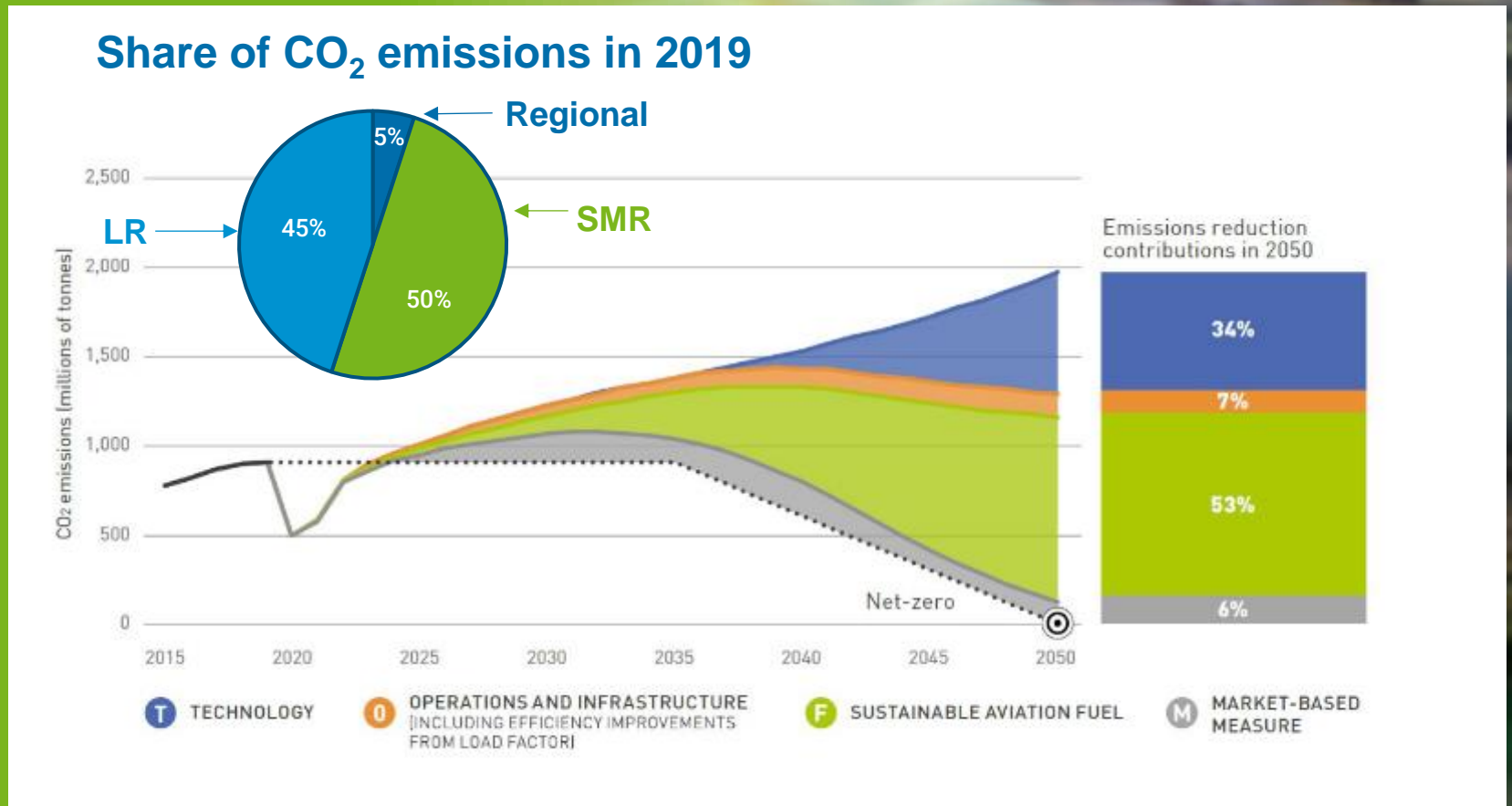


Clean Aviation: overview and Call 3 content

Hanh NGUYEN

Programme Officer, Clean Aviation

Technology & New Fuels (SAF incl. H₂) together will trigger disruption



Clean Aviation: an impact driven programme

Achieve
-30%
GhG
reduction

SAF



H2

Support
Entry-into-Service
of new aircraft
by
2035

Enable
75%
fleet replacement
by 2050

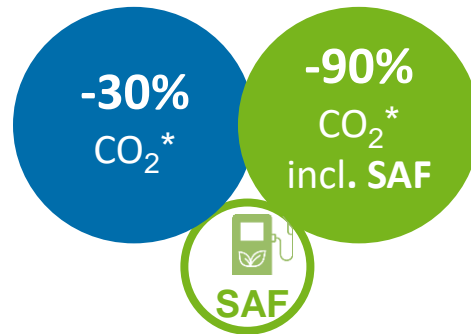
Clean Aviation Strategic Research Innovation Agenda



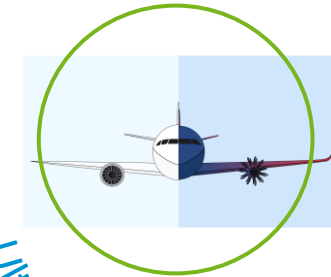
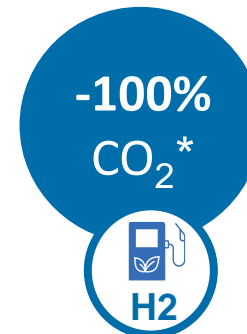
Clean Aviation's aircraft concepts



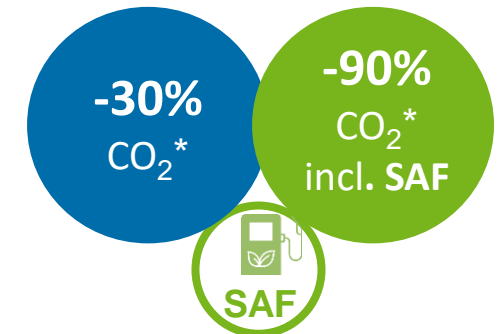
Ultra-efficient
Regional aircraft



Hydrogen powered
aircraft



Ultra-efficient Short and
Medium Range aircraft



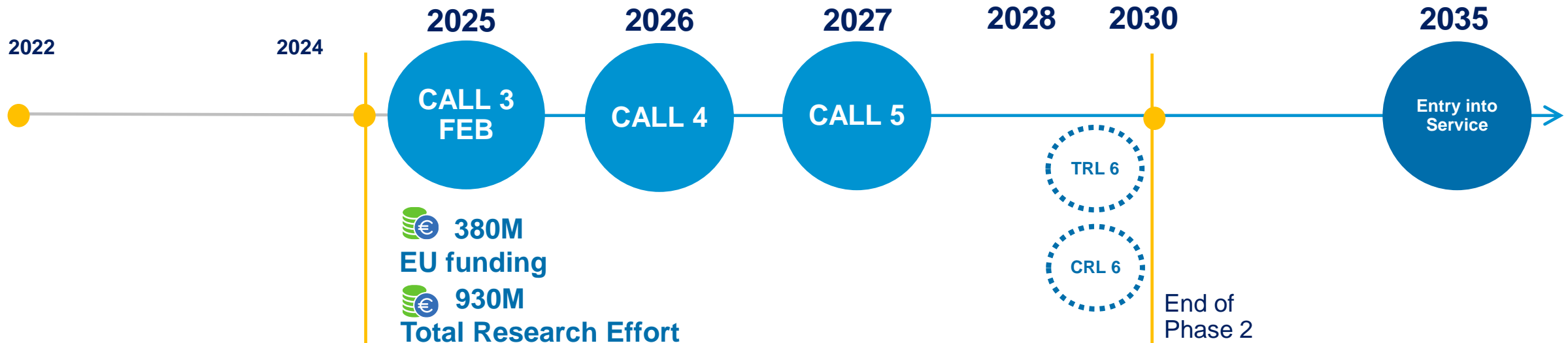
* non-CO₂ effects not yet quantified

Accelerating maturation & demonstration



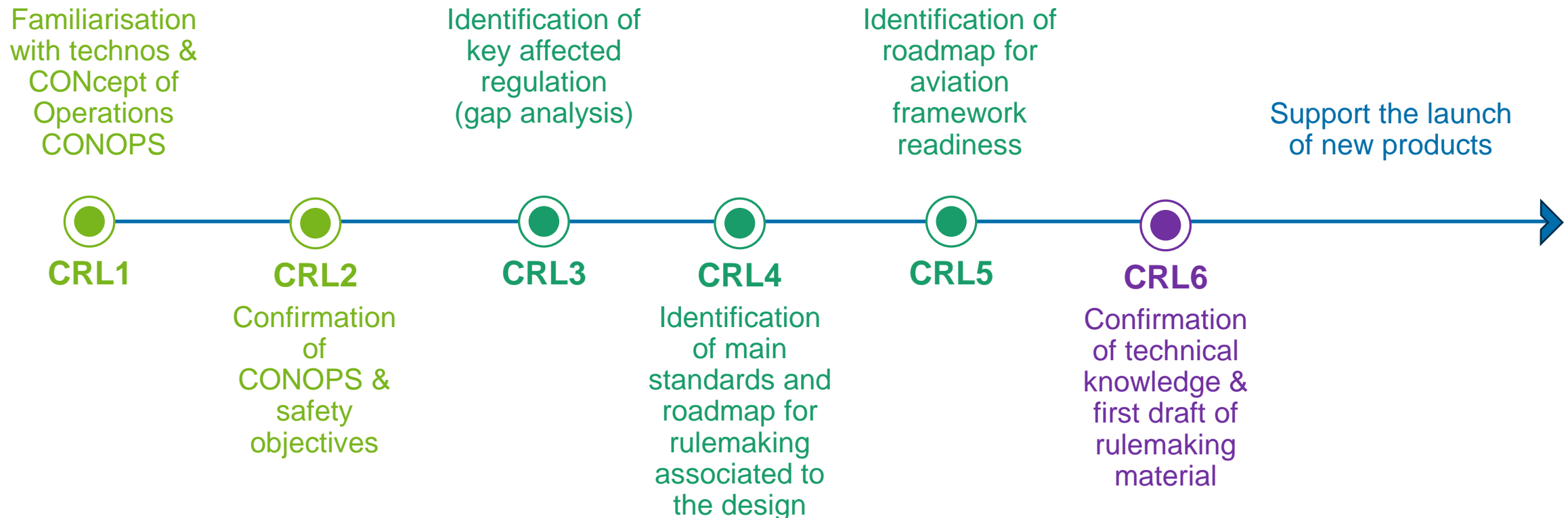
Clean Aviation Phase 1
Develop concepts & technology options

Clean Aviation Phase 2
Accelerate technology maturation through integrated demonstration



Introducing Certification Readiness Levels

- A new paradigm and mindset in R&I: co-created within Clean Aviation together with EASA.
- CRL as an standardised scale to define targets and monitor progress.



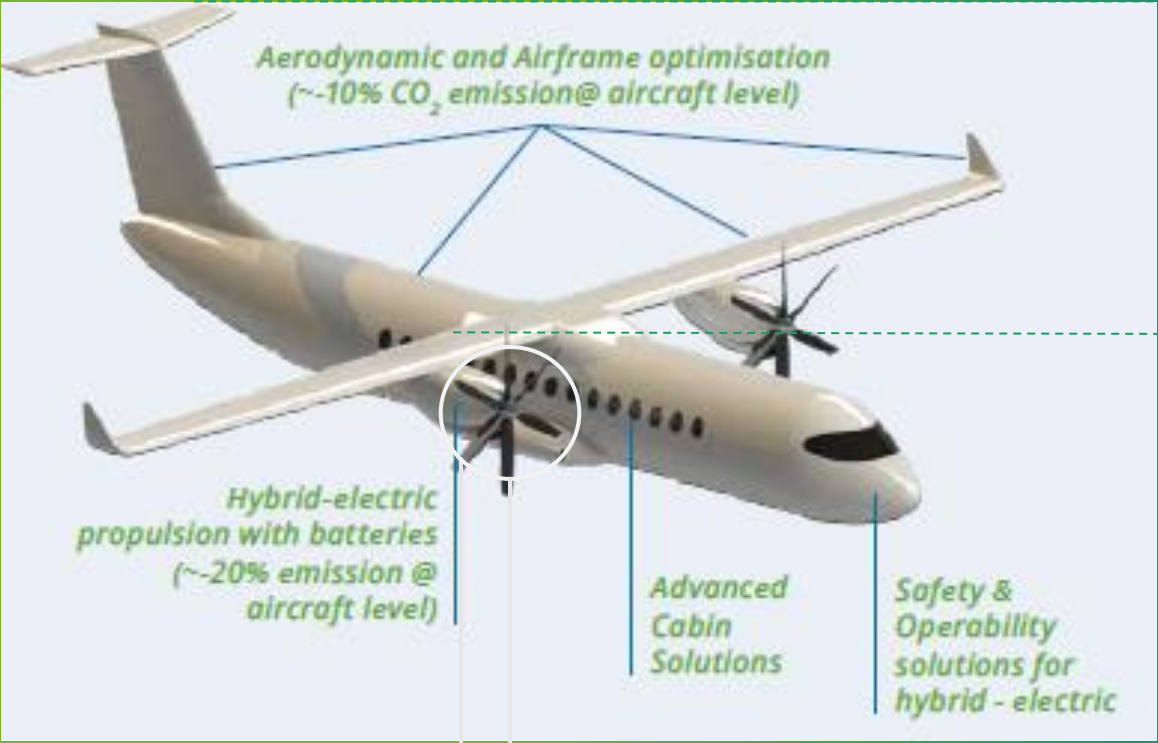


-30% CO₂*
-90% CO₂* incl. SAF

Up to TRL6 / CRL6 for critical technologies by 2030

Regional Aircraft: main tech challenges ahead

Flight Test Demonstration of Hybrid-Electric Propulsion for Regional aircraft – 35 M€



EIS timeframe by 2035

Multi-MW Hybrid Electric Propulsion Systems – 70 M€

Demonstration of a Hybrid-Electric Propulsion System, including Pylon and Nacelle Integration and modification

Electrical Distribution, Thermal and Energy management systems - 40 M€

Demonstration of On-board Systems relevant for hybridization

- FAST TRACK AREAS**
- Design and Integration of a High-Performance Battery System on a Hybrid-Electric Regional aircraft – 5 M€
 - Advanced Concepts for Reliable Power Electronics Conversion and Distribution in Aviation – 5 M€



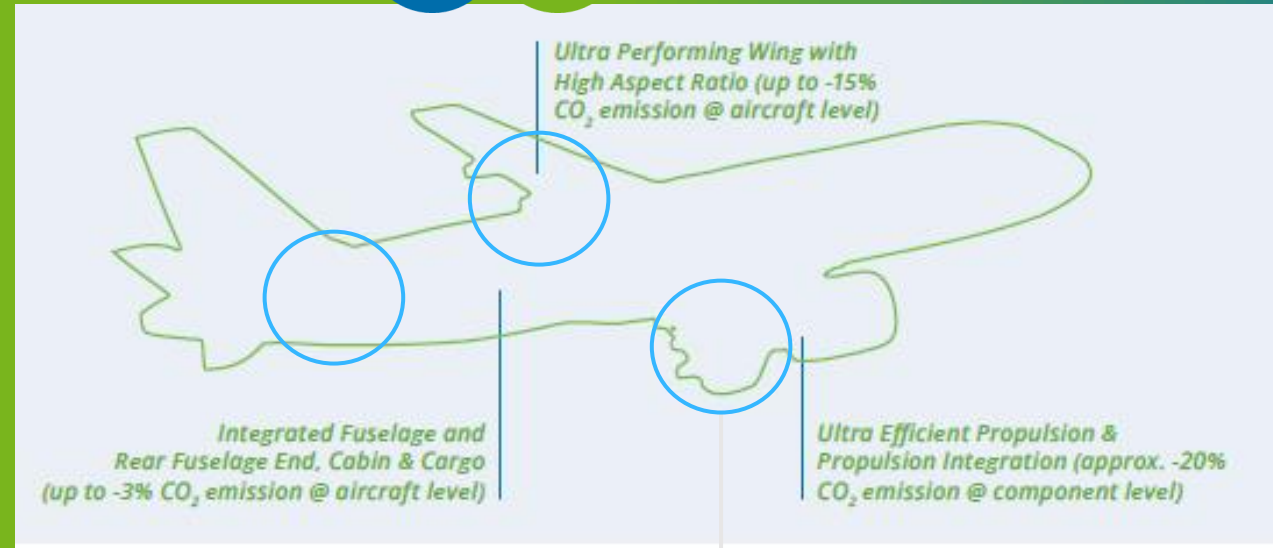
-30%
CO₂*

-90%
CO₂*
incl. SAF

Up to TRL6 / CRL6 for
critical technologies by 2030

SMR Aircraft: main tech challenges ahead

Timeframe 2035



Propulsion concepts

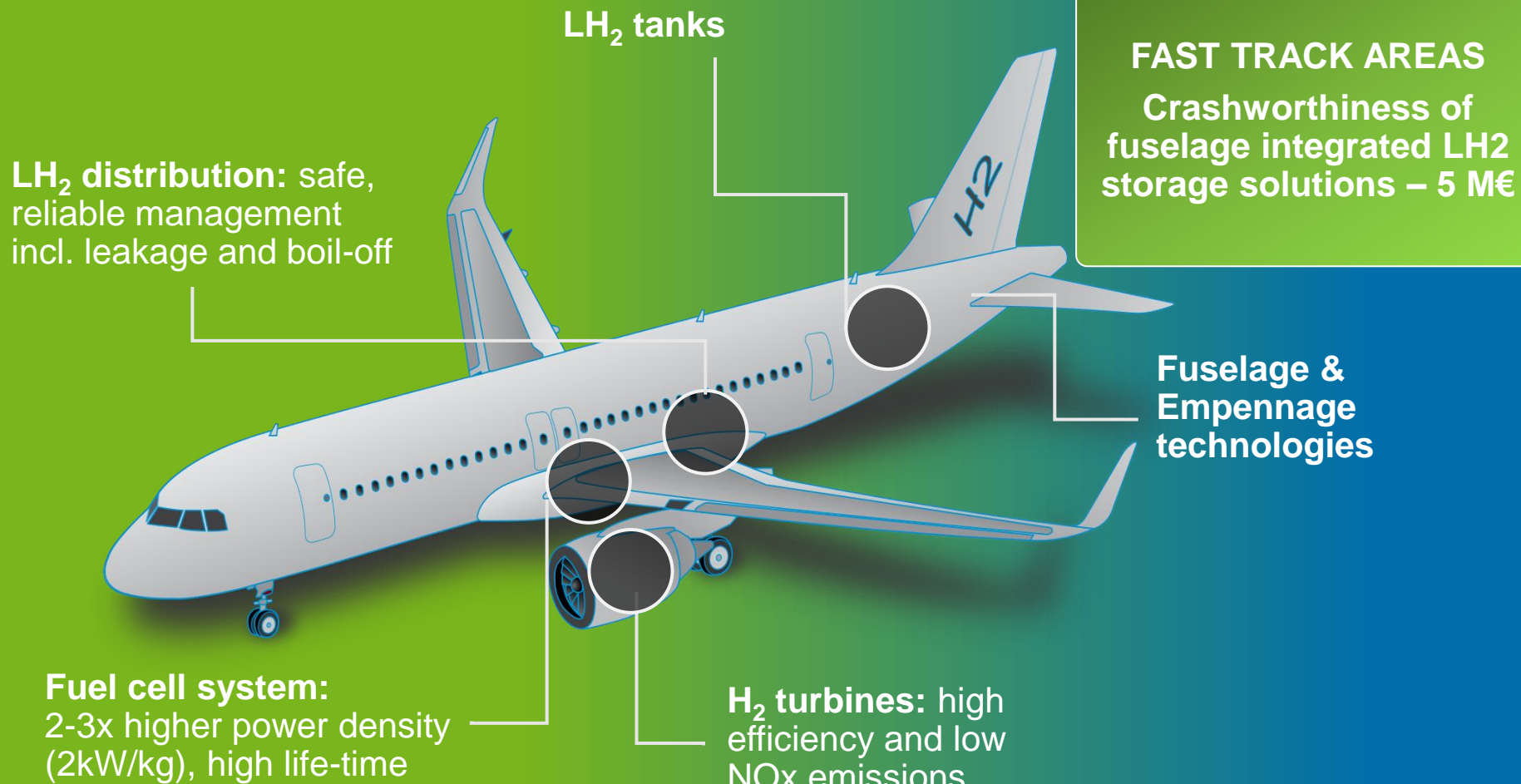
- **Ground Test Demonstration and Preparation of Flight Test** of an Ultra High Bypass Ratio Ducted Geared Turbofan Engine – 70 M€
- **Flight Test Demonstration** of an Unducted Engine Architecture – 100 M€

Electrical Distribution & Thermal management

Ground Test Demonstration up to TRL5 of On-Board NPE Systems Architecture – 35 M€

Hydrogen aircraft: main tech challenges ahead

Timeframe 2035



Call 3 Opening phase at a glance

Milestones	Large-scale Projects (LSP)& ACI Topics	Fast Track Activities (FTA) Topics
▪ Call Launch	20 February 2025	20 February 2025
▪ Submission System open (by the latest)	27 March 2025	27 March 2025
▪ Call Closure	15 May 2025	23 April 2025
▪ Q&A opens until*	04 April 2025	20 March 2025
▪ Evaluation Phase	June-July 2025	May-June 2025
▪ Results outcomes	August 2025	July 2025
▪ Grant Signature	Mid-December 2025	01 November 2025

**Q&A will be published on the Funding and Tenders Opportunities Portal.*

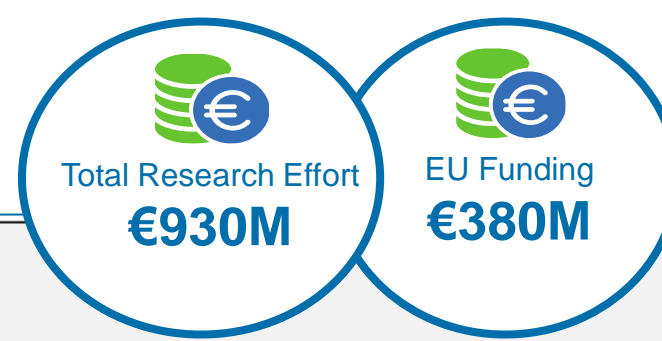
The call **contains 10 Topics** with an indicative total funding of **~€380 million**.

For questions: CFP-2025-01@clean-aviation.eu

Find out more:

- **Clean Aviation JU website:** [Calls for Proposals](#)
- **Funding and Tenders Opportunities Portal:** [CAJU Call 03 Large-scale Projects & ACI Topics](#); [CAJU Call 03 Fast Track Activities](#)

3rd Call for Proposals



Identification Code	Title	Type of Action	Ind. Funding Value (M€)
Aircraft integration and impact			
HORIZON-...-2025-03-ACI-01	Aircraft concept and key technologies integration and impact assessment	IA	15
Ultra-efficient regional aircraft topics			
HORIZON-...-2025-03-REG-01	Demonstration of a Hybrid-Electric Propulsion System for Regional aircraft, including Pylon and Nacelle Integration and modification	IA	70
HORIZON-...- 2025-03-REG-02	Demonstration of On-board Systems relevant for hybridization of Regional aircraft	IA	40
HORIZON-...- 2025-03-REG-03	Flight Test Demonstration of Hybrid-Electric Propulsion for Regional aircraft	IA	35
Short and medium-range aircraft topics			
HORIZON-...- 2025-03-SMR-01	Ground Test Demonstration and Preparation of Flight Test of an Ultra High Bypass Ratio Ducted Geared Turbofan Engine for SMR Aircraft	IA	70
HORIZON-...- 2025-03-SMR-02	Flight Test Demonstration of an Unducted Engine Architecture for SMR Aircraft	IA	100
HORIZON-...- 2025-03-SMR-03	Ground Test Demonstration up to TRL5 of On-Board NPE Systems Architecture for SMR Aircraft	IA	35
Fast Track Activities topics			
HORIZON-...-2025-03-FTA-01	Design and Integration of a High-Performance Battery System on a Hybrid-Electric Regional aircraft	RIA	5
HORIZON-...- 2025-03-FTA-02	Crashworthiness of fuselage integrated LH2 storage solutions	RIA	5
HORIZON-...- 2025-03-FTA-03	Advanced Concepts for Reliable Power Electronics Conversion and Distribution in Aviation	RIA	5

ACI

LSP: Large-scale Projects REG

LSP: Large-scale Projects SMR

FTA: Fast Track Activities

Call 3 Reference documents via F&T Portal

Call Background documentation :

1. CA JU Call 3 topics descriptions (Annex to the Work Programme);
2. CA JU Work Programme 2024-25 and in particular, Chapter 2.4.3 “Conditions and Management of the calls”
3. CAJU rules for submission, evaluation, selection, award and review procedures for calls for proposals
4. Clean Aviation Strategic Research and Innovation Agenda 2024 (CA JU SRIA)
5. Model Consortium Agreement - CA JU
6. Model Cooperation Agreement - CAJU
7. Clean Aviation Contract template for the provision of services by the European Aviation Safety Agency (EASA)
8. [HE Model Grant Agreement](#)
9. [EU funding & Tenders: Rules for Legal Entity Validation, LEAR Appointment and Financial Capacity Assessment](#)
10. [EU Grants AGA — Annotated Model Grant Agreement](#) (EU Funding Programmes 2021-2027)
11. Applicable for Large-scale Projects & ACI Topics:
 - a. Application Form Model for IA and RIA Actions - CA JU+ supporting tables to Part B “technical description” and Annexes.
 - b. Evaluation Form IA and RIA Actions - CA JU
 - c. Q&A Releases
12. Applicable for Fast Track Activities (FTA) Topics :
 - a. Application Form Model for FTA - CA JU+ supporting tables to Part B “technical description” and Annexes.
 - b. Evaluation Form FTA - CA JU
 - c. Q&A Releases

For reference:

- [Regulation \(EU\) 2021/2085](#) adopted by the Council of the European Union on 19/11/2021 establishing the Joint Undertakings (JU) under Horizon Europe (HE)
- [HE Programme Guide](#)

FAQ with Applicants - practical guidance

1. Applicants submit their questions via CFP-2025-01@clean-aviation.eu;
2. Questions are collected by CA JU and if/where relevant, addressed after analysis;
3. Q&As are published once available via the [Funding & Tender Opportunities Portal](#).
4. Applicants are advised to regularly check the [CA JU website](#) and [Participant Portal](#) for updates to the call information and questions
 - ❖ *DO NOT ask for replies via the Functional Call Mailbox !*

Q&A

Submit your questions via
CFP-2025-01@clean-aviation.eu





Thank you for your
participation !



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#CAJUcall3