



# Thematic Topics

“Where the Top-Down the Bottom-Up” ...

Toulouse, 26 October 2018

**Innovation Takes Off**

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# Thematic Topics - Background

- **Thematic topics as new instrument to bring in new ideas contributing to CS2 HLO/complementing CS2 programme**
- **Features of thematic topics:**
  - Problem-oriented statements allowing research / technology routes to be selected and proposed by applicants
  - Allow for **retention of multiple projects against a topic**, where justified
  - Down-selecting on basis of clear contribution to CS2 HLO
  - Avoid duplication with H2020 calls in terms of both topic scope [narrower] and descriptions [more focused yet broader than CfP topics to date]



# CfP09 Overview – Thematic Topics

Identification Code	Title	Type of Action	Value (Funding in M€)
JTI-CS2-2018-CFP09-THT-03	Conceptual Design of a 19 passenger Commuter Aircraft with near zero emissions	RIA	0.75
JTI-CS2-2018-CFP09-THT-04	Aircraft Design Optimisation providing optimum performance towards limiting aviation's contribution towards Global Warming	RIA	0.75
JTI-CS2-2018-CFP09-THT-05	Advanced High Bypass Ratio Low-Speed Composite Fan Design and Validation	RIA	2.00
JTI-CS2-2018-CFP09-THT-06	Research for the development of Particulate Matter (PM) regulations and guidelines	RIA	1.00



# JTI-CS2-2018-CFP09-THT-03: Conceptual Design of a 19-passenger Commuter Aircraft with near zero emissions

Type of action (RIA/IA/CSA):	RIA		
Programme Area:	N/A		
(CS2 JTP 2015) WP Ref.:	N/A		
Indicative Funding Topic Value (in k€):	750		
Topic Leader:	N/A	Type of Agreement:	N/A
Duration of the action (in Months):	36*	Indicative Start Date (at the earliest) <sup>123</sup> :	Q3 2019

*\*The JU considers that proposals requesting a contribution of 750k€ over a period of 36 months would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts and/or proposing different activity durations.*

## Short description

This thematic topic focuses on the design of a 19 passenger commuter aircraft based on alternative propulsion concepts (electric, hybrid/electric, fuel cells, etc.) targeting near-zero CO<sub>2</sub> emissions. Architectures may include (but are not limited to) concepts based on a jet-fuel powered (piston or turbine) generator providing electric power, recharging batteries and driving propellers or fans (distributed or not) through electrical engines, full electric aircraft, or propulsion using alternative energy systems and energy carriers like fuel cells, hydrogen, LNG etc. A full design loop is required, evaluating a range of design options, resulting in a mature conceptual design for the selected design. The design should be compliant with the new level 4 FAR23 / CS23 regulation, range and payload and operating parameters may be optimized. The expected project outcome would include a gap analysis and roadmap for performance critical technologies, the sizing and layout of system components, including fault tolerance scenarios, and quantified environmental performance gains, including a full LCA analysis of the proposed concepts.



# Applicant's Proposal Submission System

## Templates for submitting a valid proposal:

1. Part A *[Administrative Section (Coordinator ID, Legal LEAR etc.)]*
2. Part B.I *[Technical Section: 3 EVAL Criteria and technical and financial content linked to DoA]*

**NOTE: 30-page limitation for thematic topics**

3. Part B.II *[Admin Section: members of consortium (participants, operational capacity, etc.), (potential) ethics and security issues identified by the applicant]*
4. PART C *[ESIF Complementary Activities – OPTIONAL] – **NA for TT***
5. Part D *[Declaration on the Participation of any Affiliated Entities to Private Members of CS2JU in this Proposal and Declaration(s) of Interests]*

These templates (in pdf format) are available to applicants on the Participant Portal.



# 9<sup>th</sup> Call for Proposal at a glance

## Key dates to remember\*

▪ Call Launch	6 November 2018
▪ Call Closure	06 February 2019, 17:00 (Brussels Time)
▪ Evaluation Phase	February - March 2019
▪ Q&A last publication**	19 December 2018
▪ Technical sessions & GAP preparation	Q2-Q3 2019
▪ Indicative Start date of activities	Q3 2019

\*Dates are provided as indicative/target dates.

\*\*Questions received until 5<sup>th</sup> December 2018 (Brussels Time), 17.00 will be answered after analysis and published when appropriate.

In case of questions, feel free to use our dedicated **Call mailbox**: [Info-Call-CFP-2018-02@cleansky.eu](mailto:Info-Call-CFP-2018-02@cleansky.eu). Our functional mailbox will be active as from the date of the call. We handle all questions in the same way for the benefit of all potential applicants: Q&A are regularly updated over the whole call life cycle and are published via the **H2020 Participant Portal of the European Commission**.

Questions received up until 5<sup>th</sup> December 2018, 17:00 (Brussels Time) will be answered after analysis and published in Q&A when appropriate. In total, 3 Q&A publications are foreseen: 06/11/2018, 22/11/2018, 19/12/2018 (estimated dates).

Any questions?

[Info-Call-CFP-2018-02@cleansky.eu](mailto:Info-Call-CFP-2018-02@cleansky.eu)

Last deadline to submit your questions:  
5<sup>th</sup> December 2018, 17:00 (Brussels time)

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