



## Clean Sky 2 (CS2)

Legal Framework	<p>Article 25 in the <a href="#">Regulation</a> of the European Parliament and of the Council establishing Horizon 2020 – the Framework Programme for Research and Innovation (2014-2020).</p> <p>Joint Technology Initiatives (JTIs) are implemented through dedicated legal entities - Joint Undertakings (JU) - established under what was then the equivalent of the current Article 187 of the Treaty on the Functioning of the European Union (TFEU). The <a href="#">Clean Sky 2</a> (CS2) JU is established by <a href="#">Council Regulation</a>. It has its own legal entity.</p>
Structure	<p>PPPs are one of the key actions of <a href="#">Leadership in Enabling and Industrial Technologies</a>, which is a specific objective of Priority II “Industrial Leadership” of Horizon 2020.</p> <p>PPPs are vehicles to implement technological roadmaps in particular areas and aim at leveraging private investment in Research and Innovation (R&amp;I). They are implemented either through JTIs or through dedicated calls for proposals and topics (contractual PPPs). JTIs are implemented by the European Commission (EC) where the scope of the objectives pursued and the scale of the resources required justify it taking full account of the relevant impact assessments, and where other forms of partnerships would not fulfil the objectives or would not generate the necessary leverage. They are run as Joint Undertakings that organise their own research and innovation agenda and award funding for projects on the basis of open calls.</p>
Policy Context	<p>Air transport contributes today to about 3% of global greenhouse gas emissions, with traffic expected to triple by 2050. Although other sectors are more polluting (electricity and heating produces 32% of greenhouse gases), this expected growth makes it necessary to address aviation’s environmental impact. Meeting the EU’s climate and energy objectives will require a drastic reduction of the sector’s environmental impact by reducing its emissions. But game-changing innovation in this sector is risky, complex and expensive, and requires long-term commitment. This is why all relevant European stakeholders should work together to develop proof-of-concept demonstrators. The JTI Clean Sky tackles these challenges.</p> <p>CS2 will enable a natural continuation to the progress achieved in the first CS Programme launched as Europe’s largest ever aeronautics research programme (budget €1.6 billion) in 2008 under the EU’s 7th Framework Programme for Research and Technological Development (FP7), which will end in 2017. It has already brought together over 560 participants (industrial leaders and public research organisations), of which 40% are SMEs.</p>
Objective	<p>The aims of the CS2 JTI are to:</p> <ul style="list-style-type: none"> <li>• accelerate the development of smart, environmental friendly and energy-efficient aircraft which operate worldwide, thereby meeting environmental and societal targets for more efficient, safer and greener air transport;</li> <li>• achieve its strategic social priorities of sustainable growth, wealth creation and stable employment in fields of high technology;</li> <li>• win global leadership for European aeronautics with a competitive supply chain, which includes academia, research bodies and SMEs.</li> </ul>
Management	<p>Managed by a dedicated JU. CS2 will bring three <a href="#">groups of members</a> into the JU:</p> <ul style="list-style-type: none"> <li>• the EC, who will ensure that EU public policy is applied and respected;</li> </ul>

	<ul style="list-style-type: none"> <li>CS2 Leaders, who will commit themselves to implement the demonstrator programmes and manage them throughout their full duration. Leaders will be members of CS2 and contribute to co-fund the effective operation of the CS2 JU;</li> <li>CS2 Core-Partners (Associates in CS1), who can be private and/or public organisations and will be selected following an open and transparent competitive process. They will make substantial long-term commitments towards the programme and bring key competences and technical contributions aligned to its high-level objectives. They will contribute to the global management of the demonstrators and contribute financially with significant in-kind contributions. They will participate in Integrated Technology Demonstrators (ITD), Innovative Aircraft Demonstration Platforms (IADP) or in Transverse Activities (TA) where they will take on key roles in the programme area they join, and will be members of the JU for the duration of their activity, which will often span the lifetime of CS2.</li> </ul> <p>The JU establishes its own strategic research agenda. The JU's governance comprises the following bodies:</p> <ul style="list-style-type: none"> <li>the <b>Governing Board</b> (GB) is composed of the EC, the Leaders, and the core partners. It has the overall responsibility for the strategic orientation and the operations of the CS2 JU and supervises the implementation of its activities;</li> <li>the <b>Executive Director</b> (ED) is the legal representative of the JU. He is appointed by the GB, from a list of candidates proposed by the EC, following an open and transparent selection procedure. The ED and its team (the Programme Office) are responsible for the day-to-day management of CS2 (e.g. organising calls for proposals and managing research and development agenda of JU) and the preparation of the (Multi-) Annual Work-Programme;</li> <li><b>Steering Committees</b> for each of the ITDs and IADPs. They guide and monitor the technical functions of their ITD or IADP and take decisions on behalf of the CS2 JU on technical matters specific to the relevant ITD or IADP in line with the grant agreements or decision. The former Steering Committees of the CS1 will continue to exist until the JU ends in 2017;</li> <li>an independent <b>Technology Evaluator</b> (as a Transverse Activity) monitors and assesses the environmental and societal impact of the technological results arising from individual ITDs and IADPs across all CS activities;</li> <li>a <b>Scientific Committee</b>, comprising worldwide recognised experts from academia, industry and regulatory bodies, advises on the scientific priorities to be addressed in the work plans and the achievements described in the annual activity report;</li> <li>the <b>States Representatives Group</b> (SRG) consists of one representative of each Member State (MS) and of each country associated (AC) to Horizon 2020. The SRG should be consulted for progress made in the programme, updates of strategic orientation or work plans.</li> </ul>
Size of overall budget	<p>The budget of CS2 is €4 billion.</p> <p>From public partners: €1.8 billion from EC from the Horizon 2020 programme budget</p> <p>From industrial partners: €2.2 billion (€1 billion of which will come through additional activities that are not included in the work plan of the JTI but that support the achievement of its objectives)</p>
Funding	<ul style="list-style-type: none"> <li>40% of the funds are earmarked for the founding members of CS2 (CS2 Leaders) who lead the technical programme and commit for the whole duration.</li> <li>30% is to be allocated to Core Partners, selected through open calls at the start of the programme, which will become full members of the JU.</li> <li>The remaining 30% of funding will be distributed in annual open calls to support the specific tasks.</li> </ul>
Eligible Countries/participants	<p>Any legal entity based in an EU MS or AC (see Annex A <a href="#">Work Plan 2016-17</a> for the specific countries) participate in the Joint Undertaking of CS2. A consortium may involve one or several participant/s. International European interest organisations will also be eligible to receive funding from Horizon 2020. Third countries are not eligible to participate the joint undertaking but may participate in calls for proposals without receiving funding.</p>
Beneficiaries	<p>SMEs, research establishments, universities or industry</p>

Expected results	<ul style="list-style-type: none"> <li>increasing aircraft fuel efficiency, thus reducing CO2 emissions by between 20 to 30%;</li> <li>reducing aircraft NOx and noise emissions by between 20 to 30% compared to "state-of-the-art" aircraft entering into service as from 2014.</li> </ul>
Timeframe/Duration	2014-2024
Application procedure	<p>Three types of call will be issued under Clean Sky 2 and published on its website and on the <a href="#">Participant Portal</a>. Call procedures will be competitive and transparent.</p> <ul style="list-style-type: none"> <li>Calls for Core-Partners who will be expected to make a substantial commitment to Clean Sky 2 and its programme activities. Core-Partners will become members of the Clean Sky Joint Undertaking.</li> <li>Calls for Proposals (or "Calls for Partners") addressed to entities interested in participating as Partners in individual projects within CS2 on a short-term contractual basis and with relevant expertise to offer. Third countries may participate without receiving funding.</li> <li>Calls for Tender.</li> </ul> <p>Core-Partners and Partners will be selected in a transparent and competitive manner, and a wide participation from SMEs, academia, public sector enterprises and non-profit research institutions will be encouraged.</p>
Selection procedure	<p>Depends on member-status (see Annex B <a href="#">Work Plan 2016-2017</a>).</p> <p>To be Core-Partner:</p> <ul style="list-style-type: none"> <li>follow Horizon 2020 rules;</li> <li>submitted in the electronic submission system before the deadline given in the call conditions;</li> <li>readable, accessible and printable. The proposals must be in English;</li> <li>relevance and contributions to the content and objectives of the Call (relevance will be considered in relation to the Work Programme open in a given call);</li> <li>draft plan for the exploitation and dissemination of the results</li> </ul>
Offer/Activities supported	
Useful links	<p><a href="http://ec.europa.eu/programmes/horizon2020/en/area/partnerships-industry-and-member-states">http://ec.europa.eu/programmes/horizon2020/en/area/partnerships-industry-and-member-states</a></p> <p><a href="http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1402931667978&amp;uri=OJ:JOL_2014_169_R_0006">http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1402931667978&amp;uri=OJ:JOL_2014_169_R_0006</a></p> <p><a href="http://www.cleansky.eu/content/homepage/about-clean-sky-2">http://www.cleansky.eu/content/homepage/about-clean-sky-2</a></p> <p><a href="http://www.cleansky.eu/sites/default/files/documents/20131009_cs2programmeoverviewfinal.pdf">http://www.cleansky.eu/sites/default/files/documents/20131009_cs2programmeoverviewfinal.pdf</a></p>