

**Appels à propositions dans le cadre du programme européen pour la recherche et l'innovation  
« HORIZON 2020 »**

**SESAR - Smart, green and integrated transport**

Titre	Type	Budget	Date d'ouverture	Date limite
<a href="#">SESAR-VLD2-01-2020 - Optimised use of Airspace</a>	IA	19,5 M€	30-janv-20	16-juin-20
<a href="#">SESAR-VLD2-03-2020 - U-space capabilities and services to enable Urban Air Mobility</a>	IA		30-janv-20	16-juin-20
<a href="#">SESAR-VLD2-04-2020 - Environmental sustainability</a>	IA		30-janv-20	16-juin-20
<a href="#">SESAR-VLD2-02-2020 - Integrated Trajectory Management</a>	IA		30-janv-20	16-juin-20
<a href="#">SESAR-WAVE3-01-2020 - Virtual Centre</a>	RIA	30 M€	31-mars-20	16-juin-20
<a href="#">SESAR-WAVE3-02-2020 - Increased flexibility in the allocation of ATCO resources</a>	RIA		31-mars-20	16-juin-20
<a href="#">SESAR-WAVE3-03-2020 - Collaborative U-space-ATM interface</a>	RIA		31-mars-20	16-juin-20
<a href="#">SESAR-WAVE3-04-2020 - Enhanced automated air/ground synchronisation</a>	RIA		31-mars-20	16-juin-20
<a href="#">SESAR-WAVE3-05-2020 - Collaborative management of TMA &amp; Airport throughput</a>	RIA		31-mars-20	16-juin-20
<a href="#">SESAR-WAVE3-06-2020 - Integrated Runway Throughput and Terminal Efficiency</a>	IA		31-mars-20	16-juin-20
<a href="#">SESAR-WAVE3-07-2020 - Downlinking Flight Trajectory to improve ATM performance</a>	IA		31-mars-20	16-juin-20

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**Shift2Rail**

<b>Titre</b>	<b>Type</b>	<b>Budget</b>	<b>Date d'ouverture</b>	<b>Date limite</b>
<b>S2R JU members eligible only</b>				
<a href="#">S2R-CFM-IP1-01-2020 - Demonstrators for the next generation of traction systems, smart maintenance, virtual validation and eco-friendly HVAC, and Technical research on battery and hydrogen powered regional trains (BEMU/ HMU) (IP1/IP3)</a>	IA	8,9 M€	07-janv-20	27-mai-20
<a href="#">S2R-CFM-IP1-02-2020 - Validation of new technologies for the TCMS</a>	IA	3,9 M€	07-janv-20	27-mai-20
<a href="#">S2R-CFM-IP2-01-2020 - Completion of activities for Adaptable Communication, Moving Block, Fail safe Train Localisation (including satellite), Zero on site Testing, Formal Methods and Cyber Security</a>	IA	14,9 M€	07-janv-20	27-mai-20
<a href="#">S2R-CFM-IP3-01-2020 - Research into optimised and future railway infrastructure</a>	IA	11,4 M€	07-janv-20	27-mai-20
<a href="#">S2R-CFM-IP4-01-2020 - Enhancing IP4 Ecosystem</a>	IA	5,2 M€	07-janv-20	27-mai-20
<a href="#">S2R-CFM-IP5-01-2020 - Formulation of the freight train of the future</a>	IA	7,8 M€	07-janv-20	27-mai-20
<a href="#">S2R-CFM-IPX-01-2020 - Advanced Functions towards Autonomous Trains</a>	RIA	2 M€	07-janv-20	27-mai-20
<a href="#">S2R-CFM-IPX-CCA-02- 2020- Evolution of Railways System Architecture and Conceptual Data Model (CDM)</a>	RIA	1 M€	07-janv-20	27-mai-20
<b>S2R JU non-members</b>				
<a href="#">S2R-OC-IP1-01-2020-Support to Development of next generation of Traction systems (TD1.1)</a>	RIA	2,3 M€	07-janv-20	27-mai-20
<a href="#">S2R-OC-IP1-02-2020 - Network and end-device equipment for the validation of the next generation of TCMS (TD1.2)</a>	IA	4,6 M€	07-janv-20	27-mai-20
<a href="#">S2R-OC-IP1-03-2020 - Innovative technologies for Carbodies and Running Gear of the future (TD1.3 + TD 1.4)</a>	RIA	2,4 M€	07-janv-20	27-mai-20
<a href="#">S2R-OC-IP2-01-2020 - Modelling of the Moving Block system specification and future architecture (TD2.3) + RAIM algorithms, Assessment Report and support for Railway Minimum Operational Performance Standards (TD2.4)</a>	RIA	1,3 M€	07-janv-20	27-mai-20
<a href="#">S2R-OC-IP2-02-2020 - Study on alternative bearers and on communication protocols</a>	RIA	0,4 M€	07-janv-20	27-mai-20
<a href="#">S2R-OC-IP3-01-2020 - Next Generation Track Transition Zones (TD3.4)</a>	RIA	1,3 M€	07-janv-20	27-mai-20
<a href="#">S2R-OC-IP3-02-2020 - Technology Development for Railway Systems Asset Management (TD3.6)</a>	RIA	1,7 M€	07-janv-20	27-mai-20
<a href="#">S2R-OC-IP3-03-2020 - Advanced tools and equipment: collaborative robots &amp; wearable mobile machines (TD3.8)</a>	RIA	2,7 M€	07-janv-20	27-mai-20
<a href="#">S2R-OC-IP4-01-2020 - Supporting the implementation of the IP4 multi-modal transport ecosystem (iTD4.7)</a>	IA	2 M€	07-janv-20	27-mai-20
<a href="#">S2R-OC-CCA-01-2020-Noise and Vibration (WA5)</a>	RIA	0,9 M€	07-janv-20	27-mai-20
<a href="#">S2R-OC-IPX01-2020 - Innovation in guided transport</a>	CSA	2 M€	07-janv-20	27-mai-20



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**ECSEL**

Titre	Type	Budget	Date d'ouverture	Date limite
<a href="#">ECSEL-2020-1-IA</a>	IA	93 M€	05-févr-20	05/05/2020 puis 16/09/2020
<a href="#">ECSEL-2020-2-RIA</a>	RIA	61 M€	05-févr-20	05/05/2020 puis 16/09/2020
<a href="#">ECSEL-2020-4-CSA - Digital Excellence</a>	CSA	2 M€	05-févr-20	05-mai-20



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**Fuel Cells and Hydrogen**

Titre	Type	Budget	Date d'ouverture	Date limite
<b>Pilier Transport</b>				
<a href="#">FCH-01-1-2020 - Development of hydrogen tanks for electric vehicle architectures</a>	FCH2 - RIA	2 M€	14-janv-20	29-avr-20
<a href="#">FCH-01-2-2020 - Durability-Lifetime of stacks for Heavy Duty trucks</a>	FCH2 - RIA	3,5 M€	14-janv-20	29-avr-20
<a href="#">FCH-01-3-2020 - Liquid Hydrogen on-board storage tanks</a>	FCH2 - RIA	2 M€	14-janv-20	29-avr-20
<a href="#">FCH-01-4-2020 - Standard Sized FC module for Heavy Duty applications</a>	FCH2 - IA	7,5 M€	14-janv-20	29-avr-20
<a href="#">FCH-01-5-2020 - Demonstration of FC Coaches for regional passenger transport</a>	FCH2 - IA	5 M€	14-janv-20	29-avr-20
<a href="#">FCH-01-6-2020 - Demonstration of liquid hydrogen as a fuel for segments of the waterborne sector</a>	FCH2 - IA	8 M€	14-janv-20	29-avr-20
<a href="#">FCH-01-7-2020 - Extending the use cases for FC trains through innovative designs and streamlined administrative framework</a>	FCH2 - IA	10 M€	14-janv-20	29-avr-20
<a href="#">FCH-01-8-2020 - Scale-up and demonstration of innovative hydrogen compressor technology for full-scale hydrogen refuelling station</a>	FCH2 - IA	3 M€	14-janv-20	29-avr-20
<b>Pilier Energie</b>				
<a href="#">FCH-02-1-2020: Catalyst development for improved economic viability of LOHC technology</a>	RIA	2,5 M€	14-janv-20	29-avr-20
<a href="#">FCH-02-2-2020: Highly efficient hydrogen production using solid oxide electrolysis integrated with renewable heat and power</a>	RIA	2,5 M€	14-janv-20	29-avr-20
<a href="#">FCH-02-3-2020: Diagnostics and Control of SOE</a>	RIA	2,5 M€	14-janv-20	29-avr-20
<a href="#">FCH-02-4-2020: Flexi-fuel stationary SOFC</a>	RIA	2,5 M€	14-janv-20	29-avr-20
<a href="#">FCH-02-5-2020: Underground storage of renewable hydrogen in depleted gas fields and other geological stores</a>	RIA	2,5 M€	14-janv-20	29-avr-20
<a href="#">FCH-02-6-2020: Electrolyser module for offshore production of renewable hydrogen</a>	RIA	5 M€	14-janv-20	29-avr-20
<a href="#">FCH-02-7-2020: Cyclic testing of renewable hydrogen storage in a small salt cavern</a>	IA	5 M€	14-janv-20	29-avr-20
<a href="#">FCH-02-8-2020: Demonstration of large-scale coelectrolysis for the Industrial Power-to-X market</a>	IA	5 M€	14-janv-20	29-avr-20
<a href="#">FCH-02-9-2020: Fuel cell for prime power in datacentres</a>	IA	2,5 M€	14-janv-20	29-avr-20
<b>Activités globales</b>				
<a href="#">FCH-03-1-2020 - HT proton conducting ceramic materials for highly efficient and flexible operation</a>	RIA	3 M€	14-janv-20	29-avr-20
<a href="#">FCH-03-2-2020 - Decarbonising islands using renewable energies and hydrogen - H2 Islands</a>	IA	10 M€	14-janv-20	29-avr-20
<b>Activités transversales</b>				
<a href="#">FCH-04-1-2020: Overcoming technical and administrative barriers to deployment of multi-fuel hydrogen refuelling stations (HRS)</a>	RIA	2 M€	14-janv-20	29-avr-20
<a href="#">FCH-04-2-2020: PNR on hydrogen-based fuels solutions for passenger ships</a>	RIA	2,5 M€	14-janv-20	29-avr-20
<a href="#">FCH-04-3-2020: Development of eco-design guidelines for FCH products</a>	RIA	1 M€	14-janv-20	29-avr-20
<a href="#">FCH-04-4-2020: Development and validation of existing and novel recycling technologies for key FCH products</a>	RIA	1,5 M€	14-janv-20	29-avr-20
<a href="#">FCH-04-5-2020: Guidelines for Life Cycle Sustainability Assessment (LCSA) of fuel cell and hydrogen systems</a>	CSA	2 M€	14-janv-20	29-avr-20

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**IMI**

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<a href="#">IMI2-2020-20-01 - Early diagnosis, prediction of radiographic outcomes and development of rational, personalised treatment strategies to improve long-term outcomes in psoriatic arthritis</a>	RIA	273,218M€	21-janv-20	21/04/2020 puis 05/11/2020
<a href="#">IMI2-2020-20-02 - Innovations to accelerate vaccine development vaccine development and manufacture</a>	RIA		21-janv-20	21/04/2020 puis 05/11/2020
<a href="#">IMI2-2020-20-03 - Academia and industry united innovation and treatment for tuberculosis (UNITE4TB)</a>	RIA		21-janv-20	21/04/2020 puis 05/11/2020
<a href="#">IMI2-2020-20-04 - Tumour plasticity</a>	RIA		21-janv-20	21/04/2020 puis 05/11/2020
<a href="#">IMI2-2020-20-05 - Proton versus photon therapy for oesophageal cancer - a trimodality strategy</a>	RIA		21-janv-20	21/04/2020 puis 05/11/2020
<a href="#">IMI2-2020-20-06 - Handling of protein drug products and stability concerns</a>	RIA		21-janv-20	21/04/2020 puis 05/11/2020

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**CS2 - Clean Sky**

Titre	Type	Budget	Date d'ouverture	Date limite
<b>PART A : Call topics launched within the complementary framework of IADP/ITD/TA</b>				
<b>IADP Large Passenger Aircraft</b>				
<a href="#">JTI-CS2-2020-CfP11- LPA-01-88 Development of New digital Microphone-MEMSSensors for wind tunnels with open/closed test sections and flight tests</a>	IA	1,4M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CfP11- LPA-01-89 Advanced characterization of friction and surface damage for gears running in loss of lubrication conditions</a>	RIA	1,1M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CfP11- LPA-01-90 Automated thermography for inspection of welded safety critical engine components</a>	IA	0,7M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CfP11- LPA-01-91 Development and validation of a method to predict non-linear aerodynamic characteristics of lifting surfaces with controls</a>	RIA	0,75M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CfP11- LPA-01-92 Optimization of APU Exhaust Muffler Thermal Barrier and Air Intakes construction Technologies</a>	IA	0,9M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CfP11- LPA-01-93 Engine bleed jet pumps continuous behaviour modelization</a>	RIA	0,7M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CfP11- LPA-01-94 Installed UHBR Nacelle Off-Design Performance Characteristics</a>	RIA	3M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CfP11- LPA-01-95 Passive Actuated Inlet for UHBR engine ventilation</a>	IA	0,8M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CfP11- LPA-01-96 Analytical and experimental characterization of aerodynamic and aeroacoustic effects of closely operating propellers for distributed propulsion wing solutions.</a>	RIA	2,5M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CfP11- LPA-01-97 Insulation Monitoring for IT Grounded (Isolation Terra) Aerospace Electrical Systems</a>	IA	0,7M€	28-janv-20	12-mai-20

<a href="#">JTI-CS2-2020-CfP11- LPA-02-33 Tooling, Equipment and Auxiliaries for the closure of a longitudinal Barrel Joint: Butt strap integration and Lightning Strike Protection continuity</a>	IA	1,6M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CfP11- LPA-02-34 Tooling, Equipment and Auxiliaries for the closure of a longitudinal Barrel Joint: Overlap joint and Frame Coupling integration</a>	IA	1,4M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CfP11- LPA-02-35 Innovative disbond arrest features for long thermoplastic welded joints</a>	IA	0,75M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CfP11- LPA-02-36 Large scale aircraft composite structures recycling [ECO]</a>	IA	1,8M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CfP11- LPA-02-37 Thermoplastic fuselage repair process integrated on manufacturing line</a>	IA	0,8M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CFP11- LPA-03-19 Concept for Pilot State Monitoring system operation in commercial aviation</a>	IA	0,8M€	28-janv-20	12-mai-20
<b>IADP Regional Aircraft</b>				
<a href="#">JTI-CS2-2020-CFP11-REG-01-20 - Aerodynamics experimental characterization and new experimental testing methodologies for distributed electrical propulsion</a>	RIA	0,8M€	28-janv-20	12-mai-20
<b>ITD Airframe</b>				
<a href="#">JTI-CS2-2020-CFP11-AIR-01-46 - Evaluation of NDT Techniques for Assessment of Critical Process and Manufacturing Related Flaws and Defects for a Ti-alloy</a>	RIA	0,55M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CFP11- AIR-01-47 Additive Manufacturing demonstration on test article for a trailing edge application with a sliding pad concept</a>	IA	0,5M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CFP11- AIR-03-10 Innovative light metallic and thermoplastic airframe section full scale testing</a>	IA	1,3M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CFP11- AIR-03-11 Development and execution of new test methods for thermoset panel manufactured in an automated tape layup of dry unidirectional fibres (UD) or non-crimped fabrics (NCF) and subsequent infusion</a>	IA	0,5M€	28-janv-20	12-mai-20
<b>ITD Systems</b>				
<a href="#">JTI-CS2-2020-CFP11- SYS-02-62 Thermoplastic wheel for electrical Environmental Control System</a>	IA	0,75M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CFP11- SYS-02-63 Decentralised HVDC power conversion module for innovative optimised aircraft electrical network distribution</a>	IA	0,75M€	28-janv-20	12-mai-20

<a href="#">JTI-CS2-2020-CFP11- SYS-02-64 - Human Safe HVDC Interconnection components</a>	IA	0,8M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CFP11- SYS-03-25 Investigation and modelling of hydrogen effusion in electrochemically plated ultra-high-strengthsteels used for landing gear structures</a>	RIA	1M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CFP11- SYS-03-26 Replacement of cobalt in Environmental Control System bleed valves</a>	IA	0,75M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-Cfp11- SYS-01-22 Oxygen Absorbing Metal-Air-Batteries for Long Term Cargo Compartment Inertisation</a>	RIA	0,8M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-Cfp11- SYS-01-23 Development of a multi-position valve with associated actuator for cargo fire protection</a>	IA	0,5M€	28-janv-20	12-mai-20
<b>Technology Evaluator</b>				
<a href="#">JTI-CS2-2020-Cfp11- TE2-01-12 Airport level assessments for fixed wing aircraft</a>	RIA	0,5M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-Cfp11- TE2-01-13 Airport and ATS Level Assessment for Rotorcraft</a>	RIA	0,5M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-Cfp11- TE2-01-14 Reduction of the environmental impact of aviation via optimisation of aircraft size/range and flight network</a>	RIA	0,5M€	28-janv-20	12-mai-20
<b>PART B : THEMATIC TOPICS</b>				
<a href="#">JTI-CS2-2020-CFP11-THT-11 High power density/multifunctional electrical energy storage solutions for aeronautic applications</a>	RIA	1,2 M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CFP11-THT-12 Advanced High Power Electrical Systems for High Altitude Operation</a>	RIA	1 M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CFP11-THT-13 Sustainability of Hybrid-Electric Aircraft System Architectures</a>	RIA	1,6 M€	28-janv-20	12-mai-20
<a href="#">JTI-CS2-2020-CFP11-THT-14 Scalability and limitations of Hybrid Electric concepts up to large commercial aircraft</a>	RIA	0,8 M€	28-janv-20	12-mai-20



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**BBI - Bio-based industries**

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