

# BOLLETTINO

## Bandi e Iniziative su Fondi di Ricerca 2019

	CALL FOR PROPOSAL	EU PROGRAMME	DEADLINE	FOCUS
INQUINAMENTO	<p><b><u>Research on reduction of CO2 emissions in steel production</u></b>            Identify and accelerate the deployment of breakthrough technology routes for <b>almost zero CO2 steel production</b> commercial demonstration by 2030 in Europe. The pilot project, primarily addresses the steel sector, should not limit its scope to this sector or to other energy intensive industries only. It should also identify technology spill overs from non-related sectors.</p> <p>ID: EP-PP-CLEAN-STEEL-2019</p>	<b><u>Research Fund for Coal &amp; Steel</u></b>	09/07/2019	<input type="checkbox"/>
INNOVAZIONE NELLE PMI	<p><b><u>European Open Innovation network in advanced technologies</u></b>            Open innovation is a paradigm that assumes that companies can benefit from external ideas/technologies (Outside-In) and valorise internal ideas/ technologies with external partners (Inside-Out) to reduce the financial risks associated to innovation, and quickly get a competitive advantage.</p> <p>ID: H2020-INNOSUP-07-2019</p>	<b><u>Innovation in small and medium-sized enterprises – H2020</u></b>	01/08/2019	<input type="checkbox"/>
PREMIO ECO-VEICOLI	<p><b><u>CLEANEST ENGINE OF THE FUTURE</u></b>            Cleanest engine of the future prize aims at <b>reducing the pollution</b> produced by future new vehicles using either gasoline or diesel fuels and their low biofuel blends available on the market. It is an Inducement Prize (IPr) Action.</p> <p>ID: H2020-FutureEnginePrize-2016</p>	<b><u>HORIZON Prize</u></b> - H2020	20/08/2019	<input type="checkbox"/>

A number of calls for proposals with **focus area** on **BOOSTING THE EFFECTIVENESS OF THE SECURITY UNION (SU)**, a Challenge under the pillar “Societal Challenges” of Horizon 2020.

These Calls dealing with R&D and innovation towards establishing disaster-resilient societies, fighting against crime and terrorism, and improving border and external security.

**1. Human factors, and social, societal, and organisational aspects of border and external security**

ID: H2020-SU-BES01-2018-2019-2020

**2. Technologies to enhance border and external security**

ID: H2020-SU-BES02-2018-2019-2020

**3. Demonstration of applied solutions to enhance border and external security**

ID: H2020-SU-BES03-2018-2019-2020

**4. Human factors, and social, societal, and organisational aspects for disaster-resilient societies**

ID: H2020-SU-DRS01-2018-2019-2020

**5. Technologies for first responders**

ID: H2020-SU-DRS02-2018-2019-2020

**6. Pre-normative research and demonstration for disaster-resilient societies**

ID: H2020-SU-DRS03-2018-2019-2020

**7. Chemical, biological, radiological and nuclear (CBRN) cluster**

ID: H2020-SU-DRS04-2019-2020

**Secure societies – Protecting freedom and security of Europe and its citizens - H2020**

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8. **Demonstration of novel concepts for the management of pandemic crises**  
ID: H2020-SU-DRS05-2019
9. **Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises**  
ID: H2020-SU-DS03-2019-2020
10. **Digital security, privacy, data protection and accountability in critical sectors**  
ID: H2020-SU-DS05-2018-2019
11. **Human factors, and social, societal, and organisational aspects to solve issues in fighting against crime and terrorism**  
ID: H2020-SU-FCT01-2018-2019-2020
12. **Technologies to enhance the fight against crime and terrorism**  
ID: H2020-SU-FCT02-2018-2019-2020
13. **Information and data stream management to fight against (cyber)crime and terrorism**  
ID: H2020-SU-FCT03-2018-2019-2020
14. **Pan-European networks of practitioners and other actors in the field of security**  
ID: H2020-SU-GM01-2018-2019-2020
15. **Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe**  
ID: H2020-SU-INFRA01-2018-2019-2020
16. **Security for smart and safe cities, including for public spaces**  
ID: H2020-SU-INFRA02-2019

**Secure societies – Protecting freedom and security of Europe and its citizens - H2020**

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A number of calls for proposals with **focus area** on **BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE (LC)**, the Energy Challenge under the pillar "Societal Challenges" of Horizon 2020

These calls underpin the goals of the Paris Agreement and the "Clean Energy for all European" package, including the Communication "Accelerating Clean Energy Innovation" (COM (2016) 736) and the SET-Plan priorities, with concrete R&I actions focussing on the accelerated transformation of the energy system, and other sectors, towards carbon neutrality and climate resilience.

Activities also fully contribute to the Sustainable Development Goals and the Horizon 2020 spending targets on Sustainable Development and climate action.

1. **Social Sciences and Humanities (SSH) aspects of the Clean-Energy Transition**

ID: H2020-LC-SC3-CC-1-2018-2019-2020

2. **Support for the opening of low-carbon energy research databases in Europe**

ID: H2020-LC-SC3-CC-3-2019

3. **ERA-NET Co-Fund Enhanced cooperation in Digitalisation of Energy Systems and Networks**

ID: H2020-LC-SC3-ES-9-2019

4. **Support to the realisation of the Implementation Plans of the SET Plan**

ID: H2020-LC-SC3-JA-2-2018-2019

5. **European Pre-Commercial Procurement Programme for Wave Energy Research & Development**

ID: H2020-LC-SC3-JA-3-2019

**Secure, Clean and Efficient Energy - H2020**

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<p style="text-align: center;"><b>ENERGIA PULITA</b></p>	<p>6. <b><u>Integrated solutions for flexible operation of fossil fuel power plants through power-to-X-to-power and/or energy storage</u></b> ID: H2020-LC-SC3-NZE-4-2019</p> <p>7. <b><u>Low carbon industrial production using CCUS</u></b> ID: H2020-LC-SC3-NZE-5-2019-2020</p> <p>8. <b><u>Development of solutions based on renewable sources that provide flexibility to the energy system</u></b> ID: H2020-LC-SC3-RES-16-2019</p> <p>9. <b><u>Development of next generation biofuel and alternative renewable fuel technologies for aviation and shipping</u></b> ID: H2020-LC-SC3-RES-23-2019</p> <p>10. <b><u>Converting Sunlight to storable chemical energy</u></b> ID: H2020-LC-SC3-RES-29-2019</p> <p>11. <b><u>Solar Energy in Industrial Processes</u></b> ID: H2020-LC-SC3-RES-7-2019</p>	<p><b><u>Secure, Clean and Efficient Energy - H2020</u></b></p>	<p>27/08/2019</p>	<p><input type="checkbox"/></p>
<p style="text-align: center;"><b>RICERCA INNOVATIVA MULTIDISCIPLINARE</b></p>	<p><b><u>ERC Advanced Grant</u></b> The European Research Council (ERC) <b>supports frontier research, cross disciplinary proposals and pioneering ideas</b> in new and emerging fields which introduce unconventional and innovative approaches. The Advanced Grant for senior research leaders with significant research achievements in the last 10 years. ERC is under the pillar “Excellent Science” of Horizon 2020.  ID: H2020-ERC-2019-ADG</p>	<p><b><u>European Research Council - ERC – H2020</u></b></p>	<p>29/08/2019</p>	<p><input type="checkbox"/></p>

The **Single European Sky Air Traffic Management Research** Joint Undertaking (SESAR JU), created under Article 171 of the Treaty establishing the European Community , has the mission to develop a modernised air traffic management (ATM) system for Europe.

The SESAR JU is launching a number of calls related to the Exploratory Research within the SESAR 2020 programme (ER4) funded by Horizon 2020:

1. **Digitalisation and Automation principles for ATM**  
ID: H2020-SESAR-ER4-01-2019
2. **Cognitive Support**  
ID: H2020-SESAR-ER4-02-2019
3. **Complexity and Data Science for ATM Performance**  
ID: H2020-SESAR-ER4-03-2019
4. **Digital Information Management**  
ID: H2020-SESAR-ER4-04-2019
5. **Environment and Meteorology for ATM**  
ID: H2020-SESAR-ER4-05-2019
6. **Safety and Resilience**  
ID: H2020-SESAR-ER4-06-2019
7. **Accelerating Change in ATM**  
ID: H2020-SESAR-ER4-07-2019
8. **Behavioural Economics in ATM**  
ID: H2020-SESAR-ER4-08-2019
9. **Legal and Regulatory Challenges of Higher Levels of Automation**  
ID: H2020-SESAR-ER4-09-2019

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**10. ATM Role in Intermodal Transport**

ID: H2020-SESAR-ER4-10-2019

**11. CNS for ATM**

ID: H2020-SESAR-ER4-11-2019

**12. Automation of Airport Operations**

ID: H2020-SESAR-ER4-12-2019

**13. Innovation in Airport Operation**

ID: H2020-SESAR-ER4-13-2019

**14. Meteorology at Airports**

ID: H2020-SESAR-ER4-14-2019

**15. Increased Levels of Automation for the ATM Network**

ID: H2020-SESAR-ER4-15-2019

**16. Innovation in Network Management**

ID: H2020-SESAR-ER4-16-2019

**17. Network Capacity Increase from Fully Dynamic Airspace**

ID: H2020-SESAR-ER4-17-2019

**18. Automation and CWP**

ID: H2020-SESAR-ER4-18-2019

**19. Enabling Performance by Innovation in Air Traffic Services**

ID: H2020-SESAR-ER4-19-2019

**20. ADSB-in applications**

ID: H2020-SESAR-ER4-20-2019

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21. Long-term Evolution of Air/Ground Synchronisation

ID: H2020-SESAR-ER4-21-2019

22. Digital Evolution of Separation Minima in En-route and TMA

ID: H2020-SESAR-ER4-22-2019

23. Increased Capacity for High Density operations by Evolution of Controller/Pilot communication

ID: H2020-SESAR-ER4-23-2019

24. Innovation in CNS to enable Digitalised Operations

ID: H2020-SESAR-ER4-24-2019

25. Measuring and Managing ATM Performance

ID: H2020-SESAR-ER4-25-2019

26. ATM Validation for a Digitalised ATM

ID: H2020-SESAR-ER4-26-2019

27. Future ATM Architecture

ID: H2020-SESAR-ER4-27-2019

28. Control of IFR RPAS in the TMA

ID: H2020-SESAR-ER4-28-2019

29. Remain Well Clear for IFR RPAS Integration in Class D-G Airspace

ID: H2020-SESAR-ER4-29-2019

30. RPAS for Manned Flight Contingency Management

ID: H2020-SESAR-ER4-30-2019

31. U-space

ID: H2020-SESAR-ER4-31-2019

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PREMIO TECNOLOGIA BLOCKCHAIN	<p><b><u>EIC HORIZON PRIZE FOR 'BLOCKCHAINS FOR SOCIAL GOOD'</u></b></p> <p>The challenge is to develop scalable, efficient and high-impact decentralized solutions to social innovation challenges leveraging Distributed Ledger Technology (DLTs), such as the one used in blockchains.</p> <p>ID: H2020-Blockchain-EICPrize-2019</p>	<p><b><u>Enhanced European Innovation Council (EIC) pilot Programme - H2020</u></b></p>	<p>03/09/2019</p>	<input type="checkbox"/>
NANOTECNOLOGIE	<p><b><u>Sustainable Nano-Fabrication (CSA)</u></b></p> <p>The purpose of this call is to lay the <b>FOUNDATIONS FOR TOMORROW'S INDUSTRY</b> in Europe: Nanotechnology research has led to a remarkable development of nanoscale materials in bulk form with unique properties. Several of these materials are in the market or are expected to enter the market in the near future. Nanotechnologies represent key industrial competences determining Europe's <b>Leadership in Enabling and Industrial Technologies</b> (LEIT) one of the objective of the "Industrial Leadership" pillar in Horizon 2020.</p> <p>ID: H2020-DT-NMBP-12-2019</p>	<p><b><u>Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology - H2020</u></b></p>	<p>03/09/2019</p>	<input type="checkbox"/>
TECNOLOGIE EMERGENTI	<p><b><u>FET Proactive: emerging paradigms and communities</u></b></p> <p>To explore and consolidate a <b>new technological direction</b> as a viable <b>paradigm for future technology</b>. To foster the interdisciplinary communities that are able to drive this forward, extending from the participating consortia to a wider European pool of expertise.</p> <p>ID: H2020-FETPROACT-EIC-05-2019</p>	<p><b><u>Future and Emerging Technologies – H2020</u></b></p>	<p>03/09/2019</p>	<input type="checkbox"/>
INNOVAZIONI RIVOLUZIONARIE	<p><b><u>EIC Transition to Innovation Activities</u></b></p> <p>To turn promising results from FET-funded projects into <b>genuine technological or societal breakthrough and disruptive innovations</b>. Since the typical researchers' mindset is to identify further opportunities for research, promising research results that could be the basis for breakthrough and disruptive innovation risk to remain unexploited.</p> <p>ID: H2020-FETPROACT-EIC-06-2019</p>	<p><b><u>Future and Emerging Technologies – H2020</u></b></p>	<p>03/09/2019</p>	<input type="checkbox"/>

Many calls under Clean Sky, the largest European research programme developing innovative, cutting-edge technology aimed at reducing CO<sub>2</sub>, gas emissions and noise levels produced by aircraft. Funded by the EU's Horizon 2020 programme, Clean Sky contributes to strengthening European aero-industry collaboration, global leadership and competitiveness.

1. **Low speed handling quality and innovative engine integration of a new configuration aircraft**

ID: H2020-JTI-CS2-2019-CFP10-AIR-01-41

2. **Development of a methodology (test, measurement, analysis) to characterize the behaviour of composite structures under dynamic loading**

ID: H2020-JTI-CS2-2019-CFP10-AIR-01-42

3. **Verification of advanced simplified HLFC concept with variable porosity**

ID: H2020-JTI-CS2-2019-CFP10-AIR-01-43

4. **Development of a methodology to optimize a wing composite panel with respect to tyre damage certification requirement**

ID: H2020-JTI-CS2-2019-CFP10-AIR-01-44

5. **Coupon and element testing and manufacturing of test article for morphing technologies**

ID: H2020-JTI-CS2-2019-CFP10-AIR-01-45

6. **Increasing the efficiency of pulsed jet actuators for flow separation control**

ID: H2020-JTI-CS2-2019-CFP10-AIR-02-77

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7. Application of graphene based materials in aeronautical structures for de-icing, lightning strike protection, fire barrier and water absorption prevention purposes  
ID: H2020-JTI-CS2-2019-CFP10-AIR-02-78
8. Development of FEM fastener parametric/adaptable sizing tool including EMC impact, and manufacturing and EMC/LSP testing of demonstrators  
ID: H2020-JTI-CS2-2019-CFP10-AIR-02-79
9. Innovative flight data measurements to support the aerodynamic analysis of a compound helicopter demonstrator  
ID: H2020-JTI-CS2-2019-CFP10-AIR-02-80
10. Active Flow control on Tilt Rotor lifting surfaces  
ID: H2020-JTI-CS2-2019-CFP10-AIR-02-81
11. Innovative approaches for interior Noise Control for Next Generation Civil Tilt Rotor  
ID: H2020-JTI-CS2-2019-CFP10-AIR-02-82
12. Innovative weight measurement system for Tilt Rotor application  
ID: H2020-JTI-CS2-2019-CFP10-AIR-02-83
13. Modular platform development for Tilt Rotor final assembly  
ID: H2020-JTI-CS2-2019-CFP10-AIR-02-84
14. Development of a multifunctional system for complex aerostructures assembly, assisted by neural network softwares  
ID: H2020-JTI-CS2-2019-CFP10-AIR-02-85

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**15. Development of equipment for composite recycling process of uncured material**

ID: H2020-JTI-CS2-2019-CFP10-AIR-02-86

**16. End of Life (EoL) for biomaterials**

ID: H2020-JTI-CS2-2019-CFP10-AIR-03-07

**17. Disassembly and recycling of innovative structures made of different Al-Li alloys**

ID: H2020-JTI-CS2-2019-CFP10-AIR-03-08

**18. Scrapping of carbon reinforced thermoplastic materials**

ID: H2020-JTI-CS2-2019- CFP10-AIR-03-09

**19. Innovative kinematic analysis to incorporate multiple functions within a movable surface**

ID: H2020-JTI-CS2-2019-CFP10-FRC-01-28

**20. Smart Active Inceptors System development for Tilt Rotor application**

ID: H2020-JTI-CS2-2019-CFP10-FRC-01-29

**21. Multipurpose bench for Tiltrotor equipment functional test**

ID: H2020-JTI-CS2-2019-CFP10-FRC-01-30

**22. Theoretical and experimental evaluations of strain field modification induced by flaws in loaded composite structures**

ID: H2020-JTI-CS2-2019-CFP10-REG-01-18

**23. Innovative Noise Generation System for testing of Regional Cabin Interior Noise reduction**

ID: H2020-JTI-CS2-2019-CFP10-REG-01-19

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**24. SHMS and Dynamic fields sensors development**

ID: H2020-JTI-CS2-2019-CFP10-REG-02-06

**25. Ultra-High Aspect ratio wings**

ID: H2020-JTI-CS2-2019-CFP10-THT-07

**26. Experimental and numerical noise assessment of distributed propulsion configurations**

ID: H2020-JTI-CS2-2019-CFP10-THT-08

**27. Disruptive Active Flow Control for aircraft engine applications**

ID: H2020-JTI-CS2-2019-CFP10-THT-09

**28. Non-intrusive, seedless measurement system: design, development, and testing**

ID: H2020-JTI-CS2-2019-CFP10-THT-10

**29. Low NOx / Low soot injection system design for spinning combustion technology**

ID: H2020-JTI-CS2-2019-CfP10-ENG-01-43

**30. Revalorisation of Recycled Carbon Fibers and CFRP preparation through Eco design [ECO]**

ID: H2020-JTI-CS2-2019-CfP10-ENG-04-08

**31. Development of a distributed CFD platform for collaborative design**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-72

**32. Innovative Thrust Reverser Actuator System (ITRAS)**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-73

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**33. UHBR Engine Studies for Aircraft Operations and Economics**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-74

**34. Advanced solutions for 2030+ UHBR Core Noise reduction**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-75

**35. Supporting implementation of 2030+ UHBR low noise fan technology solutions through enhanced modeling capabilities**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-76

**36. Advanced Pitch Control Mechanism TRL4 Demonstration**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-77

**37. Innovative turbine cavity swirl control systems through Additive Manufacturing**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-78

**38. Development of multidisciplinary design tools for rapid concept design for aero engine components**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-79

**39. Rear fuselage and empennage shape optimization including anti-icing technologies**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-80

**40. Fiber reinforced thermoplastics manufacturing for stiffened, complex, double curved structures**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-81

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**41. Development of Thermoplastic press forming Tool for Advanced Rear End Closing Frame Prototype and Tooling 4.0 for Assembly and transportation of the Advanced Rear End Prototype**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-82

**42. Development and simulation of a forming process for LE HLFC wing outer skins**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-83

**43. Development of a manufacturing process and a manufacturing unit for production of a laser treated titanium panel with a 3D printed substructure**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-84

**44. Design and manufacturing of multi-functional Ice Protection System power feed/monitoring lines and Shielding/High-lift electrical actuation system for a HLFC Wing demonstrator**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-85

**45. Develop and test Power Efficient Actuation Concepts for Separation Flow Control at large aerodynamic areas requiring very low actuation energy**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-86

**46. Loop Heat Pipe development for severe environment**

ID: H2020-JTI-CS2-2019-CfP10-LPA-01-87

**47. Development of innovative welding systems for structural joints of Thermoplastic matrix based Composites**

ID: H2020-JTI-CS2-2019-CfP10-LPA-02-30

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**48. Development of short fibre reinforced thermoplastic airframe clips and brackets using factory waste**

ID: H2020-JTI-CS2-2019-CfP10-LPA-02-31

**49. Innovative miniaturized sensing device for large wave length spectrum reception capability as a tool for quality control and aircraft maintenance**

ID: H2020-JTI-CS2-2019-CfP10-LPA-02-32

**50. Enhanced digital georeferenced data models for cockpit use**

ID: H2020-JTI-CS2-2019-CfP10-SYS-01-15

**51. Innovative processing for flight practices improvement**

ID: H2020-JTI-CS2-2019-CfP10-SYS-01-16

**52. New Efficient production methods for 94 GHz (W-band) waveguide antennas**

ID: H2020-JTI-CS2-2019-CfP10-SYS-01-17

**53. Low-profile/drag electronically steerable antennas for In-Flight Connectivity**

ID: H2020-JTI-CS2-2019-CfP10-SYS-01-18

**54. VOC filtration device for Inerting System**

ID: H2020-JTI-CS2-2019-CfP10-SYS-01-19

**55. Innovative high flow rate constant pressure valve for inert gas discharge from pressurized vessels**

ID: H2020-JTI-CS2-2019-CfP10-SYS-01-20

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**56. Grey Water Container with Reduced Biofilm Growth**

ID: H2020-JTI-CS2-2019-CfP10-SYS-01-21

**57. Automatic Haptic System Test Bench for Active Inceptors**

ID: H2020-JTI-CS2-2019-CfP10-SYS-02-58

**58. Automatic Haptic System Test Bench for Active Inceptors**

ID: H2020-JTI-CS2-2019-CfP10-SYS-02-58

**59. Toward a Digital Twin ECS and thermal management architecture models : Improvement of MODELICA libraries and usage of Deep Learning technics**

ID: H2020-JTI-CS2-2019-CfP10-SYS-02-60

**60. Vapor Cycle System - Heat Exchanger performance 3D modeling with different new low GWP refrigerants**

ID: H2020-JTI-CS2-2019-CfP10-SYS-02-61

**61. Electro-Mechanical Landing Gear system integration for Small Aircraft [SAT]**

ID: H2020-JTI-CS2-2019-CfP10-SYS-03-23

**62. Power Semiconductor Device module using Silicon Carbide devices for a relatively high-frequency, circa 100kW aircraft motor drive applications**

ID: H2020-JTI-CS2-2019-CfP10-SYS-03-24

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These calls underpin the goals of the Paris Agreement and the "Clean Energy for all European" package, including the Communication "Accelerating Clean Energy Innovation" (COM (2016) 736) and the SET-Plan priorities, with concrete R&I actions focussing on the accelerated transformation of the energy system, and other sectors, towards carbon neutrality and climate resilience.

Activities also fully contribute to the Sustainable Development Goals and the Horizon 2020 spending targets on Sustainable Development and climate action.

1. **The role of consumers in changing the market through informed decision and collective actions**

ID: H2020-LC-SC3-EC-1-2018-2019-2020

2. **Mitigating household energy poverty**

ID: H2020-LC-SC3-EC-2-2018-2019-2020

3. **Decarbonisation of the EU building stock: innovative approaches and affordable solutions changing the market for buildings renovation**

ID: H2020-LC-SC3-EE-1-2018-2019-2020

4. **Mainstreaming energy efficiency finance**

ID: H2020-LC-SC3-EE-10-2018-2019-2020

5. **Aggregation - Project Development Assistance**

ID: H2020-LC-SC3-EE-11-2018-2019-2020

6. **Enabling next-generation of smart energy services valorising energy efficiency and flexibility at demand-side as energy resource**

ID: H2020-LC-SC3-EE-13-2018-2019-2020

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7. Socio-economic research conceptualising and modelling energy efficiency and energy demand

ID: H2020-LC-SC3-EE-14-2018-2019-2020

8. Supporting public authorities to implement the Energy Union

ID: H2020-LC-SC3-EE-16-2018-2019-2020

9. Bioclimatic approaches for improving energy performance in buildings in Africa and Europe

ID: H2020-LC-SC3-EE-18-2019

10. Integrated home renovation services

ID: H2020-LC-SC3-EE-2-2018-2019

11. Stimulating demand for sustainable energy skills in the construction sector

ID: H2020-LC-SC3-EE-3-2019-2020

12. Upgrading smartness of existing buildings through innovations for legacy equipment

ID: H2020-LC-SC3-EE-4-2019-2020

13. Next-generation of Energy Performance Assessment and Certification

ID: H2020-LC-SC3-EE-5-2018-2019-2020

14. Business case for industrial waste heat/cold recovery

ID: H2020-LC-SC3-EE-6-2018-2019-2020

15. Capacity building programmes to support implementation of energy audits

ID: H2020-LC-SC3-EE-8-2018-2019

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	<p><b>16. Innovative financing for energy efficiency investments</b> ID: H2020-LC-SC3-EE-9-2018-2019</p>	<p><b>Secure, Clean and Efficient Energy – H2020</b></p>	<p>04/09/2019</p>	<input type="checkbox"/>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">NANOTECHNOLOGIE</p>	<p><b>In support of documentary standards (CSA)</b> The purpose of this call is to lay the <b>FOUNDATIONS FOR TOMORROW'S INDUSTRY</b> in Europe, and to create jobs and growth through an innovation ecosystem for the design, development, testing, and upscaling of advanced materials and nanotechnologies. These are key industrial competences aiming at determining Europe's <b>Leadership in Enabling and Industrial Technologies (LEIT)</b> one of the objective of the "Industrial Leadership" pillar in Horizon 2020.  ID: H2020-NMBP-34-2019</p>	<p><b>Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology – H2020</b></p>	<p>04/09/2019</p>	<input type="checkbox"/>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">INDUSTRIA VERDE</p>	<p>Many calls launched by the <b>Bio-Based Industries Joint Undertaking (BBI JU)</b>, a Public-Private Partnership between the EU and the Bio-based Industries Consortium. Operating under Horizon 2020, this EU body is driven by the Vision and Strategic Innovation and Research Agenda (SIRA) developed by the industry.</p> <ol style="list-style-type: none"> <li>1. <b><u>Scale up conversion of lignin into valuable compounds for application in specific market sectors</u></b> ID: H2020-BBI-2019-SO1-D1</li> <li>2. <b><u>Produce components for various materials, including for food and feed, from microalgae</u></b> ID: H2020-BBI-2019-SO1-D2</li> <li>3. <b><u>Valorise the organic fraction of municipal solid waste through an integrated biorefinery at commercial level</u></b> ID: H2020-BBI-2019-SO1-F1</li> <li>4. <b><u>Use tree species and/or varieties to create new bio-based value chains</u></b> ID: H2020-BBI-2019-SO1-R1</li> </ol>	<p><b>BBI JU - H2020</b></p>	<p>04/09/2019</p>	<input type="checkbox"/>

5. **Apply technological combinations to valorise all components of biomass feedstock**  
ID: H2020-BBI-2019-SO2-F2
6. **Develop breakthrough technologies to improve the cost-effectiveness and sustainability of pre-treatment steps within biorefining operations**  
ID: H2020-BBI-2019-SO2-R2
7. **Apply microorganisms and/or enzymes to resolve end-of-life issues of plastics**  
ID: H2020-BBI-2019-SO2-R3
8. **Develop surface or bulk treatments for improved wood-based materials**  
ID: H2020-BBI-2019-SO2-R4
9. **Convert plant oils and fats into safe high-added-value products for various applications including food and personal care**  
ID: H2020-BBI-2019-SO2-R5
10. **Improve biorefinery operations through process intensification and new end products**  
ID: H2020-BBI-2019-SO2-R6
11. **Model the composition of bio-based residual streams and its evolution to optimise its management and processing**  
ID: H2020-BBI-2019-SO2-R7
12. **Produce bio-based functional ingredients and additives for high-end markets**  
ID: H2020-BBI-2019-SO3-D3

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13. Demonstrate bio-based pesticides and/or biostimulant agents for sustainable increase in agricultural productivity  
ID: H2020-BBI-2019-SO3-D4
14. Produce high-performance bio-based alternatives to harmful products or processes to protect and enhance human health and the environment  
ID: H2020-BBI-2019-SO3-F3
15. Develop bio-based high-performance materials for various and demanding applications  
ID: H2020-BBI-2019-SO3-R10
16. Develop sustainable bio-based materials for high-volume consumer products  
ID: H2020-BBI-2019-SO3-R8
17. Develop bio-based fibres and/or functional molecules to improve the performance of textile products  
ID: H2020-BBI-2019-SO3-R9
18. Assist brand owners to 'switch to bio-based'  
ID: H2020-BBI-2019-SO4-S1
19. Establish methods & communication for applying mass balance principles to attribute biomass co-feedstock to products  
ID: H2020-BBI-2019-SO4-S2
20. Shaping bio-based economy through a participatory approach  
ID: H2020-BBI-2019-SO4-S3
21. Empower SME clusters to bring SMEs across the valley of death  
ID: H2020-BBI-2019-SO4-S4

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<p style="text-align: center;">SOLUZIONI ECOLOGICHE</p>	<p><b><u>Multi-stakeholder dialogue platform to promote nature-based solutions to societal challenges: follow-up project</u></b></p> <p>This call focuses on moving to a greener, more resource efficient and climate-resilient economy in sync with the natural environment, demonstrating a strong commitment to supporting the UN's Sustainable Development Goals (SDGs). It is under the “Societal Challenges” pillar of Horizon 2020.</p> <p>ID: H2020-SC5-23-2019</p>	<p><b><u>Climate Action, Environment, Resource Efficiency and Raw Materials</u></b> – H2020</p>	<p>04/09/2019</p>	<p style="text-align: center;"><input type="checkbox"/></p>
<p style="text-align: center;">AMBIENTE E CLIMA</p>	<p>Integrated and Traditional Projects to be submitted under the ENVIRONMENT and the CLIMATE ACTION sub-programmes of the LIFE Programme respectively for the topics:</p> <p>ENVIRONMENT <b><u>Integrated projects under the sub-programme for environment</u></b></p> <p>CLIMATE ACTION <b><u>Climate change mitigation traditional projects</u></b> <b><u>Climate change adaptation traditional projects</u></b></p> <p>ID: LIFE-2019</p>	<p><b><u>LIFE</u></b></p>	<p>ENVIRONMENT 05/09/2019</p> <p>CLIMATE 12/09/2019</p>	<p style="text-align: center;"><input type="checkbox"/></p>
<p style="text-align: center;">SALUTE PUBBLICA</p>	<p>The European Union's Health Programmes fund projects to <b>improve public health</b>, to prevent illness, and to eliminate threats to physical and mental health in European countries.</p> <p><b><u>Rare disease registries for the European Reference Networks</u></b> ID: PJ-01-2019</p> <p><b><u>Stakeholder actions to implement the EU guidelines on prudent use of antimicrobials in human health</u></b> ID: PJ-02-2019</p>	<p><b><u>3rd Health Programme</u></b></p>	<p>10/09/2019</p>	<p style="text-align: center;"><input type="checkbox"/></p>

<b>RAFFORZARE LE COMPETENZE DEI RICERCATORI</b>	<p>The Marie Skłodowska-Curie actions (MSCA) contribute to boosting jobs, growth and investment by <b>equipping researchers</b> with the knowledge, skills and international and inter-sectorial exposure to solve current and future societal challenges. MSCA is under the Horizon 2020 “Excellent Science” pillar.</p> <p>In particular the goal of the <b>Individual Fellowships</b> is to enhance the creative and innovative potential of experienced researchers, through advanced training, international and intersectoral mobility.</p> <p><b>Widening Fellowships</b> will provide an additional opportunity to researchers of any nationality to acquire and transfer knowledge and to work on research and innovation in Widening countries. It scopes is <b>Spreading Excellence and Widening Participation</b></p> <p><u><b>Individual Fellowships</b></u> ID: H2020-MSCA-IF-2019</p> <p><u><b>Widening Fellowships</b></u> ID: H2020-WF-02-2019</p>	<p><u><b>Marie Skłodowska-Curie actions – H2020</b></u></p>	<p>11/09/2019</p>	<input type="checkbox"/>
<b>RICERCA INNOVATIVA MULTIDISCIPLINARE</b>	<p><u><b>ERC Proof of Concept Grant</b></u></p> <p>The European Research Council (ERC) <b>supports frontier research, cross disciplinary proposals and pioneering ideas</b> in new and emerging fields which introduce unconventional and innovative approaches. The Proof of Concept Grants are for ERC grant holders who want to check the market and/or innovation potential of research results from ERC-projects. ERC is under the pillar “Excellent Science” of Horizon 2020</p> <p>ID: H2020-ERC-2019-PoC</p>	<p><u><b>European Research Council - ERC – H2020</b></u></p>	<p>19/09/2019</p>	<input type="checkbox"/>
<b>SICUREZZA CON IL NUCLEARE E LE RADIOAZIONI</b>	<p>The <b>Nuclear Fission and Radiation Protection Research</b> calls were developed in accordance with the Council Regulation establishing the Euratom Research and Training Programme 2019-2020.</p> <p>Call topics are organised in six sections:</p> <p>A. Nuclear safety B. Decommissioning and environmental remediation C. Radioactive waste management</p>	<p><u><b>Euratom Programme – H2020</b></u></p>	<p>25/09/2019</p>	<input type="checkbox"/>



- D. Education and training
- E. Radiation protection and medical applications
- F. Research infrastructure

1. **Ageing phenomena of components and structures and operational issues**

ID: H2020-NFRP-2019-2020-01

2. **Safety assessments for Long Term Operation (LTO) upgrades of Generation II and III reactors**

ID: H2020-NFRP-2019-2020-02

3. **Safety margins determination for design basis-exceeding external hazards**

ID: H2020-NFRP-2019-2020-03

4. **Innovation for Generation II and III reactors**

ID: H2020-NFRP-2019-2020-04

5. **Support for safety research of Small Modular Reactors**

ID: H2020-NFRP-2019-2020-05

6. **Safety Research and Innovation for advanced nuclear systems**

ID: H2020-NFRP-2019-2020-06

7. **Safety Research and Innovation for Partitioning and/or Transmutation**

ID: H2020-NFRP-2019-2020-07

8. **Towards joint European effort in area of nuclear materials**

ID: H2020-NFRP-2019-2020-08

9. **Fostering innovation in decommissioning of nuclear facilities**

ID: H2020-NFRP-2019-2020-09

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<p style="text-align: center;">SICUREZZA CON IL NUCLEARE E LE RADIAZIONI</p>	<p>10. <u>Developing pre-disposal activities identified in the scope of the European Joint Programme in Radioactive Waste Management</u> ID: H2020-NFRP-2019-2020-10</p> <p>11. <u>Advancing nuclear education</u> ID: H2020-NFRP-2019-2020-11</p> <p>12. <u>Further integrating Radiation Protection research in the EU</u> ID: H2020-NFRP-2019-2020-12</p> <p>13. <u>Research roadmap for medical applications of ionising radiation</u> ID: H2020-NFRP-2019-2020-13</p> <p>14. <u>Improving low-dose radiation risk appraisal in medicine</u> ID: H2020-NFRP-2019-2020-14</p> <p>15. <u>Optimised fuels for production of medical radioisotopes</u> ID: H2020-NFRP-2019-2020-15</p> <p>16. <u>Roadmap for use of Euratom access rights to Jules Horowitz Reactor experimental capacity</u> ID: H2020-NFRP-2019-2020-16</p> <p>17. <u>Optimised use of European research reactors</u> ID: H2020-NFRP-2019-2020-17</p>	<p style="text-align: center;"><u>Euratom Programme – H2020</u></p>	<p style="text-align: center;">25/09/2019</p>	<p style="text-align: center;"><input type="checkbox"/></p>
<p style="text-align: center;">RAFFORZARE LE COMPETENZE DEI RICERCATORI</p>	<p><u>Co-funding of regional, national and international programmes</u> The COFUND scheme aims to stimulate regional, national or international programmes to <b>foster excellence in researchers' training, mobility and career development</b>, spreading the best practices of the Marie Skłodowska-Curie actions which are under the “Excellent Science” pillar of Horizon 2020.  ID: H2020-MSCA-COFUND-2019</p>	<p style="text-align: center;"><u>Marie Skłodowska-Curie actions – H2020</u></p>	<p style="text-align: center;">26/09/2019</p>	<p style="text-align: center;"><input type="checkbox"/></p>

**Peer learning of innovation agencies**

Innovation support agencies, i.e. the regional and national agencies that design and/or implement innovation support programmes for SMEs are important intermediaries for SME innovation. Focus, design and delivery mechanism of innovation support programmes determine to a large extent the economic impact from the supported actions and the satisfaction of the beneficiaries with the support provided. Developing the ecosystem of innovation support to SMEs in Europe is an objective of the “Industrial Leadership” pillar of Horizon 2020.

ID: H2020-INNOSUP-05-2018-2020

**Innovation in SMEs – H2020**

16/10/2019

