

ECSEL JOINT UNDERTAKING



WORK PLAN 2019

V6_20190614

In accordance with the Statutes of the ECSEL JU annexed to the Council Regulation (EU) No 516/2014, and with Article 31 of the Financial Rules ECSEL GB 2016.67

The annual work plan will be made publicly available after its adoption by the Governing Board.

Decision/Date	Version	Change	Pages
GB 2018.116 13/12/2018	Initial Work plan V1	As accepted by GB	
GB 2019.118 28/01/2019	GB Amendment 1 V2	Changes in: Special Topics: scope and title Budget- Eu and national Value chain reference Caps and eligibility Description of the tender action KPI for impact	
ED 2019.255 12/02/2019	Amendment through ED decision V3	Corrections of typo: Correction of submission date of CSA to 27 March, Adjustment of wording in topic table to MASP wording. Update for: Portugal, Germany, Finland, Italy, Israel, Spain	P 14, 35, 36, 44, 45, 58 P 76, 82, 91, 92, 108, 114
ED 2019.258 05/03/2019	Amendment through ED decision V4	Update for: IT SE TR UK	P 92 to 97 124-125 129-130 131
ED 2019.263 24/04/2019	Amendment through ED decision V5	SE CZ (change of contact person and weblink) Correction numbering of topics in tables of Annex 5 and Annex 6	124 72-73 35, 44
ED 2019.268 14/06/2019	Amendment through ED decision V6	FR (national budget for Call 2019 for a total amount of 22 millions EUR)	31

Contents

.....	1
1. INTRODUCTION	9
2. MULTI-ANNUAL PROGRAMMING	10
A. Multi-annual objectives.....	10
B. Multi-annual programme.....	11
C. Work plan.....	11
D. Human and financial resource outlook	12
3. ANNUAL WORK PLAN 2019	12
A. Executive Summary	12
Operations:.....	12
Communication:.....	12
Administration and Finance:.....	13
B. Operations	14
Actions: launch and selection	14
Managing the projects/Dissemination and information on projects.....	15
Other activities	15
4. Call management rules.....	15
5. Support to Operations	16
A. Communication and events.....	16
ECSEL JU Events 2019:	20
PUBLICATIONS.....	21
B. Procurement and contracts	22
C. IT and logistics	22
D. JU Executive Team – HR matters.....	22
E. Administrative Budget and Finance	23
F. Data protection and conflicts of interest	23
6. Governance	23
7. Internal Control framework	25
A. Financial procedures	25
1. Legacy projects (ARTEMIS and ENIAC)	25
2. ECSEL projects.....	25
B. Ex-ante and ex-post controls	25
1. Legacy projects (ARTEMIS and ENIAC)	25
2. ECSEL projects.....	25

C. Audits	25
1. Legacy projects (ARTEMIS and ENIAC)	26
2. ECSEL projects.....	26
8. ANNEXES	27
Annex 1: General Annexes for the ECSEL Calls 2019-1 to 2019-3.....	27
Annex 2: ENTRUSTING FOR THE CALLS 2019.....	30
Annex 3: National Budgets for the Calls 2019-1, 2019-2 for the EU estimated expenditure for the Calls 2019-1, 2019-2, 2019-3 and the operational tender.....	31
Annex 4: Key Performance Indicators.....	33
Operational performance.....	33
Programme performance KPI	34
Impact KPI.....	34
Annex 5: Call 2019-1, IA specific details.....	35
Scope and objectives.....	35
Specific Conditions.....	37
Type of action: ECSEL Innovation Action.....	38
Admissibility and Eligibility conditions:	39
Evaluation criteria, scoring and threshold.....	40
Consortium agreement	43
Reimbursement rate for establishing the EU contribution.....	43
Estimated expenditures	43
Annex 6: Call 2019-2, RIA.....	44
Scope and objectives.....	44
Specific Conditions.....	46
Type of action: ECSEL Research and innovation action.....	47
Admissibility and Eligibility conditions:	47
Evaluation criteria, scoring and threshold.....	49
Consortium agreement	51
Reimbursement rate for establishing the EU contribution.....	52
Estimated expenditures	52
SPECIAL TOPIC 1: ARCHITECTURES, COMPONENTS, AND SYSTEMS FOR VALIDATION/SIMULATION OF CONNECTED AUTOMATED VEHICLES	53
SPECIAL TOPIC 2 EDGE COMPUTING	55
Annex 7: Call 2019-3, CSA Health.E support action	57
Scope and objectives.....	57
Specific Conditions.....	58
Admissibility and Eligibility conditions:	58
Evaluation criteria, scoring and threshold.....	58

ED 2019.268	
Consortium agreement	59
Reimbursement rate for establishing the EU contribution	59
Estimated expenditures	59
Annex 8: Public Procurements/Studies.....	60
9. COUNTRY SPECIFIC ELIGIBILITY RULES	61
Austria.....	62
National contact person for ECSEL JU programme	62
Legal requirements for the eligibility of a partner or a project	62
Eligibility of the costs and funding	63
Additional Information to be provided at submission and other conditions	64
Belgium.....	65
National contact person for ECSEL JU programme	65
Legal requirements for the eligibility of a partner or a project	65
Eligibility of the costs and funding	67
Additional Information to be provided at submission and other conditions	69
Bulgaria.....	71
National contact person for ECSEL JU programme	71
Czech Republic	72
National contact persons for the ECSEL programme	72
Legal requirements for the eligibility of a partner or a project	72
Eligibility of the costs and funding	73
Additional Information to be provided at submission and other conditions	74
Denmark.....	75
National contact person for ECSEL JU programme	75
Finland	76
National contact person for ECSEL JU programme	76
Legal requirements for the eligibility of a partner or a project	76
Eligibility of the costs and funding for ECSEL Call 2019.....	77
Additional Information to be provided at submission and other conditions	77
France.....	78
National contact person for ECSEL JU programme	78
Legal requirements for the eligibility of a partner or a project	78
Eligibility of the costs and funding	80
Additional Information to be provided at submission and other conditions	81
Germany.....	82
National contact people for the ECSEL JU programme	82
Applicable documents.....	82

Criteria and rules for the eligibility of a partner or a project	83
Eligibility of the costs and funding	84
Additional Information to be provided at submission and other conditions	85
Hungary	86
National contact person for ECSEL JU programme	86
Legal requirements for the eligibility of a partner or a project	86
Eligibility of costs and funding	87
Additional Information to be provided at submission and other conditions	88
Ireland	89
National contact person for ECSEL JU programme	89
Legal requirements for the eligibility of a partner or a project	89
Eligibility of the costs and funding	90
Additional Information to be provided at submission and other conditions	90
Israel.....	91
National contact person for ECSEL JU programme – Calls 2019.....	91
Legal requirements for the eligibility of a partner or a project	91
Cost Eligibility and funding rates	91
Italy	92
Ministry of Education, University and Research (MIUR) & National Funds (FIRST)	92
National contact person for ECSEL JU programme	92
Legal requirements for the eligibility of a partner or a project	92
Budget available and calls supported.....	94
CostEligibility and funding rates	94
Additional Information to be providedto MIUR and other conditions	95
Ministry of Economic Development (MISE).....	96
National contact person for ECSEL JU programme	96
Legal requirements for the eligibility of a partner or a project	96
Budget available and calls supported.....	97
Eligibility of the costs and funding	97
Additional Information to be providedto MISE and other conditions	97
Latvia	98
National contact person for ECSEL JU program	98
Legal requirements for the eligibility of a partner or a project	98
Eligibility of the costs and funding	99
Additional Information to be provided at submission and other conditions	99
Financing from Structural funds	100
Malta	101

National contact persons for ECSEL JU programme:	101
Netherlands	102
National contact person for ECSEL JU programme	102
Legal requirements for the eligibility of a partner or a project	102
Eligibility of the costs and funding	103
Additional Information to be provided at submission and other conditions	104
Norway.....	105
National contact person for ECSEL JU programme	105
Legal requirements for the eligibility of a partner or a project	105
Eligibility of the costs and funding	106
Additional Information to be provided at submission and other conditions	106
Poland	107
National contact person for ECSEL JU programme	107
Legal requirements for the eligibility of a partner or a project	107
Eligibility of the costs and funding	107
Additional Information to be provided at submission and other conditions	108
Portugal.....	109
National contact person for ECSEL JU programme	109
Legal requirements for the eligibility of a partner or a project	109
Eligibility of the costs and funding	109
Additional Information to be provided at submission and other conditions	110
Romania	111
Legal requirements for eligibility of a partner or a project	111
Funding rates.....	112
Eligibility of Applicant / Partners - for undertakings.....	112
Slovak Republic	113
National contact person for ECSEL JU programme	113
Legal requirements for the eligibility of a partner or a project	113
Eligibility of the costs and funding	113
Additional Information to be provided at submission and other conditions	114
Spain	115
National contact persons for ECSEL JU programme	115
Legal requirements for the eligibility of a partner or a project	115
Eligibility of the costs and funding	121
Additional Information	122
Sweden.....	124
National contact person for ECSEL JU programme	124

ED 2019.268	
Legal requirements for the eligibility of a partner or a project	124
Eligibility of the costs and funding	125
Additional Information to be provided at submission and other conditions	125
Switzerland	126
National contact person for ECSEL JU programme	126
Legal requirement for the eligibility of a partner or a project.....	126
Eligibility of the costs and funding	126
Additional Information to be provided at submission and other conditions	128
Turkey	129
National contact person for ECSEL JU programme	129
Legal requirements for the eligibility of a partner or a project	129
Eligibility of the costs and funding	129
Additional Information to be provided at submission and other conditions	130
United Kingdom.....	131
National contact person for ECSEL JU programme	131

1. INTRODUCTION

The scope of the work plan is mainly to inform potential beneficiaries in a transparent manner about the Joint Undertaking's intentions to support and fund actions in their specific field of research, in accordance with the legal provisions, in particular:

- COUNCIL REGULATION (EU) No 561/2014 of 6 May 2014 establishing the ECSEL Joint Undertaking (in the following, the ECSEL Regulation)
- REGULATION (EU, EURATOM) No 966/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 25 October 2012 on the financial rules applicable to the general budget of the Union and repealing Council Regulation (EC, Euratom) No 1605/2002, *Article 128*
- REGULATION (EU) No 1290/2013 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 December 2013 laying down the rules for participation and dissemination in "Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020)" and repealing Regulation (EC) No 1906/2006 *Article 2*
- Commission Delegated Regulation (EU) No 110/2014 of 30 September 2013 on the model financial regulation for public-private partnership bodies referred to in Article 209 of Regulation (EU, Euratom) No 966/2012 of the European Parliament and of the Council *Article 31*
- Financial rules of the Joint Undertaking, Decision ECSEL GB 2016.67.
- The ECSEL Multiannual Strategic Plan (MASP) 2019, Decision ECSEL GB .
- The Multiannual Strategic Research and Innovation Agenda (MASRIA) 2019 issued by the Private Members Board
- The Research and Innovation Annual Plan (RIAP) 2019 issued by the Private Members Board.

The “Electronics Components and Systems for European Leadership” Joint Undertaking (ECSEL JU) has the mission to contribute towards keeping Europe at the forefront of the technology development addressing capabilities of essential systemic and strategic importance for each citizen, company and nation in the contemporary world and even more in the future world. The information and communication technology and its applications run on this fabric: no industrial product or system is conceivable today without extensive usage of electronic components and systems (ECS), and the trend will become stronger in the future.

The ECSEL JU has the statutory task to “draw up and implement the work plans for executing the multiannual strategic plan”. Specifically, the Executive Director shall “prepare and submit for adoption to the Governing Board the draft work plan including the scope of the calls for proposals needed to implement the research and innovation activities plan as proposed by the Private Members Board and the corresponding expenditure estimates as proposed by the public authorities”. The work plan shall include the specific reimbursement rates by the Union and by each ECSEL Participating State; the financial commitments reserved for each call for proposals as communicated by the public authorities to the Executive Director; the research and innovation activities plan, the administrative activities and the corresponding expenditure estimates. The work plan shall be adopted by the Governing Board (GB) by the end of the year prior to its implementation and shall be made publicly available. Once the Work Plan is adopted:

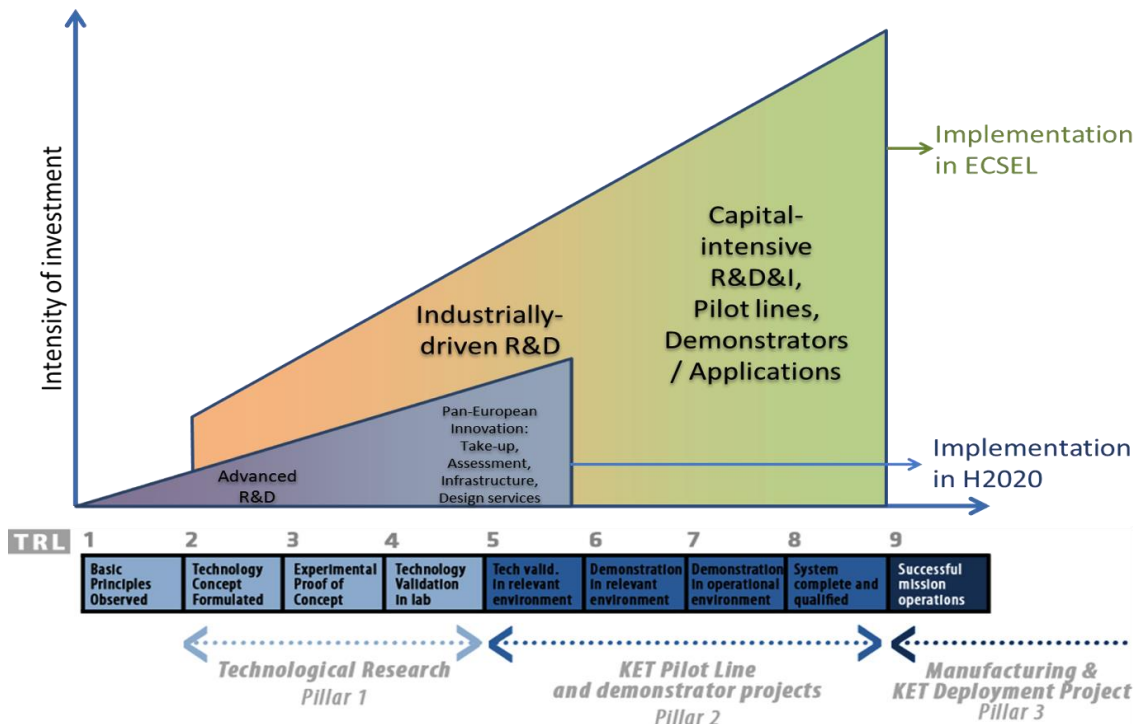
- The Public Authorities Board (PAB) shall approve the launch of calls for proposals, in accordance with the work plan,
- The Executive Director shall manage the calls for proposals as provided for in the work plan,
- The Executive Director shall describe in the annual activity report the progress made by the ECSEL Joint Undertaking in relation to the annual work plan for that year.

This work plan is written using a template provided by the Commission services in charge of Horizon 2020 so that it can be consolidated with the related activities throughout the European Union.

2. MULTI-ANNUAL PROGRAMMING

A. Multi-annual objectives

The Commission proposal for a European strategy in electronic components and systems has been laid out in 2013¹



The strategy includes a Joint Technology Initiative implemented as ECSEL JU that “will mainly support capital-intensive actions such as pilot lines or large scale demonstrators at higher Technology Readiness Level up to level 8 as shown above.... Within the new JTI the Commission will furthermore explore how to simplify and accelerate state aid approvals including through a Project of Common European Interest according to Article 107.3(b) of TFEU.”

The objectives of the ECSEL JU are listed in the Article 2 of its basic act, paraphrased here:

- 1) To contribute to the implementation of Horizon 2020, and to LEADERSHIP IN ENABLING AND INDUSTRIAL TECHNOLOGIES (LEIT).
- 2) To contribute to the development of a strong and competitive Electronic Components and Systems (ECS) industry in the Union.

¹ COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS. A EUROPEAN STRATEGY FOR MICRO- AND NANOELECTRONIC COMPONENTS AND SYSTEMS, Brussels, 23.5.2013, COM(2013) 298

- 3) To ensure the availability of ECS for key markets and for addressing societal challenges, aiming at keeping Europe at the forefront of the technology development, bridging the gap between research and exploitation, strengthening innovation capabilities and creating economic and employment growth in the Union.
- 4) To align strategies with Member States to attract private investment and contribute to the effectiveness of public support by avoiding unnecessary duplication and fragmentation of efforts, and easing participation for actors involved in research and innovation.
- 5) To maintain and grow semiconductor and smart system manufacturing capability in Europe, including leadership in manufacturing equipment and materials processing.
- 6) To secure and strengthen a commanding position in design and systems engineering including embedded technologies.
- 7) To provide access for all stakeholders to a world-class infrastructure for the design and manufacture of electronic components and embedded/cyber-physical and smart systems.
- 8) To build a dynamic ecosystem involving Small and Medium-Sized Enterprises (SMEs), thereby strengthening existing clusters and nurturing the creation of new clusters in promising new areas.

B. Multi-annual programme

The Executive Director (ED) has the statutory task to “consolidate and submit for adoption to the Governing Board the draft Multi-Annual Strategic Plan (MASP) composed of the Multi-Annual Strategic Research and Innovation Agenda (MASRIA) as proposed by the Private Members Board and the multiannual financial perspectives from the public authorities”.

The Private Members Board (PMB) submitted their draft MASRIA to the Executive Director on 26.11.2018. The Multi-Annual Strategic Plan 2019 (MASP 2019) has been adopted by the Governing Board (decision ECSEL GB 2017.114). The present Work Plan 2019 is based on this document. A Research and Innovation Action Plan (RIAP) was then submitted by the PMB regarding the topics selection for 2019.

The MASP includes five key application areas: Transport and mobility, Health and Well being, Energy, Digital Industry, Digital life and five essential capabilities: Systems and Components; Architecture, Design and Integration; Connectivity and Interoperability; Safety, Security and Reliability; Computing and Storage; Electronics Components & Systems Process Technology, Equipment, Materials and Manufacturing. The MASRIA provides detailed descriptions of the objectives, activities and roadmaps.

The MASP 2019 provides the generic frame for the content of the Calls. The actions to be performed in 2018 have been selected by the Executive Director considering the RIAP as provided by the Private Members. The details are presented in Chapter 3 of this document.

C. Work plan

The Work Plan is the implementation plan for the MASP (Art. 1 of Statutes of the ECSEL JU in Annex 1 of the Council regulation) and should contain the research and innovation activities plan, the administrative activities and the corresponding expenditure estimates (Art. 21 of Statutes of the ECSEL JU in Annex 1 of Council regulation). It should cover among others: the scope of the calls for proposals and the rules for participation and dissemination to the actions funded by ECSEL JU (Art. 17 of the Council Regulation), the reimbursement rates (Art. 18 of Statutes of the ECSEL JU in Annex 1 of the Council regulation), the financial commitment by each public authority reserved for each call (Art. 18 of Statutes of the ECSEL JU in Annex 1 of the Council regulation).

D. Human and financial resource outlook

The ECSEL establishment plan for 2019 and 2020 is available in the Budget 2019: decision ECSEL GB 2018.115.

3. ANNUAL WORK PLAN 2019

A. Executive Summary

The Annual work plan 2019 foresees the following activities:

Operations:

- In 2019, ECSEL will launch **calls for proposals**:
 - ECSEL Call 2019-1 for Innovation Actions (IA),
 - ECSEL Call 2019-2 for Research and Innovation Actions (RIA).
 - ECSEL Call 2019-3 for CSA to support the Health.E lighthouse initiative.
- In 2018, ECSEL started with an Impact Study through Public Procurement. This will be pursued in 2019.
- The **estimated EU expenditure for these calls and procurements is 174.2 M€**. This budget is to be supported from the 2019 and 2020 budgets. The EU contribution is based on the budget foreseen for JTIs in the general Union budget. The amount deriving from the 2019 estimated general Union budget is subject to its adoption by the budgetary authority and may be updated accordingly.
- Annex 3 summarizes both the national budgets and the estimated EU expenditure per action.
- Other activities include:
 - the Grant Agreement signature cycle with the start of the projects selected for Call 2018,
 - the monitoring of the ECSEL projects selected in the calls 2014, 2015, 2016 and 2017 and the management of the legacy projects launched under ENIAC.
 - various supporting activities to communication, administration, finance.

Communication:

Noting that the Communications Policy and Strategy – the work of the Communications Working Group set up by the Governing Board in 2017 - is still being implemented, the communications activities of ECSEL JU in 2019 will continue in essentially the same modes as in 2018, with the following key features:

1. Events.
 - a. In addition to the annual Symposium, some other events will be organised to ensure stronger branding of the ECSEL JU, complementing the events of the other Members of the JU. A strategy that ensures high attention to the positive impact of ECSEL at all levels will be pursued.
 - b. To advertise publicly the Calls for 2019, participation in the Brokerage/Consortium events of the Associations will be organised. This will be followed up with additional Call information sessions using a Webinar format.

- c. Specific support will be provided for the emerging Lighthouse Initiatives through dedicated actions at events and (digital) publications.
 - d. The cooperation with ECSEL Participating States and their regions will be enhanced by information / brokerage events at national / regional level. This will be carried through to the Permanent Representations to the EU Council in Brussels.
2. Dissemination Support
- a. Provide support to the ECSEL projects in their dissemination activities (project posters and flyers, events, publications).
 - b. Specific support to ECSEL JU supported technologies events or clustered/combined projects events, especially in the domain of the Lighthouse Initiatives. These can be in the form of presentations at publicly accessible parts of review meetings (a format to be encouraged), networking opportunities/dinners or lunches, or specific ECSEL JU pitches, awards, or prizes (e.g. the “ECSEL JU Technical Dissemination Award” in 2018), to improve and accelerate the synergies amongst the stakeholders.
 - c. Implement Coordinators’ Info day. In addition, a Webinar format will be used, minimising the need to travel and to broaden the audience.
3. Public Communications
- a. Continued attention to press releases, to be issued timely at key points in the annual calendar.
 - b. Website: further evolution to implement necessary improvements in the visual aspects and content of the site, as well as introducing tools for traffic monitoring and analysis.
 - c. Social Media primarily via Twitter and LinkedIn, others to be evaluated.

Administration and Finance:

The budget is established in accordance with the provisions of the Council Regulation (EC) No 561/2014 of 06 May 2014 setting up the ECSEL Joint Undertaking.

The budget includes the description of human and financial resources deployed by the ECSEL JU for the implementation of its programmes and plans in 2019. Budget execution is a key performance indicator on progress towards ECSEL JU’s objectives.

Budget commitments to cover the legal obligations of ECSEL JU will continue increasing in 2019:

- 197,674,400.00 € in 2019: +4% compared to 2018

Budget payments which are dedicated for the main part to payments of participants in the selected running projects and for the minor part to the running costs (including the payments of experts involved in reviews and evaluations) will continue to increase in 2019, with respect of the follow up of certificates received from the Participating States for the legacy, and in accordance with the rules under H 2020 for the new programme.

- 217,944,300.79 € in 2019: -29 % compared to 2018

The part of the running costs in the total budget will be as follows:

- with regard to **commitments**: 2.63 % in 2019
- with regard to **payments**: 2.39 % in 2019

Should there be a need not yet identified, the Governing Board will be invited to enter the necessary adjustments for appropriations.

B. Operations

Actions: launch and selection

The EU contribution is based on the budget foreseen for JTIs in the general Union budget. The total EU contribution for the 2019 ECSEL calls and tender is 174,200.000€. This budget is to be supported from the 2019 and 2020 budgets. The EU contribution is based on the budget foreseen for JTIs in the general Union budget. The amount deriving from the 2020 estimated general Union budget is subject to its adoption by the budgetary authority and may be updated accordingly.

In 2019 ECSEL will launch three calls and two major studies through public procurement. All details on the actions can be found in the annexes.

The programme is in line with the LEIT: Aiming at new and breakthrough technologies that will contribute to boosting competitiveness, creating jobs and supporting growth.

The first two calls aim at the reinforcement of the industrial competitiveness, by supporting the growth of existing partnerships and/or fostering new partnerships on technologies that already are at a higher TRL level. RIA and IA essentially differ by the Technology Readiness Level (TRL) they focus on and therefore by the reimbursement rates. Projects selected should demonstrate high impact, European wide collaboration between industry with a mixed participation of large enterprises, SMEs and academia. Expected outputs are pilot lines, large scale demonstrators, open platforms, innovative product developments.

The RIA call will contain a first special topic related to: ARCHITECTURES, COMPONENTS, AND SYSTEMS FOR VALIDATION/SIMULATION OF CONNECTED AUTOMATED VEHICLES.

The RIA call will contain a second special topic related to: EDGE COMPUTING

Both RIA and IA calls will be executed in parallel and have two phases: a Project Outline (PO) phase and a Full Project Proposal (FPP) phase. The launch of the calls is foreseen for February 2019, the PO phase will close in May 2019 and the deadline for the FPP phase is in September 2019. Selection and award criteria are provided in the Annexes, in particular per call the eligibility criteria, evaluation criteria, weightings, thresholds and EU reimbursement rates. The first two calls envisage implementation of lighthouse initiatives. Motivation, objectives and expected results for the lighthouse initiatives are given in annex.

The third call will provide support to the lighthouse initiatives Health.E. The lighthouse initiatives promote the partnerships and the tools developed in ECSEL and other programmes across the whole value chain from components and systems to end users and their products. Advice for the precise objectives for both calls will be elaborated by the respective LIASEs. It is the purpose of the ECSEL office to have the CSA up and running by May 2019. The CSA call will be in one phase. Selection and award criteria are provided in the annex, in particular the eligibility criteria, evaluation criteria, weightings, thresholds and EU reimbursement rates.

In 2018, ECSEL started with an Impact Study through Public Procurement. This will be pursued in 2019.

Managing the projects/Dissemination and information on projects

This covers the activities related to the project management: grant agreement signature, amendments, cost eligibility recognition and payments, checks, reporting, monitoring and audits, Information sessions, management of the EPS information exchange.

a. Monitoring of the legacy projects (ARTEMIS and ENIAC)

All projects are technically closed no further monitoring is required. There will be support to the financial team to perform the financial closure.

b. Reporting and monitoring of the ECSEL projects

For the monitoring of the ECSEL projects selected in previous calls, 46 reviews are planned, that will require 92 expert appointments. The Payment workflow is particularly heavy in this regard.

Project dissemination will be encouraged and facilitated, through direct help to projects in developing attractive project documentation (posters, project descriptions...) and active support at appropriate community and JU events.

c. Grant preparation

Grant preparation of 12 projects at least.

Other activities

- Support to the 3 lighthouse initiatives and their respective CSAs
- Running the programme: portfolio analysis, KPI tracking, audit support, etc.
- Information sessions: coordinator info sessions on cost recognitions, information session towards PAB regarding JU payments, information session for new coordinators, etc.
- Liaising with the different services of the CSC and implementing the Sygma-Compas tools
- Support to audits and audit processes
- Support the other departments: administration, finance and communication as well as the ED

4. Call management rules

The Calls are managed according to the PAB Decision ECSEL PAB 2018.31.

Part L of the General Annexes to the Horizon 2020 Work Programme 2018 – 2020 shall apply *mutatis mutandis* for the actions covered by this Work Plan. Any specificity for ECSEL JU is highlighted in annex 1.

Topics are described in the MASP 2019 (ECSEL GB 2018.114).

Applicants may submit proposals referring to cost items contributing towards the milestones and deliverables of an action that are independently funded by other European sources such as EFSI, ESIF, EIB, Eureka programme, etc. Rules are described in the Guide for Applicants.

5. Support to Operations

A. Communication and events

The following summarises the key elements of the Communications Strategy for the ECSEL JU and gives an indicative guide to the allocation of resources. The Working Group (WG) for Communications of the Governing Board has already indicated that Internal Communications are to be regarded as part of the general management of the Office, though recognises the essential need for communication on operational issues with the participants (mostly, coordinators).

The concrete external communication objectives are to:

1. **Increase the public and political awareness** of Electronic Components and Systems (ECS) technologies and their applications to achieve wide support of European society;
2. **Facilitate access to support mechanisms at European, National, and Regional level** which are complementary to those offered by the ECSEL JU, including new and additional financial resources;
3. **Expand the outreach of the ECSEL JU** to new public and private audiences and potential partners with the objective of building bridges to other JU's, PPP's, EUREKA clusters and programmes;
4. Attract **appropriate and dedicated political support** to maintain an adequate and effective European regulatory framework for ECS technologies;
5. Ensure that the communication policies of all ECSEL JU members are aligned wherever possible;
6. Channel the information from the operational group in charge of the projects about the **programme successes** (which is mandatory);
7. Establish a **calendar of actions/events** in alignment with the member organisations.

These objectives can be addressed by delivering easy-to-understand technical information about:

- ECS,
- ECSEL JU (including the rationale about the tripartite model),
- the projects and their added value induced by the public funding as well as their impact on competitiveness, growth, and quality of daily life.

The following tables describe the potential audiences for external communication activities, the associated topics of interest and suggested media for communication.

	Potential audiences	Possible communication topics	Possible communication media
A. Peer groups and ECSEL (potential) stakeholders	<p>Active and potential participants in ECSEL projects and initiatives;</p> <p>Industrial associations, European Commission and ECSEL Participating States;</p> <p>Organisations with a specific interest in the activities and results of the ECSEL programme</p> <p>RD&I actors not (yet) participating in JU activities, specifically SMEs</p> <p>Other funding instruments or organisations (e.g. EUREKA, other JUs, H2020 including PPPs, etc.)</p> <p>National/regional ECSEL mirror organisations (e.g. ECSEL Austria, etc.).</p>	<ul style="list-style-type: none"> - Themes to be addressed in future calls; - Brokerage opportunities for active and potential project participants; - How to create or engage in a project consortium; dos and don'ts when drafting an ECSEL proposal; - Creating support for ECSEL at relevant levels through dedicated events e.g. on "Lighthouse initiative(s)" etc.; - Publication of results; - Alignment of messages and coordinated actions between ECSEL public and private stakeholders in order to underline the ECSEL profile and strengthen important communication moments. Examples: joint press releases on call launches and funding decisions or sharing messages at national events. 	<ul style="list-style-type: none"> - Website; - Publications; - Workshops, seminars, forum sessions, brokerage events; - Events at national level; - Press releases; - Public appearances of ECSEL stakeholders.

	Potential audiences	Possible communication topics	Possible communication media
B. Decision makers relevant to ECSEL on European, national and regional level	<p>European Parliament and national Parliaments; Policy makers and dedicated bodies (European, national and regional); Sister JUs and other programmes focused on application areas covered by ECSEL; Civil society organisations.</p>	<ul style="list-style-type: none"> - Demonstration of results of projects and, in particular, the societal relevance of the “communication toolbox” items, in terms of new solutions to problems or economic benefits etc.; The justification of the public funding of the project should be specifically highlighted; - Underlining the unique tripartite nature of the ECSEL concept and the (pan-European) synergies it creates on various policy fields; - The combination of European and national priorities and interests and ECSEL’s capability to mobilise and combine substantial European, national and regional funds; - Interaction with relevant organisations on societal issues and possible technology solutions e.g. in the areas of health, automotive, energy, IoT, environment etc.; - Opportunities for cooperation and for joint initiatives. - (...) 	<ul style="list-style-type: none"> - Website; - Factsheets, Position documents; - Active dissemination of project results by the consortium partners; - Participation of ECSEL stakeholders at relevant events organised by user communities, public authorities or civil society organisations; - (...) -

	Potential audiences	Possible communication topics	Possible communication media
C. Interested public and specific audiences not related to ECSEL	<p>Interested public; Dedicated groups: students; technology adopters; special interest groups, NGO's;</p>	<ul style="list-style-type: none"> - Key application areas: mobility, society, energy, health, security and the solutions that ECSEL-generated technology can offer; - (...) 	<ul style="list-style-type: none"> - Website; - Daily newspapers; technical Press, "Brussels-EC-press"; - Television, notably programmes that address science and technology for a broader audience; - Social media; - Dedicated information packages e.g. for schools.

* The Working Group (WG) for Communications of the Governing Board has already indicated that Internal Communications are to be regarded as part of the general management of the Office, but it is noted here for completeness. The reference descriptions in the above table will in future be updated to reflect the further outcome of the WG's recommendations. However, it is expected that the major audiences identified will remain unchanged.

In 2019 the following events and publications are proposed

ECSEL JU Events 2019:

A. MAJOR “ECSEL JU” branded events for communication and dissemination

1. ECSEL JU will actively participate in the Brokerage sessions organised by the PMB organisations, giving information and guidance about the Calls for Proposals for 2019. The event is planned to be in Brussels on 15 and 16 January 2019. This will be followed up with additional information sessions via Webinars.
2. ECSEL JU Symposium, to be held in Bucharest in June 2019, as an official event of the Romania Presidency of the EU. This is the main annual ECSEL JU event, embracing all ECSEL communities and the full ECS value chain, including a project exhibition (ECSEL JU projects), estimated audience: up to 250 people and targeting Regional, National and European policy makers, close cooperation with the ECSEL JU members and around 2 main activities:
 - **Opinion-building and foresight symposium** with ECS policy-makers’ and industry/RTO representatives towards road-mapping.
 - **Presentation and exhibition of projects**, including guided tours for policymakers and press, panel discussions around specific technical themes.
3. ECSEL JU Stakeholders’ Forum. It has become common practice for the Associations (in their role as PMB) to organise a specific event that incorporates this function, the European Forum for Electronic Components and Systems (EF ECS), to be held in Helsinki in December 2019.

B. ECSEL JU events on specific topics

1. ECSEL JU Programme Dissemination Support events. As the ECSEL JU clearly has an obligation to facilitate the dissemination of the programme results (and by analogy the projects it funds) and has also called into life the Lighthouse Initiatives which further support this strategy, support, and facilitation of appropriate dissemination activities, such as workshops, seminars, or similar events, is to be foreseen. To that end, ECSEL JU will assist all running LIs in organising their (ad-hoc) events.
2. Coordinator’s Day. This is to provide updates, training, and general information of specific use to project coordinators. To be organised in close collaboration with the Operations unit and making use of Webinars as a low-threshold tool for reaching an expanding audience.
3. PAB / NFA events to clarify administrative arrangements through tutorials, workshops, etc... for NFA administrations.
4. SME Engagement event. This has been offered in the past but has not yet leveraged sufficient interest across the community to make implementation worth-while. However, it is an option that the ECSEL JU Communications team will support, should the PMB members request.

C. Specific events for communication with Institutions (Parliament, Council)

Noting that the decision process for future initiatives (JUs, ...) that are particularly relevant for the community of stakeholders in ECSEL JU will be a high-profile activity that will be closely monitored, with appropriate follow-up, by the ECSEL JU stakeholders and supported where necessary by the ECSEL JU Communications team.

1. Breakfast Sessions with MEPs / Cabinets of important Working Groups.

2. Presence and active participation in working-group meetings of the various committees: (non-exhaustive) EESC, Round Tables of EC Commissioners, political working-groups, EC Agencies Forum, ...
3. Participation in exhibition / promotion events at the relevant EU institutions (for example in conjunction with other JUs sharing common interest). In 2018 on an ad-hoc basis, structurally organised in 2019.
4. Site visits with important Public-sector representatives. To maximise the visibility of project results, selected site visits will be organised, engaging the relevant representatives of EU Institutions.

D. Support to Community-building and road-mapping facilitation

1. Support, through Service Level Agreements and/or “Sponsoring”, of events organised by Members Industrial Associations, where these are directly relevant for the ECSEL JU or where they contribute to Dissemination and Exploitation of ECSEL JU project results or Lighthouse Initiative actions.
2. Support by direct participation in relevant events organised by the European Commission.
3. Support by direct participation to events set up by National and/or Regional authorities to promote ECSEL participation in their area. (ECSEL-JU frequently and pro-actively request such meetings ad-hoc, with specific National/Regional or other relevant authorities).

PUBLICATIONS

Flyers/Brochures:

ECSEL JU will publish informative brochures / flyers on relevant topics for general promotion of the programme. Specific instruments of this type that are relevant for participants in the programme will be developed. These instruments shall be foreseen for primarily digital distribution but shall also be printable as needed. Other promotional materials (“Merchandising”) will be prepared, as supporting tools for the Events.

ECSEL JU will also help the projects in achieving the levels of active dissemination required by the Dissemination and Exploitation Strategy of H2020 by providing for preparation of basic materials such as an exhibition poster and project summary information, professionally edited and produced to assure clear and concise communication to a broad public.

Website and Social Media:

ECSEL JU’s reworked public website has greatly facilitated the timely publication of news and other public announcements. In 2019 – after nearly 18 months on-line – the web-site is due for review of some of its content and functionalities, in response to user feedback and the evolution of the programme’s needs. The new design reflects the subject matter and goals of the ECSEL JU programme, with attractive features that facilitate information dissemination and facilities for integrating Social Media exposure: these features need to be kept up to date, and traffic monitoring for measuring the site’s KPIs needs to be added, in order that the web-site continues to fulfil its important role. ECSEL JU will maintain and expand the web-site and highlight the use of the Twitter account (the LinkedIn page will be kept open, though it is not gaining traction in the community and will be evaluated along with other options).

Press releases

In addition to press releases independently published by members, ECSEL JU can foresee approximately 4 press releases, distributed by the JU using its own means, covering, but not limited to, the following key events:

- ECSEL JU Call 2019 launch.
- Event relevant for the constituents and JU Members.
- Key events relevant for the Institutions.
- Outcome of the ECSEL JU Calls 2019 (funding decisions).

Service-Level Agreements (SLAs)

Effective Dissemination and Communication requires specialist resources, many of which are already available within Members of the ECSEL JU. Therefore, execution of parts of the ECSEL JU Communications and Events and related actions may be implemented by means of Service Level Agreements (SLA) with relevant member organisations, though bearing in mind that clear, individual branding of ECSEL JU must remain a priority.

B. Procurement and contracts

Procurement and contracts are managed in accordance with the provisions of the Financial Rules adopted by the Governing Board of ECSEL and updated in 2016 (Decision GB 2016.67). A further update is expected in 2019.

C. IT and logistics

At present, six Joint Undertakings are sharing the housing location in the building “White Atrium”, Brussels Belgium: Clean Sky, FCH, IMI, BBI, S2R, and ECSEL.

The arrangements for the facilities are subject to a common contract for both the office space and the IT management of equipment, maintenance and help desk.

The 6 Joint Undertakings have jointly developed a common IT work programme and a common IT Security Policy. They also developed joint Business Continuity and Disaster Recovery Plans (BCP+DRP). The common IT programme includes a roadmap and a timeline, in order to be able to cope with business needs and required updates of networks and equipment.

In accordance with the principles of economy, efficiency and effectiveness, ECSEL as well as the other JUs are also using tools and applications developed by the Commission, namely for finance (ABAC and SAP) and for grant management under H2020 (SYGMA and COMPASS).

D. JU Executive Team – HR matters

The number of staff employed by ECSEL JU in 2019 is proposed to increase from 30 to 32 statutory staff.

These limited human resources are to be considered as a challenge for ECSEL JU, which manages two programmes at the same time (FP7 and H2020) and running with different rules. In this context trainees and interim solutions have proven necessary and are expected to remain needed in 2019, although the proposed recruitment of two additional contractual agents is aimed to replace existing interims, thereby contributing to ECSEL’s improved stability and ability to face workload more adequately.

Details on the staff establishment plan can be found in ECSEL budget 2019 (decision ECSEL GB 2018.115).

E. Administrative Budget and Finance

The administrative budget of ECSEL JU will remain at the same level as in 2019, i.e. **5,200,000.00€**.

Funding sources for the budget of ECSEL are at present limited to:

- The EU budget for the operational costs and a part of the running costs,
- The Private Members for the remaining part of the running costs.

The part of the running costs is kept at a very low level (3% and below), which is to be considered as an indicator for efficiency.

The part of **administrative costs** in the total budget will be as follows:

- with regard to Commitment Appropriations: 2.63%
- with regard to **Payment Appropriations**: 2.39 %

Accounting tasks have been transferred to European Commission's DG BUDG, which has been formally appointed ECSEL JU's accountant as of 1 July 2018. Interface with ECSEL JU is ensured through an "accounting correspondent" function within the JU.

F. Data protection and conflicts of interest

- Data protection

In order to address new rules coming to apply to ECSEL JU in replacement of Regulation 45/2001 on the protection of individuals with regard to the processing of personal data by the Community adjustments have been undertaken towards completion expected in the first half of 2019, to ensure continued compliance in that important field. An expert contractor has been hired to assist in this complex task under a joint contract with IMI JU.

- Conflicts of interest

The Governing Board has adopted comprehensive rules on the prevention and management of conflicts of interest in June 2015 (ECSEL GB 2015.41). It addresses all actors involved in the Joint Undertaking activities, including staff, PAB and GB members, experts involved in projects reviews and evaluations, participants in procurement and recruitment committees

6. Governance

Governance of the Joint Undertaking includes the following bodies:

- The **Governing Board** has overall responsibility for the strategic orientation and the operations of the ECSEL Joint Undertaking and supervises the implementation of its activities. The Chair is Mrs. Sabine Herlitschka.

- The **Executive Director** is the chief executive responsible for the day-to-day management of the ECSEL Joint Undertaking in accordance with the decisions of the Governing Board. Mr. Bert De Colvenaer is the Executive Director of ECSEL JU since January 2016.
- The **Public Authorities Board** is competent for matters related to calls for proposals and allocation of public funding. Its Chair is Mr. Ben Ruck.
- The **Private Members Board** is responsible for drawing up the draft multiannual strategic research and innovation agenda and the draft research and innovation activities plan. It consists of the three industry associations, AENEAS, ARTEMISIA and EPoSS. Its Chair is Mr. Jean-Luc di Paola-Galloni.

7. Internal Control framework

A. Financial procedures

1. Legacy projects (ARTEMIS and ENIAC)

The financial procedures of ENIAC and ARTEMIS projects have been harmonised. Despite the intrinsic similarities, some adjustments in the internal procedures (check-lists, work-flows, etc.) were implemented taking into account best practices of both programmes. The bulk of the process remains the same with payments based on certificates provided by Participating States in both cases.

2. ECSEL projects

The financial procedure for projects under H2020 depends on the H2020 IT tools developed by the European Commission. These IT tools encompass the full cycle of the process, including work-flows, check-lists, etc.

B. Ex-ante and ex-post controls

The internal control processes and methods have been subject, from the first days of existence of ECSEL JU, to a decision of the Governing Board (ECSEL GB 2014.15 of 03 July 2014) adopting the internal control standards for efficient management.

With regard to financial matters, ex-ante and ex-post controls are organised in accordance with the Financial Rules of the ECSEL JU (Decision ECSEL GB 2016.67, in particular its articles 18 and 19).

1. Legacy projects (ARTEMIS and ENIAC)

The ECSEL JU continues to operate under the stipulations previously defined under FP7 for the former organisations ARTEMIS and ENIAC. The procedures have been updated to ensure a high level of quality, in close cooperation with the national funding authorities issuing certificates for payments.

2. ECSEL projects

The current developments for the electronic management of calls and selected projects shall be complemented in cooperation with the Common Support Service of the Commission, in charge of the applications, and in due consideration of the specificities of the tripartite model of the ECSEL JU.

C. Audits

Audits are organised both on an internal and external basis:

C1 Internal audits are operated by the internal auditor of the JU (the competent service of the Commission) and by the staff member appointed by the Governing Board for performing the

internal audit capability, in accordance with the provisions of Chapter 5 of the Financial rules of the ECSEL JU.²

C2 External audits are operated by the European Court of Auditors, reporting to the European Parliament and the Council, responsible for the discharge procedure.

C3 Ex-post audits of beneficiaries are also operated by or on behalf of the ECSEL JU, with methods which are adapted to the specificities of the programmes:

1. Legacy projects (ARTEMIS and ENIAC)

In accordance with the financial rules applying to the projects previously managed by the ARTEMIS and ENIAC JUs, the National Authorities of the Participating States are entrusted with the ex-post audit of the beneficiaries. The role of the JU is, in accordance with the ex-post audit strategy defined under FP7, to assess the means and outputs of the audits operated by the National Funding Authorities. A key request in this respect is for the issuance by the latter of a declaration of assurance on a yearly basis.

2. ECSEL projects

Under the regime of H2020 ECSEL JU has defined the needs and methods for the ex-post audits, in close cooperation with the Common Support Centre of the European Commission, in view of a coordinated approach of audits of beneficiaries. A common audit plan for all EU services involved in the programme H2020 will be implemented by the CSC of the Commission, acting on behalf of the ECSEL JU. The first audits of the CSC on behalf of the ECSEL JU have been launched in 2017.

² Decision ECSEL GB 2016.67

8. ANNEXES

Annex 1: General Annexes for the ECSEL Calls 2019-1 to 2019-3

The general annexes for H2020 apply, with some exceptions detailed below. The general annexes can be found under:

http://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2018-2020/annexes/h2020-wp1820-annex-ga_en.pdf

The following elements are specific for the ECSEL Calls 2019-1 to 2019-3.

- Regarding Annex “*B. Standard admissibility conditions for grant proposals, and related requirements*”, the page limits as mentioned under the different call descriptions in the WorkPlan 2019 are applicable as well as in the Guide for Applicants regarding the format.
- Regarding Annex “*D. Types of action specific provisions and funding rates*”, the call specific annexes contain the provisions and funding rates applicable to the ECSEL calls.
- Regarding Annex “*G. Technology readiness levels*”, the table below emphasizes the differences between the different levels as well as the difference between hardware and software related actions.
- Regarding Annex “*K Actions involving financial support for third parties*”, financial support to third parties is limited to grants (not prizes).

	Definition	Hardware description	Software description	Exit criteria
1	Basic principles observed and reported.	Scientific knowledge generated underpinning hardware technology concepts/applications.	Scientific knowledge generated underpinning basic properties of software architecture and mathematical formulation.	Peer reviewed publication of research underlying the proposed concept/application.
2	Technology concept and/or application formulated.	Invention begins, practical application is identified but is speculative, no experimental proof or detailed analysis is available to support the conjecture.	Practical application is identified but is speculative, no experimental proof or detailed analysis is available to support the conjecture. Basic properties of algorithms, representations and concepts defined. Basic principles coded. Experiments performed with synthetic data.	Documented description of the application/concept that addresses feasibility and benefit.
3	Analytical and experimental critical function and/or	Analytical studies place the technology in an appropriate context and laboratory demonstrations,	Development of limited functionality to validate critical properties and predictions using non-integrated software	Documented analytical/experimental results validating

	characteristic proof of concept.	modelling and simulation validate analytical prediction.	components., modelling and simulation	predictions of key parameters.
4	Technology validation in laboratory environment.	A low fidelity system/component breadboard is built and operated to demonstrate basic functionality and critical test environments, and associated performance predictions are defined relative to the final operating environment.	Key, functionally critical, software components are integrated, and functionally validated, to establish interoperability and begin architecture development. Relevant Environments defined and performance in this environment predicted.	Documented test performance demonstrating agreement with analytical predictions. Documented definition of relevant environment.
5	Technology validated in relevant environment. (industrially relevant environment in the case of key enabling technologies)	A medium fidelity system is built and operated to demonstrate overall performance in a simulated operational environment with realistic support elements that demonstrates overall performance in critical areas. Performance predictions are made for subsequent development phases.	End-to-end software elements implemented and interfaced with existing systems/simulations conforming to target environment. End-to-end software system, tested in relevant environment, meeting predicted performance. Operational environment performance predicted. Prototype implementations developed.	Documented test performance demonstrating agreement with analytical predictions. Documented definition of scaling requirements.
6	Technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)	A high fidelity system/component prototype that adequately addresses all critical scaling issues is built and operated in a relevant environment to demonstrate operations under critical environmental conditions.	Prototype implementations of the software demonstrated on full-scale realistic problems. Partially integrate with existing hardware/software systems. Limited documentation available. Engineering feasibility fully demonstrated.	Documented test performance demonstrating agreement with analytical predictions.

7	System prototype demonstration in an operational environment.	A high fidelity engineering unit that adequately addresses all critical scaling issues is built and operated in a relevant environment to demonstrate performance in the actual operational environment and platform.	Prototype software exists having all key functionality available for demonstration and test. Well integrated with operational hardware/software systems demonstrating operational feasibility. Most software bugs removed. Limited documentation available.	Documented test performance demonstrating agreement with analytical predictions.
8	Actual system completed and qualified through test and demonstration.	The final product in its final configuration is successfully demonstrated through test and analysis for its intended operational environment and platform	All software has been thoroughly debugged and fully integrated with all operational hardware and software systems. All user documentation, training documentation, and maintenance documentation completed. All functionality successfully demonstrated in simulated operational scenarios. Verification and Validation (V&V) completed.	Documented test performance verifying analytical predictions.

- Regarding Annex “*H. Evaluation rules*”, the call specific annexes contain the rules applicable to the ECSEL call evaluations. The “DECISION OF THE PUBLIC AUTHORITIES BOARD OF THE ECSEL JOINT UNDERTAKING ON THE EVALUATION AND SELECTION PROCEDURES RELATED TO CALLS FOR PROPOSALS” (ECSEL PAB 2018.31), including the rules on conflicts of interest is of application. This document is available on ECSEL JU website at: <https://www.ecsel.eu/documents>
- Regarding Annex “*I. Budget flexibility*” this does not apply to ECSEL JU. The budget is the responsibility of the ECSEL Governing Board.

Annex 2: ENTRUSTING FOR THE CALLS 2019

The two modes of entrusting the ECSEL Joint Undertaking from the ECSEL Participating States are:

- A. ECSEL Participating States entrusting the implementation and/or the payment of their national contribution to ECSEL JU (**Article 17.1** of the Statutes of Council Regulation 561/2014).
There are two possibilities:
- a) Entrusting implementation only,
 - b) Entrusting implementing and payment.
- B. ECSEL Participating States not entrusting the implementation of their national contribution to ECSEL JU (**Article 17.2** of the Statutes of Council Regulation 561/2014)

ECSEL Participating States	Delegation Mode	ECSEL Participating States	Delegation Mode
Austria	17.2	Malta	-
Belgium-Flanders	17.2	Netherlands-RVO	17.2
Belgium-Brussels	17.2	Netherlands-TKI	17.2
Bulgaria	-	Norway	17.2
Czech Republic	17.2	Poland	17.2
Denmark	17.2	Portugal	17.2
Finland	17.2	Romania	-
France	17.2	Slovak Republic	17.2
Germany	17.2	Spain	17.2
Greece	17.2	Sweden	17.2
Hungary	17.2	Switzerland	17.2
Ireland	17.2	Turkey	17.2
Israel	17.2	United Kingdom	17.2
Italy	17.2		
Latvia	17.2		
Luxemburg	-		

Annex 3: National Budgets for the Calls 2019-1, 2019-2 for the EU estimated expenditure for the Calls 2019-1, 2019-2, 2019-3 and the operational tender

The following table summarizes the the national budgets for the calls 2019.

EPS	2019-1 IA	2019-2 RIA(**)	2019-2 RIA Special topic 1	2019-2 RIA: Special topic 2	ESIF	All Calls	Total (M€)
AT						10.0	10.0
BE FL						12.0	12.0
BE BXL						1.0	1.0
BG							
CH						2.2(*)	2.2(*)
CZ	1.5	1.0	0.25	0.25			3.0
DK							
FI	2.5	2.5	1	1			7.0
FR	17.0	5.0					22.0
DE						32.0	32.0
DE Saxony	9.0	4.0					13.0
DE Thuringia							0.8
EL							
HU						1.0	1.0
IE						2.0	2.0
IL						6.5	6.5
IT MIUR		2.5					2.5
IT MISE	15.0				0.0		15.0
LX							
LV						0.42	0.42
NL	12.836	8.0	1.0	1.0			22.836
NO						2.2	2.2
PL							1.5
PT							2.0
RO							
SK							0.8
ES MINECO						5.0	5.0
ES MICIUN						1.0	1.0
SE						5.5	5.5
UK						0.0	0.0
TR						3.0	3.0
Total							174.256

(*) The Euro equivalent of 2.5MCHF

(**) The amount in this column can also be used for the special topics unless explicit amounts are indicated in those columns.

Action	Estimated EU Expenditure³ (M€)
Call 2019-1 IA	92.50
Call 2019-2 RIA	65.80
Call 2019-2 RIA Special topic 1	5.00
Call 2019-2 RIA Special topic 2	10.00
Call 2018-3 CSA for LI Health.E	0.50
Public procurement	0.40
Total	174.20

³ Pending the corresponding financing decisions to be adopted by the European Commission for 2019 and 2020.

Annex 4: Key Performance Indicators

The intervention logic, definition, measurement and evaluation of baseline are discussed in the KPI-guidelines (under preparation).

Operational performance

KPI	Definition	Baseline	Objective for year 2019
OP-1	% New participants compared to previous years	33%	40%
OP-2	Success rate %	17%	25%
OP-3	Budget % of selected projects along value chain	not defined	not defined
OP-4	Time to grant % below maximum time	100%	100%
OP-5	Time to payments % Late	2%	<2%
OP-6	% Projects achieving insufficiently (Monitoring)	5%	<5%
OP-7	Lighthouse activity	not defined	not defined
OP-8	Ethics: projects not complying		<2%
OP-9	Redress requested	0%	0%
OP-10	Gender (% women in projects)	Not yet available in SYGMA	
OP-11	Third country: participants from third countries	0.5%	0.5%
OP-12	Error rate: % common representative errors	0%	0%
OP-13	Events/Communication	not defined	not defined

Programme performance KPI

KPI	Definition	Baseline	Objective for year 2019
PP-1	Number of projects	12	>12
PP-2	National Funding / EU Funding per year	0.92	>0.9
PP-3	Private partners / Public partners	2.0	2.0
PP-4	Average Size of project RIA	under preparation	under preparation
PP-5	Average Size of project IA	under preparation	under preparation
PP-6	Number of countries with selected participants but having committed no national funding divided by number of countries with participants in calls of that year (excluding third countries)	20%	20%
PP-7	Oversubscription	under preparation	under preparation
PP-8	Number of patents per 10MEuro of EU funding	3	Not available yet
PP-9	Participation of SME to the programme	under preparation	under preparation
PP-10	Publications	under preparation	under preparation

Impact KPI

The ECSEL JU will work with the other JU's and ECSEL stakeholders to define common impact KPIs and methodologies to assess those KPIs.

Annex 5: Call 2019-1, IA specific details

Scope and objectives

The call will be open to the following topics:

Topics and Major Challenges	Open/Closed
1. Transport & Smart Mobility	
Major Challenge 1 Developing clean, affordable and sustainable propulsion	Open
Major Challenge 2 Ensuring secure connected, cooperative and automated mobility and transportation	Open
Major Challenge 3 Managing interaction between humans and vehicle	Open
Major Challenge 4 Implementing infrastructure and services for smart personal mobility and logistics	Open
2. Health and Well-Being	
Moving healthcare from hospitals into our homes and daily life requiring preventive and patient centric care	Open
Restructuring healthcare delivery systems, from supply-driven to patient-oriented	Open
Engaging individuals more actively in their own health and well-being	Open
Ensuring affordable healthcare for the growing amount of chronic, lifestyle related diseases and an ageing population	Open
Developing platforms for wearables/implants, data analytics, artificial intelligence for precision medicine and personalized healthcare and well-being	Open
3. Energy	
Major Challenge 1 Ensuring sustainable power generation and energy conversion	Open
Major Challenge 2 Achieving efficient community energy management	Open
Major Challenge 3 Reducing energy consumption	Open
4. Digital Industry	
Major challenge 1 Developing Digital twins, simulation models for the evaluation of industrial assets at all factory levels and over system or product life-cycles	Open
Major challenge 2 Implementing AI and machine learning, to detect anomalies or similarities and to optimize parameters	Open
Major challenge 3 Generalising condition monitoring, to pre-damage warning on-line decision-making support and standardisation of communication scenarii to enable big data collection across huge (remote) sites	Open
Major challenge 4 Developing digital platforms, application development frameworks that integrate sensors/actuators and systems	Open
5. Digital Life	
Major Challenge 1 Ensuring safe and secure spaces	Open

Major Challenge 2 Ensuring healthy and comfortable spaces	Open
Major Challenge 3 Ensuring anticipating spaces	Open
Major Challenge 4 Ensuring sustainable spaces	Open
6. Systems and Components: Architecture, Design and Integration	
Major Challenge 1 Managing critical, autonomous, cooperating, evolvable systems	Open
Major Challenge 2 Managing Complexity	Open
Major Challenge 3 Managing Diversity	Open
Major Challenge 4 Managing Multiple Constraints	Open
Major Challenge 5 Integrating features of various technologies and materials into miniaturized smart components	Open
Major Challenge 6 Effectively integrating modules for highly demanding environments	Open
Major Challenge 7 Increasing compactness and capabilities by functional and physical systems integration	Open
7. Connectivity and Interoperability	
Major Challenge 1 Meeting future connectivity requirements leveraging heterogeneous technologies	Open
Major Challenge 2 Enabling nearly lossless interoperability across protocols, encodings and semantics	Open
Major Challenge 3 Ensuring Secure Connectivity and Interoperability	Open
8. Safety, Security and Reliability	
Major Challenge 1 Safety, security and privacy by design	Open
Major Challenge 2 Reliability and Functional Safety	Open
Major Challenge 3 Secure, safe and trustable connectivity and infrastructure	Open
Major Challenge 4 Privacy, data protection and human interaction	Open
9. Computing and Storage	
Major Challenge 1 Increasing performance at acceptable costs	Open
Major Challenge 2 Making computing systems more integrated with the real world	Open
Major Challenge 3 Making "intelligent" machines	Open
Major Challenge 4 Developing new disruptive technologies	Open
10. Process Technology, Equipment, Materials and Manufacturing for electronic components and systems	
Major Challenge 1 Developing advanced logic and memory technology for nanoscale integration and application-driven performance	Open
Major Challenge 2 Developing technology for Heterogeneous System-on-Chip (SoC) Integration	Open
Major Challenge 3 Developing technology for Advanced Packaging and Heterogeneous System-in-Package (SiP) integration	Open
Major Challenge 4 Extending world leadership in Semiconductor Equipment, Materials and Manufacturing solutions	Open

11. Long term vision	
New computing paradigms (Beyond CMOS)	Open
Process technology, equipment and materials	Open
Systems and componenets, architecture, design and integration	Open
Health & Wellbeing	Open
Energy	Open
Digital industry	Open
Transport and smart mobility	Open
Connectivity and interoperability	Open
Data science and Artificial intelligence	Open

Proposals working on technologies for Safety, Security and Reliability and Computing and Storage are strongly encouraged.

Proposals aiming at applications in the field of Health and Well-Being and Digital Life are strongly encouraged.

ECSEL JU and IMI2 JU initiated in 2017 the first discussions to explore possibilities for cooperation between both JUs in the domain of smart health along three thematic areas: sensors and diagnostics, imaging, and patient monitoring platforms. As a continuation of the first concrete interactions set up in 2018, participation of both JUs in their respective governance bodies (e.g. participation of ECSEL in SGG Digital Health & Patient Centric Evidence Generation, Immunology, etc.), interactions during topics design and consultation process, as well as dedicated workshops, are planned in 2019. The objective is to further support synergies between the JUs' activities and potential collaborations between projects of the respective JUs.

Proposals that cut across disciplines, support platform building, interoperability, establishment of open standards are particularly encouraged.

Aspects of value chain integration are important for the ECSEL programme and consortia are encouraged to submit proposals that take this into account.

Note that National priorities may be applicable to specific topics (refer to Chapter “COUNTRY SPECIFIC ELIGIBILITY RULES”).

Objectives of each topic can be found in the MASP 2019 (decision ECSEL GB 2018-114).

Specific Conditions

Mode: 2 phases: Project Outline (PO) and Full Project Proposal (FPP)

Publication date: 6 February January 2019

Deadline PO phase: at 17:00:00 Brussels time on 7 May 2019

Deadline FPP phase: at 17:00:00 Brussels time on 18 September 2019

Type of action: ECSEL Innovation Action

An ECSEL Innovation Action (IA) primarily consists of activities aiming at pilot lines, test beds, demonstrators, innovation pilots and zones of full-scale testing. These activities produce plans and arrangements or designs for new, altered or improved products, processes, methods and tools or services. For this purpose they may include prototyping, testing, demonstrating, piloting, large-scale product validation and market replication.

A 'technology or method introduction' aims at the development, testing, and implementation of new technologies, tools or methods, which are a critical element of innovative products, which will be created in subsequent projects.

A 'demonstration or pilot' aims to validate the technical and economic viability of a new or improved technology, product, process, service or solution in an operational (or nearly operational) environment, whether industrial or otherwise, involving, where appropriate, a larger scale prototype or demonstrator.

A 'market replication' aims to support the first application/deployment in the market of an innovation that has already been demonstrated but not yet applied/deployed in the market due to market failures/barriers to uptake. 'Market replication' does not cover multiple applications in the market of an innovation that has already been applied successfully once in the market. 'First' means new at least to Europe or new at least to the application sector in question. Often such projects involve a validation of technical and economic performance at system level in real life operating conditions provided by the market.

The activities have their centre of gravity at the TRL 5-8. An IA proposal in ECSEL JU is characterized by:

- Execution by an industrial consortium that may consist of large and SM enterprises but also including universities, institutes, public organizations;
- Using innovative technology;
- Developing and demonstrating innovative solutions in relation with the ECSEL Strategic Thrusts as outlined in the ECSEL MASP;
- Establishment of a new and realistic innovation environment connected with an industrial environment, such as:
 - a pilot line facility capable of manufacturing
 - a zone of full-scale testing;
 - a development of new processes or tools and their introduction in several domains;
 - the development of frameworks or platforms together with the usage of these frameworks or platforms in innovative products.
- Having a deployment plan leading to short to mid term economic value creation in Europe.
- In order to maximize effective implementation of the ECSEL top-level objectives, the list of IA proposals to be retained for public funding should constitute a balanced portfolio of projects applying innovative technologies (as defined in the MASP in the essential technology section) and applying them in different domains as defined in the MASP. The

domains represent the demand side of technologies, and the development of new technologies represents the supply side of technologies.

Admissibility and Eligibility conditions:

Admissibility conditions: Refer to Annex 1

Eligibility conditions

All proposals must comply with the conditions set out in the **Rules for Participation contained in Regulation (EU) No 1290/2013 of 11 December 2013**. A proposal will only be considered eligible if:

- its content corresponds, wholly or in part, to the topic description for which it is submitted;
- it complies with the eligibility conditions set out below, depending on the type of action.

Type of action	Conditions for participation & eligibility for funding
ECSEL Innovation Action	At least three legal entities. Each of the three must be established in a different Member State or associated country. All three legal entities must be independent of each other. ⁴

Specific rules apply for eligibility for funding by ECSEL Participating State (refer to Annex 9).

Other specific eligibility rules for this call applicable at the FPP phase (proposals not respecting those maxima will be rejected, ie not evaluated):

Duration limit

- The maximum duration of the project is 3 years.

Size limit

- The maximum size of the project is 90 participants.

Capping

- The EU contribution per project is capped at 25M€ and the maximum contribution per partner in a project is limited to 50% of the total EU funding for the project.

⁴ Please see also the REGULATION (EU) No 1290/2013 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 December 2013 laying down the rules for participation and dissemination in "Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020)" and repealing Regulation (EC) No 1906/2006, OJ L 347/81, 20.12.2013.; particularly Articles 9 and 10 stipulating detailed conditions for participation and eligibility for funding.

Page Limits at the PO phase for RIA and IA ECSEL actions

- The page limit for the chapter on EXCELLENCE is 60 pages
- The page limit for the chapter on IMPACT is 60 pages
- The page limit for the chapter on IMPLEMENTATION is 60 pages

Page Limits at the FPP phase for RIA and IA ECSEL actions

- The page limit for the chapter on EXCELLENCE is 60 pages
- The page limit for the chapter on IMPACT is 100 pages
- The page limit for the chapter on IMPLEMENTATION is 100 pages.

The application of those page limits (font size etc) is further described in the Guide for Applicants. The selected proposals maybe required to submit further information regarding the IMPLEMENTATION after selection.

Pages in excess of those maxima will not be considered in the evaluation.

Evaluation criteria, scoring and threshold

Evaluation procedure

The decision ECSEL PAB 2018.31 contains further elements on the evaluation and selection of processes.

Award criteria

The proposals will be evaluated along the following three evaluation criteria:

1. **Excellence:** The following aspects will be taken into account, to the extent that the proposed work corresponds to the relevant work plan topic description in the ECSEL MASP:
 - a. Clear reference to the topics and main challenges to which this proposal contributes;
 - b. Clarity and pertinence of the objectives and the expected results of the proposed work; with quantified objectives and results and reference baseline.
 - c. Credibility (soundness) of the concept (*what*), including inter-disciplinary considerations, where relevant, and where relevant use of stakeholders knowledge and gender dimension in research and innovation content (if the proposal addresses the gender dimension);
 - d. Credibility (soundness) of the proposed methodology (*how*);
 - e. Extent to which the proposed work is ambitious, , is beyond the state of the art and demonstrates innovation potential (e.g. ground-breaking objectives, novel concepts and approaches, new products, services or business and organisational models).
2. **Impact:** The extent to which the outputs of the project should contribute at the European and/or International level to:
 - a. The creation and exploitation of market potential and the gain of a competitive technology advantage (*Impact from participant perspective*);

- b. Enhancing innovation capacity and integration of new knowledge (*Impact from participant perspective*);
 - c. Creating economic value in Europe (by future employment and industrial investment), including industrial end-user leverage (*Impact from EU perspective*);
 - d. Strengthening Europe and the competitiveness and growth of companies by developing innovations that meet the needs of European and global markets; and by delivering such innovations to the markets or introducing new technologies/processes/tools to the European industry (*Impact from EU perspective*);
 - e. The exploitation of project results per participant and where relevant at project level; management of IPR and where relevant management of the research data (for proposals that do not opt out of the pilot on open research data)
 - f. The dissemination of project results, the communication of the project; the contribution of standards, where appropriate.
3. **Quality and efficiency of the implementation:** The following aspects will be taken into account:
- a. Quality and effectiveness of the work plan, including extent to which the resources assigned to work packages are in line with their objectives and deliverables
 - b. Significant coverage of the value chain, including industrial end-users, and/or different sectors where relevant;
 - c. Complementarity of the participants and the extent to which the consortium as a whole brings together the necessary expertise
 - d. Adequate participation of large enterprises, SMEs, universities and research institutes. Appropriateness of the allocation of tasks ensuring that all participants have a valid role and adequate resources in the project to fulfil that role
 - e. Appropriateness of the management structures and procedures, including risk and innovation management.

Scoring

PO Phase, The scores will be given using - half marks.

Criteria	Range	Weight (**)	Threshold (*)
Excellence	0-5		2.5
Impact	0-5		2.5
Quality and efficiency of the implementation	0-5		2.5
Total	0-15		11

(*) threshold applies to unweighted score

(**) at PO phase proposals are not ranked

FPP Phase: The scores will be given with a resolution of one decimal. Only proposals which successfully passed the PO phase are eligible to the FPP phase.

Criteria	Range	Weight (**)	Threshold (*)
Excellence	0-5	1	3
Impact	0-5	1.5	3
Quality and efficiency of the implementation	0-5	0.7	3
Total	0-15		11

(*) threshold applies to unweighted score

(**) the weight is only used to establish the ranking of the proposals

Selection criteria

Only in the FPP Phase

- *Financial capacity*: In line with the Financial Regulation and the Rules for Participation. At the full project proposal stage, coordinators will be invited to complete a self-assessment using an on-line tool.
- *Financial capacity*: Participants declared by their national authority in crisis according to the State-Aid rules as defined by EU regulation 651/2014 will not be eligible for EU funding
- *Operational capacity*: As a distinct operation, carried out during the evaluation of the award criterion 'Quality and efficiency of the implementation', experts will indicate whether the participants meet the selection criterion related to operational capacity, to carry out the proposed work, based on the competence and experience of the individual participant(s).

Priority order for proposals with the same score

PO Phase: No priority order is required at this stage

FPP Phase:

Unless the call conditions indicate otherwise, the following method will be applied. As part of the evaluation by independent experts, a panel review will recommend a ranked list for the proposals under evaluation, following the scoring systems indicated above. A ranked list will be drawn up for every indicative budget shown in the call conditions. If necessary, the panel will determine a priority order for proposals which have been awarded the same score within a ranked list. The following approach will be applied successively for every group of *ex-aequo* proposals requiring prioritisation, starting with the highest scored group, and continuing in descending order:

- Proposals will be prioritised per the scores they have been awarded for the criterion impact. When these scores are equal, priority will be based on scores for the criterion excellence.
- Then proposals that address topics not otherwise covered by more highly-ranked proposals will be considered to have the highest priority.
- Further *ex-aequo* are discussed by the panel of experts and scored on the merit of the proposal to fulfil the objectives of ECSEL JU considering elements such as the enhancement of the quality of the project portfolio through synergies between projects, balance between the type of partners, SME participation, and gender balance. These factors will be documented in the report of the Panel.
- In the case of two projects with the similar score the PAB can decide to rank the project with the highest ratio: national funding to EU funding; before the other.

Indicative timetable for evaluation and grant agreement

Information on the outcome of the evaluation	Indicative date for the signing of grant agreements
Maximum 5 months from the final date for submission	Maximum 8 months from the final date for submission

Consortium agreement

In line with the Rules for Participation and the ECSEL JU Model Grant Agreement, participants are required to conclude a consortium agreement.

Reimbursement rate for establishing the EU contribution

Reimbursement rates as percentages of the eligible cost according to H2020.

Type of beneficiary	EU Contribution as % of the Eligible Cost according to H2020 (*)
Large Enterprise (for profit non SME)	20 %
SME (for profit SME)	25 %
University/Other (not for profit)	35 %

(*) beneficiaries may ask for a lower contribution

SMEs

- SMEs should be encouraged to participate to the proposals in a significant way.

International visibility

- Partners are encouraged to create visibility to promote the developed technologies outside of Europe creating the basis for European impact on future international markets.

Reimbursement rates for establishing national contributions

- Please refer to Chapter “COUNTRY SPECIFIC ELIGIBILITY RULES”

Contribution to the Council Regulation (Article 4.1)

- The consortia proposing projects will strive for a ratio of the total national funding to the EU funding larger than 1.20.

Financial support to third parties

- Applicable for this call.
- Financial support to third parties is capped (limited to) 3% of the EU funding requested by the proposal.

Estimated expenditures

See Annex 3

Annex 6: Call 2019-2, RIA

Scope and objectives

The call will be open to the following topics:

Topics and Major Challenges	Open/Closed
1. Transport & Smart Mobility	
Major Challenge 1 Developing clean, affordable and sustainable propulsion	Open
Major Challenge 2 Ensuring secure connected, cooperative and automated mobility and transportation	Open
Major Challenge 3 Managing interaction between humans and vehicle	Open
Major Challenge 4 Implementing infrastructure and services for smart personal mobility and logistics	Open
2. Health and Well-Being	
Moving healthcare from hospitals into our homes and daily life requiring preventive and patient centric care	Open
Restructuring healthcare delivery systems, from supply-driven to patient-oriented	Open
Engaging individuals more actively in their own health and well-being	Open
Ensuring affordable healthcare for the growing amount of chronic, lifestyle related diseases and an ageing population	Open
Developing platforms for wearables/implants, data analytics, artificial intelligence for precision medicine and personalized healthcare and well-being	Open
3. Energy	
Major Challenge 1 Ensuring sustainable power generation and energy conversion	Open
Major Challenge 2 Achieving efficient community energy management	Open
Major Challenge 3 Reducing energy consumption	Open
4. Digital Industry	
Major challenge 1 Developing Digital twins, simulation models for the evaluation of industrial assets at all factory levels and over system or product life-cycles	Open
Major challenge 2 Implementing AI and machine learning, to detect anomalies or similarities and to optimize parameters	Open
Major challenge 3 Generalising condition monitoring, to pre-damage warning on-line decision-making support and standardisation of communication scenarii to enable big data collection across huge (remote) sites	Open
Major challenge 4 Developing digital platforms, application development frameworks that integrate sensors/actuators and systems	Open
5. Digital Life	
Major Challenge 1 Ensuring safe and secure spaces	Open

Major Challenge 2 Ensuring healthy and comfortable spaces	Open
Major Challenge 3 Ensuring anticipating spaces	Open
Major Challenge 4 Ensuring sustainable spaces	Open
6. Systems and Components: Architecture, Design and Integration	
Major Challenge 1 Managing critical, autonomous, cooperating, evolvable systems	Open
Major Challenge 2 Managing Complexity	Open
Major Challenge 3 Managing Diversity	Open
Major Challenge 4 Managing Multiple Constraints	Open
Major Challenge 5 Integrating features of various technologies and materials into miniaturized smart components	Open
Major Challenge 6 Effectively integrating modules for highly demanding environments	Open
Major Challenge 7 Increasing compactness and capabilities by functional and physical systems integration	Open
7. Connectivity and Interoperability	
Major Challenge 1 Meeting future connectivity requirements leveraging heterogeneous technologies	Open
Major Challenge 2 Enabling nearly lossless interoperability across protocols, encodings and semantics	Open
Major Challenge 3 Ensuring Secure Connectivity and Interoperability	Open
8. Safety, Security and Reliability	
Major Challenge 1 Safety, security and privacy by design	Open
Major Challenge 2 Reliability and Functional Safety	Open
Major Challenge 3 Secure, safe and trustable connectivity and infrastructure	Open
Major Challenge 4 Privacy, data protection and human interaction	Open
9. Computing and Storage	
Major Challenge 1 Increasing performance at acceptable costs	Open
Major Challenge 2 Making computing systems more integrated with the real world	Open
Major Challenge 3 Making "intelligent" machines	Open
Major Challenge 4 Developing new disruptive technologies	Open
10. Process Technology, Equipment, Materials and Manufacturing for electronic components and systems	
Major Challenge 1 Developing advanced logic and memory technology for nanoscale integration and application-driven performance	Open
Major Challenge 2 Developing technology for Heterogeneous System-on-Chip (SoC) Integration	Open
Major Challenge 3 Developing technology for Advanced Packaging and Heterogeneous System-in-Package (SiP) integration	Open
Major Challenge 4 Extending world leadership in Semiconductor Equipment, Materials and Manufacturing solutions	Open

11. Long term vision	
New computing paradigms (Beyond CMOS)	Open
Process technology, equipment and materials	Open
Systems and componenets, architecture, design and integration	Open
Health & Wellbeing	Open
Energy	Open
Digital industry	Open
Transport and smart mobility	Open
Connectivity and interoperability	Open
Data science and Artificial intelligence	Open

Proposals working on technologies for Safety, Security and Reliability and Computing and Storage are strongly encouraged.

Proposals aiming at applications in the field of Health and Well-Being and Digital Life are strongly encouraged.

ECSEL JU and IMI2 JU initiated in 2017 the first discussions to explore possibilities for cooperation between both JUs in the domain of smart health along three thematic areas: sensors and diagnostics, imaging, and patient monitoring platforms. As a continuation of the first concrete interactions set up in 2018, participation of both JUs in their respective governance bodies (e.g. participation of ECSEL in SGG Digital Health & Patient Centric Evidence Generation, Immunology, etc.), interactions during topics design and consultation process, as well as dedicated workshops, are planned in 2019. The objective is to further support synergies between the JUs' activities and potential collaborations between projects of the respective JUs.

Proposals that cut across disciplines, support platform building, interoperability, establishment of open standards are particularly encouraged.

Aspects of value chain integration are important for the ECSEL programme and consortia are encouraged to submit proposals that take this into account.

Note that National priorities may be applicable to specific topics (refer to Chapter “COUNTRY SPECIFIC ELIGIBILITY RULES”).

Objectives of each topic can be found in the MASP 2019 (decision ECSEL GB 2018-14).

Specific Conditions

Mode: 2 phases: Project Outline (PO) and Full Project Proposal (FPP)

Publication date: 6 February 2019

Deadline PO phase: at 17:00:00 Brussels time on 7 May 2019

Deadline FPP phase: at 17:00:00 Brussels time on 18 September 2019

Type of action: ECSEL Research and innovation action

An ECSEL Research and Innovation Action (RIA) primarily consists of activities aiming to establish new knowledge and/or to explore the feasibility of a new or improved technology, product, process, service, method, tool or solution. For this purpose they may include applied research, technology development and/or method/tool and integration, testing and validation on a small-scale prototype in a laboratory or simulated environment. The activities have their centre of gravity at TRL 3-4.

Projects on particular topics such as the ones discussed in the Long Term Vision chapter of the MASP naturally have activities in the lower TRLs.

A RIA proposal is characterised by:

- Execution by a consortium that may consist of SMEs, large enterprises, universities, institutes, public organizations;
- Developing innovative technologies and/or using them in innovative ways;
- Targeting demonstration of the innovative approach in a relevant product, service or capability, clearly addressing the applications relevant for societal challenges in relation with the ECSEL Strategic Thrusts as outlined in the ECSEL MASP;
- Demonstrating value and potential in a realistic lab environment reproducing the targeted application;
- Having a deployment plan showing the valorisation for the ECSEL ecosystem and the contribution to the ECSEL goals and objectives.
- In order to maximize effective implementation of the ECSEL top-level objectives, the list of RIA proposals to be retained for public funding shall constitute a balanced portfolio of projects developing innovative technologies (as defined in the MASP in the essential technology section) and applying them in different domains as defined in the MASP (as defined in the application trust section).

Admissibility and Eligibility conditions:

Admissibility conditions: Refer to Annex 1

Eligibility conditions

All proposals must comply with the conditions set out in the **Rules for Participation contained in Regulation (EU) No 1290/2013 of 11 December 2013**. A proposal will only be considered eligible if:

- its content corresponds, wholly or in part, to the topic description for which it is submitted;
- it complies with the eligibility conditions set out below, depending on the type of action.

Type of action	Conditions for participation & eligibility for funding
ECSEL Innovation Action	At least three legal entities. Each of the three must be established in a different Member State or associated country. All three legal entities must be independent of each other. ⁵

Specific rules apply for eligibility for funding by ECSEL Participating State (refer to Annex 9).

Other specific eligibility rules for this call applicable at the FPP phase (proposals not respecting those maxima will be rejected, ie not evaluated):

Duration limit

- The maximum duration of the project is 3 years.

Size limit

- The maximum size of the project is 50 participants.

Capping

- The EU contribution per project is capped at 12M€ and the maximum contribution per partner in a project is limited to 40% of the total EU funding for the project.

Page Limits at the PO phase for RIA and IA ECSEL actions

- The page limit for the chapter on EXCELLENCE is 60 pages
- The page limit for the chapter on IMPACT is 60 pages
- The page limit for the chapter on IMPLEMENTATION is 60 pages

Page Limits at the FPP phase for RIA and IA ECSEL actions

- The page limit for the chapter on EXCELLENCE is 60 pages
- The page limit for the chapter on IMPACT is 100 pages
- The page limit for the chapter on IMPLEMENTATION is 100 pages.

The application of those page limits (font size etc) is further described in the Guide for Applicants. The selected proposals may be required to submit further information regarding the IMPLEMENTATION after selection.

Pages in excess of those maxima will not be considered in the evaluation.

⁵ Please see also the REGULATION (EU) No 1290/2013 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 December 2013 laying down the rules for participation and dissemination in "Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020)" and repealing Regulation (EC) No 1906/2006, OJ L 347/81, 20.12.2013.; particularly Articles 9 and 10 stipulating detailed conditions for participation and eligibility for funding.

Evaluation criteria, scoring and threshold

Evaluation procedure

The document ECSEL PAB 2018.31 contains the details of the evaluation and selection process.

Award criteria

The proposals will be evaluated along the following three evaluation criteria:

1. **Excellence:** The following aspects will be taken into account, to the extent that the proposed work corresponds to the relevant work plan topic description in the ECSEL MASP:
 - a. Clear reference to the topics and main challenges to which this proposal contributes;
 - b. Clarity and pertinence of the objectives and the expected results of the proposed work; with quantified objectives and results and reference baseline.
 - c. Credibility (soundness) of the concept (*what*), including inter--disciplinary considerations, where relevant; and where relevant use of stakeholder knowledge and gender dimension in research and innovation content (if the proposal addresses the gender dimension)
 - d. Credibility (soundness) of the proposed methodology (*how*);
 - e. Extent to which the proposed work is ambitious, is beyond the state of the art, and demonstrates innovation potential (e.g. ground-breaking objectives, novel concepts and approaches, new products, services or business and organisation models).
2. **Impact:** The extent to which the outputs of the project should contribute at the European and/or International level to:
 - a. The creation and exploitation of market potential and the gain of a competitive technology advantage (*Impact from participant perspective*);
 - b. Enhancing innovation capacity and integration of new knowledge (*Impact from participant perspective*);
 - c. Strengthening Europe (by future employment and industrial investment) and the competitiveness and growth of companies by developing innovations meeting the needs of European and global markets; and, where relevant, by delivering such innovations to the markets or introducing new technologies into the industry (*Impact from EU perspective*);
 - d. The exploitation of project results per participant and, where relevant, at project level; management of IPR and where relevant management of the research data (for proposals that do not opt out of the pilot on open research data).
 - e. The dissemination of project results, the communication of the project; the development of standards, where appropriate.

3. **Quality and efficiency of the implementation:** The following aspects will be taken into account:
- Quality and effectiveness of the work plan, including extent to which the resources assigned to work packages are in line with their objectives and deliverables;
 - Complementarity of the participants and extent to which the consortium as a whole brings together the necessary expertise
 - Adequate participation of large companies, SMEs, universities and research institutes. Appropriateness of the allocation of the tasks, ensuring that all participants have a valid role and adequate resources in the project to fulfil that role.
 - Appropriateness of the management structures and procedures, including risk and innovation management.

Scoring

PO Phase: The scores will be given using - half marks.

Criteria	Range	Weight (**)	Threshold (*)
Excellence	0-5		2.5
Impact	0-5		2.5
Quality and efficiency of the implementation	0-5		2.5
Total	0-15		11

(*) threshold applies to unweighted score

(**) at PO phase proposals are not ranked

FPP Phase: The scores will be given with a resolution of one decimal. Only proposals which successfully passed the PO phase are eligible to the FPP phase.

Criteria	Range	Weight (**)	Threshold (*)
Excellence	0-5	1	3
Impact	0-5	1	3
Quality and efficiency of the implementation	0-5	0.7	3
Total	0-15		11

(*) threshold applies to unweighted score

(**) the weight is only used to establish the ranking of the proposals

Selection criteria

Only in the FPP Phase

- Financial capacity:* In line with the Financial Regulation and the Rules for Participation. At the full project proposal stage, coordinators will be invited to complete a self-assessment using an online tool.
- Financial capacity:* Participants declared by their national authority in crisis according to the State-Aid rules as defined by EU regulation 651/2014 will not be eligible for EU funding
- Operational capacity:* As a distinct operation, carried out during the evaluation of the award

criterion 'Quality and efficiency of the implementation', experts will indicate whether the participants meet the selection criterion related to operational capacity, to carry out the proposed work, based on the competence and experience of the individual participant(s).

Priority order for proposals with the same score

PO Phase: No priority order is required at this stage

FPP Phase

Unless the call conditions indicate otherwise, the following method will be applied. As part of the evaluation by independent experts, a panel review will recommend a ranked list for the proposals under evaluation, following the scoring systems indicated above. A ranked list will be drawn up for every indicative budget shown in the call conditions. If necessary, the panel will determine a priority order for proposals which have been awarded the same score within a ranked list. The following approach will be applied successively for every group of *ex-aequo* proposals requiring prioritisation, starting with the highest scored group, and continuing in descending order:

- Proposals will be prioritised according to the scores they have been awarded for the criterion impact. When these scores are equal, priority will be based on scores for the criterion excellence.
- Then proposals that address topics not otherwise covered by more highly-ranked proposals will be considered to have the highest priority.
- Further *ex-aequo* are discussed by the panel of experts and scored on the merit of the proposal to fulfil the objectives of ECSEL JU taking into account elements such as the enhancement of the quality of the project portfolio through synergies between projects, balance between the type of partners, SME participation and gender balance. These factors will be documented in the report of the Panel.
- In the case of two projects with the similar score the PAB can decide to rank the project with the highest ratio: national funding to EU funding; before the other.

Indicative timetable for evaluation and grant agreement

Information on the outcome of the evaluation	Indicative date for the signing of grant agreements
Maximum 5 months from the final date for submission	Maximum 8 months from the final date for submission

Consortium agreement

In line with the Rules for Participation and the ECSEL JU Model Grant Agreement, participants are required to conclude a consortium agreement.

Reimbursement rate for establishing the EU contribution

Reimbursement rates as percentages on the eligible costs according to H2020.

Type of beneficiary	EU Contribution as % of the Eligible Cost according to H2020 (*)
Large Enterprise (for profit non SME)	25 %
SME (for profit SME)	30 %
University/Other (not for profit)	35 %

(*) beneficiaries may ask for a lower contribution

SMEs

- SMEs should be encouraged to participate to the proposals in a significant way.

Reimbursement rates for establishing national contributions

- Please refer to Chapter “COUNTRY SPECIFIC ELIGIBILITY RULES”).

Contribution to the Council Regulation (Article 4.1)

- The consortia proposing projects will strive for a ratio of the total national funding to the EU funding larger than 1.20.

Financial support to third parties

- Applicable for this call. Financial support to third parties is capped (limited to) 3% of the EU funding requested by the proposal.

Estimated expenditures

See Annex 3

SPECIAL TOPIC 1: ARCHITECTURES, COMPONENTS, AND SYSTEMS FOR VALIDATION/SIMULATION OF CONNECTED AUTOMATED VEHICLES

Specific scope and objectives

For safety validation of connected automated road vehicles (cars, busses or trucks), the development and implementation of innovative mission oriented ECS systems are necessary to improve robustness and quality assurance. Identification of the failure **risk** for each part in the ECS value chain. The systems and components allow the identification and management of risks over the entire ECS automotive value chain players including semiconductors, subsystem and systems behavior. The focus of the special topic will be on component design, subsystem and system integration up to sensor fusion.

Proposals should cover some of the listed aspects but are not limited to:

- Architectures, components, sub-systems, simulation in complex environments enabling virtual development and validation for automated driving.
- Methods and tools to validate the models used in virtual validation
- Metrics for quality assurance for ECS for automated vehicles. Definition and understanding of test coverage should be developed. Off-line supervised learning from fleet observations data should be possible
- Methods to significantly shorten the validation process with respect to an acceptable residual risk. For this a set of comprehensive traffic situation database supporting scenario tests (including maps and traffic information needed for simulations) as well as simulation models with special focus sub-systems, components and sensors/actuators used in automated vehicles

Eligibility, evaluation criteria, scoring and threshold

The same rules applies as described for the other topics of RIA Call with following exceptions:

ONLY ONE PROPOSAL WILL BE SELECTED.

Scoring

PO Phase: The scores will be given using - half marks.

Criteria	Range	Weight (**)	Threshold (*)
Excellence	0-5		3
Impact	0-5		3
Quality and efficiency of the implementation	0-5		3
Total	0-15		11

(*) threshold applies to unweighted score

(**) at PO phase proposals are not ranked

FPP Phase: The scores will be given with a resolution of one decimal. Only proposals which successfully passed the PO phase are eligible to the FPP phase.

Criteria	Range	Weight (**)	Threshold (*)
Excellence	0-5	1.5	3
Impact	0-5	1	3
Quality and efficiency of the implementation	0-5	0.7	3
Total	0-15		11

(*) threshold applies to unweighted score

(**) the weight is only used to establish the ranking of the proposals

More weight goes to the innovative/disruptive character of the technology.

Reimbursement rate for establishing the EU contribution as in RIA call

Reimbursement rates as percentages of the eligible cost according to H2020.

Type of beneficiary	EU Contribution as % of the Eligible Cost according to H2020 (*)
Large Enterprise (for profit non SME)	25 %
SME (for profit SME)	30 %
University/Other (not for profit)	35 %

(*) beneficiaries may ask for a lower contribution

Estimated expenditures

See Annex 3

SPECIAL TOPIC 2 EDGE COMPUTING*Specific scope and objectives*

Complex computing systems at the edge of the network, like in cyber-physical systems and industrial applications, suffer from the limitations of today's computing technologies in terms of e.g. scalability, power efficiency, reliability, security and performance. Proposal should address innovative hardware and software solutions that can provide significant advances in relevant areas. Proposals should cover one or more of the aspects described in the non-exhaustive list below:

- Test and experimentation of innovative computing architectures suitable for embedded and autonomous operation. Of particular interest, computing approaches **supporting Artificial Intelligence techniques**.
- Automated and semi-automated tools, possibly based on **Artificial Intelligence** techniques, to simplify the development of systems and applications at the edge of the network, and guarantee their quality while reducing the skill level required to the developer
- Techniques and tools to guarantee secure (including privacy aspects), safe **and time-critical behaviour** in complex and heterogeneous computing architectures for edge computing, while guaranteeing interoperability with the environment
- Innovative integration of hardware and software components for efficient operation in embedded edge applications with **very limited energy** budget

Evaluation criteria, scoring and threshold

The same rules applies as described for the other topics of RIA Call with following exceptions:

MAXIMUM TWO PROJECTS WILL BE SELECTED EACH PROJECT HAS A CAPPING ON THE EU FUNDING OF 5M€. PROJECTS WITH A HIGHER BUDGET WILL NOT BE CONSIDERED FOR EVALUATION,

Scoring

PO Phase: The scores will be given using - half marks.

Criteria	Range	Weight (**)	Threshold (*)
Excellence	0-5		3
Impact	0-5		3
Quality and efficiency of the implementation	0-5		3
Total	0-15		11

(*) threshold applies to unweighted score

(**) at PO phase proposals are not ranked

FPP Phase: The scores will be given with a resolution of one decimal. Only proposals which successfully passed the PO phase are eligible to the FPP phase.

Criteria	Range	Weight (**)	Threshold (*)
Excellence	0-5	1.5	3
Impact	0-5	1	3
Quality and efficiency of the implementation	0-5	0.7	3
Total	0-15		11

(*) threshold applies to unweighted score

(**) the weight is only used to establish the ranking of the proposals

More weight goes to the innovative/disruptive character of the technology.

Reimbursement rate for establishing the EU contribution as in RIA call

Reimbursement rates as percentages of the eligible cost according to H2020.

Type of beneficiary	EU Contribution as % of the Eligible Cost according to H2020 (*)
Large Enterprise (for profit non SME)	25 %
SME (for profit SME)	30 %
University/Other (not for profit)	35 %

(*) beneficiaries may ask for a lower contribution

Estimated expenditures

See Annex 3

Annex 7: Call 2019-3, CSA Health.E support action

Scope and objectives

This Coordination and Support action will support the Lighthouse Initiative Health.E

Specific Challenge

In February 2018, the ECSEL JU Governing Board adopted, with the Lighthouse Initiative Health.E, an important effort in the field of Health and Wellbeing. It was accompanied by a first project Position-II and by the setting up of a LIASE (Lighthouse initiative Advisory Service). The present call is for a Coordination and Support Action to support the Lighthouse Initiative in establishing the Lighthouse and its coordination with amongst other national activities in the field.

Scope:

Proposals should aim at coordinating the relevant stakeholders, project consortia, as well as policy makers, *in full collaboration with the LIASE*, addressing all of the following:

- Establish a communication platform for all stakeholders;
- Promote the objectives of the Lighthouse Initiative;
- Facilitate connections between the stakeholders;
- Help shaping the Lighthouse Initiative during and beyond H2020;
- Organize outreach events;
- Facilitate dialogue between all stakeholders;
- Help the networking of respective national and international activities in the field.

It is expected that such an activity is driven by a consortium led by organisations that are active in the field and have experience in coordination and support activities in the context of ECS.

The ECSEL JU considers that proposals requesting a contribution from the EU of up to EUR 0.5 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts. The indicative duration of the Coordination and Support Action is 24-30 months.

Expected Impact:

The following impacts are expected to be addressed:

- A goal-driven, federated effort towards a challenging industrial vision to generate European leadership in digitalisation of healthcare, and a strong potential for longer term technological innovation and economic exploitation.
- Involvement and commitment from key stakeholders.
- Increased transnational collaboration between the relevant European initiatives in the field.
- Spreading of excellence on digitalisation of healthcare across Europe.
- Increased awareness of European activities in this field.

Specific Conditions

Mode: 1 phase: Full Project Proposal (FPP)

Publication date: 6th February 2019

Deadline FPP phase: 27th March 2019

Admissibility and Eligibility conditions:

Admissibility conditions: Refer to Annex 1

Eligibility conditions

All proposals must comply with the conditions set out in the **Rules for Participation contained in Regulation (EU) No 1290/2013 of 11 December 2013**. A proposal will only be considered eligible if:

- its content corresponds, wholly or in part, to the topic description for which it is submitted;
- it complies with the eligibility conditions set out below, depending on the type of action.

Type of action	Coordination and Support Action
ECSEL CSA	At least one legal entity established in an EU Member State or Horizon 2020 associated country

Page Limits for CSA ECSEL actions

- The page limit for the chapter on EXCELLENCE is 30 pages
- The page limit for the chapter on IMPACT is 30 pages
- The page limit for the chapter on IMPLEMENTATION is 30 pages

The application of those page limits (font size etc) is further described in the Guide for Applicants. The selected proposals maybe required to submit further information regarding the IMPLEMENTATION after submission.

Evaluation criteria, scoring and threshold

Evaluation procedure

The H2020 rules will be followed, refer to Annex 1 1.

Scoring

Criteria	Range	Weight (**)	Threshold (*)
Excellence	0-5	1	3
Impact	0-5	1	3
Quality and efficiency of the implementation	0-5	1.3	3
Total	0-15		10

(*) threshold applies to unweighted score

(**) the weight is only used to establish the ranking of the proposals

Selection criteria

- *Financial capacity*: In line with the Financial Regulation and the Rules for Participation. At the full project proposal stage, coordinators will be invited to complete a self-assessment using an on-line tool.
- *Operational capacity*: As a distinct operation, carried out during the evaluation of the award criterion 'Quality and efficiency of the implementation', experts will indicate whether the participants meet the selection criterion related to operational capacity, to carry out the proposed work, based on the competence and experience of the individual participant(s).

Indicative timetable for evaluation and grant agreement

Information on the outcome of the evaluation	Indicative date for the signing of grant agreements
Maximum 5 months from the final date for submission	Maximum 8 months from the final date for submission

Consortium agreement

In line with the Rules for Participation and the ECSEL JU Model Grant Agreement, participants are required to conclude a consortium agreement.

Reimbursement rate for establishing the EU contribution

Reimbursement rates as percentages of the eligible cost according to H2020.

Type of beneficiary	EU Contribution as % of the Eligible Cost according to H2020 (*)
Large Enterprise (for profit non SME)	100 %
SME (for profit SME)	100 %
University/Other (not for profit)	100 %

(*) beneficiaries may ask for a lower contribution

Financial support to third parties

NOT applicable for this call.

Estimated expenditures

See Annex 3

Annex 8: Public Procurements/Studies

In 2019, the ECSEL JU will carry out a number of activities via calls for tenders (i.e. public procurement) for a total indicative amount of 0.40 M€. Recourse to existing Framework Contracts will be envisaged where possible. These procurement activities (one or more) are covering subjects of a strategic nature for the ECSEL JU, supporting more specifically the ECS technology impact on societal and economic parameters over time.

The activities in 2019 are a continuation of the activities planned in the Work Plan 2018

For each of the procurements, detailed Terms of Reference will be drafted. The following indicative list of procurements is currently foreseen:

Subject (Indicative Title)	Indicative Budget (€)	Expected type of procedure	Schedule Indicative
ECS technology impact study on societal challenges, creating economic growth and employment related to and derived from the 3 programmes (ENIAC, ARTEMIS, ECSEL)	400 000 €	Open procedure	Q1-Q2

The final budgets awarded to actions implemented through procurement procedures may vary by up to 20% of the total value of the indicative budget.

9. COUNTRY SPECIFIC ELIGIBILITY RULES

The conditions and rules expressed in the next Participating State sections apply only to the participants of that Participating State in particular as to their eligibility for national funding or as to the attribution of national funding.

Austria

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
AUSTRIA	Vierbauch	Doris	+43 (0)5 7755-5024	doris.vierbauch@ffg.at

National Funding Agency for Austria: [FFG](#)

The full version of the national eligibility criteria can be found at: www.ffg.at/ecsel

Legal requirements for the eligibility of a partner or a project**1) Type or nature of participants**

Legal entities, partnerships and sole traders that are not part of the Austrian federal administration are eligible to receive funding. The following are eligible for funding:

- Companies of any legal form
- Institutions of research and knowledge dissemination
 - Universities⁶
 - Universities of applied sciences
 - Non-university research institutions
 - Technology transfer institutions, innovation agents and other research-oriented organisations such as associations with a relevant purpose
- Other non-commercial institutions
 - Local authorities⁷ and autonomous bodies
 - Non-profit making organisations such as NPOs⁸

1) Legal, administrative and financial conditions

The national application of Austrian partners has to be submitted electronically via eCall: <https://ecall.ffg.at> before the deadline of the project outline submission and before the deadline of the Full Project Proposal submission respectively.

FFG experts will check the financial viability (credit rating and liquidity) of the participating enterprises. It is not possible to provide funding to undertakings in difficulty⁹. Austrian enterprises have to provide the following documents:

- Annual statement of accounts (balance sheet, profit and loss account) from the past 2 financial years
- [Declaration of SME Status](#) for associations and sole traders

⁶ The smallest possible unit of a university is an institute of the university or a organisation comparable to a UOG 2002/§20 organisation unit. It is a precondition that the participating organisation unit (institute or comparable unit) is authorised with corresponding mandate according to UOG 2002/§ 27. Units below (for example working groups) can not act as project partners.

⁷ Activities of local authorities falling within their statutory mandate are not eligible for funding.

⁸ "Non-profit making organisations" do not distribute profits to their owners, members or other natural persons or legal entities in accordance with their legal status or articles of association.

⁹ Undertakings in difficulty as defined in the General block exemption Regulation (EU) N°651/2014 of 17 June 2014

ED 2019.268

The company size is to be determined according to the SME definition as specified by EU competition law: [information on SME definition](#).

3) Consortium configuration

The ratio of the project volume (costs) between Austrian companies and Austrian research organisations has to be 1.5 to 1 or higher within each project.

4) Other conditions

All Topics and Major Challenges of the MASP and Annual Work Plan 2019 are eligible for national funding in Call 2019-1 and Call 2019-2. A certain amount of the available national budget is earmarked for the funding of national priorities:

- Being a national priority for national funding the key application “Transport & Smart Mobility” should receive a minimum funding of 3 Mio. €.
- Being a national priority for national funding the key application “Digital Industry” should receive a minimum funding of 3 Mio. €.
- Projects addressing the national priorities “Digital Industry” and “Transport & Smart Mobility” should take into account the ECSEL lighthouse initiatives Mobility.E and Industry4.E
- Priority is also given to projects addressing multi physical modelling and simulation for heterogeneous integration

Austria intends to reach a good balance between hardware oriented projects and software oriented projects.

The participation (total requested national budget) of each single Austrian institution has to be balanced in relation to the total national commitment. Project participations of Austrian partners are eligible for national funding only if they comprise mainly R&D activities.

Eligibility of the costs and funding

1) Eligibility of costs

The eligibility of costs is in accordance with the national rules on eligible costs. For details on the eligibility of costs see the Cost Guidelines Version 2.1: <https://www.ffg.at/recht-finanzen/kostenleitfaden/version-21>

2) Funding rates

	Percentage of the national subsidy to the beneficiaries ¹⁰			
	Large Enterprises, Groups and Associations of Enterprises	Medium Enterprises ¹¹	Small Enterprises ^{Error! Bookmark not defined.}	Public Research Institutes and Universities
Experimental development (call 2019-1, IA)	up to 20 %	up to 25 %	up to 35 %	up to 30 %
Industrial Research (call 2019-2, RIA)	up to 25 %	up to 30 %	up to 40 %	up to 35 %

Additional Information to be provided at submission and other conditions

- **Registration at the eCall System of the FFG** at <https://ecall.ffg.at/> for **Project Outline stage AND Full Project Proposal stage** – completion of all relevant forms.
- Upload of relevant documents in the eCall: balance sheets, “ECSEL 2019 work package description for Austrian partners” for FPP, ...

¹⁰ calculated on national eligible costs

¹¹ With regard to the size of companies, the current definitions of SMEs given in the EU competition law are applicable. (Definition of small and medium-sized enterprises and of independent businesses in accordance with recommendation 2003/361/EC of the Commission dated 6 May 2003, (ABl. L 124 of 20.5.2003, pp. 36-41)

http://ec.europa.eu/enterprise/policies/sme/files/sme_definition/sme_user_guide_de.pdf

Belgium

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
BELGIUM				
Flanders	DEPREZ	Francis	+32 (0) 2 432 4301	francis.deprez@vlaio.be
	SILEGHEM	Maarten	+32 (0) 2 432 4202	maarten.sileghem@vlaio.be
Brussels-Capital Region	Da Silva	Marianne	+32 (0) 2 600 5020	mdasilva@innoviris.brussels

Funding authority websites: Flanders: www.vlaio.be

Additional for ECSEL:

www.vlaio.be/nl/subsidies-financiering/oo-bedrijfsprojecten/wat/subsidies-voor-onderzoek-ontwikkeling-en-7

Brussels: www.innoviris.be

Legal requirements for the eligibility of a partner or a project

1) Type or nature of participants

For Flanders:

The participant must be a company established in the Flemish region, with a sustainable economic activity in Flanders, based upon a sound business model.

Flemish Strategic Research Centres (SOC) can be independent legitimate participants.

Research centres and universities can only be legitimate participants in projects compliant to the Flemish O&O-subsidy conditions

For Brussels:

Participants in ECSEL projects wishing to receive funding from Innoviris must be companies, universities or research organisations (in accordance with the definitions provided for by the General Block exemption Regulation for State Aid and the Brussels legislation regulating the action of Innoviris) established on the territory of the Brussels-Capital Region and performing RDI activities within the project.

However, universities and research organisations are only eligible if, as part of the project, they are collaborating with a Brussels-based company.

Please note that no individual partner alone is allowed to support more than 70% of the project's cost.

2) Legal, administrative and financial conditions

For Flanders:

The participant can have no other public funding for the same activities.

In case of a multinational company, the application needs to be done by the Flemish legal entity or subsidiary.

Research centres and universities may participate in accordance to the Flemish O&O-subsidy conditions.

For the independent project participation of a research centre or university, the legitimate status of Strategic Research Centre (SOC) is mandatory. A specific agreement with VLAIO is compulsory. Flemish governmental funding outside HERMES fund applies.

For industrial participants "State Aid for Rescuing and Restructuring Firms in Difficulty" is applicable.

For Brussels:

For Brussels enterprises wishing to benefit from Innoviris funding, the financing conditions are as follows.

- develop all or some of its R&D activities within the territory covered by the Brussels-Capital Region
- present an innovative RDI project likely to have a favourable impact on employment and/or sustainable development of the Brussels-Capital Region
- show one's ability to finance one's share in the project
- have fulfilled its obligations in the context of previous support initiatives allocated by the Region.

No other public funding (except the European contribution provided by the JU) can be received by the beneficiaries for the activities performed within the project. Any other funding must be declared to Innoviris.

3) Consortium configuration

For Flanders:

Project application is done by either a company with a legal entity in Flanders or a legitimate Strategic Research Centre.

Projects need to be primarily executed to the benefit of the applying entities.

Applications compliant to the status of Strategic Research Centre need to be independent in Flanders.

For Brussels:

ED 2019.268

Participants in ECSEL projects wishing to receive funding from Innoviris must be a company or a research organisation

Research organisations will only be awarded a regional financial support if within the project they collaborate with a Brussels-based enterprise.

4) Other conditions

For Flanders:

Participants need to prove adequate (financial) means to execute the project and a potential to use the results.

The project should yield socio-economic effects which can be quantified by activities or investments by the Flemish participants after the completion of the project, in accordance with the ruling detailed in the document (except for project applications by Strategic Research Centres). Conditions are compliant to the impact conditions of O&O, detailed on:

www.vlaio.be/nl/subsidies-financiering/ontwikkelingsproject/wie-komt-aanmerking-en-onderwelke-voorwaarden

www.vlaio.be/nl/subsidies-financiering/onderzoeksproject/voorwaarden

Project qualification can be either ‘research’ or ‘development’ independent on the ECSEL call (IA, RIA of additional calls).

In case of potential military applications (including dual use), funding can be restricted.

For Brussels:

Exploitation and valorisation conditions:

Brussels-based participants must demonstrate their capability to carry out the tasks assigned to them in the project, exploit the results of the latter and the project's likelihood to have a positive impact on the Brussels-Capital Region's economy, employment and/or sustainable development.

Eligibility of the costs and funding

1) Eligibility of costs

For Flanders

Eligibility of costs is in accordance with the ruling of the O&O bedrijfssteun of Flanders, detailed in the documents available on:

www.vlaio.be/nl/subsidies-financiering/ontwikkelingsproject/financiele-steun-voor-een-ontwikkelingsproject

www.vlaio.be/nl/subsidies-financiering/onderzoeksproject/steunbedrag

Eligible cost calculation will be done on the costs formulated in the ECSEL application.

In case of stand-alone Strategic Research Centre projects, ECSEL eligible cost system (H2020) is applicable for both ECSEL and national funding

For Brussels

For ECSEL projects, the Brussels-Capital Region will align on the JU and will therefore not apply additional rules, such as the regional rules applicable for individual RDI projects, on the eligibility of costs. The eligible costs will therefore be those retained by the JU for the European contributions in accordance with the Horizon 2020 Rules for Participation.

2) Funding rates

For Flanders

Type of Organisation Type of activity	Percentage of the national subsidy to the beneficiaries (1)			
	Large Enterprises, Groups and Associations of Enterprises	Medium Enterprises	Small Enterprises	Public Research Institutes and Universities (2) (3)
Industrial/Applied Research projects	60%-JU	60%-JU	60%-JU	= JU (1:1 ratio)
Experimental development projects	35%-JU	45%-JU	55%-JU	= JU (1:1 ratio)

Notes:

1. These percentages are maxima and given under the constraints that the project proposal fulfils the ECSEL eligibility criteria and that no participant in the ECSEL project holds more than 70% of the total (international) ECSEL project budget.
2. The funding of stand-alone Strategic Research Centre contributions is determined by specific project related agreement with IWT. These projects have no specific funding limit. The eligible costs for these projects may be set equal to the ECSEL eligible costs.
3. The funding of public research institutes and universities in projects initiated by industrial participants in Flanders, is determined by the general principles of O&O-bedrijfsprojecten as published on the websites

www.vlaio.be/nl/subsidies-financiering/ontwikkelingsproject/wat-is-een-ontwikkelingsproject & www.vlaio.be/nl/subsidies-financiering/onderzoeksproject/wat.

The funding level of the participating (initiating) industrial partner applies.

Except for stand-alone Strategic Research Centre projects, funding is limited to € 3M per project. Total funding for not stand-alone Strategic Research Projects may be limited to € 4M. Funding to industrial participants may be limited if combined R&D funding (national and international) to an industrial participants exceeds IWT applicable ruling.

For Brussels:

Type of Organisation Type of activity	Percentage of the national subsidy to the beneficiaries (1)			
	Large Enterprises, Groups and Associations of Enterprises	Medium Enterprises	Small Enterprises	Public Research Institutes and Universities
Industrial/Applied Research projects	65%-JU%	75%-JU%	80%-JU%	100%-JU%
Experimental development projects	40%-JU%	50%-JU%	60%-JU%	100%-JU%

Notes:

These percentages are maxima and given under the constraints that the project proposal fulfils the ECSEL eligibility criteria and that no participant in the ECSEL project holds more than 70% of the total (international) ECSEL project budget.

Project funding for Brussels may be limited to € 0,5M.

Additional Information to be provided at submission and other conditions

For Flanders:

Additional information is mandatory as of the PO-phase. Application according the O&O-application:

ED 2019.268

www.vlaio.be/nl/subsidies-financiering/ontwikkelingsproject/aanvraag-en-evaluatieprocedure

www.vlaio.be/nl/subsidies-financiering/onderzoeksproject/aanvraagprocedure

is mandatory (endoring the application compulsory by ECSEL FPP closing date). European application format is requested. Strating the application procedure (without endorsement) is recommended as of the ECSEL PO phase.

For Brussels

The submission of a Part C containing additional information is compulsory for all Brussels partners. The Part C template is available on the INNOVIRIS website <http://www.innoviris.be> (Financial Aid to enterprises / European Programmes/ECSEL).

ED 2019.268

Bulgaria

National contact person for ECSEL JU programme

Country	Name and surname	Telephone	E-mail
Bulgaria	Emil Komatichiev	+359(02)9407255	e.komatichiev@mee.government.bg

Czech Republic

National contact persons for the ECSEL programme

Country	Name and surname	National funding authority	E-mail address
Czech Republic	Mr. Lukáš Levák	Ministry of Education, Youth and Sports	lukas.levak@msmt.cz
	Mr. Vávra Michal		Michal.Vavra@msmt.cz

The National Funding Authority (NFA) of the Czech Republic for the ECSEL programme is the **Ministry of Education, Youth and Sports** (hereinafter referred to as the “MEYS”), Department for Research and Development – Unit for European Research Area. Principal legal regulations and documents on public funding of research, development and innovation in the Czech Republic are available on the websites www.msmt.cz/vyzkum-a-vyvoj and www.vyzkum.cz.

Legal requirements for the eligibility of a partner or a project

1) Type or nature of participants

Public universities, public research institutes, private research organisations and/or other legal entities that can be classified as “**research and knowledge-dissemination organisations**” (hereinafter referred to as the “research organisation”) in accordance with the [Commission Regulation \(EU\) No 651/2014 of 17 June 2014](#) declaring certain categories of aid compatible with the internal market in application of Articles 107 and 108 of the Treaty (Chapter I, Article 2, Paragraph 83).

“**Enterprises**” – Small, medium and/or large-sized enterprises as defined by the Commission Regulation (EU) No 651/2014 of 17 June 2014 declaring certain categories of aid compatible with the internal market in application of Articles 107 and 108 of the Treaty (Chapter I, Article 2, Paragraphs 2 and 24), listed in Business Register of the Czech Republic and performing research, development and innovation in the Czech Republic.

2) Legal, administrative and financial conditions

Public funding of research, development and innovation in the Czech Republic is provided pursuant to the **Act No. 130/2002 Coll. on the Support of Research, Experimental Development and Innovation from Public Funds** and on the Amendment to Some Related Acts (hereinafter referred to as the “Act on the Support of Research, Experimental Development and Innovation”).

3) Consortium configuration

The Czech fraction of an ECSEL project consortium must be configured from at least one enterprise and at least one research organisation, both these entities fulfilling the requirements stipulated in the clause 1 “Type or nature of participants”, thus complying with the Public-Private-Partnership principle.

4) Other conditions

It is obligatory that a Czech participant involved in an ECSEL project consortium proves its compliance with the eligibility criteria and fulfilment of the conditions stipulated by § 18 of the Act on the Support of Research, Experimental Development and Innovation by the means of a **Statutory Declaration**. The required procedures are described and the Statutory Declaration template is available on the websites <http://www.msmt.cz/vyzkum-a-vyvoj-2/vyzva-k-predkladani-navrhu-projektu-ecsel-v-roce-2019>

Eligibility of the costs and funding

1) Eligibility of costs

Eligible costs for a Czech participant involved in an ECSEL project consortium are defined by:

Regulation (EU) No 1290/2013 of the European Parliament and of the Council of 11 December 2013 laying down the rules for participation and dissemination in "Horizon 2020 – Framework Programme for Research and Innovation (2014 – 2020)" and repealing Regulation (EC) No 1906/2006 (Article 26).

Regulation (EU, EURATOM) No 966/2012 of the European Parliament and the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union and repealing the Council Regulation (EC, Euratom) No 1605/2002 (Article 126).

The **maximum indirect costs** are 25 % (flat rate) of the direct costs without the sub-contracting.

2) Funding rates

The MEYS consider the Research and Innovation Actions (RIA) being industrial research projects and the Innovation Actions (IA) being experimental development projects. Given these circumstances, the maximum intensity of the MEYS aid will be derived from the Commission Regulation (EU) No 651/2014 of 17 June 2014 declaring certain categories of aid compatible with the internal market in application of Articles 107 and 108 of the Treaty (Chapter III, Section 4, Article 25, Paragraph 5).

The aid intensity for industrial research and experimental development will not be increased by the MEYS although the Czech participants in an ECSEL project consortium meet the conditions stipulated by the [Commission Regulation \(EU\) No 651/2014 of 17 June 2014](#) declaring certain categories of aid compatible with the internal market in application of Articles 107 and 108 of the Treaty (Chapter III, Section 4, Article 25, Paragraph 6). The aid intensities stipulated in the table below are definitive.

Funding rates	Large enterprises	Small and medium sized enterprises	Research organisations*
Research and Innovation Actions (RIA) projects = Industrial Research	50 % including EU contribution	70 % including EU contribution	100 % including EU contribution

Innovation Actions (IA) projects = Experimental Development	20 % + EU contribution (up to 40 %)	25 % + EU contribution (up to 50 %)	100 % including EU contribution
--	---	---	------------------------------------

* **The aid intensity for research and development activities carried out by the research organisation might be at the level of 100 % (EU and the Czech national contribution included)** only if the research organisation entirely complies with the requirements stipulated by the Article 2.1.1 “Public funding of non-economic activities” of [Framework for State Aid for Research and Development and Innovation \(2014/C 198/03\)](#) and proves it by the means of a **Statutory Declaration** submitted to the MEYS using the form available on websites <http://www.msmt.cz/vyzkum-a-vyvoj-2/vyzva-k-predkladani-navrhu-projektu-ecsel-v-roce-2018>.

If a legal entity does not comply with all the requirements stipulated for the research organisation, it will be considered as an enterprise (small, medium or large) and the aid intensity will be then adjusted appropriately by the MEYS.

Additional Information to be provided at submission and other conditions

All the information concerning additional requirements stipulated by the MEYS for the ECSEL program are available on websites <http://www.msmt.cz/vyzkum-a-vyvoj-2/vyzva-k-predkladani-navrhu-projektu-ecsel-v-roce-2018>.

ED 2019.268

Denmark

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
Denmark	Vittrup	Jens Peter	+45 6190 5023	Jens.peter.vittrup@innofond.dk

Finland

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
Finland	Ahola	Kimmo	+358 50 5577 756	kimmo.ahola@businessfinland.fi
	Leino	Kari	+358 50 5577 698	kari.leino@businessfinland.fi

Finland's national public funding authority for ECSEL is Innovation Funding Agency Business Finland. Business Finland funding principles can be found at:

www.businessfinland.fi/en (English)

www.businessfinland.fi (Finnish)

Legal requirements for the eligibility of a partner or a project

1) Type or nature of participants

- Companies (enterprises)
- Industry associations
- Universities and polytechnics
- Public research institutes and similar research organizations

2) Legal, administrative and financial conditions

- A company has considerable industrial or R&D&I activities in Finland
- A company has a clear financial record and has the financial capability to cover its own expenses during the project (e.g. the company must show positive equity at decision taking)

3) Consortium configuration

- A public research institute, university or a polytechnic shall be accompanied in the project by at least two eligible companies in Finland
- Research and Innovation Actions (RIA) projects: The project volume (costs) of public research institutes, universities and polytechnics from Finland combined shall not exceed 50 % of the total volume (costs) of Finnish participants based on national (Business Finland) funding rules
- Innovation Action (IA) projects: The project volume (costs) of public research institutes, universities and polytechnics from Finland combined shall not exceed 30 % of the total volume (costs) of Finnish participants based on national (Business Finland) funding rules

4) Other conditions

- The project participation should have sufficient positive impact on the Finnish economy or society.

- Priority is given to the topics that are not covered by already funded ECSEL projects.

Eligibility of the costs and funding for ECSEL Call 2019

1) Eligibility of costs

Eligibility of the costs is in accordance with the national (Business Finland) funding rules.

2) National public funding

Type of activity	Large Enterprises	Small and Medium Enterprises	Public Research Institutes and Universities
Research and Innovation action	20 % grant	35 % grant	38 % grant
Innovation Action	20 % grant or Max. 50 % loan	35 % grant or Max. 50 % loan	38 % grant

Additional Information to be provided at submission and other conditions

Every participant in Finland should submit a separate Business Finland funding application within 14 days of ECSEL call closure date.

France

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
France	CAPY	Loïc	01 79 84 32 61	loic.capy@finances.gouv.fr contact.ecsel@finances.gouv.fr

Website reference:

www.entreprises.gouv.fr/secteurs-professionnels/initiatives-technologiques-conjointes-jti

Legal requirements for the eligibility of a partner or a project

The items published in French in the following text are the official national eligibility criteria for funding. The items published in English are a translation. The text in French takes precedence over the text in English.

The French applicants of an ECSEL 2019 project proposal have to seek a national funding to become eligible :

- through an existing national program such as Nano 2022, if they are beneficiaries of it, and under the conditions of this program. In the case of Nano2022, it is reminded that only the already identified team leaders are allowed to bid in the framework of this program.
 - through a national or regional call, with respect to the specific conditions of this call.
- Applicants to a funding through Ecsel have to respect all the criterias listed in the present document.

Les porteurs français d'une proposition de projet pour ECSEL 2019 doivent, pour être éligibles, rechercher un financement national :

- au titre d'un programme national existant tel que Nano2022, s'ils en sont bénéficiaires et dans les conditions prévues par ce programme. Dans le cas de Nano2022, il est rappelé que seuls les chefs de file identifiés dans le programme sont habilités à déposer des dossiers au titre de ce programme ;
- au titre d'un appel à projets national ou régional, en respectant les conditions spécifiques à cet appel.

Les candidats sollicitant un financement au titre d'Ecsel doivent respecter l'ensemble des critères énumérés dans le présent document.

Partners must contact the national correspondent before or right after the « Project Outline » submission. The aim of this contact is to direct the requestor to the most relevant financing mechanism, and for the Nano2022 team leaders, to check the conformity of the project with the strategic lines of the program.

Les partenaires doivent impérativement contacter le correspondant national avant ou juste après le dépôt de la « Project Outline ». L'objectif de ce contact est d'orienter le demandeur vers le guichet le plus adapté, et pour les chefs de file Nano2022 de déterminer la conformité du projet avec les axes stratégique du programme.

The present criteria are without prejudice to the application of legal rules and regulations concerning the allocation of public funding by the French State.

Les présents critères ne préjugent pas de l'application des règles légales et réglementaires en vigueur concernant l'attribution de subventions par l'État français.

1) Type or nature of participants

- Private and public companies of all sizes
 - Universities
 - Research Institutes
-
- Entreprises privées ou publiques de toutes tailles
 - Universités
 - Instituts de recherche

2) Legal, administrative and financial conditions

The work to be done by the partners must neither have already benefited from public funding (excluding generic fiscal aid) nor be redundant with similar projects already funded by French authorities.

Les travaux ne doivent pas déjà avoir fait l'objet d'un soutien public (hors mesures fiscales génériques) ni être en redondance avec des travaux similaires financés par les autorités françaises.

The financial situation of each private partner must be validated (financial structure, cash flow, operating accounts) and considered compatible (activity volume, workforce, financial capability) with the amount and the content of the eligible costs as well as with the amount of the demanded aid and of the already granted public aid.

La situation financière de chaque partenaire privé doit être validée (structure financière, flux de trésorerie, compte d'exploitation) et jugée compatible (volume d'activité, moyens humains, moyens financiers) avec le montant et le contenu de l'assiette des dépenses ainsi qu'avec le montant de l'aide sollicitée et des aides publiques déjà accordées par ailleurs.

3) Other conditions

The partners must contribute to achieving one or several significant technological breakthroughs with the objective of designing or improving products, services or processes, and must set-up a capability to make these products or processes. These ones must have a sufficient potential impact on their activity in the European Union and in particular in France, in terms of employment, competitiveness, value creation and growth at short or medium-term.

Les partenaires doivent contribuer à lever un ou plusieurs verrous technologiques significatifs en vue de concevoir ou d'améliorer des produits, services ou procédés, ainsi que mettre en place les moyens de réalisation de ces produits et procédés. Ceux-ci doivent présenter pour eux des perspectives suffisantes de retombées sur le territoire de l'Union européenne, et notamment en

France, en termes d'emplois, de compétitivité, de création de valeur et d'activité économique à court ou moyen terme.

The tasks assigned to partners must be well specified and should consist in « experimental development » or « industrial research » as defined in the R&D&I framework. In accordance with the R&D&I framework, the aid to each company must have an incentive effect on its R&D&I activities.

Les travaux réalisés par les partenaires doivent être bien spécifiés et pouvoir être considérés comme « développement expérimental » ou « recherche industrielle » au sens de l'encadrement des aides à la RDI. Conformément à l'encadrement des aides à la RDI, l'aide à chaque entreprise doit avoir un effet d'incitation sur ses activités de RDI.

Eligibility of the costs and funding

1) Eligibility of costs

The French eligible costs will be based on the amount obtained using the financial data sheets available on the aforementioned web site, which will have to be filled by each French partner.

Les coûts éligibles français seront basés sur le montant obtenu en remplissant les annexes financières des autorités françaises, disponibles sur le site web précédemment mentionné.

2) Funding rates

The reference rates for the French public funding are the following :

Les taux de référence pour l'aide nationale française sont les suivants :

Type of partner	Calls RIA (Research and Innovation Actions) & IA (Innovation Actions)
Industry	15%
SME	20%
RTO	15%
Univ, non profit	60%

These rates will be applied nominally for projects funded under the Nano2022 framework. For projects whose national public funding originate from other programs or national/regional calls,

these rates might be adapted according to the conditions of these financing mechanisms, who could also take into account the existence of a European co-funding.

Ces taux seront appliqués en l'état pour les projets financés au titre du programme Nano2022. Pour les projets dont le financement national serait obtenu au titre d'autres programmes ou guichets nationaux / régionaux, les taux sont susceptibles de varier selon les conditions propres aux dispositifs dont les financements seront issus, et à la prise en compte par ces dispositifs de l'existence d'un cofinancement européen.

Additional Information to be provided at submission and other conditions

In parallel to the documents sent to the ECSEL JU, the French leader of each submitted project will have to send to the French public authorities a file containing **all documents mentioned on DGE's web site previously mentioned, for each French partner in the project.**

En complément du dossier de soumission du projet, transmis à l'entreprise commune, le responsable français de chaque projet doit adresser aux autorités françaises un dossier contenant **l'ensemble des documents spécifiés sur le site web de la DGE précédemment indiqué, et ceci pour chacun des partenaires français.**

The application submitted must **contain all elements which will allow French authorities to assess and justify the eligibility of the aid** asked by the partners. In particular, the application must include, besides the documents required for application to the Joint Undertaking call and all documents listed on the reference website, **information specifying for each partner the potential economic impact in the European Union in terms of employment, competitiveness, value creation and economic activity, as well as the positioning of the partner on the targeted markets and the timeframe of this impact.**

Le dossier soumis doit **présenter les éléments permettant aux autorités françaises d'apprécier et de justifier l'admissibilité de l'aide** demandée par les partenaires. En particulier, le dossier doit comprendre, outre les documents requis au titre de l'appel à projets de l'entreprise commune et les documents spécifiés sur le site internet de référence, **une fiche précisant, pour chaque partenaire, les perspectives de retombées économiques sur le territoire de l'union européenne, en termes d'emploi, de compétitivité, de création de valeur et d'activité économique, ainsi que le positionnement du partenaire sur les marchés visés et l'horizon temporel de ces retombées.**

Germany

National contact people for the ECSEL JU programme

Country	Name	First name	Tel	E-mail
Germany	General information on funding under Horizon 2020			
	Schröder	Sabine	+49 30 670 55 772	Sabine.Schroeder@dlr.de

Germany	Specific information on national funding applications for ECSEL			
	Kaltschew	Julia	+49 30 310078 151	Julia.Kaltschew@vdivde-it.de
	Rittner	Johannes	+49 30 310078 230	Johannes.Rittner@vdivde-it.de

NOTE: The national call for proposals for German federal funding for ECSEL participants is available via the URL given below. It contains additional information on contact points for *Länder* funding. There will be a technical update of the call for 2019 without any substantial changes.

Applicable documents

- The German Federal Government's Framework programme for Research and Innovation 2016-2020 „Mikroelektronik aus Deutschland – Innovationstreiber der Digitalisierung“: https://www.bmbf.de/pub/Rahmenprogramm_Mikroelektronik.pdf (English translation: <http://www.elektronikforschung.de/dateien/publikationen/research-programme-microelectronics-from-germany.pdf>).
- Strategic framework „Die Hightech-Strategie 2025 – Köpfe.Kompetenzen.Innovationen“: https://www.bmbf.de/pub/Forschung_und_Innovation_fuer_die_Menschen.pdf (English version forthcoming)
- Federal funding will be awarded by the Bundesministerium für Bildung und Forschung (BMBF) according to a national ECSEL call accessible via <https://www.elektronikforschung.de/foerderung/europaeische-foerderung/ecsel>
- Certain *Länder* provide regional co-funding for project work carried out there. This currently applies to:
 - Saxony (see https://www.bmbf.de/files/BMBF-Sachsen_Gemeinsame_Erklaerung_zur_Foerderung_in_ECSEL.pdf). The Saxon funding decision will be based on the criteria listed in the Annex of the *Sächsische ECSEL-Förderrichtlinie* <http://www.revosax.sachsen.de/vorschrift/14170>.
 - Thuringia

Up-to-date information on participating *Länder*, any applicable regional calls for funding, and specific application forms is provided via <https://www.elektronikforschung.de/foerderung/europaeische-foerderung/ecsel>

Criteria and rules for the eligibility of a partner or a project

1) Type or nature of participants

- Commercial companies in Germany
- State and non-state institutions of higher education and non-university research establishments in projects with commercial companies in Germany

2) Legal, administrative and financial conditions

A contribution of German partners within the Work Plan 2019 is nationally eligible for funding by the BMBF if the contribution of the national partners focuses on research in electronics and smart systems, including hardware- and software-intensive cyber-physical systems. Details are specified in the national ECSEL call (see above).

Partners from certain *Länder* will typically receive combined funding from the BMBF and the respective *Land* based on administrative agreements between these two parties.

- It is required that project proposals contribute significantly to “Die Hightech-Strategie 2025 - Köpfe.Kompetenzen.Innovationen”. They should address at least one of the strategic research focuses and/or application focal points given in the above-mentioned framework programme “Microelectronics from Germany – Driver of innovation for the digital economy”, sections 3.1 “Expanding technology expertise” and 3.3 “Tackling future tasks using microelectronics”.
- The work planned by the partners must neither have already benefited from public funding nor be redundant with similar projects that are already being funded or that are under consideration in another programme.
- R&D&I projects shall relate to societally relevant questions. An essential ambition of funding is to strengthen the position of project partners and companies located in Germany which aim to exploit research results in Germany and Europe, as well as to accelerate technology transfer from the pre-competitive area into practical applications. Projects should illustrate the added value of R&D&I results on the basis of an appropriate application, e.g. a demonstrator.
- Funding will be allocated to R&D&I projects which promise a lasting benefit for Germany and Europe in terms of safeguarding and creating employment, maintaining competitiveness and increasing added value. Projects with a greater national and European added value are a greater priority for funding.
- Reimbursement rates requested in national grant applications should correspond to the TRL of the planned work and the type of applicant. Each national grant application will be assessed individually to determine the maximum total reimbursement rate as well as the nationally eligible costs/expenditures.
- To be eligible for national funding, the overall effort of any project with participants from Germany should be at least 100 person years. Additionally, German participation in this project should be at least 10% of the overall effort. Moreover, each German partner should contribute substantially to the effort of the German consortium.
- The Project Outline (PO) and Full Project Proposal (FPP) submitted to the ECSEL JU shall include a fully completed “National Grant” table. The “National Grant” table shall include the budget (including national funding request) established according to the rules for cost eligibility and amounts applicable in Germany for purely national funding. Where a single legal entity (“organisation” in Part A of the ECSEL application form) requests funding for activities to be carried out at one or several organisational units (“departments”) that have a high degree of autonomy and/or are located in a different *Land* from the organisation, the budget for each such department shall be listed separately in the “National Grant” table. Please refer to

<https://www.elektronikforschung.de/foerderung/europaeische-foerderung/ecsel> where a template for the “National Grant” table is available. **The eligibility of German project partners cannot be evaluated without the “National Grant” table.**

- National grant applications shall not be handed in before they are requested by the national funding authority. In case the FPP is selected to be funded nationally, the national funding authority will contact each partner individually in order to request a national grant application (for details please see the national call that is available via <https://www.elektronikforschung.de/foerderung/europaeische-foerderung/ecsel>).

3) Consortium configuration

- As ECSEL is an industry-driven programme each consortium has to reflect an appropriate balance between industrial companies, RTOs and academia: the ratio of efforts (in person months) between companies and research institutions from Germany in any given project should be 2:1 or higher.
- Germany aims at a high participation of SMEs and supports the Horizon 2020 goal that a minimum of 20 % of the total public funding should be awarded to SMEs.

4) Other conditions

TRL 2 – 4: application-oriented projects

Funding may be awarded for high-risk pre-competitive industry-driven research and development projects of civil nature and civil use which focus on cross-border technologies in an application-oriented approach, meet a sufficiently high level of innovation and could not be accomplished without public funding.

TRL 5 – 8: production-related projects

Funding may be awarded for high-risk pre-competitive industry-driven research and development projects of civil nature and civil use related to production which focus on experimental development, meet a sufficiently high level of innovation and could not be accomplished without public funding.

The following projects are not eligible for BMBF funding:

- Projects in entertainment and gaming
- Projects that do not have an exclusive focus on civil applications and civil exploitation
- Projects of pure basic research

Eligibility of the costs and funding

1) Eligibility of costs

- The eligibility of costs is regulated in the BMBF’s standard terms and conditions for grants on expenditure or cost basis and the administrative regulations under sections 23 and 44 of the Federal Budget Code (BHO). Identical rules will be applied in cases where applicants request funding from Saxony and Thuringia. Rules for any additional *Länder* that might provide funding in future are subject to negotiation between BMBF and the respective *Land*.

2) Funding and funding rates

- Financial BMBF support is awarded in the form of grants to participants through project funding as non-repayable grants.
- Project grants will be awarded in accordance with the BMBF's standard terms and conditions for grants on expenditure or cost basis and the administrative regulations under sections 23 and 44 of the Federal Budget Code (BHO).
- The BMBF's "General Conditions for the Allocation of Benefits for Research and Development Projects to Commercial Companies on a Costs Basis 2017" (NKBF 2017) and the „General Conditions for the Allocation of Benefits on an Expenditure Basis“ (NABF) respectively form part of any award of grants. Identical rules will be applied in cases where applicants request funding from Saxony and Thuringia. Rules for any additional *Länder* that might provide funding in future are subject to negotiation between BMBF and the respective *Land*.
- Universities and other higher education institutions may request a "Projektpauschale" which will be granted on the national funding part managed by the BMBF.
- The national funding aims at mirroring the funding which a participant actually receives from the Joint Undertaking in absolute amounts (EUR), matching up to 1:1. Furthermore, the total public funding (EU + BMBF + any other public funding) will not exceed the level that usually applies for purely national funding, in line with EU state aid rules, national funding policies, budgetary considerations, and the project structure. The national funding may therefore be below a 1:1 ratio per partner.

Additional Information to be provided at submission and other conditions

- Applicants from Germany need to use the electronic application system "easy-Online" for formal national applications upon request by the national funding authority. In addition, they must submit each grant application by mail including a legally binding signature and a short description for all cost positions as well as an exploitation plan of the planned project in German language.
- Guidelines, information for applicants and the terms and conditions for the award of grants are available at "Formularschrank BMBF":
https://foerderportal.bund.de/easy/easy_index.php?auswahl=easy_formulare&formularschrank=bmbf
Partners applying for funding from Saxony or Thuringia need to submit the appropriate form in parallel with the BMBF grant application (available via <https://www.elektronikforschung.de/foerderung/europaeische-foerderung/ecsel>).
- Applicants shall take care to ensure a consistent presentation of the project costs in the national and the European grant application, taking into account the respective criteria for the eligibility of costs.
- If additional information is requested, it will be specified in the national funding authority's request to submit a formal application.
- There is no legal entitlement to the award of a grant. BMBF will take a decision after due assessment of the circumstances and within the framework of the budget funds available.

Hungary

National contact person for ECSEL JU programme

Country	Name	First name	Telephone	E-mail
Hungary	Divinyi	Agnes	+36 1 896-3754	agnes.divinyi@nkfih.gov.hu

National Funding Authority: National Research, Development and Innovation Office (1077 Budapest, Kéthly Anna tér 1.)

website: www.nkfi.gov.hu

Legal requirements for the eligibility of a partner or a project

Type of participants

The following types of organisations are eligible for funding:

- Business enterprises with legal entity registered in Hungary;
- Foreign-registered enterprises with branch office in Hungary;
- Non-profit organisations with legal entity registered in Hungary;
- Public bodies or their institutes with legal entity

Legal, administrative and financial conditions

In order to conclude the national grant agreement the Hungarian applicants have to comply with the regulations of Act CXCV of 2011 on Public Finance, Government Decree No. 368/2011 on the implementation of Act on Public Finance, Government Decree No. 380/2014 on the rules of operation and use of National Research, Development and Innovation Fund.

Applicants are expected to contribute their own financial resources to the project costs. This amount depends on the project activities and the applicant's organization form. The own financial resources shall be determined by prevailing law.

Consortium configuration

Hungarian consortium members shall be autonomous¹² regarding their relation with each other in the consortium.

¹² autonomous: the enterprise is either completely independent or has one or more minority partnerships (each less than 25%) with other enterprises

Eligibility of costs and funding

Eligible costs

- Personnel costs: salaries, social security charges and other costs included in the usual remuneration of personnel assigned to the action based on the number of annual productive hours (excluding premium, cafeteria etc.),
- travel costs and related subsistence allowances,
- cost of other goods and services (e.g. consumables and supplies),
- subcontracting,
- equipment costs (depreciation) and immaterial expenses (depreciation),
- indirect costs (flat rate of 10% of total direct eligible costs, excluding direct eligible costs for subcontracting and the costs of resources made available by third parties which are not used on the premises of the beneficiary).

Ineligible costs in particular: deductible VAT, currency exchange losses, bank costs, mortgage costs, guarantee costs, interest owed, penalties and fines, debt and debt service charges, membership fee, representation costs, public procurement costs, excessive or reckless expenditure, costs incurred during suspension of the implementation of the action etc.

Funding rates

Funding rates are based on Article 25 (aid for research and development projects) of Commission Regulation (EU) No 651/2014 of 17 June 2014 on declaring certain categories of aid compatible with the internal market in application of Articles 107 and 108 of the Treaty.

Type of Organisation	Percentage of maximum subsidy (EU contribution and national funding together) to the beneficiaries (calculated on the basis of the national eligible costs)			
	Large Enterprises	Medium enterprises	Small Enterprises	Public Research Institutes, Universities, non-profit organisations
Fundamental/Basic research	100%	100%	100%	100%
Industrial/Applied Research	up to 65%	up to 75%	up to 80%	100%
Experimental development	up to 40%	up to 50%	up to 60%	100%

The aid intensity of

- industrial research is 50% and
- experimental development is 25%,

however these rates may be increased

- by 20 percentage points for small enterprises and
- by 10 percentage points for medium-sized enterprises.

Funding intensity per member may be increased by a further 15 percentage points up to a maximum of 80% (this means the whole public funding, i.e. Hungarian national funding + EC funding) if one of the following conditions are fulfilled:

- the project is implemented through effective collaboration
 - between undertakings among which at least one is an SME, or is carried out in at least two Member States, or in a Member State and in a Contracting Party of the EEA Agreement, and no single undertaking bears more than 70 % of the eligible costs, or
 - between an undertaking and one or more research and knowledge-dissemination organisations, where the latter bear at least 10 % of the eligible costs and have the right to publish their own research results
- the results of the project are widely disseminated through conferences, publication, open access repositories, or free or open source software.

Coordination, dissemination and IP protection activities are financed as de minimis aid, which has 100% funding rate.

Maximum national grant amount for an entity in a project is HUF 200 million.

Additional Information to be provided at submission and other conditions

Please note that Hungarian project partners shall submit a proposal to the National Funding Authority for national financing if the project has been selected and approved for funding through the international evaluation and selection process.

A legal entity is allowed to participate in more than one project proposals, but in case of successful evaluation it will be financed in the framework of only one project.

Ireland

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
Ireland	O'Reilly	Stephen	+353 21 4800217	stephen.oreilly@enterprise-ireland.com

www.enterprise-ireland.com/JTIs

Legal requirements for the eligibility of a partner or a project**1) Type or nature of participants**

Companies that are eligible to receive R&D funding from one of the following agencies will be considered for funding; Enterprise Ireland, IDA Ireland or Udaras na Gaeltachta.

Irish third level research performing organisations will also be considered for national funding.

2) Legal, administrative and financial conditions

The relevant national funding agency should be satisfied that a company seeking national funding has the potential to derive a benefit, proportionate to the national funding being sought, through the exploitation of the results of the proposed project or otherwise.

All participants are advised to contact the relevant national funding agency before committing to participate in any proposal.

Higher Education Institutions will be eligible only if;

- there is also at least one Irish based company that meets the national eligibility criteria in the consortium, and
- the national funding agencies are satisfied that there will be a benefit from the participation of the Higher Education Institution, proportionate to the funding being sought, for an Irish based company or companies that the agencies are satisfied to support.

3) Consortium configuration

Projects should be introduced by companies and primarily executed to the benefit of these entities.

4) Other conditions

Example: eligibility conditions related to pilot lines

Eligibility of the costs and funding

1) Eligibility of costs

2) Funding rates

Type of Organisat Type of activit	Percentage of the national subsidy to the beneficiaries ¹³			
	Large Enterprises, Groups and Associations of Enterprises	Medium Enterprises	Small Enterprises	Public Research Institutes and Universities
	Up to 40%	Up to 50%	Up to 50%	100% less EU contribution

Additional Information to be provided at submission and other conditions

Only for the Full Project Proposal (not for the Project Outline):

Please note that each Irish participant must create a PDF file indicating how they meet the national eligibility criteria for funding as indicated in the Irish section of the Eligibility Criteria document published in the Call. You must upload this in the ECSEL JU Proposal Submission system as Part C of the **Full Project Proposal** (one file for each participant).

Note that Irish companies must clearly state in the proposal the following points:

1. From which of the three Irish agencies (Enterprise Ireland, IDA Ireland or Udaras na Gaeltachta) it is eligible to receive national R&D funding
2. Explain how it has the potential to derive a benefit, proportionate to the national funding being sought, through the exploitation of the results of the proposed project or otherwise.

¹³ With regard to the size of the enterprise, the respective SME definition according to EU competition law applies as amended (definition of small and medium-sized enterprises according to Recommendation 2003/361/EC of the Commission of 6 May 2003, (OJ L 124 of 20.5.2003, pp 36-41) http://ec.europa.eu/enterprise/enterprise_policy/sme_definition/index_en.htm

Israel

National contact person for ECSEL JU programme – Calls 2019

Country	Name	First name	Tel.	E-mail
Israel	Seker	Danny	+972-3-5118121	dan@iserd.org.il
Israel	Shaked	Nir	+972-3-7157916	Nir.s@iserd.org.il

<http://www.iserd.org.il/ecsel>

Legal requirements for the eligibility of a partner or a project

1) Type or nature of participants

The following legal entities are eligible for funding:

- Industrial entities registered in Israel, with internal R&D capabilities
- Israeli universities may take part as sub-contractor of an Israeli Industrial entity

2) Legal, administrative and financial conditions

The ECSEL rules applies for the Israeli participants.

3) Consortium configuration

The ECSEL rules applies

4) Other conditions

Financial viability and business soundness is verified by means of an internal check - companies that are in danger of insolvency cannot be funded

Eligibility approval

Each participant, that passed the first round of the Technical evaluation, will need to sign the "ECSEL 2019 participant document" prior to the second round of evaluation.

This document will be update with the approved results (Total approved cost, funding percentage) prior to the signing of the GA.

Cost Eligibility and funding rates

Eligibility of the costs

The ECSEL rules applies

Maximum fund

The maximum overall contribution for Israeli participant (EC contribution and IIA contribution) will not exceed 50% of the Total approved cost for this participant.

Italy

Italy is participating to the present calls with funds coming from the following funding organizations:

- 1) Ministry of Education, University and Research (MIUR) which is committing 2,5 M€ as grants;
- 2) Ministry for Economic Development (MISE) which is committing 15 million euro as grants;

The specific eligibility criteria and funding rules for each funding organization are described the following paragraphs.

Ministry of Education, University and Research (MIUR) & National Funds (FIRST)

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
Italy (MIUR)	Covello	Aldo	+39 069772 6465	aldo.covello@miur.it
Italy (MIUR)	Di Marco	Vincenzo	+39 06 9772 7727	vincenzo.dimarco@miur.it

Website: <http://www.ricercainternazionale.miur.it/era/jti/ecsel.aspx>

Legal requirements for the eligibility of a partner or a project

1) Type or nature of participants

According to art. 60 of the Decree-Law n. 83/2012 and art. 5 of its implementing Ministerial decree 593/2016, the following entities are eligible, providing that they have stable organization in Italy: enterprises, universities, research institutions, research organizations in accordance with EU Reg. n. 651/2014 of the European Commission - June 17, 2014.

2) Legal, administrative and financial conditions

The participant must not be defaulting with regard to other funding received by the Ministry.

The participant must not have requested/got any other funding for the same project, apart from the ECSEL funding.

ED 2019.268

The participant must respect the Italian law "D.Lgs. n 159 del 6/09/2011 e successive modificazioni ed integrazioni".

The participant must not be subject to bankruptcy proceedings as of art. 5, comma 4, letter b) of DM 593/2016 or must not be a company in difficulty according to the definition under number 18) of article 2 "Definitions" of Regulation (EU) no. 651/2014.

The participant must be in compliance with the obligations laid down in the contributory and social security regulations (DURC).

The judicial and pending records of the legal representative of the participant are negative

For any private entity, the following financial criteria, calculated using the data reported in the last approved balance sheet, must be fulfilled

a) $CN > (CP - I)/2$

Where:

CN = net assets (Capitale netto)

CP = sum of the costs of all the projects for which public funding has been requested by the participant during the year

I = sum of the contributions received, approved or requested for the same projects

b) $OF/F < 8\%$

Where:

OF = financial charges (Oneri finanziari)

F = turnover (Fatturato)

3) *Consortium configuration*

The Italian consortium must include at least one Italian company, independently from the Ministry which is funding it. Other types of participants are allowed, provided that the financial participation of companies is higher than 50% of the total cost of the Italian consortium. The project shall be executed primarily to the benefit of the company/es

4) *Other conditions*

Companies must have the financial means to execute the project and a potential to use the results.

The participant should foresee, after the end of the project, the exploitation of the results of the project so to guarantee the return of the investment.

Budget available and calls supported

MIUR committed a budget of 2,5 million euro as grant. The maximum funding which can be requested to MIUR by the Italian participants in a project is 500.000 euro, independently from the number of Italian partners.

The entire budget is reserved only for the call ECSEL-2019-2 Research and Innovation Actions.

Italian participants willing to participate to the call ECSEL-2019-1 Innovation Actions are required to self-fund their participation or to find other sources of funding.

However, in case part of the budget allocated to ECSEL-2019-2-RIA call cannot be used for this call, it can be transferred to the ECSEL-2019-1-IA call

CostEligibility and funding rates

1) Eligibility of costs

All costs incurred during the lifetime of a project under the following categories are eligible: personnel, equipment, subcontracting, consumables, and overheads. Overheads are calculated as a fixed percentage of the personnel cost. They include also coordination dissemination and travel expenses and in no cases can be larger than 50% of the personnel costs.

2) Funding rates

MIUR will fund the Italian participants using the following funding rates:

	ECSEL-2019-2-RIA	ECSEL-2019-1-IA
Type of partner	Grant	Grant
Large enterprise	10 %	5%
Medium Enterprise	15 %	10%
Small Enterprise	25 %	20%
Universities, research centers and research organizations	30 %	20%

On request of applicants a pre-payment may be done, equal to:

- 80% of the total contribution for public entities;
- 50% of the total contribution for private entities.

The remaining part of the contribute will be paid in instalments after each reporting period

Additional Information to be provided to MIUR and other conditions

All Italian participants must upload on a dedicated web platform a set of additional information and national documents as published on MIUR website. These documents must be submitted to MIUR by the same deadline of the Full Project Proposal (FPP) phase of the ECSEL call. Any participant who does not send its national documents by this deadline, will be considered ineligible.

Ministry of Economic Development (MISE)

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
Italy (MISE)	Dessi	Alessandra	+39 0654927886	alessandra.dessi@mise.gov.it

Website reference: <http://www.mise.gov.it/index.php/it/incentivi/impresa/accordi-per-l-innovazione>

The partners of an ECSEL project proposal submitted for funding in the 2019 calls have to comply with all the criteria mentioned in the present document in order to be eligible for funding by the national authorities.

R&D Project Outlines (POs) must have received previously a pre-label from the Direzione generale degli incentivi alle imprese as a preparatory work for the conclusion of the “Programming Agreement” with the Italian Regions involved.

Legal requirements for the eligibility of a partner or a project

In order to receive national funding research and development eligible project costs, supported by Italian partners, must account for a minimum of 5 million euro.

In particular, projects financed by the Ministry of Economic Development (MISE) shall comply with the rules laid down by the Decree of Minister of Economic Development as May 24, 2017 and the following acts ruling the same matter, regarding “Programming Agreements” signed by the MISE, the Italian Regions and other public entities involved.

1) Type or nature of participants

The following entities are eligible: Enterprises and Research Organisations - only in collaboration with enterprises with which to set up a Consortium or a Network of Companies (“Rete di imprese”).

2) Legal, administrative and financial conditions

The participant must not be defaulting with regard to other funding received by the Ministry. The participant must not have requested/got any other funding for the same project. The participant must respect the Italian law "D.Lgs. n 159 del 6/09/2011 e successive modificazioni ed integrazioni". For any private entity, the MISE, also through the Body managing the aid, will assess the financial and economic sustainability of the project, calculating some economic and financial indicators through the analysis of the data contained in the last two approved balance sheet. Companies must have the financial means to execute the project and a potential to use the results.

The participant should foresee, after the end of the project, the exploitation of the results of the project so to guarantee the return of the investment.

3) Other conditions

Projects must have received previously a pre-label from the “Direzione generale degli incentivi alle imprese”.

The partners must contribute to achieve one or several significant technological breakthroughs with the objective of designing or improving products, services or processes, and must set-up a capability to make these products or processes. These must have a sufficient potential impact on their activity in the European Union and in particular in Italy, in terms of employment, competitiveness, value creation and growth at short or medium-term.

The tasks assigned to partners must be well specified and should consist in R&D&I activities as defined in the R&D&I framework. “Fundamental research” will not be considered eligible. In accordance with the R&D&I framework, the aid to each company must have an incentive effect on its activities.

Budget available and calls supported

MISE committed a budget of 15 million euro.

The entire budget is reserved only for the call ECSEL-2019-1 IA.

Eligibility of the costs and funding

1) Eligibility of costs

The Italian eligible costs shall comply with the rules laid down by the Decree of Minister of Economic Development of May 24, 2017 and following acts ruling the same matter regarding “Programming Agreements” .

2) Funding rates

The following funding rates will be applied by Italian public authorities:

Type of partner	% Grant min		% Grant max*	
	Industrial research	Experimental development	Industrial research	Experimental development
Enterprises and research organisations	47%	22%	50%	25%

* In case of regional cofinancing.

Additional Information to be provided to MISE and other conditions

Along with the documents sent to the ECSEL JU, the Italian leader and partners of each submitted project will have to send to the public authorities a file containing all the documents mentioned on the website

The additional documents must contain all the elements needed to the Italian authorities to assess and justify the eligibility of the aid asked by the partners. Further details are available on the website of the Body managing the aid <https://fondocrescitasostenibile.mcc.it/mise-fcs/>.

Latvia

The conditions and rules expressed in the next participating state sections apply only to the participants of that state in particular as to their eligibility for national funding or as to the attribution of national funding.

National contact person for ECSEL JU program

Cou ntry	Nam e	First name	Tel	E-mail
LV	Pliks a	Ineta	+371 67785423	Ineta.Pliksa@viaa.gov.lv

Website reference: http://viaa.gov.lv/lat/zinatnes_inovacijas_progr/ecsel

Legal requirements for the eligibility of a partner or a project

1) Type or nature of participants

Following legal persons (as defined under the Latvian law) are eligible for funding, except natural persons:

- Private entities - enterprises and companies;
- R&D institutions - research institutes, universities, higher education establishments, their institutes and research centres etc.

2) Legal, administrative and financial conditions

A researcher may participate as Principal Investigator in only one project proposal at any one time. As a team member, it is possible to participate in more than one project proposal.

The funding for RTD activities is provided pursuant in accordance with:

- the Commission Regulation (EU) No 651/2014 of 17 June 2014 declaring certain categories of aid compatible with the internal market in application of Articles 107 and 108 of the Treaty,
- the Law on Research Activity (adopted on 14 April 2005 with amendments) and
- Cabinet of Ministers of the Republic of Latvia regulation No 259 on the procedure for providing support for participation in international cooperation programs for research and technology (approved on 26 May 2015).

R&D institution (research institutes, universities, higher education establishments, research centres etc.) must be listed in the Registry of Research Institutions operated by the Ministry of Education and Science of the Republic of Latvia.

Private entities (enterprises and companies) must be registered in the Registry of Enterprises of the Republic of Latvia and provide most of its R&D&I activities in the Republic of Latvia.

The principle of forbidding double funding will be applied when granting national funding.

3) Consortium configuration

R&D institution participates in Innovation Action only when it forms part of a project consortium together with some Latvian enterprise or company.

If there is no R&D institution involved as a partner in the Innovation Action, the participating enterprise or company must provide declaration on the possible industrial impact and justify that they have the necessary means to exploit the project results. This declaration is attached to the full project proposal in its C part.

Eligibility of the costs and funding

1) Eligibility of costs

1. Direct costs:
 - 1.1. Personnel costs – R&D related personnel costs should reach at least 80% of all staff costs,
 - 1.2. Other direct costs such as consumables, equipment (only depreciation costs), materials and etc.,
 - 1.3. Subcontracts (up to 25% of total participant's direct costs),
 - 1.4. Travels costs (up to € 18,000 per participant per project),
 - 1.5. Project management costs.
2. Indirect costs (can reach a maximum of 25% of the total direct costs excluding direct eligible costs for subcontracting).

2) Funding rates*

Type of activity	Large Enterprises	Small and Medium Enterprises	Public Research Institutes and Universities
Research and Innovation Action	up to 50%	up to 60% **	up to 100% ***
Innovation Action	up to 35%	up to 50% **	up to 80% ***

* total public funding including national and ECSEL Joint Undertaking;

** may be increased by 20%, if it is approved by National Funding Authority prior the proposal submission to ECSEL Call;

*** the aid intensity for research and development activities carried out by Public Research Institutes and Universities might be at the level of 100% only if the organisation entirely complies with the requirements set by the Commission Regulation (EU) No 651/2014 of 17 June 2014 and performs fundamental research activities.

National funding for eligible Latvian partner can reach € 70 000 per partner, per year, per project.

Additional Information to be provided at submission and other conditions

The national funding committed for the ECSEL Call 2019 is EUR 420 000 for supporting Latvian partners preferably in Research and Innovation Action projects.

Financing from Structural funds

Latvia supports complementary funding up to € 80 000 from ESI Funds investment programme¹⁴ per project to cover specific cost items contributing towards the milestones and deliverables of the Action including one or more of the following activities:

- prototyping;
- testing;
- validation;
- demonstration in Latvia located facilities;
- piloting.

The use of ESI Funds funding must comply with the rules defined above in the subsection “Eligibility of costs”.

Latvian partner requesting funding from ESI Funds investment programme should follow the rules of Cabinet of Ministers regulation No 315 “Operational Program "Growth and Jobs" 1.1.1. the specific support objective "To increase the research and innovation capacity of Latvian scientific institutions and the ability to attract external financing by investing in human resources and infrastructure" 1.1.1.5. Implementing rules for the first, second and third stage of the project selection procedure for the measure "Support for international cooperation projects in research and innovation"” (approved on June 6, 2017) (<https://likumi.lv/ta/id/291823>) and corresponding call ECSEL-JU “Guide for applicants” document.

¹⁴ According to ESI funds investment programs implementation rules:
(1) funding sources are ERDF investments (up to 85%) and national co-financing (15%);
(2) for projects related to economic activity only ERDF funding is available (up to € 68 000).

Malta

National contact persons for ECSEL JU programme:

Country	Name	First name	Tel	E-mail
Malta	Foden	James	356 23602176	james.foden@gov.mt
Malta	Dimech	Maria	356 23602132	maria.b.dimech@gov.mt

Netherlands

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
Netherlands	van der Bijl	Bob	+31 88 042 5965	robert-jaap.vanderbijl@rvo.nl

Background documents and other information can be downloaded from the website of Netherlands Enterprise Agency: www.rvo.nl/subsidies-regelingen/jti-ecsel. The Dutch text on this web-site takes precedence over the English text below.

Legal requirements for the eligibility of a partner or a project

1) Admission conditions

The Netherlands will support the Dutch partners in projects selected by the ECSEL Joint Undertaking when:

- the project concerns industrial research, experimental development or a combination of these;
- in the project one or more Dutch partners are involved which include minimal one industrial partner. In the case of only one Dutch partner it has to be an SME;
- the industrial partners of the Dutch consortium provide the major contribution to the Dutch part of the project in such a way that the major part of the public funding (ECSEL + NL) involved goes to the industrial partners of the Dutch consortium;
- the objectives of the Dutch part of the project fit within the Innovation Contract High Tech Systems and Materials (HTSM) and its underlying Roadmaps (www.hollandhightech.nl/nationaal/innovatie/roadmaps);
- the project complies with the “Algemene wet bestuursrecht” and the “Kaderwet EZ-subsidies”.

Dutch partners in a proposal must include in the Project Outline (PO) sent to the Joint Undertaking the following information:

- Explanation of the contribution to the objectives of the Innovation Contract High Tech Systems and Materials (HTSM) and its underlying Roadmaps (www.hollandhightech.nl/nationaal/innovatie/roadmaps);

Dutch partners in a proposal must include in the Full Project Proposal (FPP) sent to the Joint Undertaking the following information:

- Authorisation form;
- Explanation of the contribution to the objectives of the Innovation Contract High Tech Systems and Materials (HTSM) and its underlying Roadmaps (www.hollandhightech.nl/nationaal/innovatie/roadmaps);
- Model overview of the costs.

Note that in case that there are several Dutch partners in the proposal, the Dutch partner coordinating them (the so-called "Dutch coordinator") will be in charge of submitting the above information on their behalf. The information and forms will be submitted as Part C of the PO/FPP in a ZIP file through the ECSEL Proposal Submission system, as indicated in the Guide for Applicants in the section for The Netherlands. There will be only one ZIP file for all Dutch participants in a given proposal.

The required forms can be downloaded from the website of Netherlands Enterprise Agency: www.rvo.nl/subsidies-regelingen/jti-ecsel

2) Rejection conditions

An application for support of the share of Dutch participants of a project is rejected when:

- the partner that submits the application on behalf of all Dutch partners (the "Dutch coordinator") is not an enterprise;
- it is not credible that the Dutch partners can finance their share in the project;
- it is credible that the project without subsidy would have been finished without substantial delays;
- there is insufficient trust that Dutch partners have the necessary capacities to fulfil the project as submitted;
- the project has insufficient positive effects on the Dutch economy;
- the Dutch part of the project contributes insufficiently to the objectives of the Innovation Contract High Tech Systems and Materials (HTSM) and its underlying Roadmaps (www.hollandhightech.nl/nationaal/innovatie/roadmaps).

Eligibility of the costs and funding

1) Eligibility of costs

- The **eligible costs for subsidy** are in compliance with the R&D&I State Aid Rules, the "Algemene wet bestuursrecht" and the "Kaderwet EZ-subsidies".
- The Dutch subsidy percentages are indicated below in the section Funding Rates.
- In case another Dutch administrative body has already granted a subsidy for the eligible costs of the Dutch part of an ECSEL project or part of such project, the contribution by the Ministry of Economic Affairs will be granted so that the total amount of subsidy will not exceed the before-mentioned Dutch subsidy percentages.
- In case that a contribution has been already granted for the eligible costs for subsidy to the Dutch part of an ECSEL project or part of it on the basis of a subsidy scheme of the Ministry of Economic Affairs, no additional subsidy will be granted by the Ministry of Economic Affairs for the already subsidized part.
- Per individual Dutch partner the subsidy percentages will be applied according to the activities (industrial research, experimental development). The project eligible costs per partner will be defined and the corresponding percentages will be applied.
- The available Dutch initial budget for the ECSEL Calls 2019 of € 22,836 million will be initially split as follows: € 12,836 million for ECSEL Call 2019-1 IA, € 1 million for 2019-2 RIA Special topic 1, € 1 million for 2019-2 RIA Special topic 2 and € 8 million for ECSEL Call 2019-2 (RIA).
- Per ECSEL project in which a Dutch consortium takes part a total national maximum of € 5 million funding for the Dutch consortium will be initially applied.

2) Funding rates

	Large Enterprises, Groups and Associations of Enterprises	Medium Enterprises	Small Enterprises	Public Research Institutes and Universities
Fundamental/Basic Research activities	0%	0%	0%	0%
Industrial/Applied Research activities	21%	26%	26%	24%
Experimental development activities	11%	16%	16%	11%

Rates apply to the Calls 2019-1 and 2019-2.

In case the EU funding rates and/or conditions are modified the national funding rates may be amended.

Additional Information to be provided at submission and other conditions

Norway

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
Norway	DAVIS	Kim	(+47) 93059307	kid@rcn.no

Legal requirements for the eligibility of a partner or a project**1) Type or nature of participants (project partners)**

- Norwegian companies: Commercial enterprises registered in Norway (The Register of Business Enterprises).
- Research organisations, recognized as such by the Research Council of Norway: Universities, Higher education institutions (HEI), Public research institutes.

2) Legal, administrative and financial conditions

- General eligibility criteria and conditions for receiving project funding from the Research Council of Norway will apply (i.e. the beneficiary must be a registered legal entity, have credible capacity to execute the project activities, demonstrate financial viability, and provide transparency as to funding requested or received from other sources).
- Companies must be established with a considerable business activity in Norway within the scope of the ECSEL project.
- All project partners must possess relevant research & technology development capabilities.

3) Consortium configuration

- At least one Norwegian company must be involved as a partner in the project, and at least 50 % of the efforts (eligible costs) of Norwegian partners in the project must be from business partners. National funding priority will be given to projects with business partners that are new to ECSEL.
- The industrial relevance of the participation of a research organisation must be justified by declarations from the Norwegian business partner(s) in the project or from some other enterprise(s) that would be eligible according to the criteria 1) and 2) above.

4) Other conditions

- Companies (business partners in the project) must provide specific information on the possible industrial and commercial impact of the project, and justify that they have the necessary means to exploit the project results.
- Research organisations must specify national industrial impact in terms of exploitation opportunities for Norwegian businesses.

Eligibility of the costs and funding

1) Eligibility of costs

Horizon 2020 rules and guidelines on eligible costs will apply.

2) Funding rates

The maximum funding rates for the national funding provided by the Research Council of Norway will be as listed in the table below

	Large enterprises	SMEs	Research organisations
ECSEL 2019-1 IA	25 %	30 %	65 %
ECSEL 2019-2 RIA	25 %	30 %	65 %

Additional Information to be provided at submission and other conditions

1. The total Norwegian funding budget for the above ECSEL Calls is 2,2 mill. €.
2. There is no pre-allocated distribution of the Norwegian funding budget between the two Calls, nor to specific topics of any of the two Calls.
3. Norwegian applicants should consider 0,9 mill. € as a maximum amount of national funding for one single project, and that more than one Norwegian partner should be involved to reach this level of national funding.
4. National funding will be subject to conditions in current state aid rules (Commission Regulation (EU) No 651/2014). If other public funding, besides the EU funding, will be granted for the project, the listed maximum rates for national funding will be reduced if required to ensure that aid intensity limits in the state aid rules are respected. Beneficiaries must submit declarations regarding company size and financial situation. See more details at: www.forskningsradet.no/no/Statsstotterregelverket/1254004171884
5. Information providing the justifications required according to items 3) and 4) in the above eligibility criteria must be provided as a separate attachment (Part C) at submission, both at the PO and at the FPP submission stage.
6. Information necessary to confirm whether eligibility criteria mentioned in item 2) above are fulfilled shall be submitted to the Research Council of Norway on request, before a National Grant Agreement can be established.

Poland

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
Poland	Maciejko	Krystyna	+48 22 39 07 489	krystyna.maciejko@ncbr.gov.pl

National Centre for Research and Development (Narodowe Centrum Badań i Rozwoju)

Department of International Cooperation

Legal requirements for the eligibility of a partner or a project

1) Type or nature of participants

Following entities are eligible to apply:

- Research organizations;
- Micro, Small, Medium and Large Enterprises

Organization must be registered in Poland.

2) Legal, administrative and financial conditions

All proposals must be aligned with National regulations, inter alia:

- The Law of 20 July 2018 on Higher Education and Science, published in Journal of Laws item 1668, 2018;
- The Act of 30 April 2010 on the National Centre for Research and Development, published in Journal of Laws item 1249, 2018, as amended;
- The Regulation of the Minister of Science and Higher Education of 25 February 2015 on criteria and rules on granting state aid and “de minimis” aid by the National Centre for Research and Development, published in Journal of Laws item 299, 2015.

3) Consortium configuration

None

4) Other conditions

None

Eligibility of the costs and funding

1) Eligibility of costs

According to the rules for H2020

2) Funding rates

Funding quota of Polish participants can be up to 100% for research organisations. In the case of enterprises, funding quota will be decided on a case-by-case basis depending on the size of the company, type of research/development, risk associated with the research activities and commercial perspective of exploitation. Organization must be registered in Poland.

	Large Enterprises	Medium Enterprises	Micro/Small Enterprises	Research Organizations
Fundamental/Basic Research	0%	0%	0%	0%
Industrial/Applied Research	Up to 50+15 (max 65 %)	Up to 50+10+15 (max 75 %)	Up to 50+20+15 (max 80 %)	Up to 100 %
Experimental development	Up to 25+15 (max 40 %)	Up to 25+10+15 (max 50 %)	Up to 25+20+15 (max 60 %)	Up to 100 %

Additional Information to be provided at submission and other conditions

Please note that for each Polish participant you need to create a file with administrative and financial information requested by the Polish authorities and upload this in the ECSEL Proposal Submission system as **Form C** (one file for each participant) and send directly to the NCBR (krystyna.maciejko@ncbr.gov.pl).

Instruction can be found at:

<https://www.ncbr.gov.pl/index.php?id=20701&L=816>

Portugal

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
Portugal	Durão	Rui	+351 213 911 543	ruı.durao@fct.pt

Legal requirements for the eligibility of a partner or a project

Type or nature of participants

The following institutions are eligible to receive national funding in the ECSEL Calls 2019:

- a) Non-entrepreneurial entities of the R&I system, namely:
 - i. Higher education institutions, their institutes and R&D units;
 - ii. State or international laboratories with head office in Portugal;
 - iii. Non-profit private institutions whose main object is R&D activity;
 - iv. Other non-profit public and private institutions developing or participating in scientific research activities.
- b) Companies of any type and under any legal form if included in SR&TD projects led by non-entrepreneurial entities from the R&I system.

Legal, administrative and financial conditions

National funding will be framed by the Regulation on Projects Funded Solely by National Funds, available at:

<https://www.fct.pt/apoios/projectos/regulamentofundossnacionais.phtml.en>

National participants in approved proposals will have to sign a funding agreement with FCT, and the implementation of the project will follow all the procedures defined in the Regulation.

1. Consortium configuration

Every proposal with national applicants must include at least one Portuguese company, large or SME. Consortia that only have national RTOs will not be considered eligible for Portuguese funding.

Eligibility of the costs and funding

2. Eligibility of costs

All costs eligible according the Regulation on Projects Funded Solely by National Funds will be eligible to receive national funding.

3. Available funding

Portuguese commitment to the ECSEL 2019 calls will be of 2.000.000€ with no separation between RIA and IA.

Total budget of each RTO involved in a proposal cannot exceed 300.000€. There is no budget limitation to large companies or SMEs, but applicants may be asked to present proof of financial capacity to support their participation in the project.

3. Funding rates

Funding rates for national applicants are described in the following table:

	RTO (1)	SME	Large companies
Call 2019-1 (RIA)	100%-EU contribution	50%-EU contribution	50%-EU contribution
Call 2019-2 (IA)	100%-EU contribution	50%-EU contribution	50%-EU contribution
Maximum total budget (2)	300.000€	No limit	No limit

(1) RTO includes all the entities defined in the Regulation as “non-entrepreneurial entities of the R&I system”

(2) Maximum total budget per applicant, per proposal

Additional Information to be provided at submission and other conditions

Romania

Function	Name	First name	Tel	E-mail
Lead delegate	ANANIA	Cristina	+ 40.21.303.21.28/2 + 32.2.303.30.03	crisrina.anania@research.gov.ro
Member	DINU	Elena	+ 40.21.303.21.23/ 416	elena.dinu@research.gov.ro
Member	HILGEN	Sanda	+ 40.21.303.21.23/ 320	sanda.hilgen@research.gov.ro
Member	GHEORGHIAN	Daniela	+ 40.21 303.21.23/ 350	daniela.gheorghian@research.gov.ro

Ministry of Research and Innovation

Website reference: <http://www.research.gov.ro/>

Legal requirements for eligibility of a partner or a project**1. Type or nature of participants**

All Romanian entities which are legally set as research organizations or companies with R&D activities which meet the national eligibility requirements may participate in calls for proposals.

2. Legal, administrative and financial conditions

Research and innovation projects for both research organizations as well as business sector which are selected for funding by the ECSEL Joint Undertaking calls within Horizon 2020 Program.

At the national level, RO-ECESL projects are financed through the Competitiveness Operational Programme 2014-2020, Axis 1, Action: 1.1.3 Creating synergies with research, development and innovation actions within H2020 Framework Program of the European Union and other international programs of RDI.

The total budget allocated to RO-ECSEL projects for the open call is 12.000.000 Lei (2.6 mil. EUR) (the budget can be amended according to the projects submitted in MYSMIS platform dedicated to ERDF). It can be supplemented by reallocation from other types of projects if necessary.

The value of non-reimbursable financial assistance granted by Romania for an RO-ECSEL project shall not exceed 6.000.000 Lei (1.3 mil. EUR). The costs of the Romanian partners in the projects are eligible only after signing the contracts in Romania under the Competitiveness Operational Programme 2014-2020, Axis 1, Action: 1.1.3.

Funding rates

In the table below there is a synthesis of the maximum aid intensities, on categories of activities and beneficiaries, applicable to all eligible costs of the project from public funds:

<i>Activity</i>	<i>Enterprise</i>		
	<i>Large</i>	<i>Medium</i>	<i>Small</i>
Fundamental research	100%	100%	100%
Industrial research	50%	60%	70%
Industrial research subject to effective collaboration or disseminating results	65%	75%	80%
Experimental development	25%	35%	45%
Experimental development subject to effective collaboration or disseminating results	40%	50%	60%
Carrying out feasibility studies to prepare RD activities	50%	60%	70%
Obtaining, validating and protecting industrial property rights	-	50%	50%

The duration of a project is the period of the project funded by ECSEL JU associated with HORIZON 2020, but not later than June 30, 2023.

The applicant must provide a statement that they did not receive funding from ECSEL Joint Undertaking for RDI evaluated and selected activities that are financed within structural funds.

Eligibility of Applicant / Partners - for undertakings

The eligibility conditions of the participants/partners must be in accordance with the Guidelines for Applicants (*Action: 1.1.3 Creating synergies with research, development and innovation actions within H2020 Framework Program of the European Union and other international programs of RDI*), it can be accessed at the following website: <http://www.poc.research.gov.ro/ro/articol/4150/actiunea-1-1-3-crearea-de-sinergii-cu-orizont-2020>

Slovak Republic

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
Slovakia	Stadtruckerová	Jana	+421 2 59374 718	jana.stadtruckerova@minedu.sk

Legal requirements for the eligibility of a partner or a project

1) Type or nature of participants

Large company, SME, university; research institutes registered in the Slovak Republic are eligible.

2) Legal, administrative and financial conditions

The national co-funding of ECSEL JU projects is provided according to:

the Act No 172/2005 Coll. on the Organization of State Research and Development Support and Supplementation of Certain Acts

Community Framework for State Aid for Research and Development and Innovation (2006/C 323/01)

Eligible to ask for national co-funding is an R&D organization from every sector according to §7 of Act No 172/2005 Coll. and legal entity according to §2 art. 2 of the Slovak Code of Commerce.

3) Consortium configuration

Slovak partners are allowed to participate in projects alone or in cluster.

4) Other conditions

-

Eligibility of the costs and funding

1) Eligibility of costs

The eligible costs are: all personal costs, material costs, services, travel expenses, equipment amortization costs and indirect costs related to project solution within a period of project duration.

2) Funding rates

Type of partner	Max. Total funding (EU Contribution+ National) % of the national eligible cost
Large industry	50% for * RIA 40% for *IA
SME	70% for * RIA 60% for *IA
University & Research Organization	100%

* RIA = Research and Innovation Action; * IA = Innovation Action

Additional Information to be provided at submission and other conditions

The proposed projects should be within the scope of the national RIS3 initiative.

Spain

National contact persons for ECSEL JU programme

Country	Name	Tel	E-mail
SPAIN	Rafael Lucena		id.tic@mineco.es
	Carlos Sánchez		Carlos.sanchez@aei.gob.es
	Estrella Fernández		estrella.fernandez@aei.gob.es
	Enrique Pelayo	+34 915815566	enrique.pelayo@cdti.es

Read carefully. Please be aware of the changes in Spain at the Ministerial level affecting ECSEL projects funding as of June 2018:

The former MINECO took over competences from former MINETUR on supporting enterprises in the frame of ECSEL.

The State Research Agency (AEI) depending on the Ministry of Science, Innovation and Universities (MICIUN), took over the competences on research funding from the former MINECO.

Legal requirements for the eligibility of a partner or a project

1) Type or nature of participants

- Enterprises legally established in Spain (SME and LE).
- Groups and Associations of enterprises (GE).
- Research organizations (Public Research Organizations, Technology Centers, Health Institutions and other non-profit R&D organizations in which R&D activities will be implicitly defined as the main objective).
- Public and private universities (UNI).

The Ministry of Economy and Business (MINECO) is the national authority which funds in ECSEL calls the following participants:

- Spanish enterprises (SME, LE, GE)
- Private Technology Centers (TC, RD 2093/2008 29th December)
- Private Universities

According to the Spanish Regulation, enterprises and TC (RD 2093/2008 29th December) should follow the MINECO rules and procedures for loans and grants.

MINECO Contact Point for doubts or other issues:

<http://www.mincotur.gob.es/portalayudas/ecsel/Paginas/index.aspx> (*link to be updated*)

The Ministry of Science, Innovation and Universities (MICIUN) is the national authority which funds non-profit public R&D organizations such as research organizations, universities, technology centers, health institutions and other non-profit R&D organizations in which R&D activities will be implicitly defined as the main objective. MICIUN, through the AEI will grant

these institutions according to the mechanisms of the National Plan for Scientific and Technical Research and Innovation (2017- 2020).

MICIUN link (to be updated)

<http://www.ciencia.gob.es/portal/site/MICINN/menuitem.8ce192e94ba842bea3bc811001432ea0/?vgnnextoid=5b312bcbd60c1410VgnVCM1000001d04140aRCRD>

2) Consortium configuration

To be eligible, a project must account for some kind of Spanish leadership:

<p>Minimum share of the Spanish consortium 5% in terms of eligible costs. NFA MINECO (Enterprises + Private TC + Private universities)</p>	<p>NFA AEI - MICIUN – (NPO)</p>
<p>Participants should set up a national sub- consortium with the following rules:</p> <ul style="list-style-type: none"> • All members must show knowledge and expertise in their relative project matters. • At least Fifty (50) % of the Spanish participation (Budget) must be enterprise. • The participating entities must be legally established before 31/12/2016. • At least one SME in the Spanish consortium. • Each participant will send the form of its own part and must comply with the conditions of beneficiary. • Budget of each Spanish participant: minimum 200.000 €, in terms of eligible costs. 	<p>MICIUN will finance Non-profit organizations (NPO) with the exception of Technology Centres under RD 2093/2008 29th December and private universities, both financed by MINECO.</p> <p>NPOs can take part of the national sub-consortium formed within the MINECO rules.</p> <p>NPOs need to apply to the national call of the State Program for Research Aimed to the Challenges of the Society. Call 2019 <i>Proyectos de I+D+I de Programación Conjunta Internacional (PCI)</i>.</p> <p>Principal Investigators of Spanish teams must be eligible according to the abovementioned call PCI.</p> <p>PCI2018 can be consulted as a reference:</p> <p>http://www.ciencia.gob.es/stfls/MICINN/Ayudas/PE_2_017_2020/PE_Orientada_Retos_Sociedad/FICHERO_S/Acciones_Programacion_Conjunta_Internacional/C_ONVOCATORIA_PCI_2018.pdf</p> <p>Incompatibilities:</p> <p>Researchers are not allowed to apply for funding in more than one proposal of this ECSEL call as principal investigators, nor are they allowed to be granted in two consecutive PCI calls.</p> <p>This must be taken into account when participating in ECSEL, ERA-Nets and other joint programming initiatives which are funded through the same instrument (PCI).</p>

3) Other conditions:**3.1) Legal requirements.**

MINECO	AEI - MICIUN
<p>Every national participant should be established in Spain, satisfy the Art. 13 of Ley 38/2003, de 17 de noviembre, General de Subvenciones (LGS) and not be in bankruptcy or not have requested the declaration of bankruptcy.</p> <p>For that reason, national participant should sign a Statement of Compliance, as well as authorize the access and consultation of data linked with tax obligations, obligations with Social Security, fiscal residence and Full Statement of National Insurance contributions of the workers imputed to the project and/or the verification of any other data provide during the granting and monitoring of the aid. This document will be available in the following website and should be sent with the Part C</p> <p>http://www.mincotur.gob.es/portalayudas/ecsel/Paginas/index.</p> <p>In case the participant does not authorize the consultation, this one should submit the corresponding documentation.</p> <p>Spanish participants should be included in the Registry for R&D entities (RESA) Ministerial Order ITC/570/2006. In case they are not, they should submit the financial statements for years 2017 and 2018:</p> <p>The participating entities must have presented in the Mercantile Registry or equivalent register the closed accounts for the years 2017 and 2018.</p> <p>They must also present, together with the rest of the documentation, a copy of the financial statements of 2018, signed by the administrators of the entity, audited if legally required, and with the financial statements of "Balance Sheet", "Profit and Loss Account" and "Explanatory Memory", at least, according with Art. 254 of Real Decreto Legislativo 1/2010, de 2 de julio, por el que se aprueba el texto refundido de la Ley de Sociedades de Capital.</p> <p>In the event that the submitted accounts do not have the minimum financial statements indicated in the previous paragraph, the request for assistance may be requested, the risk report of the Risk Information Center of the Bank of Spain (CIRBE) and / or the 303 VAT return model for the four quarters of 2017. Likewise, in the case of not being able to access the accounts presented to the</p>	<p>All non-profit organizations must be included in the Unified Register of Applicants of MICIUN (RUS).</p> <p>MICIUN will avoid double funding (overlapping with other EU or National funding), and will not grant projects or parts of projects already funded</p>

<p>Mercantile Registry, the applicant may be required to make a copy of these accounts.</p>	
---	--

It will be mandatory to fulfil all European current legal requirements for applying for public grants:

- Marco Comunitario sobre Ayudas Estatales de Investigación y Desarrollo e Innovación (DOUE 2014/C198/01).
- Reglamento 561/2014 del Consejo, de 6 de mayo de 2014, relativo a la Empresa Común ECSEL.
- Convocatorias de propuestas referentes al Programa ECSEL 2019.

Moreover, in everything not viewed in the ECSEL and European regulation, it will mandatory to fulfil other Spanish current applicable legal requirements ruled in the following legal texts:

- Ley 38/2003, de 17 de noviembre, General de Subvenciones
- Real Decreto 887/2006, de 21 de julio, por el que se aprueba el Reglamento de la Ley 38/2003, de 17 de noviembre, General de Subvenciones.

ED 2019.268

- Leyes anuales de Presupuestos Generales del Estado.
- Ley 47/2003, de 26 de noviembre, General Presupuestaria.
- Ley 39/2015, de 1 de octubre, del Procedimiento Administrativo Común de las Administraciones Públicas.
 - Ley 40/2015, de 1 de octubre, de Régimen Jurídico del Sector Público.
 - Ley 9/2017, de 30 de octubre, de Contratos del Sector Público.

The Spanish legal texts can be found on <http://WWW.BOE.ES>

3.3) Solvency and financial requirements

MINECO:

- MINECO will check if the participants are eligible making sure they are not in crisis as defined by EU regulation 651/2014.
- Each Spanish participant should be solvent and have financial capacity to carry out the project and the Spanish Public Authorities has to assess it positively. That is the reason why MINECO will carry on a financial analysis and will define for each participant a solvency rating factor. Depending on that factor, the level of possible collaterals shall be established. The amount of required collaterals is defined at the end of the Spanish part of this document.
- MINECO could require collaterals up to 100% the amount of national funding.

3.4) Administrative requirements.

MINECO	AEI - MICIUN
<p>For the PO phase, the following documentation has to be submitted to the JU ECSEL:</p> <ul style="list-style-type: none"> - Part C - Responsible declarations, as well as authorization for the consultation of datas. - Both templates documents will be available in: http://www.mincotur.gob.es/portalayudas/ecsel/Paginas/index. <p>For the FPP phase, the following documentation has to be submitted to the JU ECSEL:</p> <ul style="list-style-type: none"> - Part C - Responsible declarations, as well as authorization for the consultation of datas. - Both templates documents will be available in: http://www.mincotur.gob.es/portalayudas/ecsel/Paginas/index - Financial Statements for the years 2017 and 2018 <p>After the evaluation and selection of the projects, MINECO will get in touch with the participants in selected projects which are not eligible to communicate the reason they are not and to offer them the possibility of correcting.</p> <p>After the signed of the Grant Agreement MINECO will get in touch with every beneficiary to complete all the forms and documents requested by the Spanish Public Authorities, in order to conclude the national grant agreements.</p> <p>Payment of the national contribution will be done in accordance with national rules in force.</p> <p>The payment will be done after the establishment of the National Grant Agreement. This option will require collaterals up to 100% of the amount of national funding, according to a solvency assessment (see Additional information).</p> <p>Collaterals must be in the form of guarantees provided by credit institutions or mutual guarantee societies.</p>	<p>The conditions will be described in the corresponding competitive national call launched by the AEI.</p> <p>For more information, go to:</p> <p>Basis of call: BOE 02/10/2013</p> <p>http://boe.es/diario_boe/txt.php?id=BOE-A-2013-10259</p> <p>PCI2018 Call (only as a reference):</p> <p>http://www.ciencia.gob.es/stfls/MICINN/Ayudas/PE_2017_2020/PE_Orientada_Retos_Sociedad/FI_CHEROS/Acciones_Programacion_Conjunta_Internacional/CONVOCATORIA_PCI_2018.pdf</p> <p>Call to fund ECSEL 20919 is pending</p>

Eligibility of the costs and funding

1) Eligibility of costs:

MINECO	AEI - MICIUN
	<p>Eligible cost</p> <ul style="list-style-type: none"> - Personnel costs for temporary contracts (fellowships are not eligible). - Current costs, small scientific equipment, disposable materials, travelling expenses and other costs that can be justified as necessary to carry out the proposed activities. - Indirect costs (overheads) or clinical assays, proofs of concept, proofs of principle, are not eligible for funding in the PCI call. - AEI grants non-profit organization following the rules of marginal costs, with a maximum of 175.000 € per participant. <p>If the Spanish participant is the ECSEL project coordinator, the grant could be increased up to 100.000 euros.</p> <p>Centers formed by different Spanish legal entities will be considered as a unique entity, and thus the maximum funding should not exceed the limits per proposal established above (for example mixed centers).</p> <p>The final decision will take into account the transnational evaluation of the cooperative project and the financial resources available. Only excellent projects where international collaboration is a clear added value will be funded. For more information, please consult:</p>

2) Funding rates:

Maximum percentage of costs covered by ECSEL grants as a percentage of eligible costs

	Maximum percentage of costs covered by National Funding Authorities			
	Industry, LE, MINECO	SME MINECO	Private RTO and Private Universities MINECO	POs* MICIUN
RIA (EPS) Research and Innovation Action	25%	30%	35%	40%

IA (EPS) Innovation Action	20%	25%	35%	40%
-------------------------------	-----	-----	-----	-----

* Public universities and public RTO will be funded according to MICIUN national call.

Additional Information

MINECO

According with the strategy of the MINECO, projects with the following characteristics will be prioritized:

- Coordinated by a Spanish entity.
- With PYMEs working in the core of the project.
- With entities that have never participated in the ECSEL program in the past.

Although MINECO will support projects that meet these characteristics at a higher level, it will continue to support all projects with national entities.

MINECO	MICIUN
<p>Spanish proposals could be rejected when:</p> <ul style="list-style-type: none"> - It is not considered credible by the Spanish Public Authorities that partners can adequately fund their share in the project. - It is not credible by the Spanish Public Authorities that the project can be completed on time. - Spanish partners do not provide sufficient trust in their capacities from the technical or financial point of view, to fulfil the project as submitted. - The effect or positive impact on the local economy is considered insufficient by the relevant authorities 	<p>Forms and documents must be electronically submitted according to the general rules of calls and the “Ley 11/2007” and following the PCI procedures.</p> <p>AEI - MICIUN does not require Spanish non-profit research organizations to participate in cooperation with profit organizations. Nevertheless, this collaboration is strongly encouraged and could be taken into account to prioritize AEI MICIUN grants.</p> <p>The final funding will take into account the transnational evaluation of the collaborative proposal, the scientific quality of the Spanish group, the added value of the international collaboration, the participation of the industrial sector, and the financial resources available.</p>

- The participation on this program means the acceptance and compliance with all the conditions stated on this document.
- Any publication or dissemination activity resulting from the granted projects must acknowledge MICIUN/MINECO funding even after the end of the project: “Project (reference nº XX) funded by MICIUN/MINECO through PCI XX/...”

Amount of required collateral by MINECO:

Financial qualification	Collateral required
AAA	0%
AA	0%
A	15 %
BBB	40 %
BB	70 %
B	80 %
CCC	100 %
CC	100 %
C	No funding
D	

Sweden

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
Sweden	Allström	Andreas	+46 8 473 30 93	andreas.allstrom@vinnova.se

Information for Swedish participants in ECSEL JU is available at:

<https://www.vinnova.se/m/horizont-2020/partnerskapsprogram/ecsel/>

Legal requirements for the eligibility of a partner or a project

1) Type or nature of participants

Calls are open for public and private companies of all sizes as well as for universities and research institutes in Sweden.

2) Funding conditions

Only legal entities are eligible for funding, natural persons will not be funded. Participating companies must be registered in Sweden as a limited company (*aktiebolag, AB*).

3) Legal, administrative and financial conditions

Participating companies must have a stable financial status with fulfilled fiscal obligations and must be able to cover their own expenses for the duration of the project.

Swedish SMEs must also show that they:

- Have an annual net turnover of 1 million SEK according to the latest annual report
- Have a minimum of three full time employees

4) Consortium configuration

The total eligible national costs of participating Swedish companies must amount to at least 50% of the aggregated eligible national costs of all Swedish participants in the project consortium.

5) Other conditions

Vinnova's mission is to contribute to sustainable growth and to strengthen Swedish competitiveness. All projects that Vinnova fund within ECSEL JU must contribute to this mission. Participating companies are required to provide a credible description of the project's impact on the company's technological knowledge, economic growth and future assets in Sweden. Participating universities or research institutes are required to provide a credible description of the project's impact on the university's or research institute's scientific and technological knowledge base and for the positive impact on Swedish society in general. Accordingly, an impact description must be submitted by each Swedish participant together with the application (part C). A template for the impact description is available at the [Vinnova website](#). **The impact description is an important part of the eligibility check performed in the FPP phase.**

Eligibility of the costs and funding

Eligibility of costs

[Vinnova's conditions](#) for eligible costs will be applied for the funding from Vinnova.

Funding rates

Sweden's national funding - within the limits given by [State Aid Rules](#) (please be aware that EU contribution doesn't count as state aid)

Type of activity	Large Enterprises	Small and Medium Enterprises	Universities and Research Institutes
RIA - Research and Innovation Action	25 %	30 %	50 %
IA -Innovation Action	20 %	25 %	50 %

Additional funding

- Proposal preparation grant for technical coordinators of the whole international proposal: up to 300 000 SEK (the proposal must be submitted at FPP stage). The costs have to be traceable in the organization's economy system ([Vinnova conditions](#) apply).
- Management grant for technical coordinators of the whole projects: up to 300 000 SEK/yr. The costs have to be traceable in the organization's economy system ([Vinnova conditions](#) apply).
- Travel grant to selected brokerage events

Additional Information to be provided at submission and other conditions

The total budget committed by Vinnova for the two ECSEL calls of 2019 is a maximum of EUR 5 500 000 with the following limit:

Maximum Vinnova contribution to one project is limited to EUR 2 500 000.

Vinnova uses the Riksbank's exchange rate for Euro on the date of ECSEL call FPP phase deadline.

Switzerland

Switzerland is committing max. CHF 2'500'000.00 (approx. EUR 2'100'000.00)

as grants for the ECSEL Calls 2019-1 and 2019- 2 together. There is no pre-allocated distribution of the Swiss funding budget between the Calls, nor to specific topics of any of these Calls.

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
Switzerland	BUEHLE R	Roland	+41 58 466 77 03	roland.buehler@innosuisse.ch

Legal requirement for the eligibility of a partner or a project

1) Type of nature of participants (project partners)

- Swiss companies: commercial enterprises registered in Switzerland,
- Swiss SME according to EU definition,
- Swiss non-commercial public academic research institutions, Universities, Universities of applied sciences as well as other accredited research institutions.

2) Legal administrative and financial conditions

- General eligibility criteria and conditions for receiving project funding from Innosuisse will apply: the beneficiary must be a registered legal entity, have credible capacity to execute the project activities, demonstrate financial viability, and provide transparency as to funding requested or received from other sources.
- Companies must be established with a considerable activity in Switzerland within the scope of the ECSEL project.

3) Consortium configuration

- At least one Swiss company must be involved as a partner in the project consortia and at least 50% of the efforts (eligible costs) of the Swiss partners in the project must be from companies.
- Academic public research partners from Switzerland are eligible for funding if a Swiss company as specified above is involved in the project.

Eligibility of the costs and funding

1) Eligibility of costs

The applicable CHF - Euro conversion rate for the cost calculation is the average rate published by the European Central Bank (www.ecb.europa.eu) of August 2019, the month before the full proposal submission deadline.

Direct personnel costs

- Effective gross salary or effective gross hourly rate up to the following maxima:

Function	Maximum effective gross hourly rate [CHF]	Maximum gross annual salary [CHF]
Project leader, experienced scientist	119	220'500
Scientific collaborator	68	126'000
Skilled worker	61	113'400
PhD and auxiliary	45	85'100

- Employers contribution to social insurance
- Overhead costs: 15% of the total of effective gross salary costs (a) and social insurance costs (b).

Direct costs of subcontracting

Direct costs for subcontracting are limited to 20% of total eligible costs.

Other direct costs

- Material cost are chargeable if project-specific and non-standard consumables used exclusively for this project.
- Travel costs outside Switzerland.
- Utilisation of specific research infrastructure chargeable as utilisation rate calculating a linear depreciation over time.

2) Non eligible costs:

- Direct costs of financial support
- Costs for publications,
- Use of research infrastructure fully depreciated or fully financed by other sources
- Certification of products (CE labelling),
- Patent securing related work

3) Funding rates

The maximum national funding rates are:

	Large Enterprise	SME	University/Other (not for profit)
ECSEL 2019-1 IA	10%	25%	35%
ECSEL 2019-2 RIA	10%	30%	35%

ED 2019.268

The maximum national grant per project has to be smaller than CHF 1 Mio.

Additional Information to be provided at submission and other conditions

- Each Swiss applicant has to fill out a template with administrative, legal and financial information. One template per project (Swiss applicants participating in the same ECSEL project fill out one template).
- The template can be downloaded from www.innosuisse.ch (Go global/ECSEL). The coordinator has to upload the filled out template in the ECSEL proposal submission system as attachment to Part C. This is mandatory for Pre- and Fullproposal.

Turkey

National contact person for ECSEL JU programme

Country	Name	First name	Tel	E-mail
Turkey	BENER	Ezgi	90 312 298 17 85	ncpict@tubitak.gov.tr
Turkey	CETIN	Utku	90 312 298 17 75	ncpict@tubitak.gov.tr

The National Funding Authority (NFA) of the Turkey for the ECSEL JU program is the Scientific and Technological Research Council of Turkey (TUBITAK). Principal legal regulations and documents on the public funding of research, development and innovation in the Turkey are available on the TUBITAK websites.

Legal requirements for the eligibility of a partner or a project

1) Type or nature of participants

Calls are open for public institutions and private companies of all sizes as well as for universities and research institutes in Turkey.

2) Funding conditions

Only legal entities are eligible for funding. Natural persons will not be funded.

3) Legal, administrative and financial conditions

Eligible participants can be funded via TUBITAK 1071 Programme. The national rules and the procedure for application will be available on TUBITAK Horizon2020 website at: <https://ufuk2020.org.tr/tr/haberler/ecsel-ortak-girisimi-2019-yili-cagrisi-acildi>

4) Consortium configuration

There is no limitation for the consortium configuration.

Eligibility of the costs and funding

1) Eligibility of costs

- Personnel cost
- Travel costs
- Expenditures for Consumables
- Expenditures for instruments, equipment that would be used for R&D purposes
- Expenditures for subcontracting and other services need for R&D work

2) Funding rates

Type of activity/organisation	Large Enterprises	Small and Medium Enterprises	Universities and Research Institutes
Call in 2019	%60-EU Contribution	%75-EU Contribution	%100-EU Contribution

Additional Information to be provided at submission and other conditions

- The total Turkish funding budget for the ECSEL Calls in 2019 is 3 million €.
- There is no pre-allocated distribution of the Turkish funding budget between the Calls in 2019, nor to specific topics of any of the Calls in 2019.
- Participants are subject to TUBITAK 1071 Programme rules.

United Kingdom

National contact person for ECSEL JU programme

Country	Type of Information	Name	First name	Tel	E-mail
UK	General Information	Papadakis	Georgios	+44(0)7824626788	georgios.papadakis@innovateuk.gov.uk

Website - UK Funding Body – Innovate UK

For information about the latest Innovate UK competitions: <https://apply-for-innovation-funding.service.gov.uk/competition/search>

For general Innovate UK national eligibility conditions <https://www.gov.uk/guidance/innovate-uk-funding-general-guidance-for-applicants>

- No budget has been allocated by Innovate UK to the ECSEL 2019 call for proposals.
- UK organisations wishing to participate in ECSEL 2019 call will have to self-fund.