E C S E L J U CALLS 2020
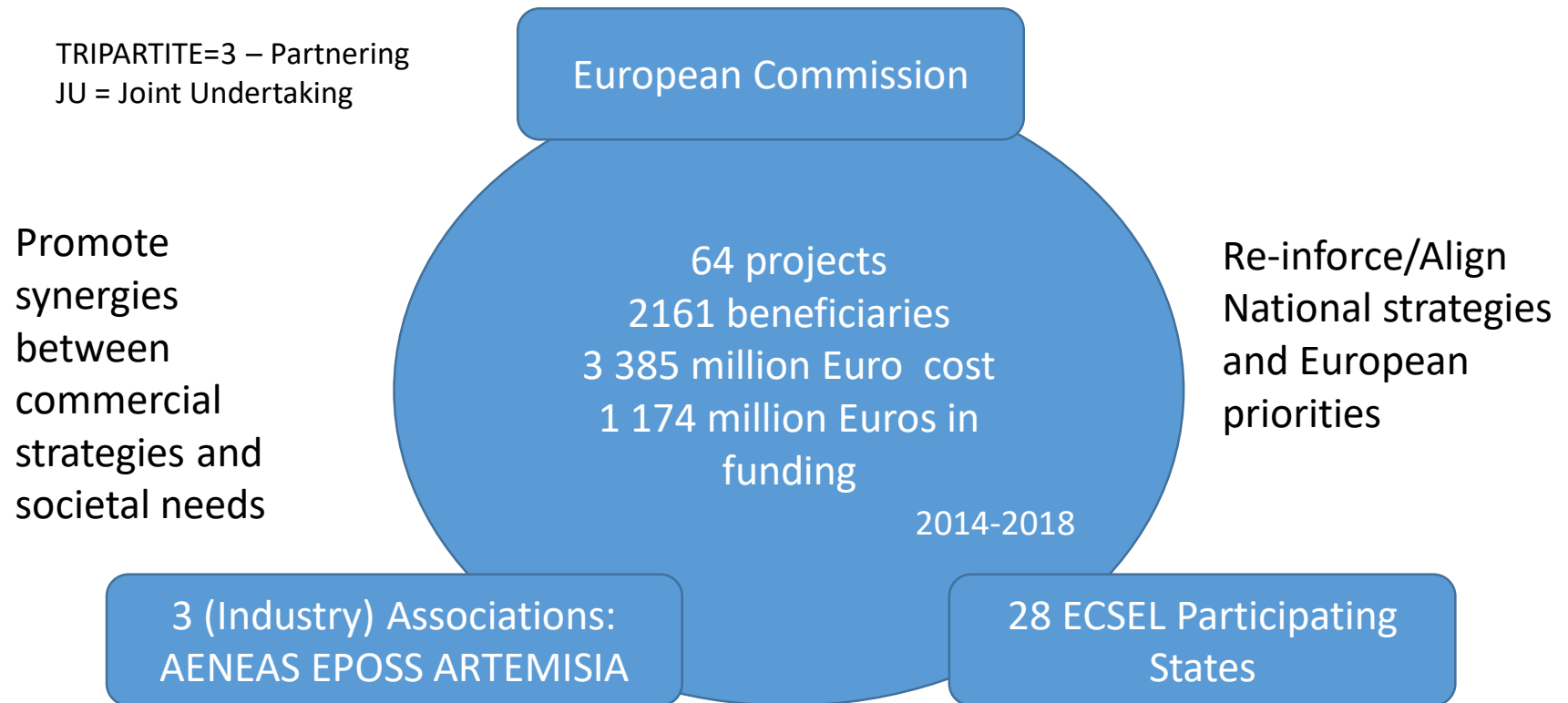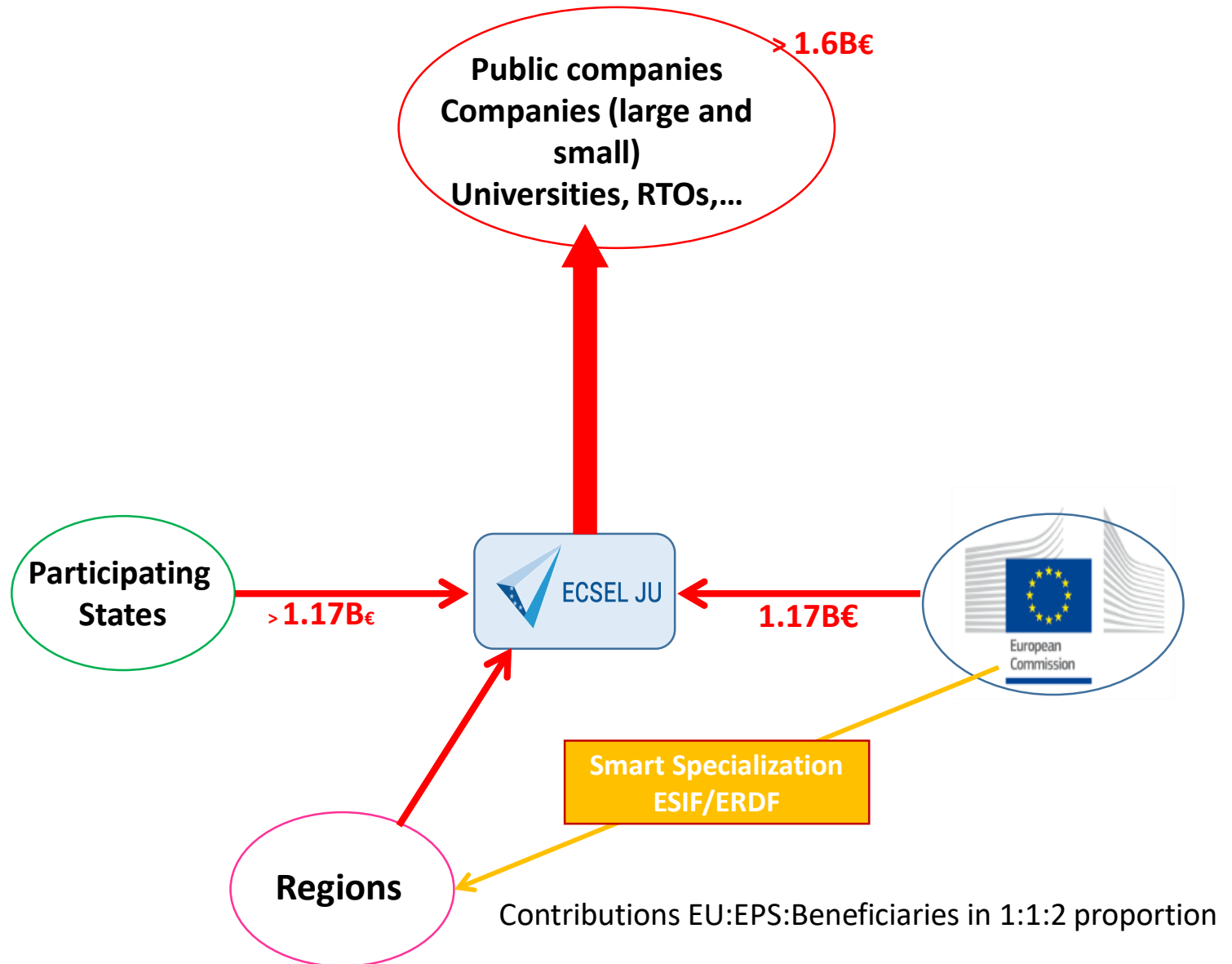
Simona Rucareanu
ECSEL Calls Coordinator

ECS Brokerage Event 2020 – Brussels 14/15 January 2020

ECSEL : A UNIQUE MODEL TO PROMOTE EUROPEAN INNOVATION

TRIPARTITE=3 – Partnering
JU = Joint Undertaking

European Commission

Promote synergies between commercial strategies and societal needs

64 projects
2161 beneficiaries
3 385 million Euro cost
1 174 million Euros in funding

2014-2018

Re-inforce/Align National strategies and European priorities

3 (Industry) Associations:
AENEAS EPOSS ARTEMISIA

28 ECSEL Participating States

Public companies
Companies (large and small)
Universities, RTOs,...

> 1.6B€

Participating States

> 1.17B€

ECSEL JU

1.17B€

European Commission

Regions

Smart Specialization ESIF/ERDF

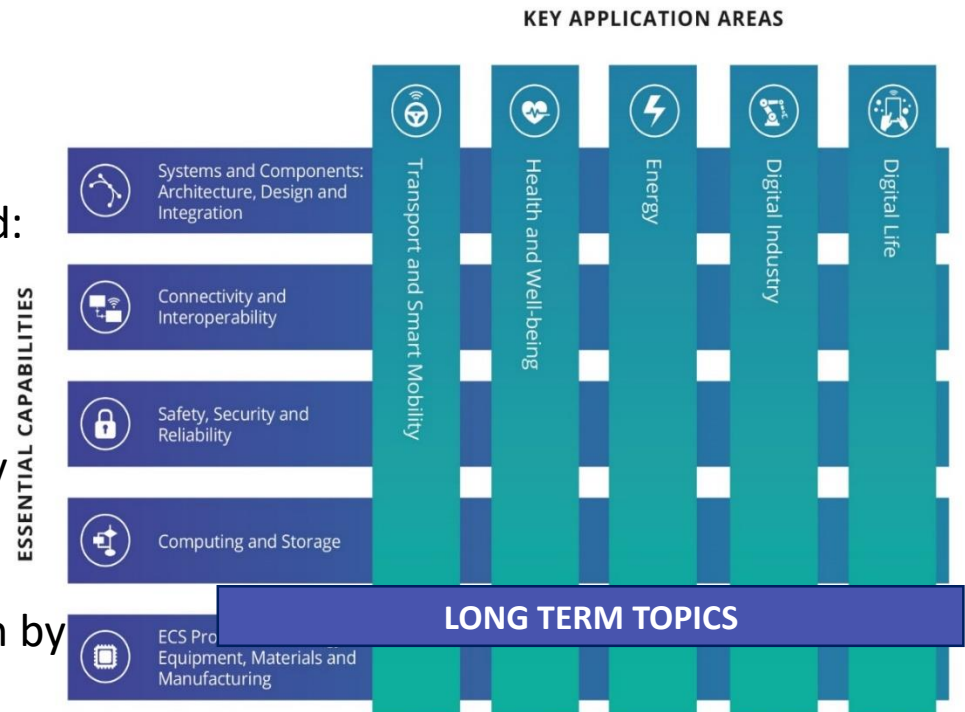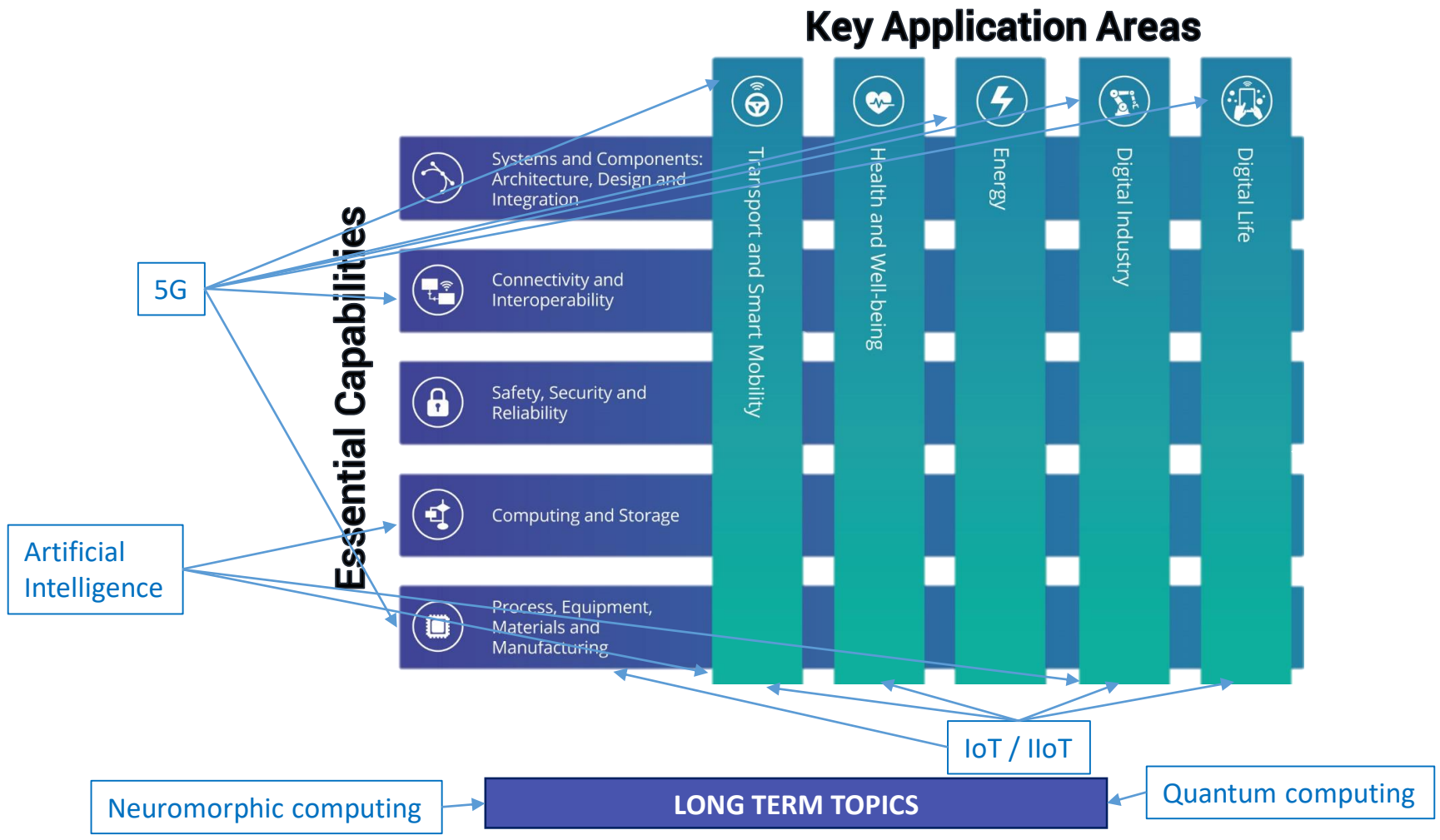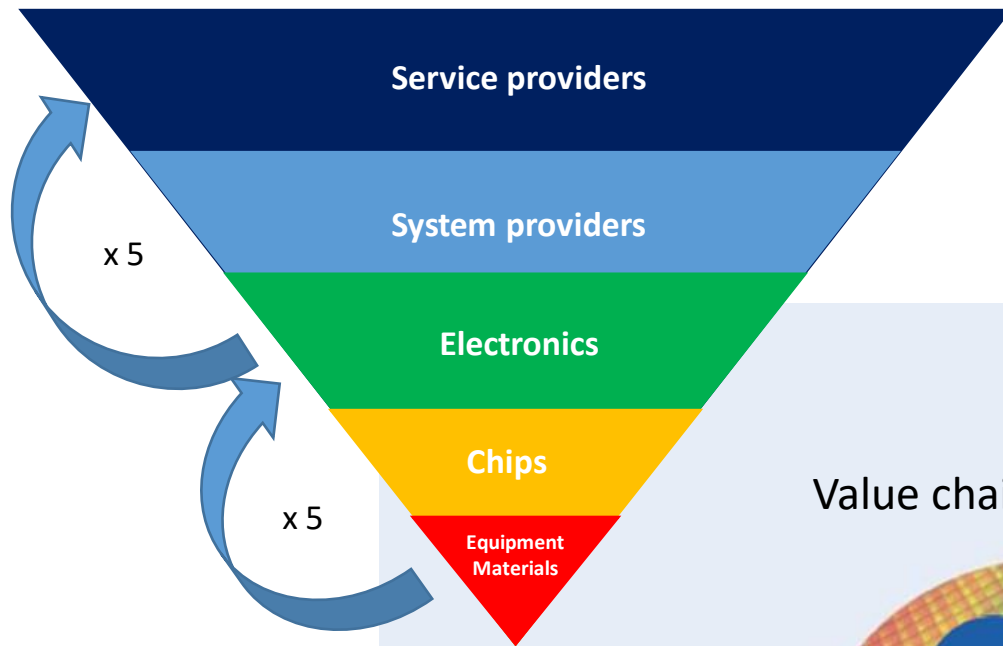Contributions EU:EPS:Beneficiaries in 1:1:2 proportion

ECSEL Participating States: EU Member States and Israel, Norway, Switzerland and Turkey
Also participating: US, Canada, Taiwan, Brasil

A common strategy: Strategic Research Agenda (SRA)

- SRA is prepared by 3 Industry Associations (not only large companies but also SMEs, Universities, RTOs)
  - AENEAS
  - ARTEMIS-IA
  - EPoSS

- SRA is adopted by the Governing Board: SRA becomes MASP (Multi Annual Strategic Plan)

- MASP is the foundation to built up the ECSEL JU Annual Work Plan adopted by the Governing Board

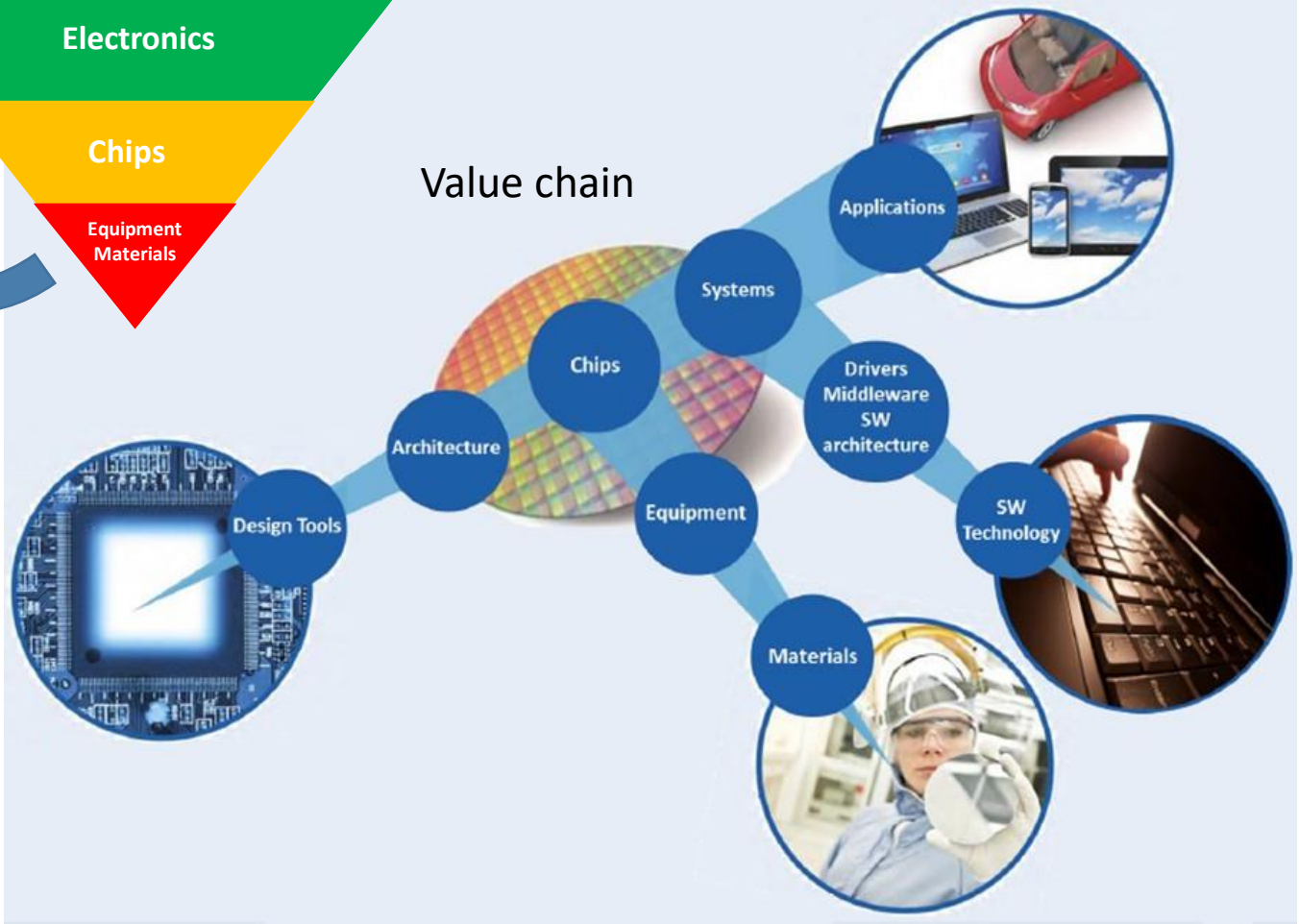- ECSEL JU Calls launching decision taken by the Public Authorities Board

KEY APPLICATION AREAS

ESSENTIAL CAPABILITIES

- Systems and Components: Architecture, Design and Integration
- Connectivity and Interoperability
- Safety, Security and Reliability
- Computing and Storage
- ECS Process, Equipment, Materials and Manufacturing

Transport and Smart Mobility

Health and Well-being

Energy

Digital Industry

Digital Life

LONG TERM TOPICS

Key Application Areas

Essential Capabilities

- Systems and Components: Architecture, Design and Integration
- Connectivity and Interoperability
- Safety, Security and Reliability
- Computing and Storage
- Process, Equipment, Materials and Manufacturing

Key Application Areas
- Transport and Smart Mobility
- Health and Well-being
- Energy
- Digital Industry
- Digital Life

5G

Artificial Intelligence

IoT / IIoT

Neuromorphic computing

LONG TERM TOPICS

Quantum computing

Service providers

System providers

Electronics

Chips

Equipment
Materials

x 5

x 5

Leverage in value

Value chain

Applications

Systems

Chips

Drivers
Middleware
SW
architecture

Architecture

Design Tools

Equipment

SW
Technology

Materials

ECSEL Calls 2019 OUTCOME

- 1 project running (Health.E CSA action)

- 13 projects now in grant agreement preparation stage:

  - 6 IA and 7 RIA (out of which 3 in the 2 Special Topics)

- 1 proposal on the reserve list (RIA)

ECSEL Calls 2020

Update after the PAB decision from 16 January 2020

IA, RIA and CSA Calls approved

Call IMI-ECSEL joint activity to be decided later –
information in this presentation pertaining to this call is preliminary pending the PAB decision

ECSEL Calls 2020 planning

- **ECSEL-2020-1-IA:** Innovation Actions (ECSEL-IA)

- **ECSEL-2020-2-RIA**: Research and Innovation Actions (ECSEL-RIA)

- **ECSEL-2020-3-RIA-IMI-ECSEL-joint-activity** - call complementing Trials@Home IMI-JU project (ECSEL-RIA)

- **ECSEL-2020-4-CSA-DIGITAL EXCELLENCE** (semantic webhosting) (ECSEL-CSA)

EU EXPENDITURE 2020

Action	Estimated EU Expenditure (M€)
Call 2020-1 IA	93.00
Call 2020-2 RIA	61.00
Call 2020-3 RIA-IMI-ECSEL	5.00
Call 2020-4 CSA	2.00
TOTAL	161.00

EPS	Call 2020-1 IA	Call 2020-2-RIA	Call 2020-3-RIA IMI – ECSEL joint activity	Call 2020-1, Call 2020-2 or Call 2020-3	ESIF	Total (M€)
AT				11.0		11.0
BE FL				12.0		12.0
BE BXL				1.0		1.0
BG						
CH*				2.5MCHF		2.301
CZ	1.5	1.5	0			3.0
DK				2.0		2.0
FI				7.0		7.0
FR				35.0		35.0
DE				32.0		32.0
DE Saxony	8.0	4.0	0			12.0
DE Thuringia				0.8		0.8
EL						
HU				1.0		1.0
IE				2.0		2.0
IL				7.0		7.0
IT MIUR***				2.5		2.5
IT MISE						To be defined
LU				2.0		2.0
LV**				0.42		0.42
NL				19.636		19.636
NO				2.2		2.2
PL				1.5		1.5
PT						
RO				0	0	0
SK				0.8		0.8
ES MINECO						To be defined
ES MINIUN						To be defined
SE				4.5		4.5
UK						0
TR				5.0		5.0
Total						166.657

Indicative National/ Regional/ ESIF Budgets

*   - 2.5M CHF: exchange rate CHF1 = € 0.9204
** - ESIF complementary funding up to € 80 000
*** - only for calls 2020-2 and 2020-3

ECSEL Calls 2020

- **ECSEL-2020-1-IA Call & ECSEL-2020-2-RIA Call**

  Two stage:

  - ➢PO (Project Outline) *Compulsory and Gating !!*
  - ➢FPP (Full Project Proposal)

- **ECSEL-2020-3-RIA-IMI-ECSEL-joint-activity:**

  One stage:
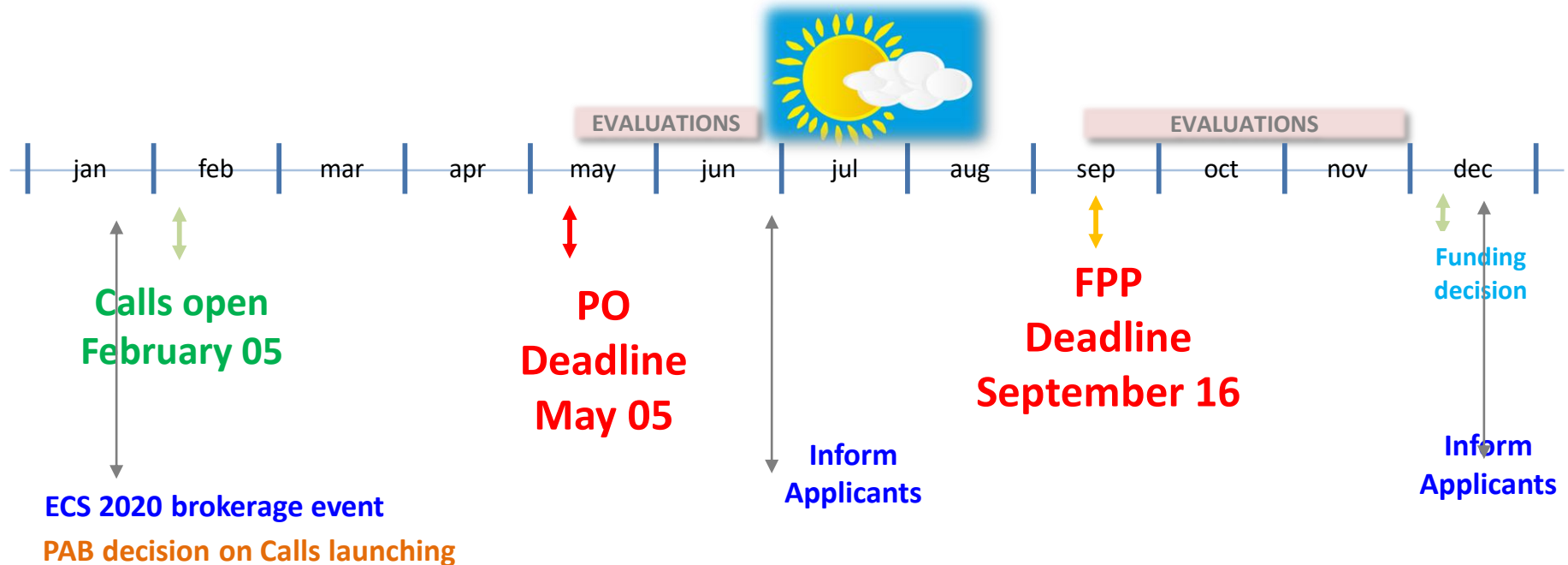
  - ➢FPP (Full Project Proposal)

- **ECSEL-2020-4-CSA-DIGITAL EXCELLENCE:**

  One stage:

  - ➢FPP (Full Project Proposal)

Timeline ECSEL-2020-1-IA Call
ECSEL-2020-2-RIA Call

EVALUATIONS

EVALUATIONS

jan | feb | mar | apr | may | jun | jul | aug | sep | oct | nov | dec

Calls open February 05

PO Deadline May 05

FPP Deadline September 16

Funding decision

Inform Applicants

Inform Applicants

ECS 2020 brokerage event

PAB decision on Calls launching

https://www.ecsel.eu/calls/calls-2020

Timeline ECSEL-2020-3-IMI-ECSEL Call

➢ Few details not yet decided (opening date, submission deadline)

➢ It will be communicated at a later date

The objective is to further support **synergies between the JUs' activities and potential collaborations between projects of the IMI and ECSEL JU** .

https://www.ecsel.eu/calls/calls-2020

Timeline ECSEL-2020-4-CSA Call

jan · feb · mar · apr · may · jun · jul · aug · sep · oct · nov · dec

EVALUATIONS

Grant Agreement Preparation

Funding decision

Call open February 05

FPP Deadline May 05

Project starting

Inform Applicants

ECS 2020 brokerage event

PAB decision on Calls launching

https://www.ecsel.eu/calls/calls-2020
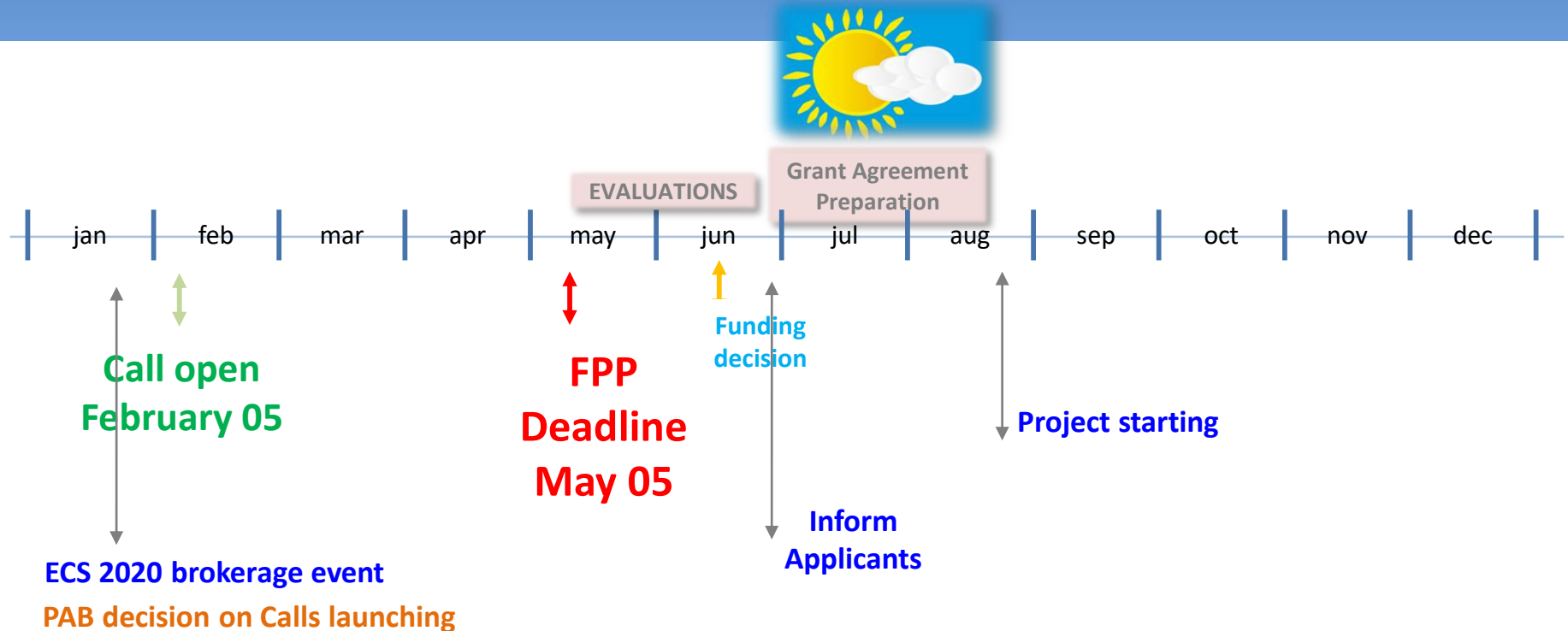
Submitting a proposal

1. Check out the [ECSEL website](#) and the (**new**) [Funding and Tenders portal](#)

2. Pay attention to the Calls Documents

3. Follow the instructions in the Templates

Information/Submission

- **Calls Page on ECSEL website** (*general information, **updates** (national budgets!),* including the **links** for the proposals submission in the Funding and Tenders portal)

- **Funding and Tenders Portal** (more detailed information (*NO* national budgets), ***updates***) *submission system* – **proposals can ONLY be submitted here**!

- *CAUTION*: *the PARTICIPANT PORTAL does not exist anymore!*

Information

Calls Page on ECSEL website
https://www.ecsel.eu/calls/calls-2020
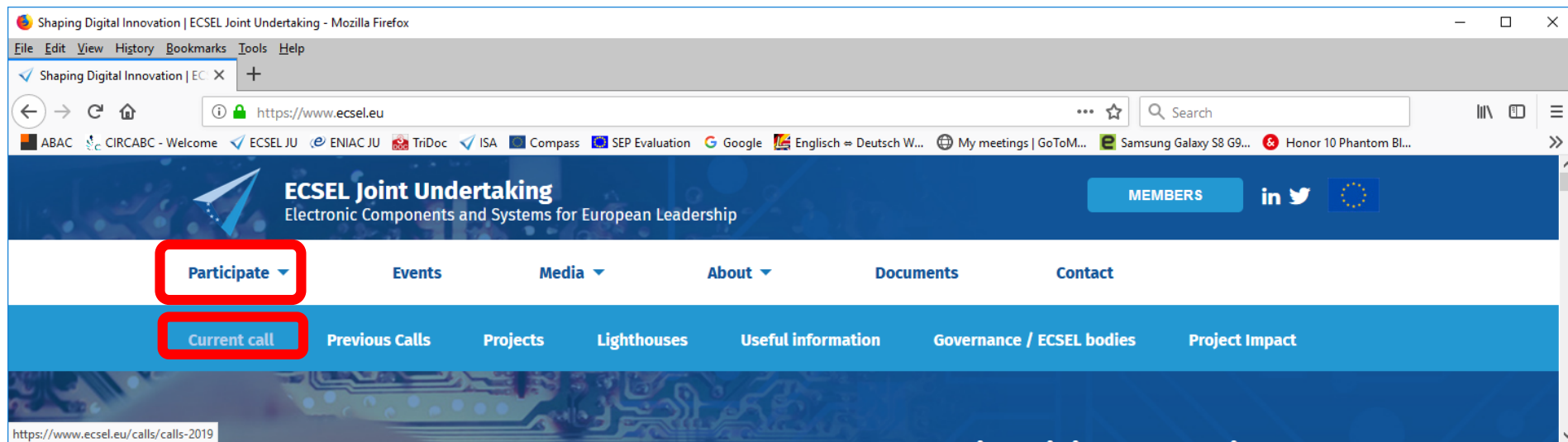
Calls Page on ECSEL website (embedded links to the submission system in the Funding and Tenders portal)

Submission

Documents

Annexes 5(IA), 6(RIA), 7(IMI-ECSEL), 8(CSA)

Annex 9

Section 10

- **ECSEL Work Plan 2020**: schedule, budget, topics, evaluation procedure including criteria, national rules, **TRLs**, important challenges

- **Guide for applicants**: further details on Part A, B and C; regional funding; ESIF: further explanation on evaluation criteria;

- **MASP 2020:** Look for topic/major challenges descriptions

- **Part B Template: A MUST!**

MASP 2020 GRAND CHALLENGES

4 general changes as compared to 2019:

- **Technology developments** for **Artificial Intelligence** were added in all sections
- **Integrated photonics** and **flexible electronics** added in introduction
- The **reduction of energy consumption** of ECS was stressed as key for digitalization and broad implementation of Artificial Intelligence
- In the whole document additions with focus on **software technologies** and **edge computing** were made

Annual Work Plan – highlights

- Aspects of **ECS value chain integration** are important for the ECSEL programme and the whole European ECS sector, across applications and across capabilities. Consortia are encouraged to submit proposals that take this aspect into account.

- Along the lines of the previous bullet, proposals that **cut across disciplines, support platform building, interoperability, establishment of open standards** are particularly encouraged; even outside the regular ECS sector.

- Description of **the important challenges** as proposed by the LIASEs of the **ECSEL Lighthouse Initiatives** and by **DG-Energy** in the fields of Mobility, Digital industry, Health and Energy are provided in annex 9; **these challenges are of special relevance** and proposals for the Call 2020 supporting these topics are strongly encouraged.

- For the Call 2020, **proposals supporting specific aspects of 'edge computing' are particularly encouraged**.

IA, RIA, RIA-IMI-ECSEL Calls

- The activities have their center of gravity at TRL 5-8 (IA Call)
- The activities have their center of gravity at TRL 3-4 (RIA Call)
- The activities have their center of gravity at TRL 3-4 (RIA-IMI-ECSEL Call)

- Technology readiness levels (TRL) – described in Annex 1 of the ECSEL JU Work Plan 2020

- ALL the focus Areas/ Topics/ Major Challenges are open to IA and RIA Calls, they are listed in the Annex 5 (IA Call) and Annex 6 (RIA Call) of the ECSEL Work Plan 2020 and described in detail in the MASP 2020

- RIA-IMI-Call description is presented in the Annex 7 of the ECSEL WorkPlan 2020

National limitations might be applicable (section 10 of ECSEL JU Work Plan 2020) – check regularly the updates!

IA & RIA Calls RECOMMENDATIONS

- **SMEs** should be encouraged to participate to the proposals in a **significant way**
- The consortia proposing projects will **strive for a ratio** of the total national funding to the EU funding larger than **1.20**.
- IA: Partners are **encouraged to create visibility to promote the developed technologies outside of Europe creating the basis for European impact on future international markets**

IA, RIA, RIA IMI-ECSEL
ELIGIBILITY CONDITIONS

1. **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 (*automatically checked by the submission system - warning*!)

2. **PROJECT DURATION** IS LIMITED TO **3** YEARS

3. **SIZE MAXIMUM**:
    IA: **90** PARTICIPANTS
    RIA: **50** PARTICIPANTS
    RIA IMI-ECSEL: **50** PARTICIPANTS

IA, RIA, RIA IMI-ECSEL
ELIGIBILITY CONDITIONS

4. **CAPPING of BUDGET**:

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

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

- **RIA IMI-ECSEL:** The **EU contribution per project** is capped at RIA= **5M€** and the maximum contribution per partner in a project is limited RIA= **40%** of the total EU funding for the project

At PO for 1: EXCLUSION, for 2,3,4 WARNING (*feedback from ECSEL office!*)
At FPP for 1,2,3,4 EXCLUSION (NO EVALUATION) WILL BE STRICTLY APPLIED!!!

Additional conditions

- Financial support to third parties is allowed for IA, RIA and RIA-IMI-ECSEL calls but it is capped at (limited to) 3% of the EU funding requested by the proposal

- Participants to ALL ECSEL Calls are required to conclude a Consortium Agreement prior to the start of the project
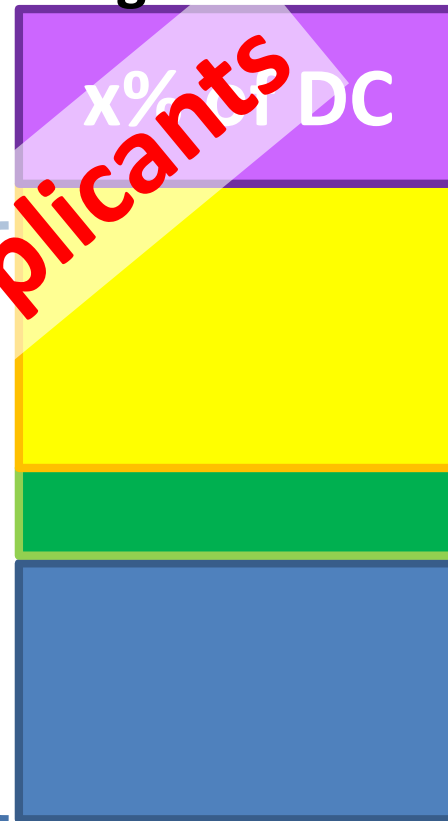
Two/Three/Four Funding Sources Two/Three/Four Total Eligible Costs!!
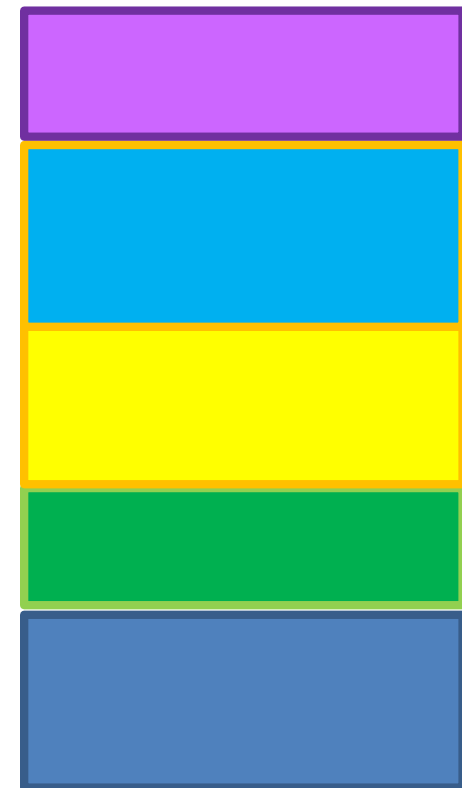
Costs according to H2020 rules

Costs according to national/ regional rules

Costs according to ESIF rules

25% of DC

Indirect costs

Other direct cost Equipment, Travel Materials, etc

x% of DC

Direct cost: Subcontracting

Direct cost: Personnel

DC: direct costs

EU Funding

National/Regional Funding

ESI Funding

Guide for applicants

European Structural and Investment (ESI) Funding

- If activities with costs are funded through ESI funds, then those activities **cannot obtain ECSEL-EU funding**.

- Various possibilities to include activities funded by ESI funds described in the Guide for Applicants

- Main issue: **no overlap**

- Risk mitigation: what happens if the activity does not get the ESI funding?

EU Reimbursement rates

The **MAX** funding percentages of the EU contribution are **different than under H2020**.

Type	IA	RIA	RIA-IMI-ECSEL	CSA
For profit (non SME)	**20%**	**25%**	**25%**	**100%**
SME	**25%**	**30%**	**30%**	**100%**
University/Other	**35%**	**35%**	**35%**	**100%**

EU Contribution as % of the eligible cost according to H2020 (<u>beneficiaries may ask for a lower contribution</u>)

National contributions: vary per state, see Section 10 of ECSEL JU Annual Work Plan 2020! *Contact the national authorities to inquire about specificities, limitations!*

Scoring and ranking

- At PO stage the score resolution is 0.5 and at FPP 0.1

- CSA Call score resolution is 0.5

- The different calls have different thresholds AND different weights.

- The thresholds determine if a proposal is "selectable" or not.

- The weights determine the ranking of the proposals above thresholds (at FPP stage)

- At the PO phase NO ranking is established

- The experts' ranking and scoring at the FPP is transmitted to the PAB for final decision.

- The ranking of the proposals can change after the PAB voting to align with the national strategies and priorities

Thresholds and weights

THRESHOLDS	PO IA/RIA	FPP IA/RIA	RIA IMI-ECSEL	CSA
Single criteria	2.5	3.0	3.0	3.0
Total	11.0	11.0	11.0	10.0

WEIGHTS	IA FPP	RIA FPP	RIA IMI-ECSEL	CSA
Excellence	1.0	1.0	1.0	1.0
Impact	1.5	1.0	1.0	1.0
Quality and efficiency of the implementation	0.7	0.7	0.7	1.0

Proposal submission

- Proposals must be complete:
  - **Part A**: administrative information including financial information (costs, funding) – filled in "online" each beneficiary can fill in its own data; ethics questions as well as specific ECSEL questions and "opt-out" of the **Horizon 2020 Open Research Data Pilot and Data Management Plan**

  - **Part B**: technical description – upload as pdf file (**mandatory** to use the provided Template!) – different from H2020 standard template! A model on both on ECSEL website and funding portal; template available in the submission link after creating the draft proposal

  - **Part(s) C** (specific for ECSEL)**:** country specific information; upload a password- protected zip file for each country by using the dedicated placeholder; email the ECSEL office to get the password (calls@ecsel.europa.eu)

IA, RIA, RIA-IMI Calls Mandatory Page Limits

- Use the default template and fonts!
  - Chapter **EXCELLENCE - 60 pages (both PO and FPP stage)**
  - Chapter **IMPACT - 60 pages (PO stage) 100 pages (FPP stage)**
  - Chapter **IMPLEMENTATION - 60 pages (PO stage) 100 pages (FPP stage)**

- Sections on participants description, ethics, public summary are excluded from the page limit

- The page limits and sections subject to limits are clearly indicated in the proposal templates.

- Expert evaluators will be instructed to disregard the excess pages.

CSA Digital Excellence Call Mandatory Page Limits

- Use the default template and fonts!
  - Chapter **EXCELLENCE - 30 pages**
  - Chapter **IMPACT - 30 pages**
  - Chapter **IMPLEMENTATION - 30 pages**
- Sections on participants description, ethics, public summary are excluded from the page limit
- The page limits and sections subject to limits will be clearly indicated in the proposal templates.
- Expert evaluators will be instructed to disregard the excess pages.
- *One stage Call – all sections MUST be completed!*

The Project Outline (PO) IA & RIA

- **Blocking** if under threshold

- Participants, budgets: **as complete and precise as possible BUT** changes are possible afterwards, though limited!

- <u>Part B of the Proposal to address</u>

  – Section 1. **Excellence (complete)**

  – Section 2. **Impact (partial)**,

  – Section 3. **Implementation (partial)**

  Fill in as indicated in the template!

The Project Outline (PO) IA & RIA

- Fill in the other Sections *if available info*:
  - Section 4. Members of the consortium;
  - Section 5. Ethics and Security;

- Section 6. **Publishable Summary** (**mandatory**!!!)

ONLY Successful proposals (above threshold) invited to FPP stage!!!

Feedback to applicants PO stage: ESRs (subjected to PAB decision) + information about the national eligibility

Full Project Proposal (FPP) IA & RIA and RIA IMI-ECSEL

- Part B of the Proposal to be fully addressed
  - Section 1. **Excellence (complete)**
  - Section 2. **Impact (complete)**,
  - Section 3. **Implementation (complete)**
  - Section 4. Members of the consortium **(complete)** **(evaluated under operational capacity!)**
  - Section 5. Ethics and Security **(complete)**
  - Section 6. **Publishable Summary** (**mandatory**!!!)

- **DO NOT FORGET:** *a draft plan for the exploitation and dissemination is an admissibility condition for FPP!!!*

PO AND FPP ARE TWO SEPARATE EVALUATIONS!!!

Open Research Data pilot

- Opting out does not affect the evaluation of your proposal

- Staying in – a data management plan must be provided in the Part B as indicated in the template;

Lighthouse Initiatives

- Calls 2020 do not foresee any new LI

- Joining an existing LI – via the LIASE

Proposal submission

✓ *Don't wait the last minute to submit the proposal! Part A requires a rather significant amount of data from each participant – start early! Your computer might needs some adjustments (e.g. your firewall is blocking to fill in the Part A)*

✓ *Each participant needs to have a PIC number in order to be added to the consortium (only the coordinator can add participants to the consortium and only the coordinator can submit the proposal!)*

✓ *Make sure you use the correct link before starting to fill in the data: for example for a RIA special topic use the RIA special topic link as proposals cannot be moved from one call to another; if you used the wrong link you have to start all over again in the correct link!*

✓ *For a given proposal can be several submission sessions (the new version will overwrite the old version and only the newest version will be kept in the system)!!*

✓ *Caution when uploading documents (Part B/ Part(s) C) make sure the intended version was uploaded and not one stuck in your browser "cache". Check after uploading – e.g. close the browser/login again and download the document!*

Proposal submission

✓ *Participants are recommended to check/update their legal data and fill in the data as appropriate as possible.*

❑ *If selected for funding the SMEs will be requested to do a self-assessment. If the results of self-assessment is that the respective participant is not an SME though it declared itself a SME when the proposal was submitted the funding will be adjusted accordingly (reduced to correspond to 'for profit non SME)*

❑ *If a participant is a non-for profit organization but at the proposal submission (FPP) filled in the funding rate of a for profit organization, during the GAP phase it will be very difficult to adjust (increase) the funding rate as the EU budget was already allocated.*

❑ *British participants are kindly advised to monitor the Funding and Tenders Portal for the most up to date information. ECSEL JU will apply the same rules as in H2020*

Proposal submission

✓ *Coordinators of proposals that request more than 500,000.00 € EU funding will have to undergo a financial viability check (except for public bodies, higher or secondary education establishments, international organization or body whose participation is guaranteed by the government of an EU country or associated country)*

✓ *Therefore the coordinators are advised to use the <u>self-check tool</u> available in the Participant Portal and in case of weak or insufficient financial capacity to already prepare an action plan*

✓ *Self-assessment forms are provided in the Calls Documents to help out the applicants*

From proposal submission to grant signature

Submission of Project Outline Proposal

↓

Admissibility and eligibility check

↓

Evaluation by experts

↓

Score of proposals   (under/above threshold)

↓

Feedback to coordinator

↓

Submission of Full Project Proposal

↓

Admissibility and eligibility check → Evaluation by experts

Individual   Panels

JU GA signature

↑

PAB final funding decision

↑

Start of JU GA preparation /national GA

↑

Communication to coordinator

↑

PAB Initial Funding Decision

↑

Final ranking (synergy with national/regional policies, available national funding) PAB

↑

Score of proposals (under/above threshold)

Grant Agreement

- V2.0 for projects of calls 2014 to 2016

- V3.0 for projects of calls 2017, and via amendment also for calls 2014 to 2016
  - some simplifications for cost eligibility

- V4.0 july 2017
  - possibility for internal cost based on unit cost according to accounting rules of beneficiary
  - payment to researchers in frame of H2020 cannot be lower than national contracts (EU-13)

- [V5.0 dec 2017](#) – from projects of calls 2017 onwards
  - Article 29.3 - "Open access to research data"
  - Articles 34 - "Ethics and research integrity"
  - Minor drafting changes and correction of clerical mistakes

Calls Info

- Call related questions/"ECSEL HelpDesk":

  calls@ecsel.europa.eu

- Calls coordinator: Simona Rucareanu
- Backup calls coordinator: Bahija Ziane

Proposal submission

For any IT issues when submitting the proposals CONTACT directly the IT helpdesk (provide screen shots!): https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/helpdesks/contact-form

ECSEL Calls Webinar 13 February 2019

Thank you!

Questions?

For updates check: https://www.ecsel.eu/calls/calls-2020

E-mail: calls@ecsel.europa.eu