Horizon 2020
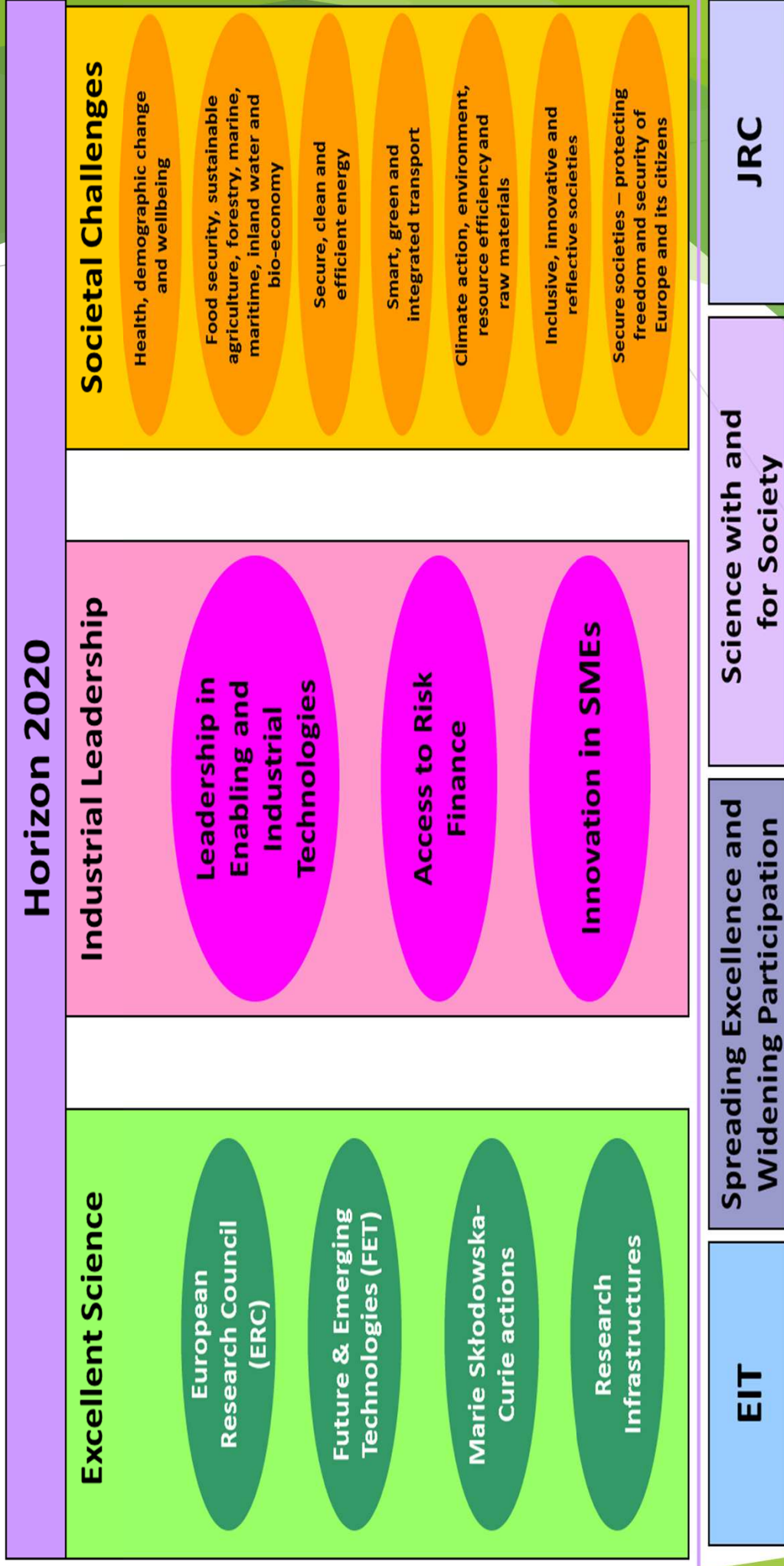# Public-Public Partnerships:
ERA-Net Co-fund

Authent-net workshop

Geel, 15/16 March 2017

Structure of Horizon 2020

Horizon 2020

Excellent Science
- European Research Council (ERC)
- Future & Emerging Technologies (FET)
- Marie Skłodowska-Curie actions
- Research Infrastructures

Industrial Leadership
- Leadership in Enabling and Industrial Technologies
- Access to Risk Finance
- Innovation in SMEs

Societal Challenges
- Health, demographic change and wellbeing
- Food security, sustainable agriculture, forestry, marine, maritime, inland water and bio-economy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, environment, resource efficiency and raw materials
- Inclusive, innovative and reflective societies
- Secure societies – protecting freedom and security of Europe and its citizens

EIT

Spreading Excellence and Widening Participation

Science with and for Society

JRC

Instrument/ Initiative	Objective	Role of Member States and Commission
ERA-NET (FP6 and FP7) 71 under FP6, 82 under FP7 38 still running	**Coordinate national research programmes** in a selected area	MS launch and implement joint actions/calls (> Euro 2,1€ billion in joint calls by the end of 2014). EU supports MS networking with Euro 330 million, expected leverage ≈ 10.
ERA-NET Plus (FP7) 23 under FP7	Enhance **joint funding by MS and EU** in a selected area by co-funding of a single joint call.	MS launch and implement a joint call with a top-up of EU funding (≈ Euro 500 million in joint calls, with EU funding of Euro ≈ 150 million).
ERA-NET Cofund (Horizon 2020) Merger of ERA-NET and ERA-NET Plus, 25-30 2014/5	**Support public-public partnerships** between Member States, including joint programming initiatives	MS implement a transnational call for proposal with Union co-funding (compulsory). In addition to the co-funded call other joint activities including other joint calls without Union co-funding.
Article 185 Initiatives 5 initiative under FP6/7, of which 4 renewed under Horizon 2020	**Integrate national and European research programmes** in selected areas	EU contributes with matching funds to implement MS multiannual programmes (under Horizon 2020 currently Participating States Euro 2,019 billion, Union contribution Euro 1,445 billion) Horizon 2020: AAL2 (Active and Assisted Living), EDCTP2 (Clinical Trials), EMPIR (Metrology), Eurostars2 (SMEs)
Joint Programming Initiatives (JPIs) 10 initiatives	**Member States address jointly a societal challenge** by coordinating / integrating national research programmes	MS develop and implement common Strategic Research Agenda EU supports MS networking and co-funds selected joint calls with ERA-NET Plus/ ERA-NET Cofund

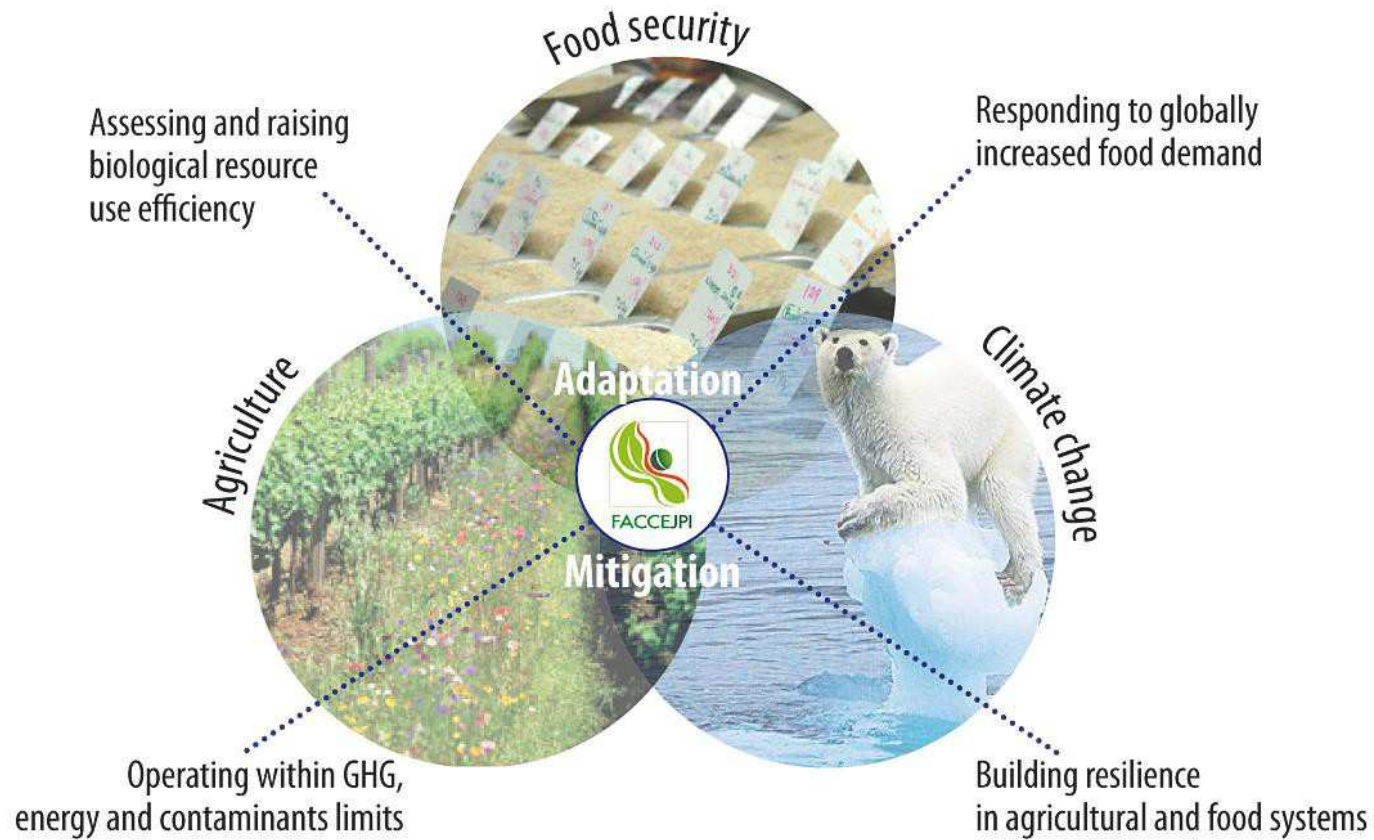| Instrument/ Initiative	Objective	Implementation
European Technology Platforms (ETPs) 41 ETPs	Contribute to increasing synergies between different research actors, ultimately enhancing European competitiveness	ETPs are industry-led stakeholder fora that develop short to long-term research and innovation agendas and roadmaps for action at EU and national level.
European Innovation Partnerships (EIPs) 5 EIPs	Pool public and private funding around priorities agreed at EU level	Stakeholders through steering and action groups. EIPs can draw on all EU instruments, but main funding at national and regional level, public and private.
European Institute for Innovation and Technology Knowledge Innovation Community (EIT-KICs) 3 KICs under FP7, 5 new ones under Horizon 2020	Boost Europe's innovation capacity and create a new European way of delivering essential economic growth and societal benefits	The EIT fully integrates the three sides of the "Knowledge Triangle" (Higher Education, Research, Business, Innovation). Euro 0,3 billion for the 2008 – 2013 period, Euro 2,7 billion under Horizon 2020. KICs are the operational part, bringing together actors from the entire innovation web. Budget contribution from the EIT: maximum 25% of the KIC's total budget.

Joint Programming Initiatives

- ▶ Neurodegenerative diseases (JPND) (Alzheimer's)
- ▶ Agriculture, Food Security and Climate Change (FACCE)
- ▶ Cultural Heritage and global change: a new challenge for Europe
- ▶ Healthy diet for a healthy life
- ▶ More Years, Better Lives (Demographic Change)
- ▶ Anti-Microbial resistance
- ▶ Healthy and Productive Seas and Oceans
- ▶ Water Challenges for a Changing World
- ▶ Connecting Climate Knowledge for Europe (Clik'EU)
- ▶ Urban Europe

Agriculture, Food Security and Climate Change
Joint Programming Initiative (FACCE-JPI)

- Addressing major societal challenges that cannot be solved solely on the national level, and allowing Member States to participate in those joint initiatives where it seems useful for them (**voluntary participation** with **variable geometry**)

- Aligning national programmes to minimise duplications, bring critical mass, best use limited financial resources

- Identify national priorities and provide coherence between Member States
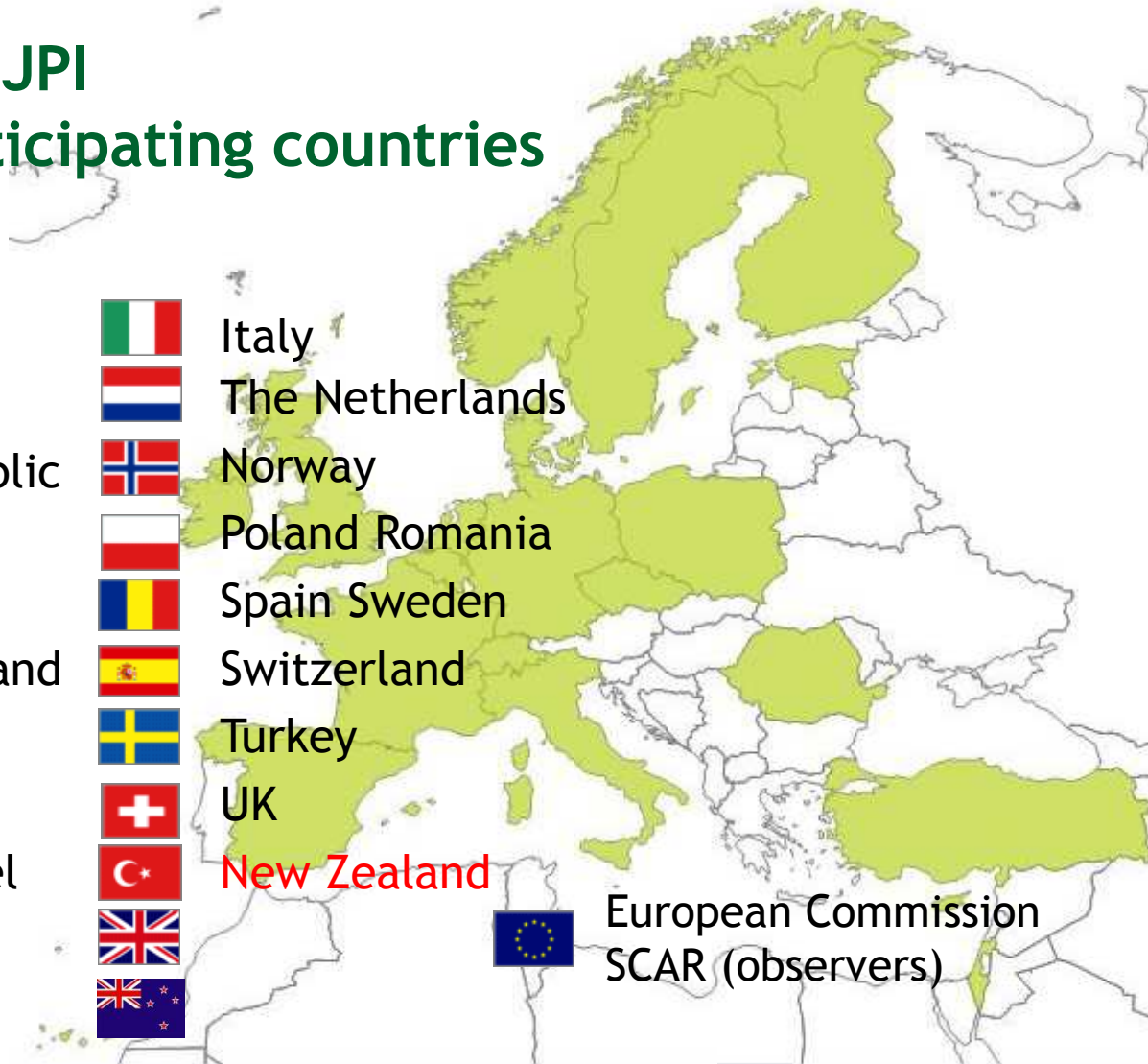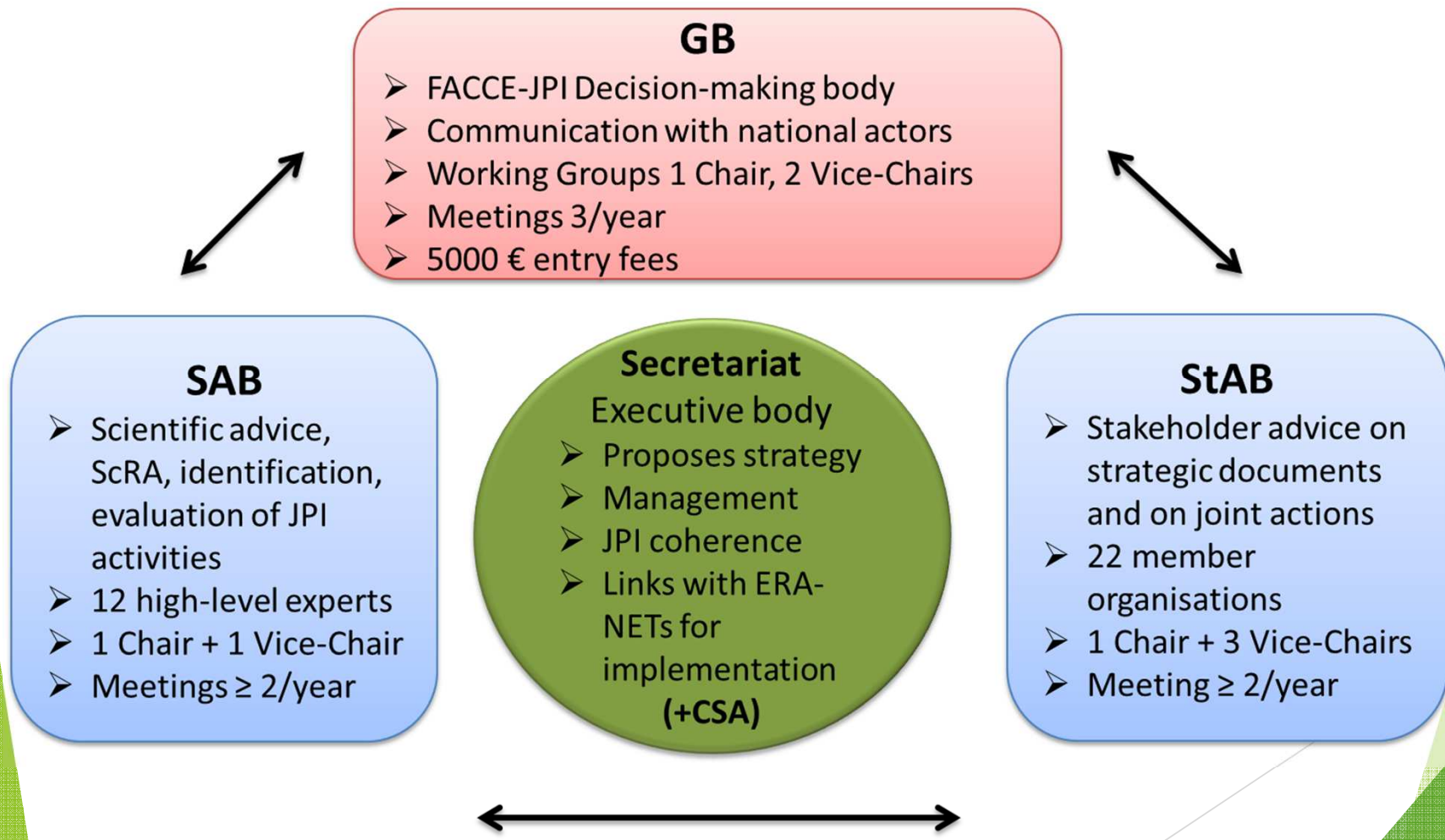
FACCE SCOPE

Food security

Assessing and raising
biological resource
use efficiency

Responding to globally
increased food demand

Agriculture

Climate change

Adaptation

FACCEJPI

Mitigation

Operating within GHG,
energy and contaminants limits

Building resilience
in agricultural and food systems

FACCE-JPI
22 Participating countries

Austria
Belgium
Czech Republic
Cyprus
Denmark
Estonia Finland
France
Germany
Ireland Israel

Italy
The Netherlands
Norway
Poland Romania
Spain Sweden
Switzerland
Turkey
UK
New Zealand

European Commission
SCAR (observers)

FACCE-JPI governance

GB

- FACCE-JPI Decision-making body
- Communication with national actors
- Working Groups 1 Chair, 2 Vice-Chairs
- Meetings 3/year
- 5000 € entry fees

SAB

- Scientific advice, ScRA, identification, evaluation of JPI activities
- 12 high-level experts
- 1 Chair + 1 Vice-Chair
- Meetings ≥ 2/year

Secretariat
Executive body
- Proposes strategy
- Management
- JPI coherence
- Links with ERA-NETs for implementation

(+CSA)

StAB

- Stakeholder advice on strategic documents and on joint actions
- 22 member organisations
- 1 Chair + 3 Vice-Chairs
- Meeting ≥ 2/year

Joint Programming – FACCE-JPI
A three stage process

- Development of a **Common Vision -** How cooperation and coordination of research at EU level can address the challenges of food security

- Translate it into a **Strategic Research Agenda** (SRA)
Establishing medium to long-term research needs and objectives in the area of food security through adaptation to and mitigation of climate change in agriculture

- SRA **implementation**
Development of specific Member State owned actions to address the priorities identified in the Strategic Research Agenda with countries participating in those actions where they have specific interest.

Ongoing joint actions

(Green = with EC co-funding)

€111M

Core Theme 1 Food security under climate change	Core Theme 2 Sustainable intensification of agriculture	Core Theme 3 Biodiversity & ecosystem services	Core Theme 4 Adaptation to climate change	Core Theme 5 GHG mitigation in agriculture

Knowledge Hub on modelling the impacts climate change on food security **(MACSUR)** - partnerhsip with AgMip (€15M, 300 researchers)

International call (Collaborative Research Action) on food security and land use change with the Belmont Forum (Australia, Brazil, India, Japan, South Africa, USA) (€5.3M)

Knowledge Network on sustainable intensification

FACCE ERA-NET Cofund on Sustainable agriculture for food and non-food systems **(SURPLUS)** with New Zealand (€15M)

Thematic Annual Programming Network on agricultural soil quality and soil C sequestration

Joint call with the BiodivERsA ERA-NET (€10M)

+ Exploratory workshops on food and nutrition security, ICT, biorefinery, etc.

FACCE ERA-NET + on Climate Smart Agriculture (€19M)

ERA-NET Cofund with Water JPI on sustainable water management in agriculture **(WATERWORKS 2015)** with Canada, Brazil, USA, China, Vietnam, India, Taiwan, Tunisia, Egypt, South Africa (€26M)

Multipartner call on agricultural GHG mitigation with the GRA (USA, Canada, New Zealand) (€5.5M)

FACCE ERA-NET Cofund on monitoring and mitigation of agricultural GHG **(ERA-GAS)** with New Zealand (€14M)

Standing Committee on Agricultural Research (SCAR)

▶ Established 1974

▶ Regulation of the Council on the coordination of EU agricultural research (under CAP legislation)

▶ Re-launched in 2005 with a revised mandate

▶ Currently represents 37 countries

SCAR Governance
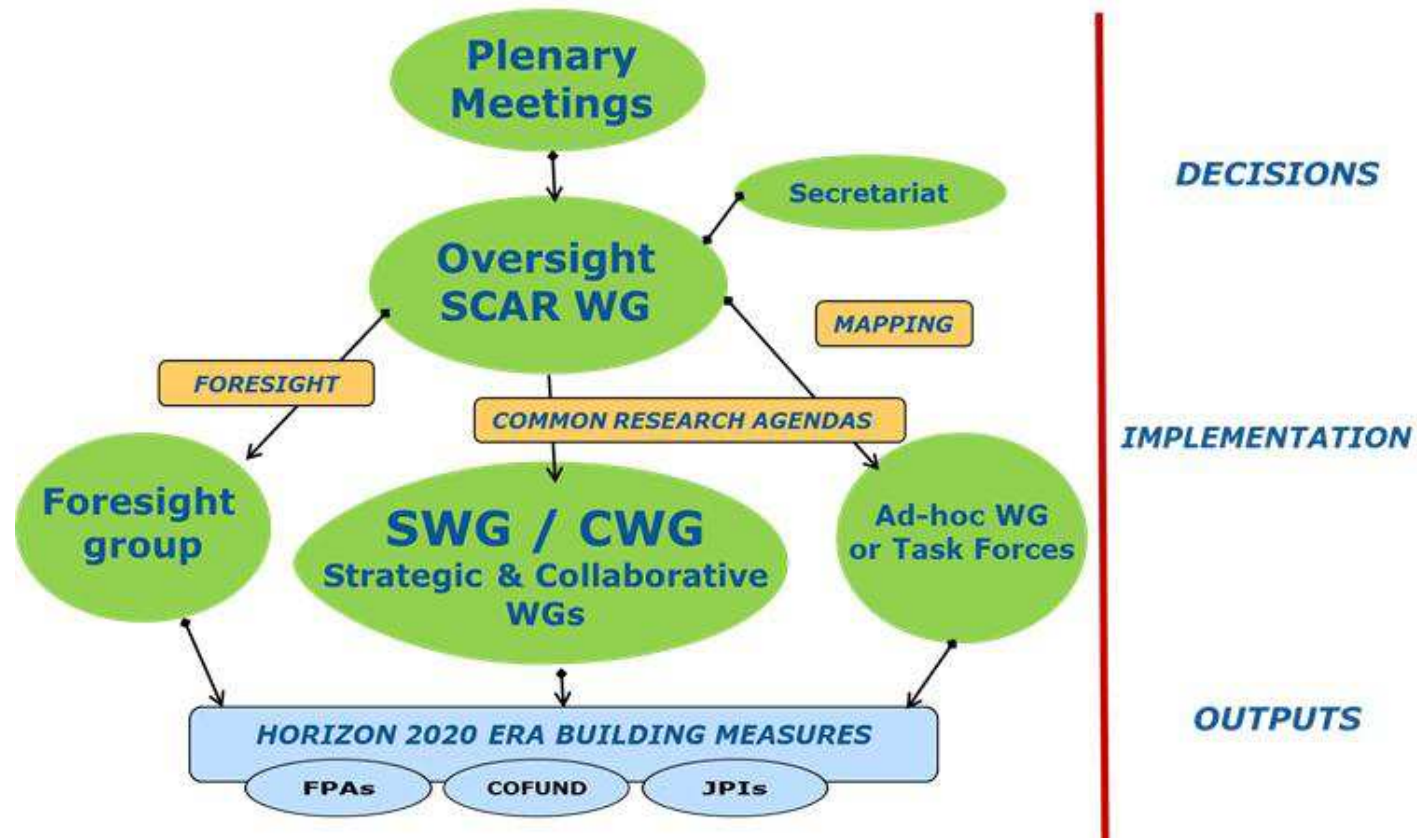
Strategic R&I Policy Advice

▶ Successor to Horizon 2020

▶ R&I initiatives in the CAP (post 2020), in particular the European Innovation Partnership

▶ Global cooperation e.g. SDGs and dealing with Climate Change (COP21)

▶ R&I support to forestry policies and implementation of the EU Forest Strategy

▶ Blue Growth Strategy including R&I in relation to fisheries policy

Delivery Groups: Strategic R&I policy advice and developing common research agenda

- SCAR Steering Group
- Foresight Group
- SWG AKIS
- SWG ARCH
- SWG SCARFISH
- SWG Bioeconomy

- SWG Forest
- SWG Food Systems
- CWG AHW
- CWG SAP
- Task forces and Ad hoc groups

Common Research Agenda

ON-GOING SWGs	Coordinator	SCAR countries	Kick-off meeting
Forest Research and Innovation	SE	13	10/10/2013
European Agricultural Research towards greater impact on Global CHallenges - ARCH	SCAR-EIARD	13	17/09/2013
Sustainable Bioresources for a Growing Bioeconomy - BIOMASS	NL	15	7/09/2012
Fisheries & Aquaculture - SCAR FISH	DK	18	14/06/2012
Agriculture Knowledge and Innovation Systems - AKIS III	FR-NL	16	4/05/2010
ON-GOING CWGs	Coordinator	SCAR countries	Kick-off meeting
Sustainable Animal Production	DE-ES	14	29-30/01/2014
Integrated Biorefineries	DE	12	13/11/2013
CWGs leading to ERA-Nets	Coordinator	SCAR countries	Kick-off meeting
IPM for the reduction of pesticide risks and use – IPM *ERA-NET "C-IPM"*	FR	18	13/05/2011
Forest value chain in the light of climate change – ERCF *ERA-NET "SUMFOREST"*	AT-DE	12	3-4/05/2011
Sust. food production for wealth, welfare and health *ERA-NET "SUSFOOD"*	DK	17	6/05/2010
Risk Research on GMOs *ERA-NET preparatory action "PreSto GMO"*	AT	15	13/10/2009
Coordinated research agenda for EU rural policy *ERA-NET "RURAGRI"*	SE - NL	7	23/11/2006
Agriculture and Sustainable Development *ERA-NET "RURAGRI"*	FR	11	6/12/2005
ICT and Robotics in Agro-Food Industries *ERA-NET "ICT-AGRI"*	DK	11	1/09/2005
Relevant Issues for Mediterranean Agriculture *ERA-NET "ARIMNet"*	FR	12	2/12/2005
Animal Health and Welfare *ERA-NET "ANIHWA"*	UK	21	8/12/2005
Animal Health *ERA-NET "EMIDA"*	UK	21	8/12/2005
STAND-BY or FINISHED CWGs	Coordinator	SCAR countries	Kick-off meeting
Shared Infrastructures in the field of Agricultural Research	FR	15	25/09/2008
Climate Change and Agriculture *included in the JPI "FACCE"*	ES	21	24/06/2008
Agriculture and Energy *supported by CSA "AGREE"*	DE	20	24/06/2008
Development of Sustainable Agriculture in the Baltic Sea Region	PL	8	17/11/2006
Ecology for Ecosystems & Natural Resources Sustainable Management	FR	8	16/06/2006
Adaptation of Human Nutrition to Environment Evolution	FR	10	29/05/2006
Advanced Technologies for Climatic Control of Greenhouses and Livestock Housing	IL	14	14/03/2006
Renewable Raw Materials and their Applications in Non-Food Industry	DE	18	27/09/2005
Sustainable Livestock Production from Grasslands	IE	21	1/12/2005

ERA-Net Co-fund

ERA-NET Objectives (FP7)

To develop and strengthen the coordination of public research programmes carried out at national or at regional level.

"Programmes" should be understood as entire research programmes, or parts of such programmes, or similar initiatives having the following characteristics:

- be strategically planned
- be carried out at national or regional level
- be financed or managed directly by national or regional public bodies, or by structures closely related (e.g. agencies)

ERA-NET FP6/FP7 – the principles

ERA-NET Coordination of programmes
- MS agree and fund joint calls/programmes
- EU funding only for coordination

ERA-NET *Plus* New in FP7: Top up of a single joint call
- MS contribute to a joint trans-national call
- EU funding for research: ≤ 33% of the joint call

ERA-Nets in the ENV and Food/Agriculture areas

CIRCLE 2 (climate impact)

BiodivERsA II

ICT-AGRI

ARD II: Agricultural Research for Development

EMIDA (Animal Health)

Plant Genomics

CRUE (flood risk management)

Bioenergy

ERASysBio

ERA-ENVHEALTH

CORE-Organic II

MARIFISH

SEAS-ERA

SAFEFOODERA

SNOWMAN (Soils and ground water

ARIMNET (MED)

SKEP (Env protection)

EUPHRESCO II (Plant Health)

WoodWiosdomNet

ERA-NET Cofund – main features

- **ERA-NET Cofund: implementation of a co-funded joint call for proposals** (compulsory, one co-funded call per Grant Agreement)*

- **EU contribution:** mainly a proportional contribution to total public funding of the joint call

- **Additional EU contribution to coordination costs on the basis of a unit costs** for additional activities including additional calls without top-up funding

- **Stable reimbursement rate:** ERA-NET Plus reimbursement rate from FP7 (33%) applies

- **Co-funded calls:** proposal evaluation and selection according to Horizon 2020 standards

* ERA-NETs based on a Coordination and Support Action (CSA) are no longer possible. Only in exceptional cases it might be considered to support the preparation and structuring of specific emerging P2Ps that demonstrate clear European added value.

Who can participate ?

- **Eligibility conditions ERA-NET Cofund similar to ERA-NET under FP7.**

- Participation is limited to entities that can fully participate in joint calls and other actions between national and regional programmes.

- Participants in ERA-NET Cofund actions must be research funders: legal entities owning or managing public research and innovation programmes.

- **Programme Owners** are typically national/regional ministries/authorities responsible for defining, financing or managing research programmes carried out at national or regional level.

- **Programme Managers** are typically research councils or funding agencies or other national or regional organisations that implement research programmes under the supervision of the programme owners. Their participation has to be mandated by the national/regional authorities in charge (normally the responsible Ministry).

- Only in addition to the minimum conditions, and if justified by the nature of the action, **programmes funded by other entities** (international programmes, foundations or other non-public programmes) may participate.

Financing of the co-funded call

Implementation &
other activities: 1 Mio Euro
(outside grant agreement)

Call budget:
30 Mio Euro
(grant agreement)

EU contribution:
9,9 Mio Euro
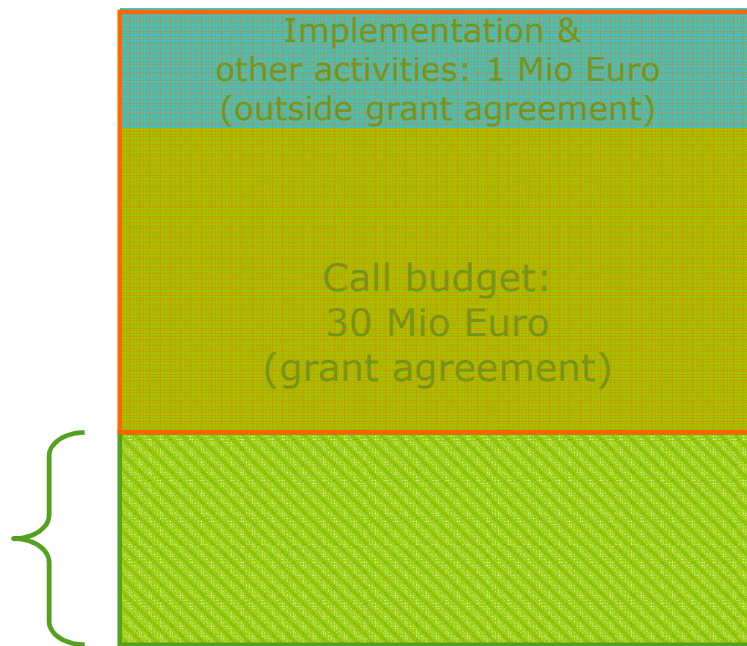
Option 1:
20,1 Mio public funds and 1 Mio in kind or operational budget

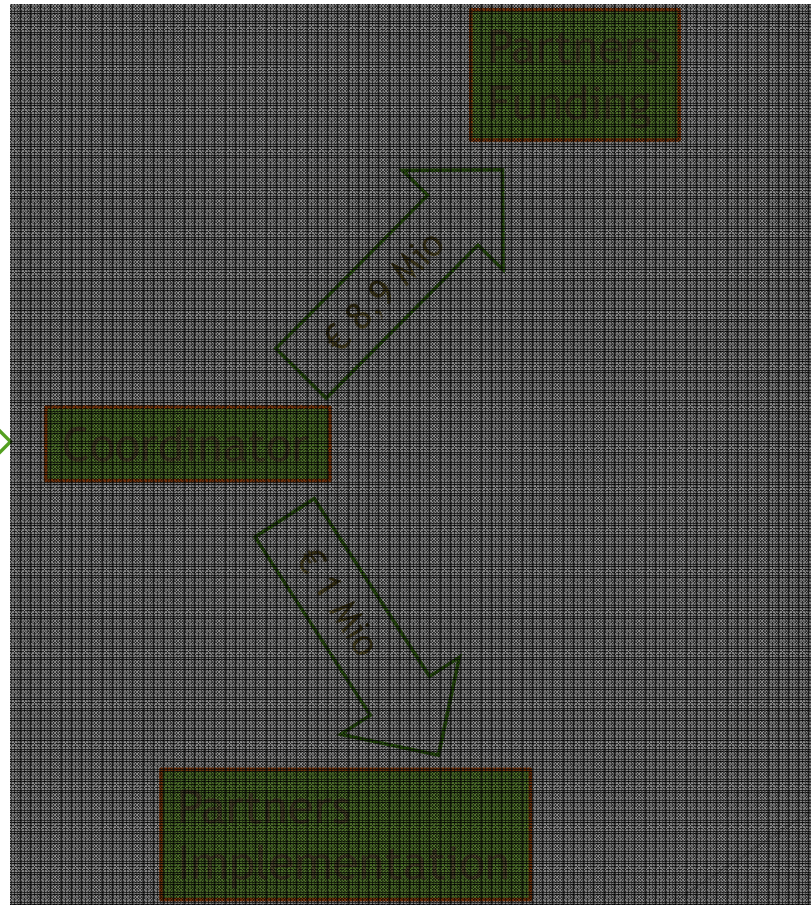◦ MS contribution:
20,1 +1 = 21,1 Mio Euro

Total resources needed:
31 Mio Euro

Option 2:
21,1 Mio public funds

Example: cash-flow

COM

€ 9,9 Mio

Coordinator

€ 8,9 Mio

Partners Funding

€ 1 Mio

Partners Implementation

€ 30 Mio

Beneficiaries
Grants paid to Projects

ERA-NET Cofund: optional additional activities

- ERA-NET Cofund consortia **may carry out other activities in addition** to the call receiving top-up funding.

- **Option is normally defined in the call text**, e.g.: "Proposers are encouraged to implement other joint activities including additional joint calls without EU co-funding".

- **Activities have to be related to the coordination of public research and innovation programmes** and should focus on the preparation and implementation of joint activities including additional calls without Union top-up funding (**typical ERA-NET FP7 activities**).

- **Additional partners might be involved** which do not participate in co-funded calls.

- The coordination cost for the other activities takes the form of a **unit cost per beneficiary year** and is limited to those beneficiaries that carry out activities that go beyond the co-funded call.

- Proposers have to **demonstrate the appropriateness of the overall coordination costs** for the proposed additional activities.

➔ Maximum reimbursement per beneficiary per year of EURO 11 962,50.

➔ Annex WP H2020: Union contribution to coordination costs for additional activities should not exceed 20% of the total Union contribution to the project.

➔ Beneficiaries carrying out the trans-national project themselves cannot claim coordination costs.

ERA-NETs and the funding modes they use

Real common pot

- Countries pool their national contributions to a common and centrally administered call budget (Transnational flow of funding)
  - ➜ Allows following the ranking list by avoiding any risk of mismatch between national funding contributions and requested budgets for successful proposals
  - ➜ Very few ERA-NETs have used this model

Virtual (or distributed) common pot

- Countries pay for their own participants (no trans-national flow)
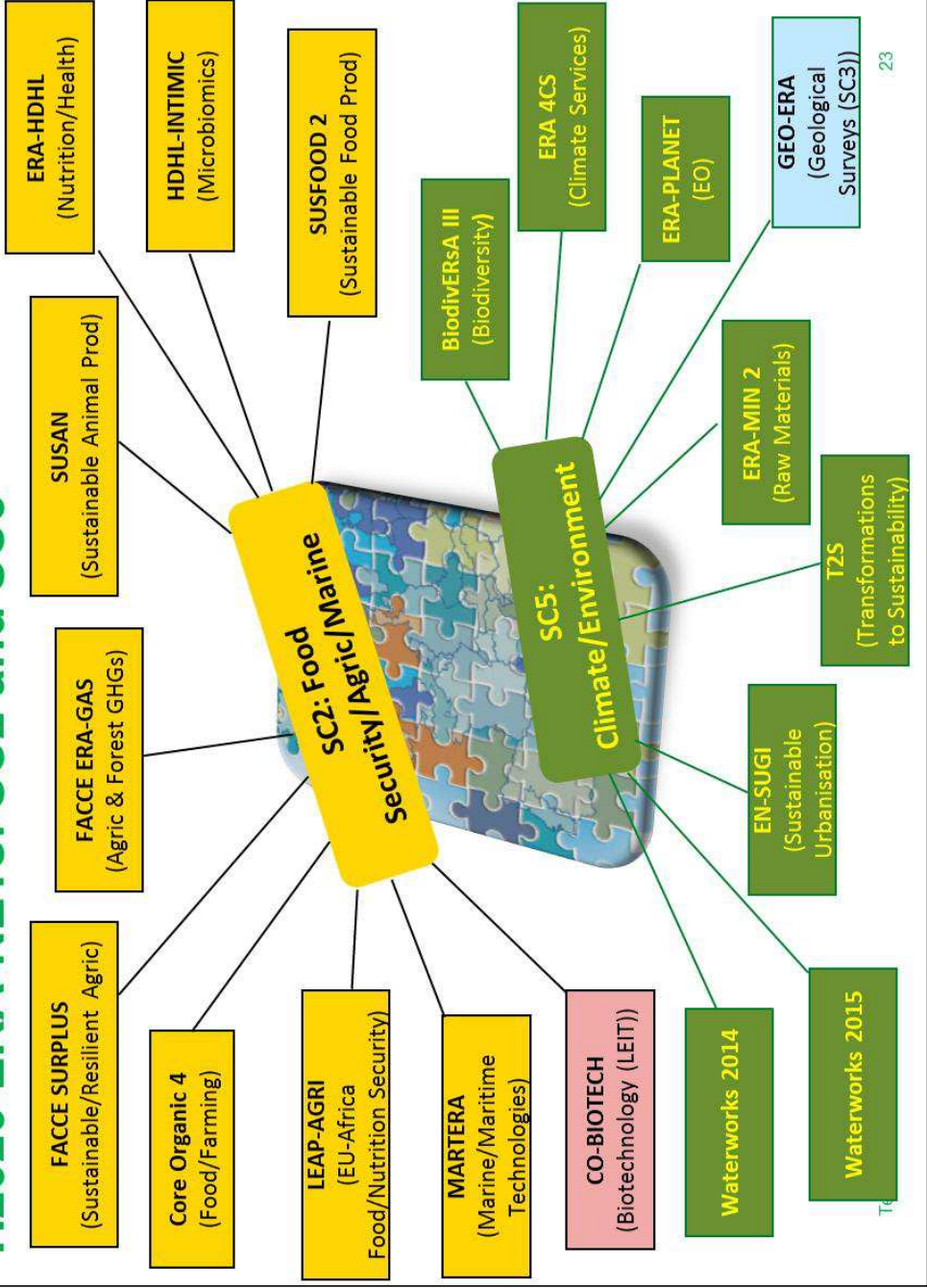 - ➜ Successfully used by the majority of ERA-NETs

Mixed mode

- Good practice: part of the budget reserved as "real common pot
  - ➜ Allows following the ranking list
  - ➜ Standard model for co-funded calls (ERA-NET Plus actions)

Co-funded call – practical issues

- **Choice of the funding mode** to ensure selection according to ranking
  - ➜ good practice: mixed mode
  - ➜ real common pot: possible

- Use of **step 1 to balance requested and available funding**

- Possibility to use **more than one call topic**
  - ➜ dedicated budgets per topics, multiple ranking lists or
  - ➜ use expert panel to adjust scores and create single ranking list

- Only **proposals with identical scores at the threshold of available funding** may be selected according to the availability of funds in order to maximise the number of selected projects.
  - ➜ choice of half scores / vs. full scores

- **Independent expert as observer**: appointed by the consortium, to assess the conformity of the implementation of the joint call and, in particular, review the proper implementation of the independent international peer review and the establishment of the ranking list of trans-national projects.

- Possibility of **centralised management** of grant agreements

➜ **Make use of good practice documented by ERA-LEARN**

H2020 ERA-NETs: SC2 and SC5

SC2: Food Security/Agric/Marine

SC5: Climate/Environment

- **ERA-HDHL** (Nutrition/Health)
- **HDHL-INTIMIC** (Microbiomics)
- **SUSFOOD 2** (Sustainable Food Prod)
- **SUSAN** (Sustainable Animal Prod)
- **FACCE ERA-GAS** (Agric & Forest GHGs)
- **FACCE SURPLUS** (Sustainable/Resilient Agric)
- **Core Organic 4** (Food/Farming)
- **LEAP-AGRI** (EU-Africa Food/Nutrition Security)
- **MARTERA** (Marine/Maritime Technologies)
- **CO-BIOTECH** (Biotechnology (LEIT))
- **BiodivERsA III** (Biodiversity)
- **ERA 4CS** (Climate Services)
- **ERA-PLANET** (EO)
- **GEO-ERA** (Geological Surveys (SC3))
- **ERA-MIN 2** (Raw Materials)
- **T2S** (Transformations to Sustainability)
- **EN-SUGI** (Sustainable Urbanisation)
- **Waterworks 2014**
- **Waterworks 2015**

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Welcome to ERA-LEARN 2020

ERA-LEARN 2020 is a support action (CSA) funded by Horizon 2020. It started in January 2015 as a support platform for the Public-Public-Partnerships (P2P) community.

Learn more about ERA-LEARN 2020

Public to Public Partnerships (P2Ps)

P2Ps align national strategies, helping to overcome fragmentation of public research effort. P2Ps (ERA-NETs, Article 185, Joint Programming) involve varying degrees of joint effort, such as the co-ordination and integration of national programmes, the implementation of joint calls with EC contribution, and high-level commitment to address a particular societal challenge.

Read more

Open calls for transnational RTD projects

Calendar of joint calls launched by P2P networks

Subscribe to the ERA-LEARN newsletter

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Public to Public Partnerships (P2Ps) in numbers

93 Active Networks

45 Active Joint Calls

103 Participating Countries

1238 Organisations

Latest news

07/02/2017
Conference Report Annual Joint Programming Conference 22-23 Nov 2016 now available

23/01/2017
PLATFORM of bioeconomy ERA-NET Actions published Policy Brief No. 3: The role of the ERA-NET instrument in fostering inclusiveness

13/01/2017
New case studies on current approaches to alignment

01/12/2016
Summary on Workshop on the Practical Implementation of Alignment (23/11/2016) ready for download

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ERA-NET Co- fund actions 2018-2020: Headline Criteria

ERA-NET Cofund actions 2018-2020: Headline Criteria

▶ **Justification of Union intervention**

▶ **Budgetary issues and leverage effects**

▶ **Expected impacts on EU and national level**

1. Justification of Union intervention

Contribution to objectives: topic is linked to overarching strategic programming document and/or strategic orientations of priority/challenge

➜ *No support to topics that are not clearly linked to strategic orientations of WP 2018-20*

Relevance and positioning in broader context: proof of non-duplication and clear synergies/division of labour with other H2020 activities and existing P2P initiatives (JPIs, ERA-NETs, EJP, Art.185's)

➜ *No support to topics already covered by H2020 calls unless there is clearly demonstrated complementarity*

➜ *No support to activities/topics already covered by support to other P2Ps*

Added value of Union intervention at EU level and national level: achievement of critical mass of resources; definition of strategic priorities between Member States and EU; commitment to implement variety of relevant activities

➜ *No support to topics that do not demonstrate that resources mobilised and variety of activities are adequate to achieving objectives*

2. Budgetary issues and leverage effects

Indicative financial commitments: amounts that participating states intend to contribute to the action (for the co-funded call, for the additional calls, for other activities at national/transnational level)

➜ *No support to topics that are not supported by indicative commitments to the co-funded call <u>and</u> to other calls/activities at national/transnational level*

Amount of requested Union contribution – leverage effect of Union contribution on national and private investments, also beyond the co-funded call

➜ *Minimum leverage effect of 5 to be expected by the Union support.*

This takes into account additional joint calls without co-funding.

➜ *Alternatively, in particular for topics linked to JPIs: quantitative evidence of relevant resources being mobilised at national and transnational level.*

➜ *For new topics the leverage effect can, in justified cases, be reduced to 3.*

3. Expected impacts on EU and national level

Impact at EU level: demonstrate the impacts at EU level the action is likely to achieve

Impacts at national level: demonstrate the impacts at national level the action is likely to achieve

➔ *no support to topics that do not clearly demonstrate the expected impacts at EU and at national level*

2018-2020 ERA-Net Co-fund topics

Country/Organisation (Funding):				
Proposed Co-fund Activity	Interest in participation Yes/No (If "Yes" rank priority from 1 to 6, 1 being the highest priority)	Preferred Start Year	Indicative contribution (€) to the Co-funded research call (no commitment required at this stage)	Timing of funding (likely date for confirmation of budget)
Veterinary vaccinology				
Food authenticity				
Blue Bioeconomy: unlocking the potential of aquatic bioresources				
Mountains Research				
ICT Agriculture				
Food and nutrition security				

Co-fund governance

Step1
- National consultation by the SCAR/SC2 PC
- European consultation by European Commission (SCAR Secretariat)

Step 2
- Collation of inputs by SCAR Sec; analysis of consultation responses by SCAR WG to produce "long-list" of topics

Step 3
- Second Consultation at national level of research funding organisations by SCAR (in coordination with SC2 PC)

Step 4
- Collation of inputs by SCAR Sec; analysis of consultation responses by SCAR WG (may involve SCAR/SC2 PC workshop) to produce a short-list of topics

Step 5
- Consideration of topic short-list by SC2 PC and agreement of work programme topics based on budgetary consideration; adoption of work programme by European Commission