

European Commission

# HORIZON 2020

The EU Framework Programme for Research and Innovation

#### 2014-2020

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# **Georgian Association to H2020**





European Commission



GE (data up to 27/05/2016)	Horizon 2020 (signed grants)	FP7
Total number of GE participations in signed grant agreements	14	75
Total number of signed grant agreements with GE participants	12	60
Total EC contribution to GE participants (Million euros)	0.7	5.8
Total Non EC budget of GE participants (Million euros)	0	0.9
Collaborative actions (all except ERC, MSCA, SME Instrument): Number of GE participations	12	60
Collaborative actions (all except ERC, MSCA, SME Instrument): Number of Projects with GE participants	10	48
Collaborative actions (all except ERC, MSCA, SME Instrument): EC contribution to GE participants (Million euros)	0.7	4.6
Collaborative actions (all except ERC, MSCA, SME Instrument): Non EC budget of GE participants (Million euros)	0	0.9
Collaborative actions (all except ERC, MSCA, SME Instrument): Success rates of proposals with GE participants	15.20%	
SME Instrument: Number of GE participations	0	
SME Instrument: EC contribution to GE participants (Million euros)	0	
SME Instrument: Non EC budget of GE participants (Million euros)	0	
Marie Sklodowska-Curie actions: Number of GE participations	2	15
Marie Sklodowska-Curie actions: EC contribution to GE participants (Million euros)	0	1.2
Marie Sklodowska-Curie actions: Non EC budget of GE participants (Million euros)	0	
ERC grants: Number of GE participations	0	0
ERC grants: EC contribution to GE participants (Million euros)	0	0
HORIZON 2020		European Commission

# ASSOCIATION TO H2020 =

FULL ACCESS TO ALL H2020 FUNDED ACTIVITIES (SAME CONDITIONS AS EU MSs), including now parts only limited to EU MS and ACs, e.g. ERC grants, SME instrument, Access to risk finance, capacity-building instruments,..

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PARTICIPATION IN THE PROGRAMME GOVERNANCE STRUCTURE (14 PROGRAMME COMMITTEES + JRC Board of Governors)

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PARTICIPATION IN EUROPEAN RESEARCH AREA (ERA) STRATEGIC GROUPS (ERA COMMITTEE; EUROPEAN STRATEGIC FORUM ON RESEARCH INFRASTRUCTURES; STRATEGIC FORUM on INTERNATIONAL COOPERATION)

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**PARTICIPATION IN EURAXESS (Researchers Mobility)** 



# ASSOCIATION TO H2020 =

**INTEGRATION OF GEORGIAN NCPs in ALL (22) EU NCP NETWORKS,** COORDINATION ACTIVITIES and TRAINING SESSIONS

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**POSSIBLE PARTICIPATION IN P2B, P2P INITIATIVES: JOINT PROGRAMMING INITIATIVES, JOINT TECHNOLOGY INTIATIVES, EUROPEAN INNOVATION PARTNERSHIPS** 

+

INTEGRATION OF GEORGIAN INDUSTRY/ S&T COMMUNITY IN RELEVANT EU STRATEGIC NETWORKS (e.g. TECHNOLOGY PLATFORMS, KICs)

## IMPLEMENTATION = (VERY) COMPETITIVE CALLS FOR PROPOSALS No guarantee of « fair return » !!



THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

# $HORIZ \bigcirc N 2020$

#### **ASSOCIATION = FULL ACCESS TO ALL ACTIVITIES**

#### Excellent Science

European Research Council

Future and Emerging Technologies

Marie Curie Actions

Research Infrastructures

#### Industrial Leadership

Leadership in Enabling & Industrial Technologies

- Information and communication technologies
- Nanotechnologies
- Advanced materials
- > Biotechnology
- Advanced manufacturing and processing
- > Space

Access to Risk Finance

Innovation in SME

#### Societal Challenges

Health, Demographic
 Change and Wellbeing

- Food security, sustainable agriculture, marine and maritime research and the bio- economy
- Secure, clean and efficient
  Energy
- Smart, Green and Integrated Transport
- Climate Action, Resource Efficiency and Raw Materials
- Europe in a changing world: Inclusive, Innovative and Reflective Societies
- Secure Societies -Protecting Freedom and Security of Europe and its Citizens

Joint Research Centre (JRC)

Widening Participation

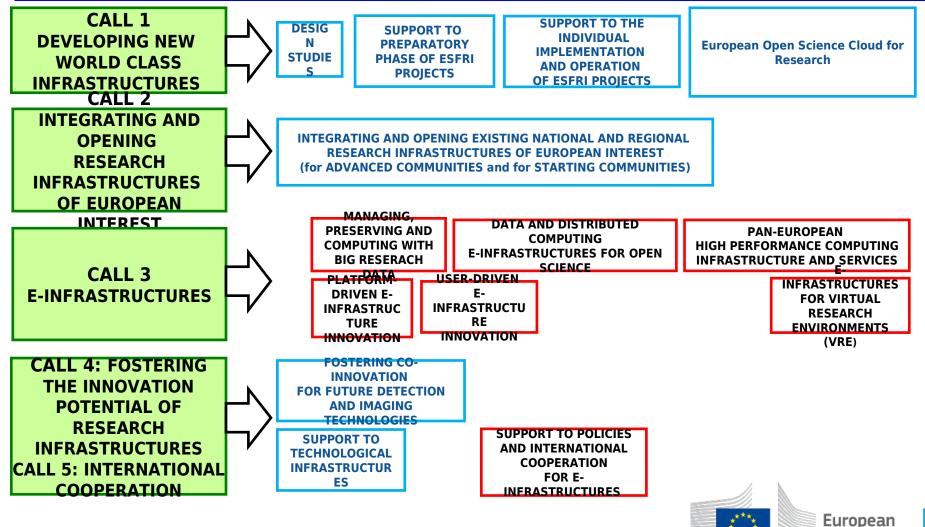
Science with & for Society

European Institute of Innovation and Technology (EIT)

Joint Programming P2P

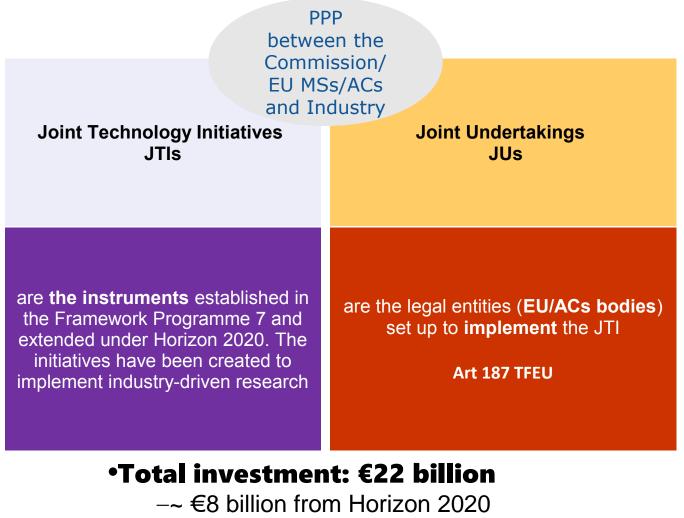
Joint Technology Initiatives P2B

#### **RESEARCH INFRASTRUCTURES** Work Programme 2016-2017



Commission

# JTI vs JU



- -~ €10 billion from industry
- -~ €4 billion from Member States/ACs



European Commission

# JTI JUS BUDGET (million € for 2014-2020)

Public Private Partnerships	EU (H2020)	<b>Private Partners</b>
Innovative Medicines Initiative 2 (IMI2)	1 638	1 425
Fuel Cells and Hydrogen 2 (FCH2)	665	380
Clean Sky 2 (CS2)	1 755	2 194
Electronic component and systems (ECSEL)	<b>1 185</b> (+ 1170 from MSs)	1 657
Bio-based Industries (BBI)	975	2 730
Shift2Rail (S2R)	450	470
European ATM system (SESAR)	585	1 000 (incl. Eurocontrol)



# **Horizon 2020 Programme Committee**

- Open to Member States as members and Associated Countries as observers
- Fourteen configurations
- The Commission reimburses "the expenses of one representative per Member State, as well as one expert/adviser per Member State for those agenda items where a Member State requires specific expertise" – also applies to Associated Countries.



# **Programme Committee Configurations (1/2)**

#### **1. Strategic Configuration**

Strategic overview of the implementation of the whole programme Coherence across all parts of the programme Cross-cutting issues including "Spreading Excellence and widening participation" and "Science with and for society"

- 2. European Research Council (ERC), Future and Emerging Technologies (FET), and Marie Skłodowska-Curie Actions
- **3. Research Infrastructures**
- 4. Information and Communication Technologies
- 5. Nanotechnologies, Advanced Materials, Biotechnology, Advanced manufacturing and processing
- 6. Space
- 7. SMEs and Access to Risk Finance



# **Programme Committee Configurations (2/2)**

- 8. Health, demographic change and wellbeing
- 9. Food security, sustainable agriculture and forestry, marine, maritime and inland water research and bioeconomy
- 10.Secure, clean and efficient energy
- **11.Smart, green and integrated transport**
- 12.Climate action, environment, resource efficiency and raw materials
- 13.Europe in a changing world: Inclusive, innovative and reflective societies
- 14.Secure societies protecting freedom and security of Europe and its citizens



# Joint Research Centres Board of Governors

- **1.** Institute for Environment and Sustainability (IES) *Meeting the challenges of a changing environment*
- 2. Institute for Energy and Transport (IET)
  - Towards sustainable energy and transport for tomorrow and beyond
- 3. Institute for Health and Consumer Protection (IHCP) Science for a healthier life
- 4. Institute for Prospective Technological Studies (IPTS) Understanding the links between technology, economy and society
- 5. Institute for Reference Materials and Measurements (IRMM) IRMM - Confidence in measurements ®
- 6. Institute for Transuranium Elements (ITU) Strengthening nuclear safety and security
- 7. Institute for the Protection and Security of the Citizen (IPSC) *Turning data into information*



### **European Strategy Forum on Research Infrastructures (ESFRI)**

Strategic instrument to develop the scientific integration of Europe and to strengthen its international outreach. The competitive and open access to high quality Research Infrastructures supports and benchmarks the quality of the activities of European scientists, and attracts the best researchers from around the world

- Two delegates from Georgia
- •One high-level Ministry official responsible for research infrastructures
- •One scientific expert in the field
- Forum meetings are held four times a year



# **European Research Area and Innovation Committee (ERAC) 1/2**

- ERAC is a strategic policy advisory committee that **advises the Council, the Commission and member states** on the full spectrum of research and innovation issues in the framework of the governance of the European Research Area.
- The Committee is co-chaired by the Commission and an elected representative from a member state.
- The Council provides its secretariat.



# **European Research Area and Innovation Committee (ERAC) 2/2**

ERAC can also meet in two dedicated configurations, which were established by the Council and are chaired by an elected representative of an EU country:

the High Level Group on Joint Programming (GPC), which contributes to the preparation of the debates and decisions of the Competitiveness Council on joint programming

**the Strategic Forum for international S&T Cooperation (SFIC)**, which advices the Council and the Commission on the implementation of a European Partnership in the field of international scientific and technological cooperation (S&T cooperation)



# **Spreading Excellence and Widening Participation** (competitive calls)

**Teaming** will invest in Europe's research and innovation potential through supporting the creation of new (or upgrading of existing) Centres of Excellence in low R&I performing Member States and Associated Countries on the basis of partnerships with internationally leading institutions.

**Twinning** aims to build on the huge potential of networking for excellence through knowledge transfer and, exchange of best practice between research institutions and leading partners.

**ERA Chairs** will bring outstanding researchers to universities and other research organisations, in those countries, that have high potential for research excellence to help them attract and maintain high quality human resources and implement the structural changes necessary to achieve excellence on a sustainable basis.



# **Teaming objective in H2020**

•Creation of new (or significant upgrade of existing) Centres of Excellence in low R&I performing or "Widening" countries

The Partnership: 2 parties in each Teaming project

•(1) the COORDINATOR from a "Widening" country (must be a national/regional authority, research funding agency, university or res. organisation)

•(2) a university or res. organisation with an international reputation in R&I excellence (from all EU28 or AC)

Implementation in 2 Phases



# **Teaming: Scheme Design**

<u>Phase 1:</u> Funding the development of a **Business Plan** for the new/upgraded Centre of Excellence facilitated by a teaming process with a leading counterpart in Europe

Proposals (Phase 1):

- Demonstrate the long-term science and innovation strategy of the future Centre
- Outline how this strategy broadly fits with the RIS3 of the Widening country
- Demonstrate that the project is based on a true joint venture between the parties
- **Phase 2:** Subject to the quality of the Business Plan, and the financial commitment for the project from other sources, the Commission may provide further substantial financial support for the **first steps of implementation** of the Centre

Proposals (Phase 2):

•Business Plan (Phase 1 deliverable) with robust financial commitments (national/ESIF/private funds)

><u>IMPORTANT</u>: Access to Phase 2 is only available to those proposals already HGUPDOrted in Phase 1!

## Teaming under the 2016-17 WP

#### Phase 1 Call : Business Plan for a Centre of Excellence (CoE)

<u>Budget</u> :	€12 million
Call publication:	14 October 2015
Call opening:	28 July 2016
Call deadline:	15 November 2016
Project Size:	€400,000 (eligibility condition)
Project Duration:	12 months (eligibility condition)
Funding for:	Business Plan
Implementation:	Coordination and Support Action

#### Phase 2 (Restricted) Call in 2018: Start-up/Implementation of the CoE

Project size & duration: ~ €15 million & 5-7 years Implementation: Coordination and Support Action Funding for: Substantial support for the start-up phase of the CoE (administrative, personnel and operational costs as well as very limited support for equipment and consumables)

#### More information for Phase 2 in the future 2018 Work Programme



#### **Twinning: Aim, Objectives & Partnership**

#### Aim of the action:

Strengthen a <u>defined field of research</u> in a <u>university or research</u>

organisation from a Widening country by linking it with at least two

internationally-leading research institutions in other Member States

or Associated Countries.

#### Main objectives:

•Enhance the S&T capacity of the institutions-Focus on institution in Widening country

•Raise the research profile of the institution and of its research staff

The Partners: (Minimum Conditions)

**ONE** institution located in a "Widening" MS/AC (**COORDINATOR**)

A **minimum of TWO** additional partners from two different MS or AC other than the country of the coordinator.



#### **Twinning: Proposal Design & Impact**

#### Proposals:

Scientific strategy for excellence and innovation in a defined area of research;

Outline the scientific quality of the partners;

#### Activities supported:

Short term staff exchanges; expert visits and short-term training; workshops; conference attendance; dissemination and outreach activities.

#### **Expected Impact:**

Research excellence, in particular, in the selected field of research;

Improved capability to succeed in competitive research funding;

Enhanced reputation, attractiveness and networking;

The expected potential impact of the project illustrated by a number of indicators.



#### Twinning: Costs & Call 2017 details

#### **Eligible Costs:**

Coordination and networking;

Joint activities;

Dissemination and outreach activities.

Infrastructure, equipment & research costs will NOT be funded.

#### Twinning Call 2017:

Budget:€20 millionCall publication:14 October 2015Call opening:11 May 2017Call deadline:15 November 2017Project Size:up to €1 million (eligibility condition)Project Duration:up to 3 years (eligibility condition)Implementation:Coordination and Support Action



#### **ERA Chairs: Proposal Design & Impact**

#### Proposals:

Bottom-up approach but connected with the ERA Chair holder expertise to fully capitalise on his/her presence;

Include measures to foster ERA priorities (open recruitment, peer review, gender balance, Charter & Code);

Include a plan to increase Research Capacity - if infrastructures foreseen present a strategy for funding (including possible use of ESIF funding).

#### **Expected Impact:**

Increased attractiveness of institution and region for excellent researchers;

Research excellence in the fields covered by the ERA Chair;

Improved capability of the institution to succeed in competitive research funding;

Institutional changes to comply with ERA priorities.

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#### **ERA Chairs: The ERA Chair holder**

•The ERA Chair should be an outstanding researcher and research manager with a proven record of leadership;

• The ERA Chair appointment must follow an open and meritbased recruitment process - to be subjected to monitoring by the European Commission;

•ERA Chair holder should be appointed in a full time position but part-time arrangements are possible;

•The institution should ensure autonomy for the Chair and his/her team;

•ERA Chairs can be of any nationality;



#### ERA Chairs: Costs & Call 2017 details

#### **Eligible Costs:**

Salaries of ERA Chairs and his/her team.

Contribution towards measures aimed at facilitating structural changes at the institution:

•ERA priorities;

•Costs including training, meetings, publication and patenting costs, equipment (minor part of budget and duly justified);

•The grant will not cover infrastructures and research costs!

#### ERA Chairs Call 2017:

<u>Budget</u> :	€33.91 million
Call publication:	14 October 2015
Call opening:	12 April 2017
Call deadline:	5 October 2017
Project Size:	up to €2.5 million (eligibility condition)
Project Duration:	up to 5 years (eligibility condition)
Implementation:	Coordination and Support Action



# **Policy Support Facility**

"Improving the design, implementation and evaluation of R&I policies"

Peer reviews of national R & I systems
 "Mutual learning"
 Specific support
 The PSF Knowledge Centre

Not a competitive call. The PSF is an *on demand* service and is open for spontaneous requests. An expression of interest will be launched through ERAC in summer 2016.

For further information RTD-PSF@ec.europa.eu





# HORIZON 2020

# Thank you for your attention!

**Find out more:** www.ec.europa/research/horizon2020