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WHAT IS HORIZON 2020?

IN A NUTSHELL

- The 8th EU Framework-Programme for research & innovation
- 7-Year programme, implemented through biannual "work programmes"
- With the aim to targeting cooperation within and between value chains, fostering skills development and supporting market application of innovative solutions
- Operated through collaborative projects with European dimension
- Via grants for calls for proposals
- +/- 80 €Bn for mainly collaborative projects (some areas dedicated to mono-beneficiary projects)

WHAT IS HORIZON 2020?

Horizon 2020 is the financial instrument implementing the **Innovation Union**, a **Europe 2020 flagship initiative** aimed at securing Europe's global competitiveness.





EUROPE 2020 - 7 FLAGSHIP INITIATIVES

Smart Growth	Sustainable Growth	Inclusive Growth	
INNOVATION UNIV	Climate, energy and mobility « Resource efficient Europe »	employment and skills « An agenda for new skills and jobs »	
Education « Youth on the move »	Competitiveness « An industrial policy for the globalisation	Fighting poverty « European platform against poverty »	
Digital society « A digital agenda for Europe »	era »		

HORIZON 2020 STRUCTURE

EXCELLENT SCIENCE (22,3 €Bn)	Budget €Bn	
European Research Council	11,9	
Marie Slodowska-Curie actions	5,6	
Future and Emerging Techs (FET)	2,5	
Research infrastructures	2,3	

INDUSTRIAL LEADERSHIP (15,5 €Bn)	Budge €Bn
Key Enabling Technologies (KETs):	12,4
 ICT (Micro/Nanoelectronics, photonics) Nanotechs Advanced materials, Production and Biotechs 	
Innovation in SMEs	0,6
Access to risk finance	2,6

SOCIETAL CHALLENGES	
(27 €Bn)	Budget €Bn
Health	6,8
Bioeconomy (Food safety, Sustainable Agriculture and Forestry, Marine Reseach and Inland Waters)	3,5
Energy	5,4
Transport	5,8
Climate, Environment and Raw materials	2,8
Inclusive Innovative Reflective Societies	1,2
Secure Societies	1,5

Spreading Excellence, Widening Participation (0,7 €Bn)
Science with and for Society (0,4 €Bn)
European Institute of Technology (2,5 €Bn)
Joint Research Center (1,7 €Bn)

HORIZON 2020 STRUCTURE

TYPE OF ACTIONS

Type of action	Min. conditions	Funding rate (eligible costs)	Typical duration	Typical average EC contribution	Aim	
Research and innovation actions (RIA)	≥ 3 legal entities from 3 MS/AC	100%	36-48 months	€ 2.0 – 5.0M	Collaborative research projects	
Innovation actions (IA)		100% (non-profit) 70% (for-profit)	30-36 months	€ 2.0 – 5.0M	Produce plans & arrangements or designs for new, altered or improved products, processes or services	
Coordination and support actions (CSA)	1 legal entity in MS/AC	100%	12-30 months	€ 0.5 – 2.0M	Supporting measures (standardisation, dissemination, policy dialogues etc.) no research	
Grants from SME instrument			Phase 1: lumpsum Phase 2: 70%	Phase 1: 6 month Phase 2:	Phase 1: € 50k Phase 2: € 0,5 – 2 M	Support to individual innovation projects in SMEs
Horizon 2020 prizes		lumpsum	1 year	€ 0,5 – 1,5 M	Inducement prize for top-innovative project on specific topic	
Marie Sklodowska-Curie individual grants	1 legal entity in MS/AC		12-24 months	€ 1M	Individual fellowships for researchers mobility	
ERC grants		100%	60 months	Starting: ≤ € 2.0M Consolidator: ≤ € 2.75M Advanced: ≤ € 3.5M	Support excellent investigators and their research teams to pursue ground-breaking, high-gain/ high-risk research	

Eligibility conditions may vary. Read carefully Horizon 2020 work programmes and updates posted on the participants portal!

SCOPING PAPERS AND WORK PROGRAMMES

- Funding opportunities under Horizon 2020 are set out in multiannual work programmes, which
 cover the large majority of support available.
- The work programmes are prepared by the European Commission within the framework provided by the Horizon 2020 legislation and through a strategic programming process integrating EU policy objectives in the priority setting.
- Preparations for the work programme 2018-2020 began in 2016 with stakeholder consultations and discussions with Member States on priorities, which have been outlined in informal working documents, namely 17 thematic scoping papers (Strategic orientations for 2018-2020)
- Publication of the draft of work programme already available online
- the work programme has been adopted and published on October 2017.

INITIALLY, INPUTS SOUGHT FROM MANY SOURCES

- Transport Advisory Group (TAG)
- European Technology Platform (ETP)
 - ACARE Advisory Council on Aviation Research in Europe
 - **ERTRAC** European Road Transport Research Advisory Council
 - **ERRAC** European Rail Research Advisory Council
 - WATERBORNE ETP
 - ALICE Alliance for Logistic Innovation and Collaboration in Europe
- Member States and Associated Countries
 - Horizon 2020 Transport Programme Committee

Four Strategic Orientations were identified:

- Towards an integrated, sustainable and robust transport system;
- Technologies transforming the transport system digitalization;
- Global leadership, competitiveness, business models and markets;
- Accounting for the people: demand, needs and behaviors; inclusion and access.

Inputs:

- the Horizon 2020 Specific Programme, as the reference for defining the content of the Work Programmes;
- the main EU policy priorities;
- the analysis of the coverage of the previous Work Programmes;
- the consultation with the Transport Advisory Group and the broader group of stakeholders

Horizon 2020 Focus Areas: Transport relevant:

- In parallel, aligning entire Horizon 2020 to EU's agenda and priorities:
- Building a low-carbon, climate resilient future
- Digitizing and transforming European industry and services
- Connecting economic and environmental gains the Circular Economy
- Boosting the effectiveness of the Security Union

Structure:

- Mobility for Growth
 - Low Carbon and sustainable transport
 - Safe, integrated and resilient transport systems
 - Global leadership and competitiveness
 - Accounting for the people
 - Blue Growth
- Autonomous Road Transport
- Green Vehicles



SELECTED TOPICS FOR URBAN MOBILITY 2018

• LC-MG-1-2-2018: Sustainable multi-modal inter-urban transport, regional mobility and spatial planning. – RIA (5-8 mln €)

Challenge: efficient multimodal transport network to allow a smooth functioning both in such areas and surrounding regions encouraging mobility social inclusion. However, the transport infrastructure could cause important negative externalities and even induce unbridled suburbanization

Scope:

- 1) Address environmental, socio-cultural and spatial impacts of planning in large metropolitan regions governance and institutional issues should be included
- 2) Identification of new forms of mobility
- 3) Use of geolocalization data
- 4) measures to ensure the lowest carbon and air pollutant level of transport
- 5) adapting, further developing and extending the Sustainable Urban Mobility Plan (SUMP) and TEN-T
- 6) Coordinated development of sustainable policies with proven environmental impact

!!! international cooperation is encouraged. In particular, proposals should foresee twinning with entities participating in projects funded by US DOT !!!

SELECTED TOPICS FOR URBAN MOBILITY 2018

- LC-MG-1-3-2018: Harnessing and understanding the impacts of changes in urban mobility on policy making by city-led innovation for sustainable urban mobility
- Challenge: how policymakers should react and how Sustainable Urban Mobility Plans (SUMPs), and other sectorial policies that affect urban mobility, should respond and adapt to disruptive change of mobility

RIA scope (2-4 mln €)

→ deadine 30 Jan 2018 (First Stage) 19 Sep 2018 (Second Stage)

City-led proposals to examine the impacts of new mobility solutions

- 1) investments in and management of the transport network
- 2) new operating and business models in collective public and private transport
- 3) tackling congestion and reducing levels of car use
- 4) interaction with urban planning and design including inputs for developing SUMPs

!!! deliver at least three validated test cases + active participation of a small number of representatives from authorities of small and medium-sized cities !!!

• CSA scope (3mIn €)

→ deadline 04 Apr 2018

cooperation between projects and stakeholders involved in the projects under the first sub-topic, and from across **CIVITAS 2020**

- 1) local capacity building and training in deploying innovative mobility solutions
- 2) networking cities and engaging with stakeholders working at the local level
- 3) implementing a communication and dissemination strategy
- 4) partnering with industry and civil society

!!! international cooperation is encouraged, especially with the USA, China and India !!!

SELECTED TOPICS FOR URBAN MOBILITY 2018

 MG-2-4-2018:Coordinating national efforts in modernizing transport infrastructure and provide innovative mobility services (CSA – € 0,8 mln to €1 mln)

Deadline: 04 April 2018

Challenge: need to make transport infrastructure more resilient to ensure an adequate performance level reflecting vehicles and ICT developments

Scope: addressing **ALL** of the following

- 1) !!! Including National Transport Authorities from AT LEAST 10 EU member/associated countries to align efforts in modernizing transport infrastructure network!!!
- 2) Identify new roles and competences for infrastructures operators
- 3) Consolidate partnerships between infrastructure stakeholders and research community
- 4) Coordination activities between Horizon 2020, CEF and national schemes (synergies)

Ensure the right flow from research to innovation to implementation + cross fertilisation

SELECTED TOPICS FOR URBAN MOBILITY 2019

MG-4-1-2018 TOPIC: New regulatory frameworks to enable effective deployment of emerging technologies and business/operating models for all transport modes (CSA)

Deadline: 04 April 2018

Challenge: It is urgent to find innovative solutions to upgrade transport infrastructure ensuring an adequate performance level that reflects also vehicle and ICT developments

Scope:

- Develop a coordination mechanism that will allow National Transport Authorities to align their efforts in modernizing the transport infrastructure network;
- Identify new roles and competences for the infrastructure managers/operators to respond to the new and future functionalities of the transport infrastructure;
- Consolidate partnerships and alliances between the transport infrastructure stakeholders and the research community;
- Continue the coordination activities for information exchange and cross-cutting fertilization between projects funded under Horizon 2020, CEF and national schemes for the optimal exploitation of the results.

Impact: Enable infrastructure managers to provide higher quality and innovative services to users and customers of the transport network

SELECTED TOPICS FOR URBAN MOBILITY 2019

MG-2-7-2019: Safety in an evolving road mobility environment (RIA)

Deadline: 16 January 2019 (first stage)

Challenge: New vehicle types and new types of road user will operate with conventional vehicles and road users as part of an evolving mixed traffic environment - Vulnerable road users are still a continued concern

Scope: to assure the development of robust solutions in the context of the changing environment, leading to dramatic improvements in transport users' and road workers' safety

Impact:

A reduction of at least a 10% (with respect to 2016 figures) in injuries and fatalities in road accidents, contributing to the ambitions to reach close to zero road fatalities by 2050. Contribution to the UN's Sustainable Development Goals (SDG), in particular goal 3.6 ("By 2020, halve the number of global deaths and injuries from road traffic accidents") and SDG 11 ("Make cities and human settlements inclusive, safe, resilient and sustainable").

SELECTED TOPICS FOR URBAN MOBILITY 2019

MG-4-5-2019: An inclusive digitally interconnected transport system meeting citizens' needs (RIA)

Deadline: 24 April 2019

Challenge: Merging physical transport assets like infrastructure or vehicles with the digital layer, through the Internet of Things (IoT) and big data applications opens vast possibilities in terms of the development of new transport services, business/operating models and social innovations.

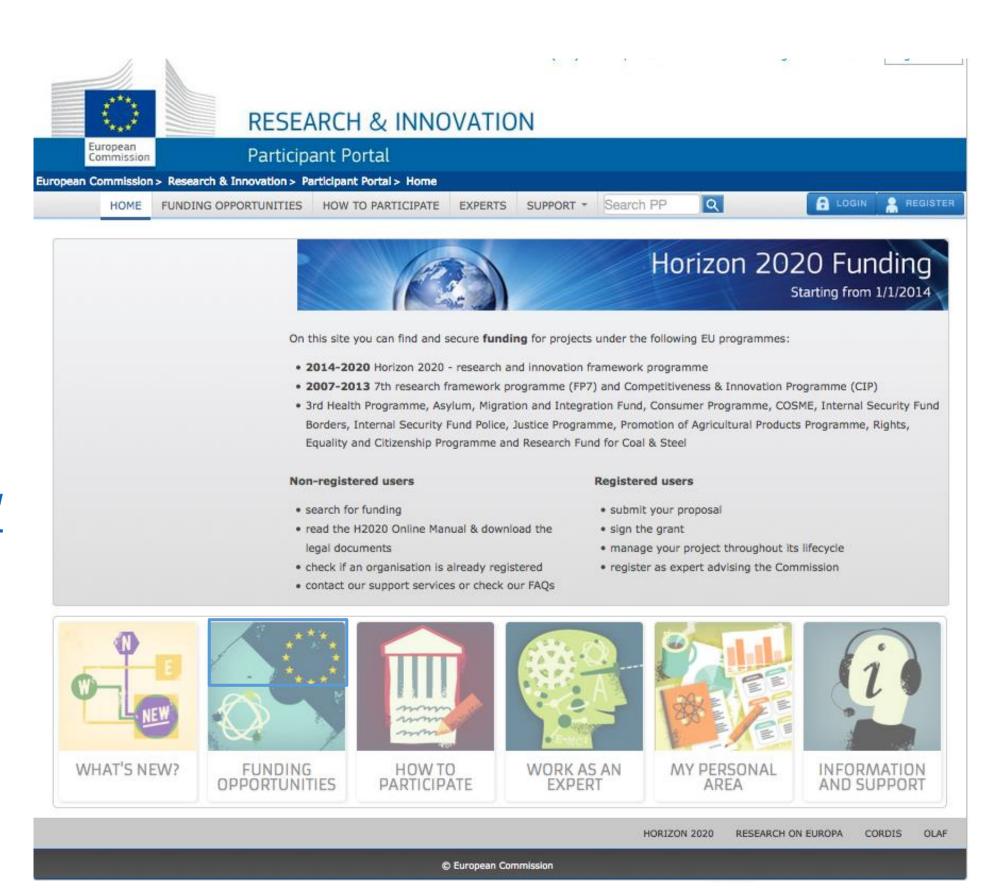
Scope: Research should be validated in a selected number of case studies through pilot demonstration, trials and testing involving service providers and end-users.

Impact:Research will help policy-makers design appropriate regulatory frameworks and social and educational strategies in order to create the best possible conditions for an inclusive, user friendly digital transport system, taking into account the needs and characteristics of all parts of society, with particular attention to vulnerable to exclusion citizens

HOW TO FIND THE RIGHT CALL?

H2020 calls are published on the Participant Portal

http://ec.europa.eu/research/participants//desktop/en/home.html

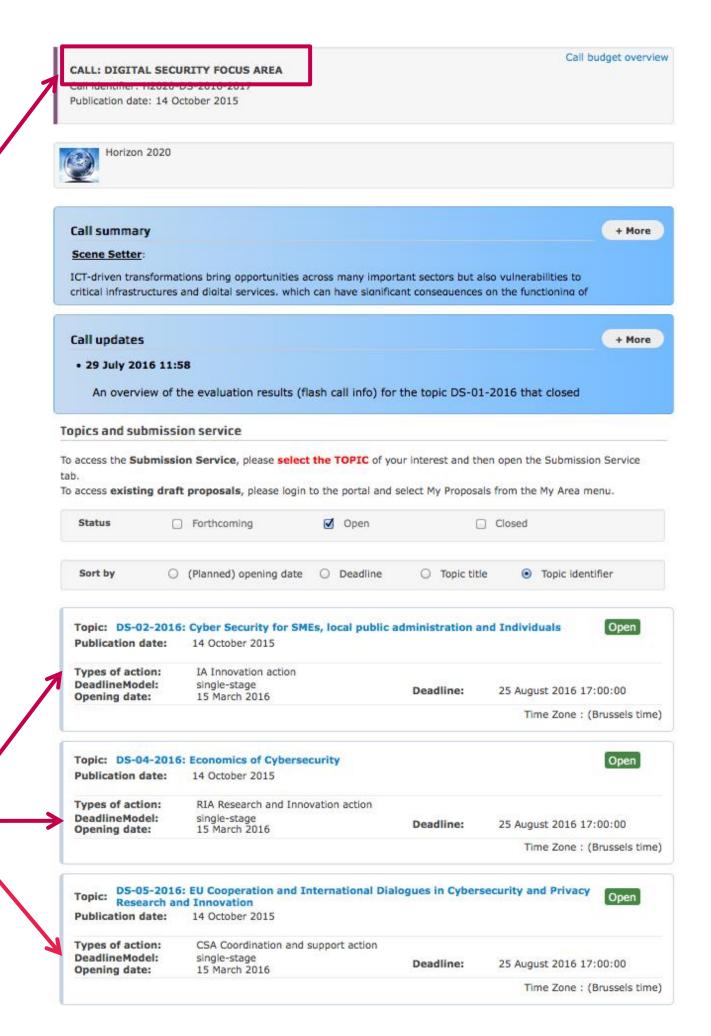


HOW TO FIND THE RIGHT CALL?

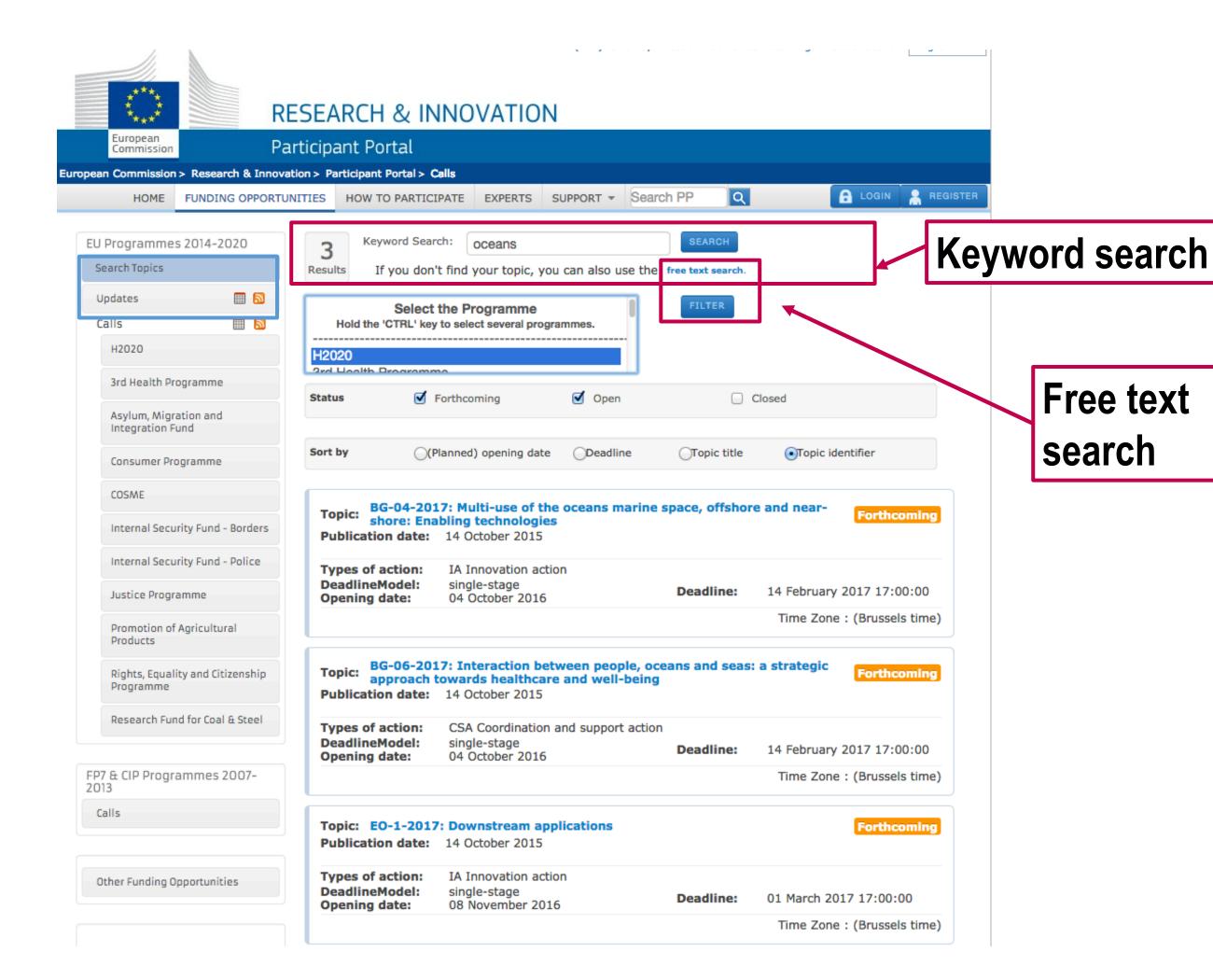


Browse the calls by following the H2020 structure

All calls are divided into topics



All calls are divided into topics





RESEARCH & INNOVATION

European Commission > Participant Portal > Opportunities HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT > Search PP Q A LOGIN REGISTER

EU Programmes 2014-2020 Search Topics **|| 5** Updates **■ a** Calls H2020 3rd Health Programme Asylum, Migration and Integration Fund Consumer Programme COSME Internal Security Fund - Borders Internal Security Fund - Police Justice Programme Promotion of Agricultural Products Rights, Equality and Citizenship Programme Research Fund for Coal & Steel

FP7 & CIP Programmes 2007-2013

Other Funding Opportunities

TOPIC: Pan European Networks of practitioners and other actors in the field of security

Topic identifier: SEC-21-GM-2016-2017 **Publication date:** 14 October 2015 Types of action: CSA Coordination and support action DeadlineModel: single-stage Planned opening 15 March 2016 Deadline: 25 August 2016 17:00:00 date: Types of action: CSA Coordination and support action DeadlineModel: single-stage 01 March 2017 Deadline: 24 August 2017 17:00:00 Planned opening date:

Time Zone : (Brussels time)

- Less

Call budget overview

Topic Description

Specific Challenge:

Horizon 2020

In Europe, practitioners interested in the uptake of security research and innovation (e.g. firefighters, police and intelligence communities, border guards, custom authorities, explosive specialists, forensic laboratories, medical emergency teams, etc.) are dedicated to performing their duty and to focusing on their operation. In general, practitioners' organisations have little means to free workforces from daily operations, and to dedicate time and resources to monitor innovation and research that could be useful to them. They have little opportunities to interact with academia or with industry on such issues. All stakeholders – public services, industry, academia – including those who participate in the Security Advisory Group, recognize it as an issue.

Scope:

Practitioners are invited to associate in 4 different categories of networks:

- a. Practitioners (end-users) in the same discipline and from across Europe (some examples: firefighters; police and intelligence bodies; border guards, coast guards, and custom authorities; explosive specialists; forensic laboratories; medical emergency teams; think-tanks on security; etc.) can get together to: 1) monitor research and innovation projects with a view to recommending the uptake or the industrialisation of results, 2) express common requirements as regards innovations that could fill in capability and other gaps and improve their performance in the future, and 3) indicate priorities as regards domains requiring more standardization;
- b. Practitioners (end-users) from different disciplines and concerned with current or future security or disaster risk and crisis management issues in a particular geographical area can get together to: 1) monitor research and innovation projects with a view to recommending the uptake or the industrialisation of results, 2) express common requirements as regards innovations that could fill in capability and other gaps and improve their performance in the future, and 3) indicate priorities as regards common capabilities, or interfaces among capabilities, requiring more standardization.

Geographical priorities include:

the Mediterranean region (including the Black Sea): to enable an EU joint network concept for border

TOPIC LEVEL

Title
Deadline
Type of action

- 1. Challenge
- 2. Scope
- 3. Expected Impact

+

Indicative budget TRL

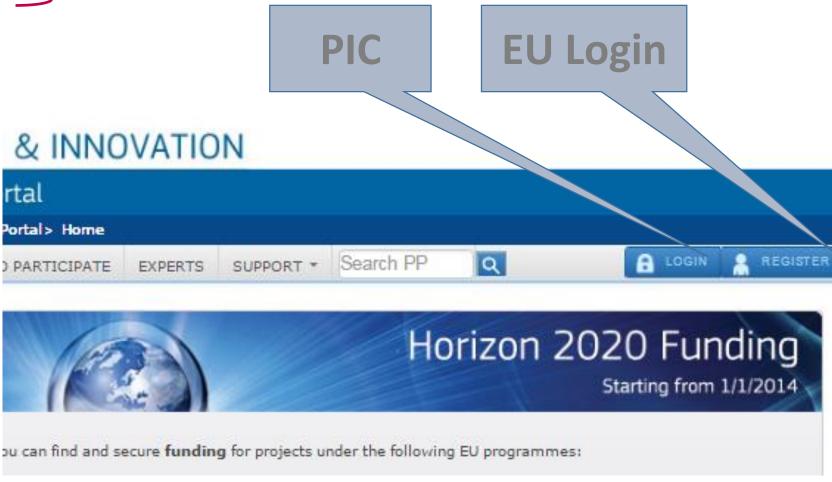
HOW TO SUBMIT A PROPOSAL?

Submit your proposal via the Participant portal

You will need:

- Your credentials to enter the Submission System (accessible through the call page)
- PIC (participant identification code) for all partners (If you are the leader)

Step-by-step guidelines on beneficiary register



NATIONAL CONTACT POINT SERVICES

WHO WE ARE?

- Appointed intermediaries between the EC and (potential) RDI projects participants
- Trained Experienced
- Know the rules of the game
- Strict guidelines (confidentiality & no conflict of interest)
- We know where to find answers to complex questions and difficult situations
- Connected to EU networks : Find partners via the thematic NCP Networks



NATIONAL CONTACT POINT SERVICES

- We provide free-of-charge professional guidance
- Adapt to your needs (beginner to experienced, punctual to global)
- Follow strict guiding principles (confidentiality, no conflict of interest...)
- NCPs are on your side to
- Support your research and innovation strategy
- Tips to protect your interests (property rights, budgets...)









reporting



proposal





realisation



contracting



QUESTIONS?













For further questions and contacts:

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Supported by: