



HORIZON 2020

**The European Union's
programme for Research
and Innovation**

Open to the world!



HORIZON 2020



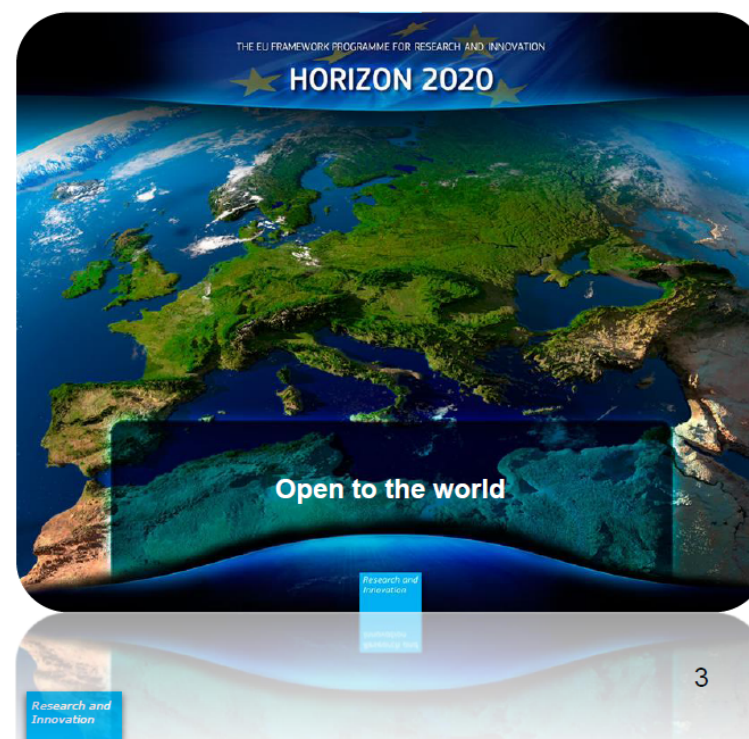
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WHAT IS HORIZON 2020?

- A €80 billion research and innovation funding program (2014 -2020)
- A response to economic crisis by investing in future jobs and growth
- It addresses people's concerns about their livelihoods, safety and environment



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Horizon 2020

A single programme

- **Coupling research with innovation:** 'from lab to market'
- **Focus on societal challenges:** health, clean energy, transport, etc.
- **Open to participation:** companies, universities, institutes in EU and beyond



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The Multiannual Financial Framework 2014-2020:

European Council conclusions, 8 February 2013

Key challenge: stabilise the financial and economic system while taking measures to create economic opportunities

Smart & inclusive growth (€451 billion)



Sustainable growth, natural resources (€373 billion)

Security and citizenship (€16 billion)

Global Europe (€58 billion)

Administration (€61.6 billion)



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**TOTAL
€960 billion**



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WHAT'S NEW

A significant increase of EU budget for funding of research and innovation by around 30% to €70 Bio in current prices

A single programme bringing together three separate programmes/initiatives*

Coupling research to innovation – from research to retail, all forms of innovation

Focus on societal challenges facing EU society, e.g. health, clean energy and transport

Simplified access for all companies, universities, institutes in all EU countries and beyond

* The 7th Research Framework Programme (FP7), innovation aspects of Competitiveness and Innovation Framework Programme (CIP), EU contribution to the European Institute of Innovation and Technology (EIT)



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Impact of Horizon 2020 for R&I

Key Features

Projects financed on the basis of excellence

Projects selected through intense pan-European competition

Ambitious collaborative projects with critical mass

Projects not achievable without EU support (additionality)

Projects leveraging additional private and public resources

Seamless support from idea to market

Easy access for all participants including SMEs

Horizon 2020

Research and innovation outputs of Horizon 2020

- *Improved R&D capabilities*
- *Scientific publications*
- *New tools and techniques*
- *Models and simulations*
- *Prototypes, demonstrators, pilots*
- *Patents*
- *New products, processes, services*
- *Spin-offs*

Societal Impact and Contribution to Europe 2020

Economic growth

- €1 invested in Horizon 2020 produces €10 extra GDP per annum

More high-tech Jobs

- >800,000 in the medium term

Competitiveness

- Exports increase by 1,4% and imports decrease by 0,2% in the medium term

Inclusive & sustainable growth

- Better health & more well-being
- A more secure society
- Sustainable agriculture
- Clean & efficient energy
- Smart, green, integrated transport
- Reduced greenhouse gas emissions
- Efficient use of natural resources





Excellent science

- ***European Research Council***

Supporting top researchers from anywhere in the world to work in Europe

- ***Future and Emerging Technologies***

Supporting visionary thinking through collaborations between science and engineering

- ***Marie Skłodowska-Curie actions***

Providing opportunities for training and career development of individual researchers

- ***Research infrastructures- including e-infrastructure***

Ensuring access to world-class facilities



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Industrial leadership

- ***Leadership in enabling and industrial technologies***
Emphasising key technologies in areas such as advanced manufacturing, microelectronics, nanotechnology, biotechnology, ICT and space



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Societal challenges

- **Health, demographic change and wellbeing**
- **Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy**
- **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**



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Stronger support for market uptake of innovation...

Activities closer to users and markets:

prototyping, testing, demonstrating, piloting, large-scale product validation, market replication ...

- ❑ **Societal Challenges:** "new focus on innovation-related activities, such as piloting, demonstration, test-beds, and support for market uptake"
- ❑ **Industrial Leadership:** "emphasis on R&D, large-scale pilots and demonstration activities, test beds and living labs, prototyping and product validation in pilot lines"
- ❑ **SME instrument:** "particular focus on demonstration activities and market replication in its second phase"
- ❑ Closer-to-market activities could obtain funding also via the **debt and equity financing facilities**



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HORIZON 2020: Open to the world

GENERAL OPENNESS



Horizon 2020 is open to participation of researchers from anywhere in the **world**, to:

- ✓ Extend the frontiers of scientific knowledge
- ✓ Tackle challenges that affect us all
- ✓ Make industries more competitive

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DRIVERS OF INTERNATIONAL COOPERATION IN H2020

- Need to access knowledge produced outside Europe and gain access to new markets
- Need to promote Europe as an attractive location and partner for research and innovation
- Need to join forces globally to tackle global challenges



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H2020: A NEW STRATEGY FOR INTERNATIONAL COOPERATION IN RESEARCH AND INNOVATION

Need to engage more actively and strategically in international cooperation:

Three main objectives:

- Strengthen EU's excellence and attractiveness in R&I, as well as its industrial & economic competitiveness
- Tackle global societal challenges
- Support the EU's external policies

Combining openness with better targeted actions

Strengthened partnership with Member States

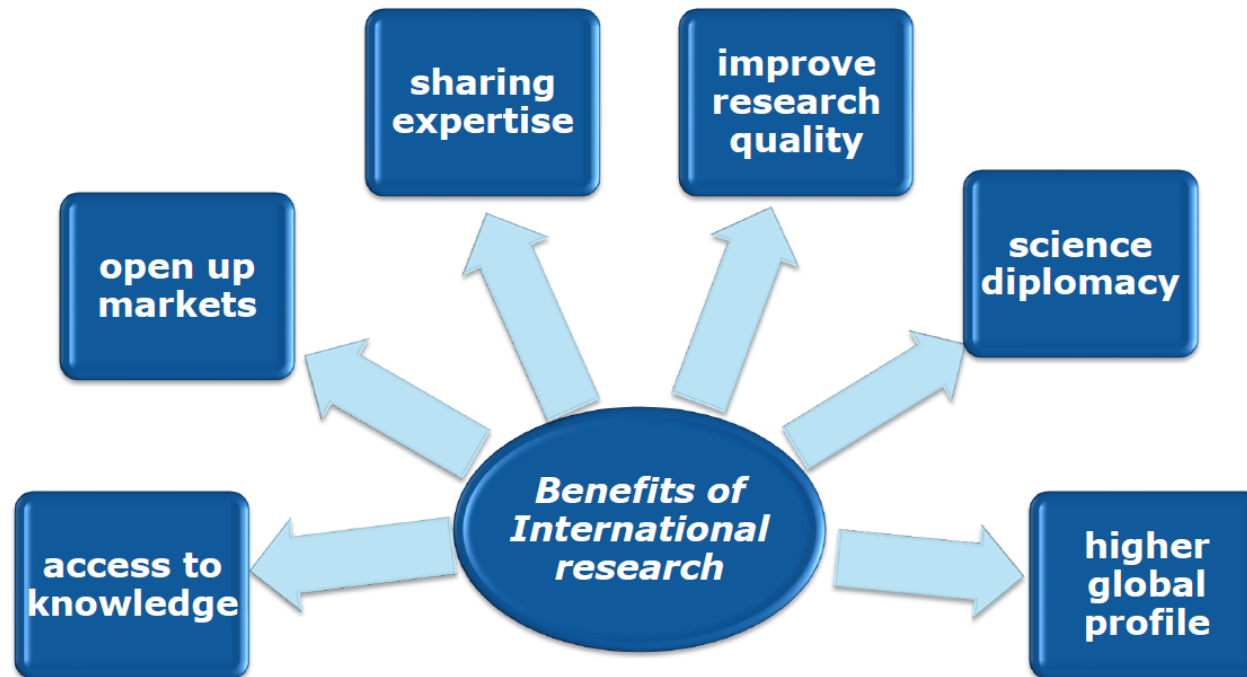
Stronger contribution of R&I to external policies of EU

see: <http://ec.europa.eu/research/iscp/index.cfm?pg=strategy>



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DUAL APPROACH

Openness:

- Horizon 2020 open to participation from across the world
- Revision of list of countries receiving automatic funding
 - BRIC countries + Mexico will no longer receive automatic funding
 - all other countries: no change.

Targeted actions:

- Thematic targeting: identifying areas for international cooperation on basis of EU policy agenda
- Differentiation by country/region to identify partners for cooperation



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multi-annual roadmaps for cooperation with key partners



HORIZON 2020: Open to the world

1. Projects can include international partners

2. Targeted opening

- In certain topics in calls for proposals, inclusion of international partners may be:

- a) encouraged
- or
- b) required

3. Coordinated calls

- Used for specific actions (e.g. identified through joint steering committees). Paired calls, linked evaluations, two contracts, e.g.:

- a) EU-Japan R&D Cooperation in Net Futures
- b) Partnering with Brazil on advanced biofuels



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THEMATIC TARGETING

- Starting point: Horizon 2020 societal challenges and enabling technologies
- Identify areas based on criteria of EU and potential partners:
 - Common interest and mutual benefit
 - Research and innovation capacity
 - Markets opportunities
 - Contribution to international commitments, e.g. MDGs or Rio+20
 - Frameworks in place to engage in cooperation
 - Taking into account: reciprocal access, coordination with Member States, possible deficiencies in third country IPR systems

Support: horizontal international cooperation activities
(in Horizon 2020: Challenge 6; follow-up to Capacities INCO programme)



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Rules of participation



- Applicants from non-EU countries are **eligible to take part** in Horizon 2020 programmes, even as coordinator
- All proposals must meet certain **minimum conditions** (in Rules for Participation)

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MULTI-ANNUAL ROADMAPS FOR COOPERATION WITH COUNTRIES/REGIONS

Enlargement and neighbourhood countries, and EFTA

- Focus on alignment with the European Research Area (ERA)
- Support enlargement and neighbourhood policies (support to developing a common 'Knowledge and Innovation Space')

Industrialised countries and emerging economies

- Focus on competitiveness
- Tackle global challenges
- Business opportunities and access to new markets

Developing countries

- Support development policy by building partnerships contributing to sustainable development
- Address relevant challenges (e.g. poverty-related diseases, energy, food security, climate change, biodiversity...)



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COORDINATION

Coordination with other policies and instruments of EU

- external policies (including development policy)
- other policies with strong international dimension, e.g. Trade
- external dimension of other Union policies, e.g. Education

International organisations and multilateral fora

- shaping global agendas: UN and OECD bodies, Carnegie forum...
- strengthen links with intergovernmental organisations and initiatives: COST, EUREKA, EIROForum



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Rules of participation



Minimum Conditions:

- For standard (cooperative) research projects:

- 3 participants from different Member States or associated countries

In addition, participants from any other country in the world can also be included

- For actions aimed at individuals, like European Research Council or Marie Skłodowska-Curie:

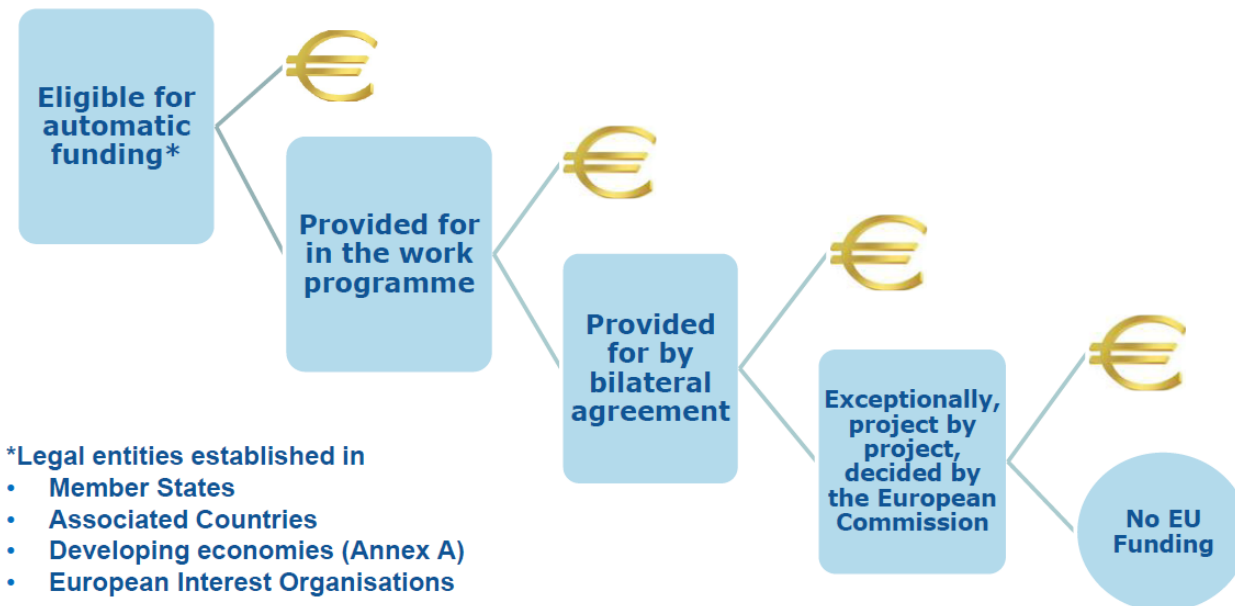
- 1 researcher
- 1 host institution
- 1 project

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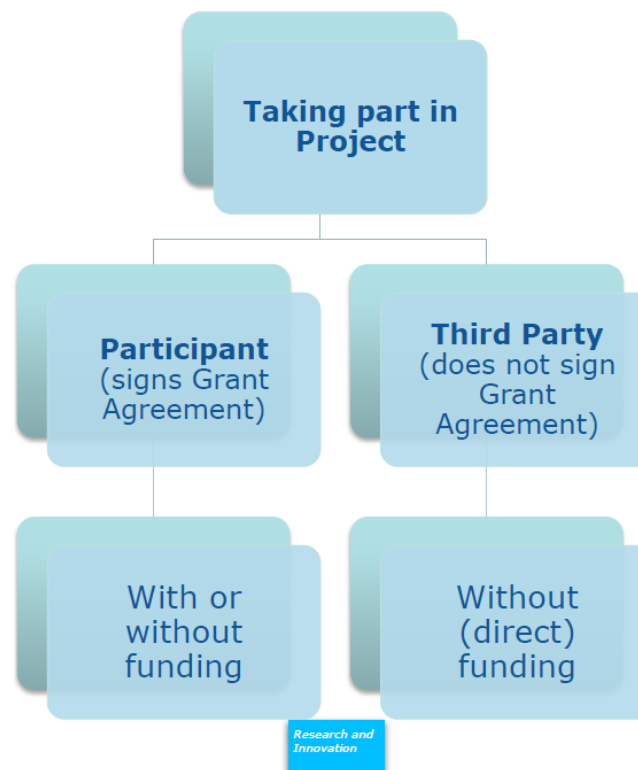
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Eligibility for funding



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Options for taking part



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"Third Party" Option



Does not sign Grant Agreement but a private Agreement with one or more of the full participants (pre-existing relation)

The participant for which the third party carries out work must ensure that it is possible to exercise its IPR rights (e.g. Access)



The work to be carried out by the third party shall be identified in the grant agreement

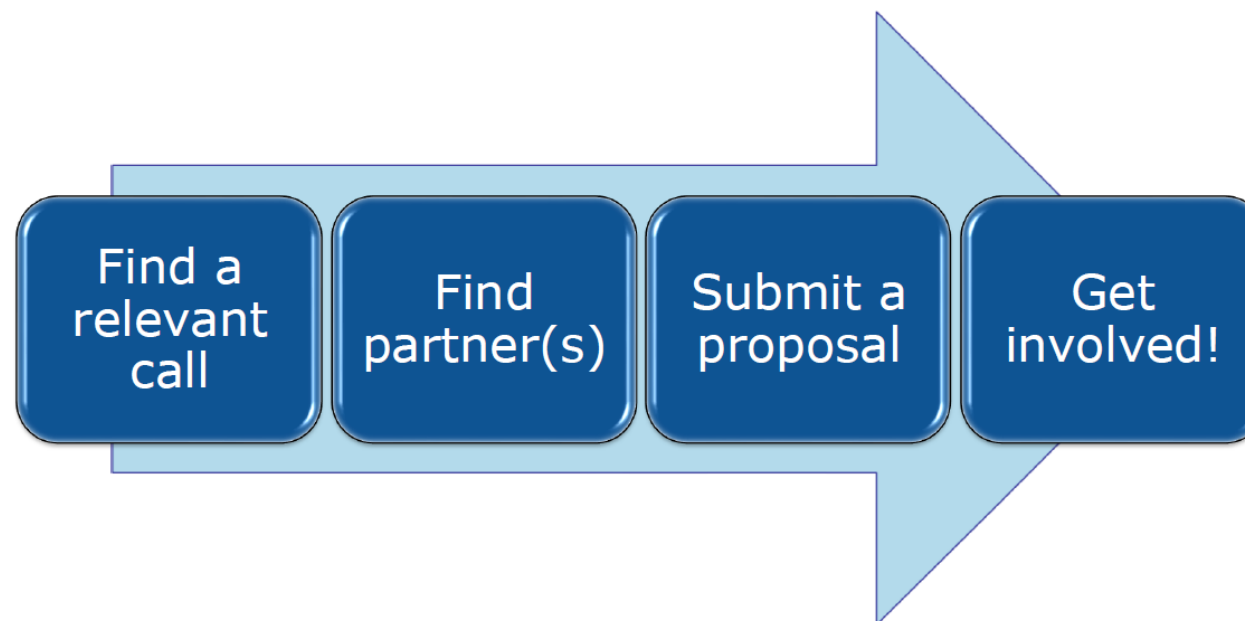
Eligibility for funding? Similar conditions as if signing the Grant Agreement*

* See Slide 14



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How does it work?



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INSTRUMENTS IN HORIZON 2020

Collaborative projects (3rd country participation required and/or taken into account in evaluation)

Networking between existing projects

Joint initiatives of Union and third countries:

- bilateral coordinated/joint calls
- multi-lateral initiatives
- contribution of Union to third country/international organisations
- ERA-Net/Art185
 - also in support of programme level cooperation
 - accompanying measures for networking / dialogue (eg: CAAST-NET, ERAfrica, IST-Africa, EuroAfrica-ICT ...)
 - Information gathering from multiple sources (ERAWATCH, OECD, UNESCO, EU Delegations and Science Counsellors...)

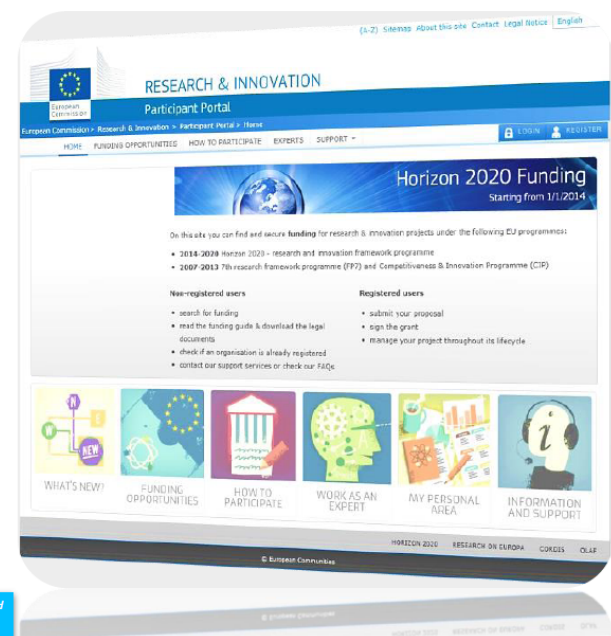


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Where to find more information and where to apply?

- **Horizon 2020 Participant Portal**
Research and Innovation
European Commission
<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>
- **Horizon 2020**
European Commission
<http://ec.europa.eu/programmes/horizon2020/>
- **Incontact** (NCP's network)
http://www.ncp-incontact.eu/nkswiki/index.php?title=Main_Page



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SIMPLIFICATION: RULES FOR PARTICIPATION

A single set of rules:

- Adapted for the whole research and innovation cycle
- Covering all research programmes and funding bodies
- Aligned to the Financial Regulation, coherent with other new EU Programmes

One project – one funding rate

- Single funding rate per project for all participants and activities
- Maximum of 100% of the total eligible costs (except for innovation actions, where a 70% maximum will apply for profit making entities)
- Indirect eligible costs: a flat rate of 25% of direct eligible costs
- Additional remuneration up to €8000 per researcher and year restricted to non-profit organisations

Faster time to grant

- Maximum time to grant of eight months as a general rule; 6 months for fast track to innovation scheme

Simple evaluation criteria

- Excellence – Impact – Implementation (Excellence only for ERC)



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SIMPLIFICATION: RULES FOR PARTICIPATION

Simpler rules for grants

- broader acceptance of participants accounting practices for direct costs, flat rate for indirect costs, no time-sheets for personnel working full time on a project, possibility of output-based grants

Fewer, better targeted controls and audits

- Lowest possible level of requirements for submission of audit certificates without undermining sound financial management

Audit strategy focused on risk and fraud prevention

Improved rules on intellectual property

- Balance between legal security and flexibility
- Tailor-made IPR provisions for new forms of funding
- A new emphasis on open access to research publications



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Beyond the Rules: further simplified provisions in the Grant Agreement and implementing procedures to facilitate access to Horizon 2020 (e.g. common IT platform)



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Access the [ECAS](#) platform



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HOW TO FIND A CALL

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 **RESEARCH & INNOVATION**
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Topics for international cooperation

In a rapidly evolving global context, stepping up the cooperation between the Union and its international partners will contribute to Europe's research excellence and economic competitiveness, to tackling societal challenges which are increasingly global in nature and to supporting the Union's external relations.

Horizon 2020 is open to participation from across the world, meaning that European researchers can cooperate with their counterparts in third countries on any topic of their choice. This does not automatically imply that entities from third countries are eligible for funding. In addition, in all of the relevant parts of Horizon 2020, topics have been flagged as being particularly suitable for international cooperation and consortia are encouraged to include third country partners. [More...](#)

Topic: [Evaluating existing screening and prevention programmes:PHC-06-2014](#)
Specific challenge: Some existing population based screening and disease prevention programmes

Call title: [Personalising health and care](#) **Status:** **Closed**
Call identifier: [H2020-PHC-2014-two-stage](#) **Deadline:** 11-03-2014

Topic: [Comparing the effectiveness of existing healthcare interventions in the elderly:PHC-17-2014](#)
Specific challenge: Effective health care for the rapidly growing elderly population in Europe is

Call title: [Personalising health and care](#) **Status:** **Closed**
Call identifier: [H2020-PHC-2014-two-stage](#) **Deadline:** 11-03-2014

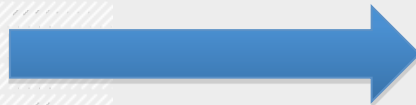
Topic: [Understanding health, ageing and disease: determinants, risk factors and pathways:PHC-01-2014](#)
Specific challenge: The development and preservation of good health, and the occurrence and

Call title: [Personalising health and care](#) **Status:** **Closed**
Call identifier: [H2020-PHC-2014-two-stage](#) **Deadline:** 11-03-2014

Topic: [Soil quality and function:SFS-04-2014](#)
Specific challenge: Agricultural soils provide the basis for crop and animal production and in



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Call title: [Personalising health and care](#)
Call identifier: [H2020-PHC-2015-two-stage](#)

Status: Open
Deadline: 14-10-2014

Topic: [New approaches to improve predictive human safety testing:PHC-33-2015](#)
 Specific challenge: Current approaches assessing the safety of chemical substances in humans are

Call title: [Personalising health and care](#)
Call identifier: [H2020-PHC-2015-two-stage](#)

Status: Open
Deadline: 14-10-2014

Topic: [Understanding common mechanisms of diseases and their relevance in co-morbidities:PHC-03-2015](#)
 Specific challenge: The development of new treatments is greatly facilitated by an improved

Call title: [Personalising health and care](#)
Call identifier: [H2020-PHC-2015-two-stage](#)

Status: Open
Deadline: 14-10-2014

Topic: [Ensuring sustainable use of agricultural waste, co-products and by-products:WASTE-7-2015](#)
 Specific challenge: Agriculture generates co-products, by-products and waste streams that are

Call title: [Waste: A resource to recycle, reuse and recover raw materials](#)
Call identifier: [H2020-WASTE-2015-two-stage](#)

Status: Open
Deadline: 16-10-2014

Topic: [Development of water supply and sanitation technology, systems and tools, and/or methodologies:WATER-5c-2015](#)
 Specific challenge: Sustainable water supply and sanitation is fundamental to the food

Call title: [Water Innovation: Boosting its value for Europe](#)
Call identifier: [H2020-WATER-2015-two-stage](#)

Status: Open
Deadline: 16-10-2014

Topic: [International Cooperation in space science:COMPET-06-2015](#)
 Specific challenge: Europe has a long-standing tradition of international collaboration in space

Call title: [H2020-LEIT-Space-Competitivenessof the European Space Sector-2015](#)
Call identifier: [H2020-COMPET-2015](#)

Status: Open
Deadline: 27-11-2014

Specific challenge

Expected impact

Type of action



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Waste: A resource to recycle, reuse and recover raw materials

H2020-WASTE-2015-two-stage Sub call of: [H2020-WASTE-2014-2015](#)

Publication date	2013-12-11	Deadline Date	2014-10-16 17:00:00 (Brussels local time)
Total Call Budget	€54,000,000	Stage 2	2015-03-10 +17:00:00 (Brussels local time)
Status	Open	Main Pillar	Societal Challenges
		OJ reference	OJ C 361 of 11.12.2013

Topic: Ensuring sustainable use of agricultural waste, co-products and by-products **WASTE-7-2015**

Topic Description Topic Conditions & Documents Submission Service

Specific challenge: Agriculture generates co-products, by-products and waste streams that are currently not properly taken care of both in environmental and economic terms.

In plant production (e.g. from arable, horticulture, fruit, wine, grassland sectors), losses take place at the farm and post-harvest levels and also down the chain at the level of the retail sector. Co-products or by-products are generated, for instance in the wine sector, which require sustainable use. Straw has been given significant attention in the last years as biomass feedstock and potential trade-offs with its relevance for soil improvement need to be considered.

In livestock production, manure, litter and other effluents management is a challenge, in particular in industrial production systems. While these effluents can be used as fertiliser, they can also be sources of bio-energy or valuable bio-products. The impacts on the environment, with emissions to the air, soil and water need to be evaluated. It is important to consider the whole effluent chain to avoid pollution swapping and health issues, due to possible transmission of pathogens.

Beyond reduction and recycling of agricultural waste, co-products and by-products, there may be opportunities for new processes enabling innovative uses of these materials, also outside the agricultural sector.

List of countries and applicable
rules for funding

Eligibility and admissibility conditions

Evaluation

Proposal page limits and layout


Indicative timetable for evaluation
and grant agreement

Provisions, proposal templates and
evaluation forms for the type of action
under this topic

Additional provisions



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Topic: Ensuring sustainable use of agricultural waste, co-products and by-products **WASTE-7-2015**

Topic Description Topic Conditions & Documents Submission Service

For reference documents applying to the entire call for proposals, please see [here](#)

Please read carefully all provisions below before the preparation of your application.

- List of countries and applicable rules for funding:** described in [part A of the General Annexes](#) of the General Work Programme.
- Eligibility and admissibility conditions:** described in [part B](#) and [C of the General Annexes](#) of the General Work Programme
- Evaluation**
 - Evaluation criteria and procedure, scoring and threshold:** described in [part H of the General Annexes](#) of the General Work Programme



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WASTE: A RESOURCE TO RECYCLE, REUSE AND RECOVER RAW MATERIALS

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Status	Open	Main Pillar	Societal Challenges
		OJ reference	OJ C 361 of 11.12.2013

[Call description](#) [Call documents](#) [Get support](#) [Subscribe to Notifications](#)

In H2020, a proposal is submitted to a specific topic. The full set of information for preparing a proposal for a topic (eligibility and evaluation conditions, proposal templates, evaluation forms, etc.) is available on the topic conditions page. Select a topic from the call description page or go to [Search Topics](#).

[Download all documents](#)
(EN only, incl. the additional docs.)

Legal basis - Specific Programme H2020 [en](#)

WP H2020 - 1. Introduction [en](#)

WP H2020 - draft corrigendum [en](#)

WP H2020 - 12. Climate action, environment, resource efficiency and raw materials [en](#)

Legal basis - Framework Programme H2020 [en](#)

Legal basis - Rules for Participation [en](#)

WP H2020 - 18. General Annexes [en](#)

Thank you!

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