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*Libya*



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*Cyprus*



*Spain*



*Egypt*



# Téthys

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Euro-Méditerranéennes



*Jordan*



*Tunisia*



*Lebanon*



*Portugal*



*Greece*



*Algeria*



*Palestine*



## Nowadays TETHYS represents 64 universities in 16 countries of mediteranean basin:

- **Algeria** : Université Benyoucef Benkhada d'Alger, Université Badji Mokhtar d'Annaba, Université Abderrahmane Mira de Béjaïa, Université Constantine I, Université Larbi Ben Mhidi d'Oum El Bouaghi, Université d'Oran Es Sénia, Université du 8 mai 1945 de Guelma, Université du 20 août 1955 de Skikda, Université Mohamed Khider de Biskra, Université de Constantine II, Université Constantine III
- **Cyprus** : Université de Chypre
- **Croatia**: Université de Split
- **Egypt** : Université d'Alexandrie, Université d'Assiut, Université du Caire, Université de Helwan, Université MUST Le Caire, Université française d'Egypte

## PARTNERS UNIVERSITIES



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- **France** : Université d'Aix-Marseille, Université de Toulon, Université de Nice, Université de Corse
- **Greece** : Université de Thessalonique, Université du Pirée, TEI du Pirée, Université de Crète (en cours)
- **Italy** : Université de Gênes, Université de Turin, Université de Palerme, Université de Cagliari, Université de la Tuscia-Viterbo/Rome, Université La Sapienza Rome, Université de Sienne, Université de Messine
- **Jordan** : Princess Sumaya University of Technology Amman, Philadelphia University Amman, Université de Mutah, Université de Jordanie-Amman (en cours)
- **Lebanon** : Université Saint-Joseph Beyrouth, Université Balamand, Tripoli, Université Libanaise de Beyrouth
- **Libya**: Université de Zawia
- **Malta** : Université de Malte

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- **Palestine:** University College of Applied Sciences, Gaza
- **Morocco :** Université Chouaïb Doukkali d'El Jadida, Université Ibn Tofail Kénitra, Université Cadi Ayyad de Marrakech, Université Hassan II de Mohammédia-Casablanca, Université Mohammed 1<sup>er</sup> d'Oujda, Université Mohammed V-Agdal de Rabat, Université Hassan I de Settat, Université Abdelmalek Essaâdi de Tanger-Tétouan, Université Sidi Mohamed Ben Abdellah de Fès, Université Hassan II Ain Chock Casablanca (en cours)
- **Portugal :** Université d'Evora
- **Spain:** Université des Iles Baléares, Université de Cadix, Université de Barcelone, Université Complutense de Madrid, Université de Murcie
- **Tunisia :** Université de Tunis El Manar, Université de Kairouan, Université de Monastir, Université de Carthage, Université de Sfax, Université de Sousse.

[prepared from (partial) information available at the  
office of coordination Tethys Marseille]

Projects handled: FP6 and FP7, Tempus, Erasmus Mundus, Interreg, ENPI +  
thematic seminars and symposia + training of trainers

\* Number of national, European and international projects submitted:  
approximately 64 projects for M€ 93.8 requested  
(Tethys Network is partner in 60 projects)

\* Number of projects accepted:  
about 24 projects for M€ 40.8 obtained  
(over 50% of this sum has benefited MPC)

Tethys / Aix-Marseille University involved in 20 projects  
(7 as a coordinator, 13 as partner)

\* Number of seminars work:  
More than 40 events

<http://194.214.98.212/tethys/>



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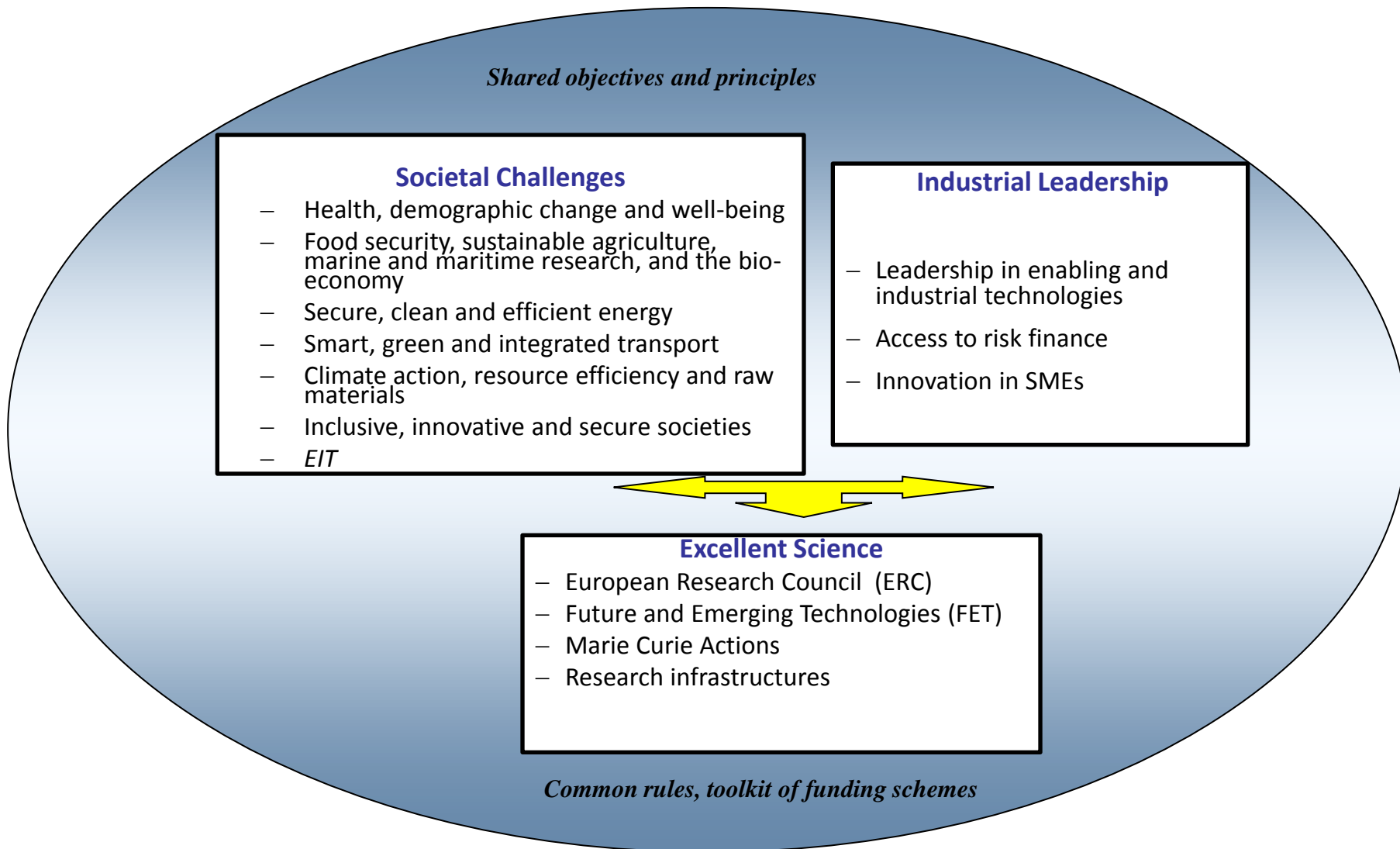
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<http://ec.europa.eu/programmes/horizon2020/en>

<http://www.horizon2020.gouv.fr/>





# What is Horizon 2020?

- European funding program for research and innovation funded to the tune of 80 billion euros for the period 2014-2020.
- This program is a major contribution to the strategy "Europe 2020", the flagship initiative "Innovation Union" and the "European Research Area" for:
- Responding to the economic crisis by investing in future jobs and growth
- Strengthen the position of the EU in the world in the areas of research, innovation and technology
- Take into account the concerns of citizens about their standard of living, safety and environment



# What's new?



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- **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

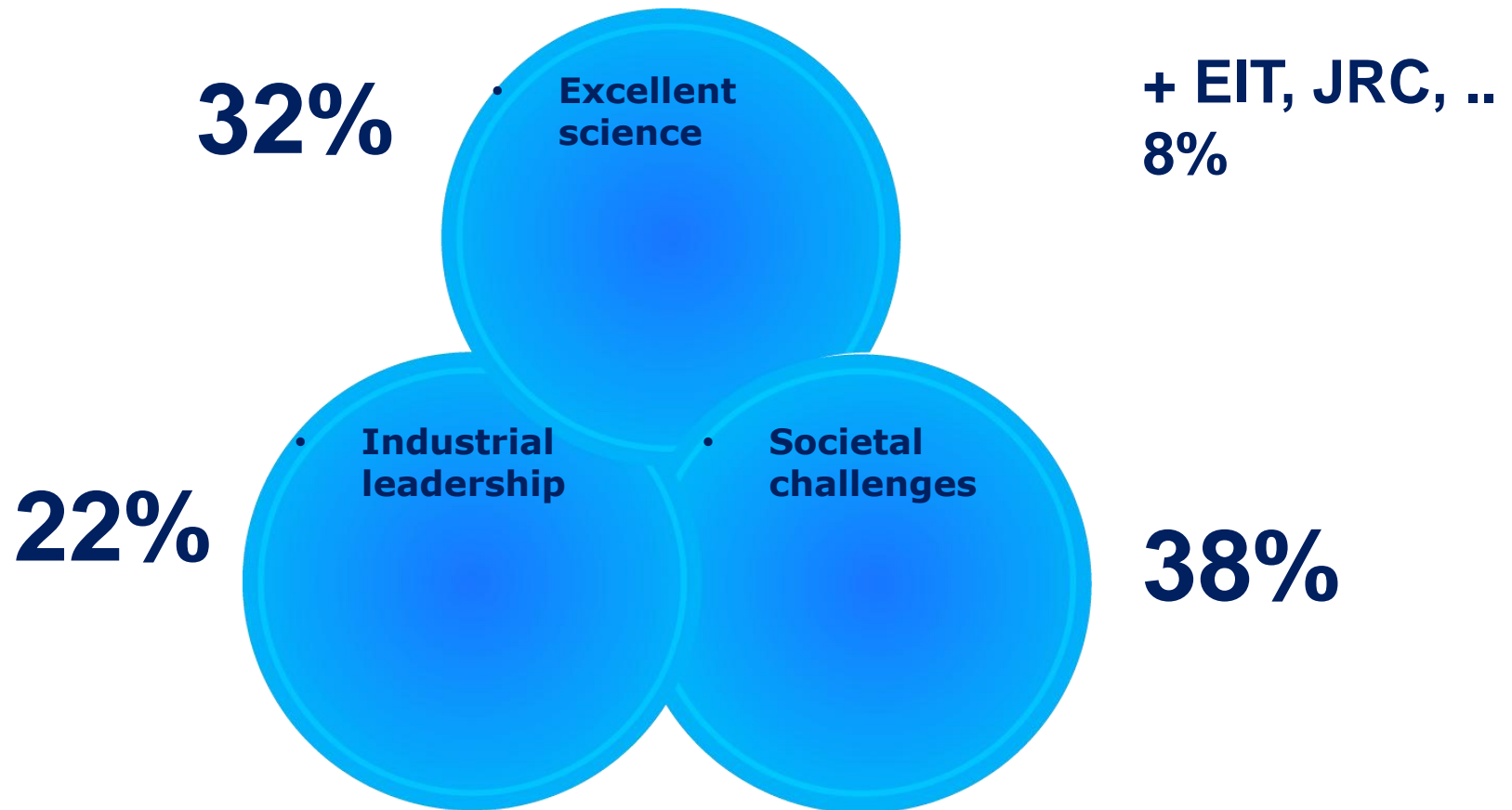
\* The 7th Research Framework Programme (FP7), innovation aspects of Competitiveness and Innovation Framework Programme (CIP), EU contribution to the European Institute of Innovation and Technology (EIT)

# Three Priorities



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## Priority 1. Excellent science



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- Needs of world class science is the foundation of tomorrow's technologies, jobs and well-being
- Europe needs to develop, attract and retain research talent
- Researchers need access to the best infrastructures



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## Priority 1. Excellent science (24.4 GE)

|  |               |
|--|---------------|
| <p><b>European Research Council</b><br/><i>Frontier research by the best individual teams</i></p>                        | <b>13.095</b> |
| <p><b>Future and Emerging Technologies</b><br/><i>Collaborative research to open new fields of innovation</i></p>        | <b>2.696</b>  |
| <p><b>Marie Skłodowska Curie Actions</b><br/><i>Opportunities for training and career development</i></p>                | <b>6.162</b>  |
| <p><b>Research Infrastructures (including e-infrastructure)</b><br/><i>Ensuring access to world-class facilities</i></p> | <b>2.488</b>  |

## Priority 2. Industrial leadership



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- Europe needs more innovative SMEs to create growth and jobs
- Strategic investments in key technologies (e.g. advanced manufacturing, micro-electronics) underpin innovation across existing and emerging sectors

### **KETs (Key Enabling Technologies) Choice:**

Key and strategic technologies and where the EU is already competitive and needs to remain

- Funding for pilot projects and large-scale demonstration
- Europe needs to attract more private investment in research and innovation



## Priority 2. Industrial leadership (17 GE)

|   |               |
|---|---------------|
| <b>Leadership in enabling and industrial technologies</b><br><i>(ICT, nanotechnologies, materials, biotechnology, manufacturing, space)</i> | <b>13.557</b> |
| <b>Access to risk finance</b><br><i>Leveraging private finance and venture capital for research and innovation</i>                          | <b>2.842</b>  |
| <b>Innovation in SMEs</b><br><i>Fostering all forms of innovation in all types of SMES</i>  | <b>616</b>    |

## Priority 3. Societal challenges



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- Concerns of citizens and society/EU policy objectives (climate, environment, energy, transport etc.) cannot be achieved without innovation
- Breakthrough solutions come from multi-disciplinary collaborations, including social sciences & humanities
- Promising solutions need to be:
  - ① tested, demonstrated and
  - ② scaled up



## Priority 3. Societal challenges (31 GE)

|   |              |
|---|--------------|
| <b>Health, demographic change and wellbeing</b>   | <b>7.472</b> |
| <b>Food security, sustainable agriculture, marine and maritime and inland water research and the bioeconomy</b> | <b>3.851</b> |
| <b>Secure, clean and efficient energy</b>   | <b>5.931</b> |
| <b>Smart, green and integrated transport</b>  | <b>6.339</b> |
| <b>Climate action, environment, resource efficiency and raw materials</b>                                       | <b>3.081</b> |
| <b>Inclusive, innovative and reflective societies</b>   | <b>1.310</b> |
| <b>Secure societies</b>   | <b>1.695</b> |
| <i>Science with and for society</i>   | <i>462</i>   |
| <i>Spreading excellence and widening participation</i>  | <i>816</i>   |





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# Technological platforms in Europe

| Bio-based economy     | Energy     | Environment | ICT          | Production and processes | Transport  |
|-----------------------|------------|-------------|--------------|--------------------------|------------|
| EATIP                 | Biofuels   | WssTP       | ARTEMIS      | ECTP                     | ACARE      |
| ETPGAH                | EU PV TP   |             | EUROP        | ESTEP                    | ERRAC      |
| Food for Life         | TPWind     |             | ETP4HPC      | EuMaT                    | ERTRAC     |
| Forest-based          | RHC        |             | ENIAC        | FTC                      | Logistics  |
| Plants                | SmartGrids |             | EPoSS        | SusChem                  | Waterborne |
| FABRE TP              | SNETP      |             | ISI          | Nanomedicine             |            |
| TP Organics           | ZEP        |             | Net!Works    | ETP-SMR                  |            |
|                       |            |             | NEM          | Manufuture               |            |
|                       |            |             | NESSI        |                          |            |
|                       |            |             | Photonics 21 |                          |            |
| Cross ETP Initiatives |            |             |              |                          |            |
| Nanofutures           |            |             |              |                          |            |
| Industrial Safety     |            |             |              |                          |            |

: [http://cordis.europa.eu/technology-platforms/individual\\_en.html](http://cordis.europa.eu/technology-platforms/individual_en.html)

# Horizon 2020 and partnering



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- **Public private partnerships:**
  - Through Joint Technology Initiatives or other formal structures (Art. 187)
  - Through contractual agreements, which provide inputs for work programmes
  - Only when criteria met, e.g. clear commitments from private partners
- **Public public partnerships:**
  - Through « ERA-Nets » for topping up individual calls/actions (replacing current ERA-Net, ERA-Net Plus, Inco-Net, Inno-net)
  - Through participation in joint programmes between Member States (Art. 185)
  - Supporting agendas of Joint Programming Initiatives when in line with Horizon 2020
  - Only when criteria met, e.g. financial commitments of participating countries
- **European Innovation Partnerships:**
  - Not funding instruments, but for coordination with broader policies and programmes



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# Simplification: Rules for Participation

- **1. 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
- **2. One project – one funding rate**
  - Maximum of 100% of the total eligible costs (except for innovation actions, where 70% maximum will apply for profit making entities)
  - Indirect eligible costs: a flat rate of 25% of direct eligible costs
- **3. Simple evaluation criteria**
  - Excellence – Impact – Implementation (Excellence only, for the ERC)
  - **Faster time to grant (8 months)**
- **4. New forms of funding aimed at innovation**
  - Pre-commercial procurement, inducement prizes, dedicated loan and equity
  - Instruments
- **5. International participation**
  - facilitated but better protecting EU interests



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# Simplification: Rules for Participation

- **6. 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
- **7. 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
- **8. 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

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



# HORIZON 2020 – Actions

| For Researchers Type of Action 1   | Code | Minimum Conditions 2            | Funding Rate           | Typical Duration | Average EC Contribution   | Aim  |
|------------------------------------|------|---------------------------------|------------------------|------------------|---|--|
| Research & Innovation Action       | RIA  | ≥ 3 legal entities from 3 MS/AC | 100%                   | 36-48 months     | € 2.0 – 5.0M  | collaborative research projects : <i>Action primarily consisting of activities aiming to <b>establish new knowledge</b> and/or to <b>explore the feasibility of a new or improved technology, product, process, service or solution.</b></i> |
| Innovation Action                  | IA   | ≥ 3 legal entities from 3 MS/AC | 70% 3                  | 30-36 months     | € 2.0 – 5.0M  | produce plans & arrangements or designs for new, altered or improved products, processes or services   |
| Coordination & Support Action      | CSA  | 1 legal entity                  | 100%                   | 12-30 months     | € 0.5 – 2.0M  | accompanying measures (standardisation, dissemination, policy dialogues etc.) no research  |
| MSCA 4:<br>MSCA<br>(except Cofund) |      |                                 | see separate factsheet |                  |   | facilitate mobility of researchers for training & career development   |
| ERC Grants                         | ERC  | 1 legal entity in MS/AC         | 100%                   | 60 months        | Starting: ≤ € 2.0M<br>Consolidator: ≤ € 2.75M<br>Advanced: ≤ € 3.5M | support excellent investigators and their research teams to pursue ground-breaking, high-gain/ high-risk research  |

1 Defined in the Work Programme.  
2 Additional conditions may be listed in the respective Work Programmes.  
3 100% for non-profit organisation (= any legal entity except companies)  
4 MSCA = Marie Skłodowska Curie Actions

# HORIZON 2020 – Actions



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| For Researchers Type of Action <sup>1</sup> | Code | Minimum Conditions <sup>2</sup> | Funding Rate     | Typical Duration | Average EC Contribution   | Aim   |  |
|---|------|---------------------------------|------------------|------------------|---|---|--|
| Prizes                                      | PRI  | 1 legal entity                  | n/a              | n/a              | variable; see respective topic  | <ul style="list-style-type: none"> <li>- recognise past achievements</li> <li>- induce future activities</li> </ul> |  |
| SME Instrument                              |      | SME                             | 1 SME in MS/AC   |                  | 3 phases:<br><input checked="" type="checkbox"/> Phase 1: lump sum of € 50K / project<br><input checked="" type="checkbox"/> Phase 2: € 1 – 2.5M / project (1-2 years) (70% of eligible costs reimbursed)<br><input checked="" type="checkbox"/> Phase 3 : no funding | combination of demonstration activities (testing, prototyping, ...), market replication                             |  |
| Fast Track to Innovation                    | FTI  | ≤ 5 legal entities from 5 MS/AC | 70% <sup>3</sup> |                  | tbd   | ≤ € 3.0 M   | produce plans & arrangements or designs for new, altered or improved products, processes or services |

[..\General Annexes H2020\h2020-wp1415-Annex-C-elig\\_en.pdf](..\General Annexes H2020\h2020-wp1415-Annex-C-elig_en.pdf)

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

# HORIZON 2020 – Actions



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| For Public Sector and other Funding Bodies, Programme Managers etc. (Cofund Actions)<br>Type of Action 1 | Funding Code | Minimum Conditions<br>2         | Funding Rate | Typical Duration   | EC Contribution                | Comment   |
|--|--------------|---------------------------------|--------------|--|--------------------------------|---|
| MSCA Cofund3   | MSCA Cofund  | 1 legal entity                  | 50%          | 36-60 months   | ≤ € 10.0 M                     | Co-funding of regional, national & international doctoral & fellowship programmes   |
| ERA-NETs   | ERA-NET      | ≥ 2 legal entities in MS/AC     | 33%          | 60 months  | variable, see respective topic | coordinate research efforts of participating MS/AC in the field described & implement joint transnational call for proposals with EU co-funding                       |
| Pre-Commercial Procurement   | PCP          | ≥ 3 public procurers from MS/AC | 70%          | 18-48 months for 2 Phases:<br>A) Preparation<br>B) Execution | variable, see respective topic | enable the public sector as a technologically demanding buyer to encourage research, development and validation of breakthrough solutions in areas of public interest |

1 Defined in the Work Programme.

2 Additional conditions may be listed in the respective Work Programmes.

3 MSCA = Marie Skłodowska Curie Actions. For further details on MSCA Cofund, see also our separate MSCA factsheet.

# HORIZON 2020 –Actions



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| For Public Sector and other Funding Bodies, Programme Managers etc. (Cofund Actions) Type of Action1 | Funding Code | Minimum Conditions2             | Funding Rate | Typical Duration   | EC Contribution                | Comment  |
|--|--------------|---------------------------------|--------------|--|--------------------------------|--|
| Public Procurement of Innovative Solutions   | PPI          | ≥ 3 public procurers from MS/AC | 20%          | 18-48 months for 2 Phases:<br>A) Preparation<br>B) Execution | variable, see respective topic | enable trans-national buyer groups of procurers to share the risks of acting as early adopters of innovative goods or services which are not yet available on a large-scale commercial basis |



# Selection criteria



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## **Excellence**

The extent that the proposed work corresponds to the topic description in the work programme.

## **Impact**

The extent to which the outputs of the project should contribute at the European and/or International level

## **Quality and implementation efficiency**

[..\General Annexes H2020\h2020-wp1415-Annex-H-esacrit\\_en.pdf](#)



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# New approach of WPs and calls

## **More strategic work programmes**

Focusing on areas where EU level action has greatest impact  
With a coherent set of actions from research to innovation  
Greater integrated across different parts of Horizon 2020

## **Less prescriptive calls**

More open to innovative proposals  
Stronger emphasis on impact  
Stimulating inter-disciplinary projects

## **Two-years work programmes**

Greater participation in setting work programmes, including by citizens  
More advanced notice for applicants

## Focus on SMEs



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- **In collaborative projects** - 20% of total budget for societal challenges and enabling & industrial technologies to go to SMEs
- **A new SME instrument** in all societal challenges and enabling & industrial technologies (7% of relevant budgets)
- **Eurostars joint programme** with Member States and associated countries for research-intensive SMEs
- **Support measures under 'Innovation in SMEs'** networking and brokering; SMEs to 'spin in' technology by connecting to researchers and innovators across Europe
- **Access to risk finance** to have a strong SME focus - (debt and equity facilities)

# International cooperation



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- **Principle of general openness:** H2020 will remain to be the most open funding programme in the world
- Open to the **association** of:
  - enlargement countries
  - EFTA
  - European Neighbourhood (including Morocco)
  - ...and others associated to FP7
- Targeted actions to be implemented taking **a strategic approach to international cooperation**

# Sitography and bibliography

- H2020 Programme Website:
- <http://ec.europa.eu/programmes/horizon2020/>
  
- H2020 Participant Portal Website:
- <http://ec.europa.eu/research/participants/portal/desktop/en/home.html>
  
- H2020 Programme – Presentation Website from French Government:
- <http://www.horizon2020.gouv.fr/>



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