



**HORIZON 2020**

*Open to the world!*

*The EU Framework Programme  
for Research and Innovation*

# A practical guide for EGYPT

*Research and  
Innovation*

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## EUROPEAN COMMISSION

Directorate-General for Research and Innovation

Directorate C – International Cooperation

Unit C.3

E-mail: [delegation-egypt@eeas.europa.eu](mailto:delegation-egypt@eeas.europa.eu)

[RTD-PUBLICATIONS@ec.europa.eu](mailto:RTD-PUBLICATIONS@ec.europa.eu)

European Commission

B-1049 Brussels

EUROPEAN COMMISSION

The EU Framework Programme  
for Research & Innovation

# **A practical guide for Egypt**

## **2014-2020**

*Edited by:*

Science, Technology and Innovation Section  
Delegation of the European Union to Egypt





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### PREFACE

Dear Reader,

Research and Innovation constitute a fundamental element of the cooperation between the European Union and Egypt. For the last years, the two partners have been cooperating notably through the “Research, Innovation and Development” Programme and previous EU Framework Programmes for Research and Innovation.

The EU regards international cooperation, especially with its neighbouring countries and the Mediterranean region, as a vital part of its research and innovation cooperation. Egypt and the EU are facing increasingly shared challenges including environment, energy, agriculture, food, health, and all areas of sustainable development.





In this context, we believe that we need to put innovation at the centre of our economic policies, so that we can also ensure sustainable economic growth. Where innovation has been regarded as the engine of economic growth, it is very essential to think of it as a broad regional challenge and not a local one. This is why Horizon 2020 – the biggest EU Research and Innovation programme ever, with nearly €80 billion of funding available over 7 years (2014- 2020) is open to Egypt.

This booklet is addressed to both newly interested researchers and innovators, and also to those experienced with FP7 and its predecessors to explore the manifold opportunities provided by the new EU Framework Programme for Research and Innovation – “Horizon 2020”.

In this brochure, you will find practical guidance in order to participate in Horizon 2020: WHAT exactly is Horizon 2020? HOW to apply? WHAT to consider? WHERE to find information? HOW to find European partners? Etc.









### Research and Innovation in Europe

The European Union (EU) is one of the global leaders in Research, Innovation and Science, as demonstrated by the facts and figures included in the Innovation Union Competitiveness Report 2013 and the recent brochure (2013) on the European Research Area.

The EU remains today the main knowledge production centre, accounting for almost a third of the world's science and technology production. Indeed, the European Union is responsible for 24% of world expenditure on research, 32% of high impact publications and 32% of patent applications, while representing only 7% of the population.

The EU has managed to maintain its competitive knowledge position to a greater degree than the United States and Japan and is making progress towards its R&D intensity target of 3 % by 2020. The EU also remains a very attractive location for R&D investment: in 2011, the EU was the main destination of FDI, receiving around 30 % of FDI inflows worldwide.

EU - Egypt Cooperation



# Horizon 2020

## Introduction

Horizon 2020 runs from 2014 to 2020 with a budget of nearly € 80 billion (current prices – adjusted for inflation). It is the biggest EU research and innovation programme ever. It will lead to more breakthroughs, discoveries and world-firsts by taking great ideas from the lab to the market.

Horizon 2020 has been designed to deliver results that make a difference to people's lives. Built on three pillars – Excellent Science, Industrial Leadership and Societal Challenges, further described below – it will fund all types of activities, from frontier science to close-to-market innovation.

Horizon 2020 brings all EU-level funding for research and innovation<sup>1</sup> under one roof, provides a single set of rules and radically slashes red tape. The overarching goal is a more coherent, simpler programme that will make it easier to participate, especially for smaller research organisations and small businesses from both European and non-European countries.



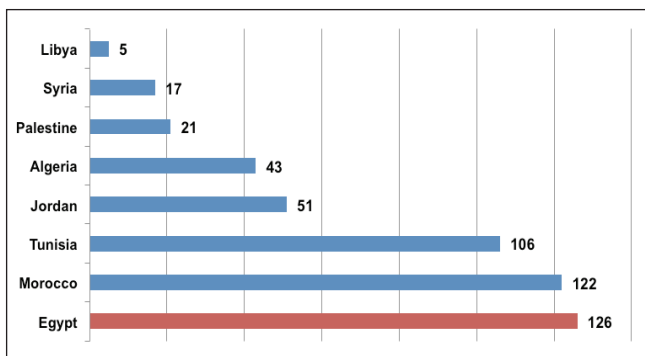
<sup>1</sup> - Ex: the Framework Programme, the previous Competitiveness and Innovation Programme (CIP) and the European Institute of Innovation and Technology (EIT).



## International cooperation

Global cooperation formed an integral element of the previous EU Framework Programmes for Research and Innovation. Partner countries accounted for about 5% of total participations in FP7 that ran from 2007 to 2013 with a budget of €54 billion. One-in-five projects included at least one international partner in addition to participants from the EU Member States or Associated Countries.<sup>2</sup>

Egyptian researchers have also been actively collaborating in FP7. Egypt was the first partner country in the Southern Mediterranean with participations in 126 main-listed projects. The budget of these projects reached around €588 million. The share of Egyptian participants amounted to €15 million covering various areas including ICT, health, agriculture environment, nanosciences, transport and social sciences. Forty Egyptian organisations also took part in Marie Curie Actions for an allocated EU budget of €2.1 million.



<sup>2</sup> - They are countries contributing to H2020 as EU Member States do and therefore get same rights and obligations. Associated Countries to H2020: Iceland, Norway, Albania, Bosnia and Herzegovina, the F.Y.R.o.M., Montenegro, Serbia, Turkey, Israel, Moldova, Switzerland and the Faroe Islands

## HORIZON 2020

Moreover, under FP7, the “Sheraca” project (2009-2013) was launched to strengthen EU-Egypt research cooperation capacity supporting and enhancing the partnership between EU and Egypt’s science, technology and innovation stakeholders. From 2013, “Sheraca+” was designed to further support the institutional dialogue and foster collaborative activities taking the EU-Egypt partnership a step forward in Horizon 2020.

### *International participation – A key element of Horizon 2020*

In 2012, the European Commission set out its new approach to international cooperation for Research and Innovation in a communication entitled “Enhancing and focusing EU international cooperation in research and innovation: a strategic approach”.<sup>3</sup>

To implement Horizon 2020, the new strategy focuses on research in areas of common interest and mutual benefit in order to achieve wider policy objectives and address global challenges that countries outside the EU also share.



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3 - [http://ec.europa.eu/research/iscp/pdf/policy/com\\_2012\\_497\\_communication\\_from\\_commission\\_to\\_inst\\_en.pdf](http://ec.europa.eu/research/iscp/pdf/policy/com_2012_497_communication_from_commission_to_inst_en.pdf)



As more research and innovation is also conducted in international partner countries, it is crucial that Europe is able to collaborate with the best researchers and research centres worldwide.

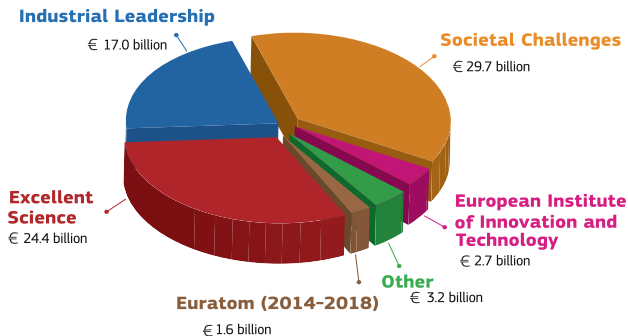
Horizon 2020 is open to the participation of researchers from across the world. Targeted international cooperation activities are included in the “societal challenges”, “enabling and industrial technologies” and other relevant parts of Horizon 2020. The areas and partners for cooperation are identified in the relevant Work Programme.

Considered as privileged partners, Egypt and other neighbourhood countries are eligible for automatic funding.

## Structure of Horizon 2020

To maximise impact, all of the funding in Horizon 2020 is built upon three main pillars: Excellent Science, Industrial Leadership and Societal Challenges.

### HORIZON 2020 BUDGET (in current prices)



### ► Excellent science

Horizon 2020 will bolster excellence in research and science, by attracting the best brains and helping scientists collaborate and share ideas across Europe and beyond. It will help talented people and innovative firms boost competitiveness, creating jobs along the way, and contributing to a higher standard of living – benefiting everyone.

“Excellent Science” encompasses four funding schemes: European Research Council (ERC), Marie Skłodowska-Curie Actions (MSCAs), Future and Emerging Technologies (FETs) and Research Infrastructure.

#### *Frontier research funded by the European Research Council (ERC)*

The ERC’s mission is to encourage the highest quality research in Europe through competitive funding and to support investigator-initiated frontier research across all fields of research on the sole basis of scientific excellence. The aim is to recognise the best ideas, and retain and confer status and visibility to the best brains in Europe, while also attracting talent from abroad.

ERC can be carried out by a single national or multinational research team led by a ‘Principal Investigator’. Excellent young, early-career researchers, already independent researchers and senior research leaders are eligible to apply. Researchers can be of any nationality, including Chinese nationals, and their projects can be in any field of research.

Under Horizon 2020, the ERC will continue to play a major role in fostering scientific excellence, building on its success in FP7, and will remain open

*Funding: €13.095 billion*

### *Marie Skłodowska-Curie Actions (MSCAs)*

Training and career development, including international mobility, help produce leading researchers. Support is offered to young and experienced researchers to reinforce their career and skills through training, or periods of placement in another country or in the private sector. This gives them new knowledge and experience to allow them to reach their full potential. Under FP7, 27 projects were funded in Egypt with an EU contribution of €2.1 million.

*Funding: €6.162 billion*



### *Future and emerging technologies (FETs)*

Staying at the cutting edge of new technologies will enhance competitiveness and create new, high-skilled jobs – and this means being proactive and thinking one step ahead of the crowd.

FET actions are expected to initiate radically new lines of technology through unexplored collaborations between advanced multidisciplinary science and cutting-edge engineering. The FET programme has three complementary lines of action to address different methodologies and scales, from new ideas to long-term challenges:



## HORIZON 2020

FET Open supports early-stage joint science and technology research around new ideas for radically new future technologies.

FET Proactive nurtures emerging themes and structure communities by addressing a number of promising exploratory research themes.

FET Flagships support ambitious, large-scale, long-term, science-driven, goal-oriented, roadmap-based research initiatives tackling grand challenges in Science and Technology. FET will provide the main EU support in Horizon 2020 of the two flagships already chosen under FP7: 'Graphene' and 'Human Brain Project' (HBP).

*Funding: €2.696 billion*

## World-class infrastructure

Research equipment can be so complex and costly that no single research team – or even country – can afford to buy or construct or operate it alone. Examples include: the high powered lasers that serve a diverse research community spanning medicine, materials sciences and biochemistry; specialised high-tech airplanes; or a monitoring station at the bottom of the sea, used for observing climate change. These can cost millions of euro, and need the skills of the world's top experts. EU funding helps pool resources for such large-scale projects, and provides Europe's researchers with access to the very latest, state-of-the-art infrastructure – making new and exciting research possible.

*Funding: €2.488 billion*



## ▶ Industrial leadership

A number of promising and strategic technologies play a crucial role in today's and tomorrow's industry, such as those used in advanced manufacturing and micro-electronics. But public funding alone is not enough: there is a need to encourage businesses to invest more in research, and target areas where they can work with the public sector to boost innovation.

Businesses gain by becoming more innovative, efficient and competitive. This in turn creates new jobs and market opportunities.

### *Leadership in enabling and industrial technologies (LEIT)*

Horizon 2020 supports the ground-breaking technologies needed to underpin innovation across all sectors, including information and communication technology (ICT) and space. Key enabling technologies such as advanced manufacturing and materials, biotechnology and nanotechnologies, are at the heart of game-changing products: smart phones, high performance batteries, light vehicles, nanomedicines, smart textiles and many more besides. The manufacturing industry is a key employer, providing jobs for 31 million people across Europe.

## HORIZON 2020

*Funding: €13.557 billion*

Small and medium enterprises (SMEs) – a key source of jobs and innovation – receive special attention in Horizon 2020. They can collaborate in projects as part of a consortium and can receive support through a dedicated instrument designed specifically for highly innovative smaller companies.

The integrated and streamlined character of Horizon 2020 will boost SME participation to at least 20 % (€8.65 billion) of the total combined budgets of the ‘Leadership in enabling and industrial technologies’ and the ‘Societal Challenges’ themes. The SME instrument will be pivotal in achieving this target by providing support to help single SMEs, or consortia of SMEs, assess the market viability of their ideas at the high-risk stage, and then to help them develop these ideas further. Funding is also available for business coaching and guidance on how to identify and attract private investors.

*Funding: At least €3 billion allocated to the SME instrument*

### ► Societal challenges

The EU has identified seven priority challenges<sup>4</sup> where targeted investment in research and innovation can really benefit citizens in Europe, as well as in non-European countries:

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<sup>4</sup> - Summary of the seven core societal challenges: <http://cascade-inconet.eu/sites/default/files/Information%20Sheet.pdf#page=2>



	Challenge	Funding
1	Health, demographic change and wellbeing	€7.472 billion
2	Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bio-economy	€3.851 billion
3	Secure, clean and efficient energy	€5.931 billion
4	Smart, green and integrated transport	€6.339 billion
5	Climate action, environment, resource efficiency and raw materials	€3.081 billion
6	Europe in a changing world - inclusive, innovative and reflective societies	€1.309 billion
7	Secure societies - protecting freedom and security of Europe and its citizens	€1.695 billion



### ► Additional areas

Similarly to previous components the additional Research and Innovation areas of Horizon 2020 are also fully open to the participation of Egyptian stakeholders.

#### *Spreading excellence and widening participation*

Research and innovation are crucial to economic prosperity and so measures are needed to ensure that the innovation performances of all EU Member States and their regions converge and improve. Experience shows that when economic crises constrain national budgets, disparities in innovation performance become more apparent. Exploiting the potential of Europe's talent pool and maximising and spreading the benefits of innovation across the Union is therefore the best way to strengthen Europe's competitiveness and its ability to address societal challenges in the future.

*Funding: €816 million*

#### *Science with and for society*

Effective cooperation between science and society is needed to recruit new talent for science and to marry scientific excellence with social awareness and responsibility. Horizon 2020 is, therefore, supporting projects that involve citizens in the processes that define the nature of the research that affects their everyday lives. Broader understanding between the specialist and non-specialist communities on objectives and the means for achieving them will maintain scientific excellence and allow society to share ownership of the results.

*Funding: €462 million*

#### *Innovation actions in Horizon 2020*

Substantial support for innovation is provided throughout Horizon 2020 for prototyping, testing, demonstrating, piloting, large-scale product validation and market replication. Significant support to demand side approaches is another important feature, notably pre-commercial and first-commercial



public procurement of innovation, as well as regulation to foster innovation and standard-setting. New forms of public sector innovation and social innovation as well as pilot actions for private sector services and products are also covered.

### *Social Sciences and Humanities*

As a cross-cutting issue of broad relevance, Social Sciences and Humanities (SSH) research is fully integrated into each of the general objectives of Horizon 2020. Embedding SSH research across Horizon 2020 is essential to maximise the returns to society from investment in science and technology. Integrating the socio-economic dimension into the design, development and implementation of research itself and of new technologies can help find solutions to societal problems.

### *Nuclear research*

EU research on nuclear fission focuses on safety and security, medical research, radiation protection, waste management, industrial uses of radiation, and includes many other areas such as the use of radiation in the agricultural sector.

Research on nuclear fusion aims at demonstrating that fusion can become a viable energy source for large-scale commercial exploitation within a reasonable timeframe, by gathering the efforts of all stakeholders into a unique European joint programme.

**Funding: €1.603 billion**





## How does Horizon 2020 work in practice?

### ▶ Who can apply?

With very few exceptions, organisations and researchers from any country of the world can participate in Horizon 2020 projects.

The consortium of a typical collaborative project must include 3 independent organisations from different EU member states or associated countries (such as Norway), and may include any number of additional European or non-European organisations.

### ▶ Who can receive EU funding?

Participants from European countries (EU member states and associated countries) in classical collaborative projects are automatically eligible for funding, as well as those from most developing countries and neighbourhood countries - including Egypt - as defined in the list of countries and rules for funding<sup>5</sup>

A single funding rate is applicable for all beneficiaries and all activities in a given project, as defined in the Work Programme. The funding rate is up to 100 % of the eligible costs, but is limited to 70 % for innovation projects (with an exception for non-profit organisations - maximum of 100 %).

Information on funding for ERC and MSCA grants can be found in the related sections below.

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<sup>5</sup>[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014\\_2015/annexes/h2020-wp1415-annex-a-countries-rules\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/annexes/h2020-wp1415-annex-a-countries-rules_en.pdf)

## ► What types of actions (instruments) are available?

### Frontier research grants – European Research Council

These projects are evaluated on the sole criterion of scientific excellence in any field of research, carried out by a single national or multinational research team led by a 'principal investigator'.

Who? Excellent young, early-career researchers, already independent researchers and senior research leaders. Researchers can be of any nationality and their projects can be in any field of research.

### Marie Skłodowska-Curie Actions

Funding for international research fellowships in the public or private sector, research training, staff exchanges.

Who? Early-stage researchers or experienced researchers (of any nationality), technical staff, national/regional research mobility programmes.

### Research and innovation actions

These are the standard collaborative projects, to which most of the funding will be allocated. They are intended to tackle clearly defined challenges, which can lead to the development of new knowledge or a new technology.

Who? Consortia of partners from different countries, industry and academia.

### Innovation actions

These projects are more focused on closer-to-the-market activities. For example prototyping, testing, demonstrating, piloting, scaling-up, etc. if they aim at producing new or improved products or services.

Who? Consortia of partners from different countries, industry and academia.



### Coordination and support actions

These actions intend to cover the coordination and networking of research and innovation projects, programmes and policies. Funding for research and innovation per se is covered elsewhere.

Who? Single entities or consortia of partners from different countries, industry and academia.

### SME Instrument

The instrument is aimed at highly innovative SME's with the ambition to develop their growth potential. It offers lump sum for feasibility studies, grants for an innovation project's main phase (demonstration, prototyping, testing, application development...); lastly the commercialisation phase is supported indirectly through facilitated access to debt and equity financial instruments.

Who? Only SME's can participate. Either a single SME or a consortium of SME's established in an EU or Associated Country. SME's established in other countries can only be involved as third parties, for example in a subcontracting relationship.

### Fast Track to Innovation

Funding is due to start in 2015 as a pilot action. Continuously open, innovator-driven calls will target innovation projects addressing any technology or societal challenge field. The pilot action will undergo an in-depth assessment half-way through Horizon 2020.

Who? Industry including SME's, with a minimum of three and maximum of five partners and a maximum EU contribution of 3 million per project.

### How to participate? <sup>6</sup>

Work programmes announce the specific research and innovation areas that will be funded. They are accessible through the Participant Portal<sup>7</sup> and indicate the timing of forthcoming Calls for Proposals.

When published, each Call gives more precise information on the research and innovation areas and issues that applicants for funding should address in their proposals.

Although details on all Calls can also be found in the EU's Official Journal, the Participant Portal goes further. It provides easy-to-follow guidance and all the tools needed to apply for funding and manage projects throughout their lifecycle. It covers every type of research and innovation action.

A few months (usually 4 to 6 months) are given to participants to prepare their project proposals in response to open calls. After the deadline passes each project proposal is evaluated by panel of independent experts (in general 4 experts) in the areas covered by the Call. Each expert individually



6 - For more information, see the Horizon 2020 Online Manual: <http://ec.europa.eu/research/participants/portal/desktop/en/funding/index.html>

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



and then the expert panel score each project proposal against a list of criteria listed beforehand<sup>8</sup>

### Step 1 - Find a suitable Call for Proposals

The Commission publishes all Calls for Proposals on the Participant Portal of Horizon 2020 website Horizon 2020 . If you apply for the first time and do not know yet the available programmes, it is useful to refer to the Horizon 2020 Online Manual.<sup>9</sup> It will help you identify the most suitable programme(s) depending on your area and profile, also by using key words and filters if necessary.

### Step 2 - Find project partners (or apply as an individual (researcher/team

–Collaborative projects: Most collaborative projects must include at least 3 independent organisations (legal entities) from different EU Member States or Associated Countries. Various tools help you find potential partners.

–Individual researcher or team: It is also possible to submit your proposal as an individual researcher, team or organisation, especially for European Research Council (ERC) grants and Marie Skłodowska-Curie actions (MSCAs).

### Step 3 - Create an account on the Participant Portal and register your organisation

To fill in the required forms and submit them electronically to the Commission, you first need to create an account on the Participant Portal. The Commission has an online register of the organisations participating in the EU research and innovation or education, audiovisual and cultural programmes.

This allows consistent handling of the organisations' official data and avoids multiple requests for the same information.

8 - [http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014\\_2015/annexes/h2020-wp1415-annex-c-elig\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/annexes/h2020-wp1415-annex-c-elig_en.pdf)

9 - <http://ec.europa.eu/research/participants/portal/desktop/en/funding/index.html>

### **Step 4 – Prepare your project proposal, when appropriate with your partners**

### **Step 5 – Submit your project proposal to the European Commission**

To submit your project proposal, you need to go to the section Electronic Proposal Submission on a specific Topic page that belongs to a call.

You need to be logged in with your Participant Portal account to start filling in the forms and submit your proposal.

The proposal is submitted electronically only by the project coordinator who can be either European or Egyptian.

### **Step 5 – Evaluation by external independent experts**

Once the call is closed, all proposals are evaluated by a panel of independent experts in the field concerned. The panel checks all proposals against a list of criteria and ranks them.

Should you wish to act as an expert in this context (which is also possible for non-European researchers), please refer to the related section below.

### **Step 6 – Signature of the Grant Agreement**

Once a proposal passes the evaluation stage and is successfully selected (~ five months' duration), applicants are informed about the outcome. The European Commission then draws up a contract ("grant agreement") with each consortium. The grant agreement accurately defines what research & innovation activities will be undertaken, the project duration, budget, rates and costs, the European Commission's contribution, all rights and obligations and more (e.g. intellectual property provisions). The time limit for signing the grant agreements is generally three months. Once the grant agreement is signed the project can start.

## Act as an expert! <sup>10</sup>

The European Commission is looking forward to gain access to a wider range of expertise assisting in the evaluation of proposals and monitoring of actions. A bigger pool of international experts will serve several purposes: to widen the range of available expertise (in all domains), to provide the opportunity for an 'outside' perspective to proposal evaluations/ monitoring of actions when necessary, and to provide additional expertise that may be required in the case of actions targeting cooperation with international partner countries.

There are also advantages for international experts:

- They get to know Horizon 2020 better, to appreciate the peer-review process and possibly to consider participation in the future.
- They have the opportunity for interaction with European experts in their domain.
- They are remunerated for their work.



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10 - For further information and registration details see: <http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>







## Additional information and Eligibility criteria's

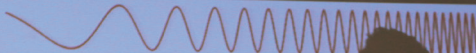
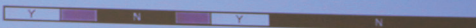
European Research Council <sup>11</sup>			
	Objective and target group	Max. Funding	Max. Duration
Starting Grants	Support top researchers of any nationality with 2-7 years of experience since completion of PhD or equivalent degree and scientific track showing great promise <sup>12</sup>	Up to €2 million	5 years
Consolidator Grants	Support top researchers of any nationality with over 7 and up to 12 years of experience since completion of PhD or equivalent degree and scientific track showing great promise 12	Up to €2.75 million	5 years
Advanced Grants	Support researchers of any nationality or age, scientifically independent and with a recent research track-record and profile which identifies them as leaders in their respective field(s) of research 12	Up to €3.5 million	5 years

11-For further information see ERC Working Programme: [http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014\\_2015/erc/h2020-wp1415-erc\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/erc/h2020-wp1415-erc_en.pdf); and the dedicated website for non-EU researchers: <http://erc.europa.eu/non-european-researchers>

12-Research must be conducted in a public or private research organisation (Host Institution) located in one of the EU Member States or Associated Countries

(cont.) European Research Council			
	Objective and target group	Max. Funding	Max. Duration
Synergy Grants	<p>Enable groups (made up of 2 to 4 Principal Investigators and, as necessary, their teams) to bring together complementary skills, knowledge and resources in order to jointly address research problems</p> <p>The Host Institution that engages the Corresponding Principal Investigator for the duration of the grant should be a legally recognised public or private research organisation in one of the EU Member States or Associated Countries</p>	€15 million	6 years
	Other ERC grants		
Proof of concept	<p>Bridging gap between research and earliest stage of marketable innovation</p> <p>For ERC grant holders only</p>	€150000	18 months

Penetrates Earth's Atmosphere?



Radio

Radio

Microwave

Infrared

Visible

Ultraviolet

Gamma ray

$10^3$

$10^{-2}$

$10^{-5}$

$0.5 \times 10^{-6}$

$10^{-8}$

$10^{-12}$

Buildings

Ants

Butterflies

Needle Point Protozoan

Atoms

Atoms

Frequency

$10^8$

$10^{12}$

$10^{16}$

$10^{18}$

$10^{20}$

Temperature

as a wave

2.73 K  
-273 °C

100 K  
-173 °C

10,000 K  
9,727 °C

$10^{10}$  K  
 $10^{10}$  °C

$10^{12}$  K  
 $10^{12}$  °C

$10^{14}$  K  
 $10^{14}$  °C

$10^{16}$  K  
 $10^{16}$  °C

$10^{18}$  K  
 $10^{18}$  °C

$10^{20}$  K  
 $10^{20}$  °C

Wavelength

$10^3$

$10^{-2}$

$10^{-5}$

$10^{-6}$

$10^{-12}$

Frequency

$10^8$

$10^{12}$

$10^{16}$

$10^{18}$

$10^{20}$

Temperature

as a wave

2.73 K  
-273 °C

100 K  
-173 °C

10,000 K  
9,727 °C

$10^{10}$  K  
 $10^{10}$  °C

$10^{12}$  K  
 $10^{12}$  °C

$10^{14}$  K  
 $10^{14}$  °C

$10^{16}$  K  
 $10^{16}$  °C

$10^{18}$  K  
 $10^{18}$  °C

$10^{20}$  K  
 $10^{20}$  °C

Wavelength

$10^3$

$10^{-2}$

$10^{-5}$

$10^{-6}$

$10^{-12}$

## Marie Skłodowska-Curie Actions (MSCAS)<sup>13</sup>

	Offer	Target group
<b>ITN</b> <b>Innovative Training Networks</b> <b>(Host applies)</b>	High-quality research training delivered through international and interdisciplinary networks, industrial doctorates or joint doctorates.	<p>Networks of organisations that train researchers at doctoral level (less than 4 years of full-time research experience and no PhD)</p> <p>The organisations should be established in at least three different EU or Associated Countries</p>
<b>IF</b> <b>Individual Fellowships</b> <b>(Individuals apply)</b>	Opportunities to work on personal research projects by moving between countries and possibly sectors to acquire new skills	Postdoctoral researchers (PhD or at least 4 years of full-time research experience)

<sup>13</sup> - <http://ec.europa.eu/msca>



	Max. Duration	Mobility conditions
	3 months - 3 years	At the time of recruitment by the host beneficiary, researchers must not have resided, worked, studied, etc. in the country of the host beneficiary for more than 12 months in the 3 years immediately prior to the reference date
	IF European: 12-24 months IF Global: 12-24 months for the outgoing phase, plus a 12-month return phase in Europe	By the proposal submission deadline, researchers must not have resided, worked, studied, etc. in the country of the host organisation for more than 12 months in the last 3 years. For Career Restart and Reintegration Panels, the maximum period is 36 months in the last 5 years. There are additional conditions for the Reintegration Panel (mobility to Europe) and Global Fellowships (mobility from Europe)

**(cont.) Marie Skłodowska-Curie Actions (MSCAS)**

	Offer	Target group
<b>RISE</b> Research and Innovation Staff Exchange (Host applies)	International and/or intersectoral exchanges of staff members involved in Research & Innovation to develop collaborative projects and transfer knowledge.	Partnerships of organisations that undertake a joint research project supported by the exchange of their staff (including technical, admin. and managerial staff). Partner organisations should be from three different countries; at least two of these from EU Member States of Associated Countries.
<b>CO-FUND</b> Co-Funding of Regional, National and International Programmes (Funder applies)	Access to regional, national or international programmes to foster excellence in researchers' training, mobility and career development.	Organisations funding or managing doctoral programmes or fellowship programmes.



	Max. Duration	Mobility conditions
	1-12 months	Secondments may be split into several stays not exceeding 12 months in total and not going beyond the project duration. The exchanged staff members should be guaranteed full reintegration into the sending institution.
	At least 3 months	Mobility types supported by fellowship programmes may be similar to the ones supported under the MSCA Individual Fellowships.



Eligibility conditions	
<b>Research &amp; Innovation actions</b>	<p>At least three legal entities. Each of the three shall be established in a different Member State or Horizon 2020 Associated country. All three legal entities shall be independent of each other.</p>
<b>Innovation actions</b>	<p>At least three legal entities. Each of the three shall be established in a different Member State or Horizon 2020 Associated country.  All three legal entities shall be independent of each other.</p>
<b>Coordination &amp; Support actions</b>	<p>At least one legal entity established in a Member State or Horizon 2020 Associated country.</p>
<b>SME instrument</b>	<p>At least one SME. Only applications from for-profit SMEs established in EU Member States or Associated countries. No concurrent submission or implementation with another phase 1 or phase 2 project.</p>



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### How to find a partner

If you look for a partner to build a collaborative research project you may consider the following links and networks.

The National Contact Points (NCP's) are the main contacts who can provide guidance, practical information and assistance on all aspects of participation in Horizon 2020 including searching for partners. The list of NCP's for Egypt is available here: <http://europa.eu/!gV86JM>

### Other partnering networks

Here is a list of other potentially useful partnering networks. This list is by no means exhaustive. You are encouraged to look also into other opportunities offered for instance by the EU Member States and any other organisation involved in research and innovation activities.

Horizon 2020 Projects: <http://horizon2020projects.com/all-partner-profiles>

CORDIS Partner Service: one of the largest databases of partner profiles (self-registered profiles). It has a list of Partnership Requests and you can also launch your own: <http://cordis.europa.eu/partners/web/guest/home>

Previously awarded bids: all proposals funded under FP7 are available to view online and have a PI listed. Many people have found emailing the PI from a relevant project to outline their own area of expertise and request collaboration, very successful: [http://cordis.europa.eu/fp7/projects\\_en.htm](http://cordis.europa.eu/fp7/projects_en.htm)





### Databases for Partner Search

■ **ICT Ideal-ist Partner Search:** the service includes advice on creating your profile by your local National Contact Point and there is a quality control of all the published data.

■ **Net4Society:** this features partner search requests in the socio-economic sciences and humanities.

■ **Nanosciences and nanotechnologies, Materials and new Production technologies Partner search:** this lists those looking for partners and also allows you to launch a partner search.

■ **SEREN2:** Security NCP network

■ **ETNAplus:** Transport NCP Network

■ **Innovative Medicines Initiative Partner Search:** the IMI supports collaborative research projects and builds networks of industrial and academic experts to boost pharmaceutical innovation and this site displays the partner searches which include SMEs, large organisations and Universities.

■ **ENV-NCP-Together:** Environment NCP Network

■ **C-Energy+:** Energy NCP Network

**Enterprise Europe Network Cooperation Opportunities Database:** this site publishes an extensive number of innovation and technology profiles from international companies and research organisations to help identify suitable partners for bilateral business, innovation and technology cooperation.

### Examples of LinkedIn groups

Several LinkedIn groups are dedicated to Horizon 2020 and could be useful to look for partners. Please note that the following list is not exhaustive and given for information purposes only. The groups are not managed by the “European Commission”.

## HORIZON 2020

- “HORIZON 2020” Framework Programme for Research & Innovation (+- 140,000 members)
- Horizon 2020, Official Framework Programme for Research and Innovation Group (+- 80,000 members)
- “Horizon 2020 ICT” Research and Innovation in ICT, Collaborative R&D Projects & Partner Search (+- 12,000 members)
- Horizon 2020 Information and Communication Technologies: Industrial Leadership (+- 7,500 members)
- Find a Horizon 2020 Partner (+- 4,000 members)
- Horizon 2020 - EU Projects Partner Search (+- 3,300 members)
- Horizon 2020 ICT Partner Search (+- 450 members)
- Partner Search Horizon 2020: Food security, sustainable agriculture, forestry and bio-economy (+- 300 members)
- Horizon 2020 Partner Finder (+- 550 members)

## More information

- Learn more about Horizon 2020: <http://ec.europa.eu/horizon2020>
- Participant Portal: <http://ec.europa.eu/research/participants/portal/desktop/en/home.html>
- Register as an expert: <http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>
- Online help desk: <http://ec.europa.eu/research/enquiries>
- Delegation of the European Union to Egypt: [http://eeas.europa.eu/delegations/egypt/index\\_en.htm](http://eeas.europa.eu/delegations/egypt/index_en.htm)

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This practical guide presents a simplified summary of the rules and other features of Horizon 2020 targeted at Egyptian stakeholders. It offers practical guidance on questions regarding the participation of Egyptian research and innovation stakeholders in Horizon 2020 and tries to give some answers to pertinent questions of newly interested researchers and innovators. It also encourages those with experience in former Framework Programmes to explore the many novel opportunities provided by the new EU Framework Programme for Research and Innovation - "Horizon 2020".

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