



#InvestEUresearch

Horizon 2020 Work Programme for Research & Innovation 2018-2020

Horizon H2020 – Open to the world

Name:

Function:

Research and
Innovation

Overview

- 1 Horizon 2020 – Open to the World**
- 2 Funding of international partners**
- 3 Participation of Algeria in Horizon 2020 - State of Play**
- 4 Opportunities for researchers and entities from Algeria in the upcoming calls under Horizon 2020**
- 5 Key messages - final Q&A**

1. Warm-up session

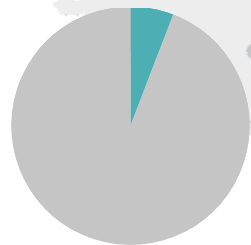
- Do you have any experiences in or knowledge about Horizon 2020?
- Why do you want to do research with European partners or in a European context?



2. Horizon 2020 – Open to the World

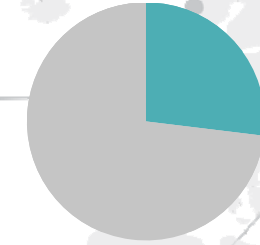


Did you know? The European Union: 500 million people – 28 countries - one single market

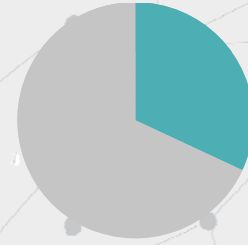


6% of the World's population

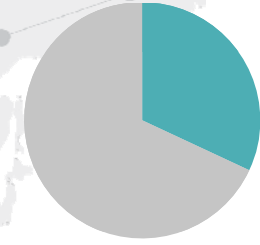
20% of world expenditure on research



27% of world scientific publications



32% of high-impact publications



32% of patent applications

Some of the best universities in the world

Some of the most innovative companies in the world

Building a society and economy on knowledge and innovation

What is Horizon 2020?

- The EU Framework Programme for **Research & Innovation**
- **Biggest multinational** programme of its kind with a budget of almost € 80 billion
- **Horizon 2020 is open to the world!** Your access to European research and innovation
- Horizon 2020 welcomes **researchers & institutions**, public or private, **from all over the world**
- **Broad scope:** R&I grants, loans, top-down focus on SCs, bottom-up frontier research, cross-border, cross-sectoral, interdisciplinary collaboration, mobility

Key figures

- 126000 eligible proposals/14000 contracts signed/ 52% are newcomers (from 130 countries)
- Main beneficiaries: 64% Research organisations/27.7% private sector (23% SMEs)/7.3% Public authorities
- 92% of the budget to EU-28
- 75% of the budget to collaborative R&I projects/25% to single beneficiaries to support excellence science

European Union Member States and Countries Associated to Horizon 2020

 **EU Member States (28)**

 **Associated Countries (16)**

Albania
Armenia
Bosnia & Herzegovina
Faroe Islands
Georgia
Iceland
Israel
the Former Yugoslav Republic of Macedonia
Republic of Moldova
Montenegro
Norway
Serbia
Tunisia
Turkey
Ukraine
Switzerland



 European
Commission

Why should you participate in Horizon 2020?

1

Ambitious research and innovation projects

4

Mobility to Europe

5

Access to new networks and alliances

2

Access to world class research infrastructures

6

New business opportunities and visibility of your research

3

Tackle global challenges together with excellent European and International scientists



7

Research funding



More good reasons for participation!

- H2020 responds to emerging needs such as Ebola, Zika, migration
- 17 Nobel prizes winners supported before or after award
- Contribution to key discoveries: exoplanets, Higgs boson, gravitational waves
- Access to EU research infrastructures: 365 available and accessed by 35000 researchers
- 340000 researchers supported- 27000 MSCA
- Produced knowledge leading to scientific breakthrough
- 4000 peer reviewed publications (cited twice world average) 2/3 Open Access
- Creation of scientific collaboration networks: 1 in 5 publications academia/private sector
- Publications with Third Country author cited more than 3 times world average
- Interdisciplinary publications cited more than 78% world average

Some key figures for the private sector

- Networks between business and between business and research
- 5700 companies accessed risk finance to carry out innovative projects
- 88 SMEs supported with the SME instrument
- H2020 generated:
 - ✓ 153 patent applications
 - ✓ 24 trademarks awarded
- H2020 supported development and deployment of innovative solutions:
 - ✓ 229 prototypes-801 testing activities-81 clinical trials
- H2020 generated innovation outputs:
 - ✓ 563 firms (56% SMEs) introduced innovations new to the market
 - ✓ 471 new to the company
 - ✓ 70% SMEs aim at new to the market innovations

Every € invested in H2020 brings an estimated GDP increase of 6-8.5 €

Why is international research cooperation important to the EU?

1

Access to markets



4

Higher global profile

2

Access to knowledge

3

Attracting talent and investment

5

Better research and exploitation



Key challenges

- ❖ Underfunding: oversubscription → Waste of applicant resources
- ❖ Barriers to demand-driven innovation
- ❖ Better outreach to civil society to involve them in agenda setting and co-creation
- ❖ Intensify international cooperation



3. Funding of international partners



Eligibility for Funding – General Rules

Automatically funded:

- Member States
- Associated Countries
- **Countries listed in Annex 1 of the Work Programme**



Algeria

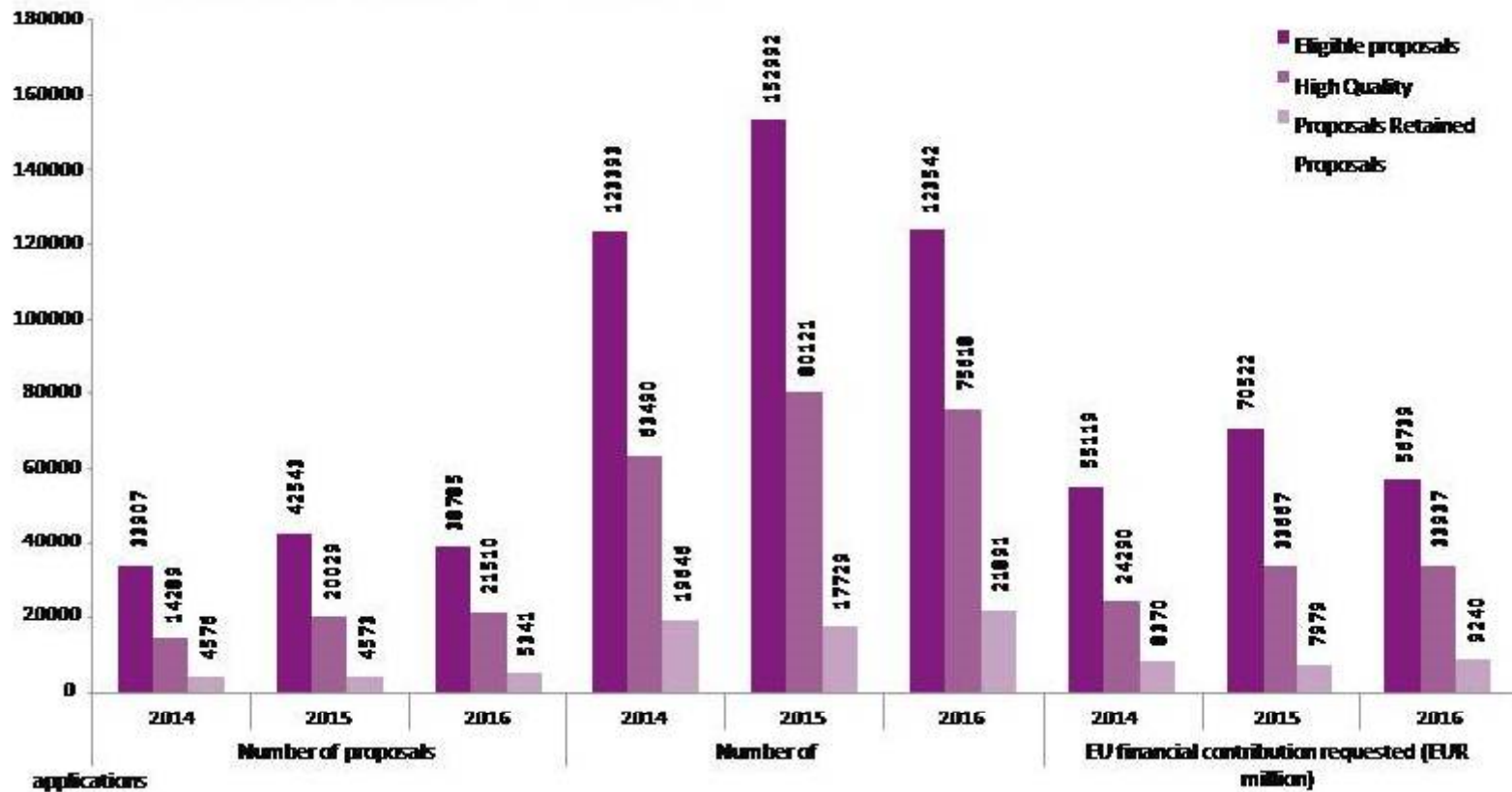
Other Partner Countries are funded when:

- Agreement exists between 2 funding bodies
- Provision made in the call text
- Commission deems participation essential

4. Algeria in Horizon 2020 - State of Play and Future Opportunities



FIGURE 2. Overview of eligible proposals submitted



European Commission

Algeria in Horizon 2020 – Statistics (Record date: January 2018)

Projects passed: 9

Eligible proposals: 69

Coordinators: 0

EC contribution (in total): 637,5 thousand Euro

EC contribution (average/project): 70,83 thousand Euro

Algeria in Horizon 2020 – Number of projects in most relevant programme areas

Excellence Science 5

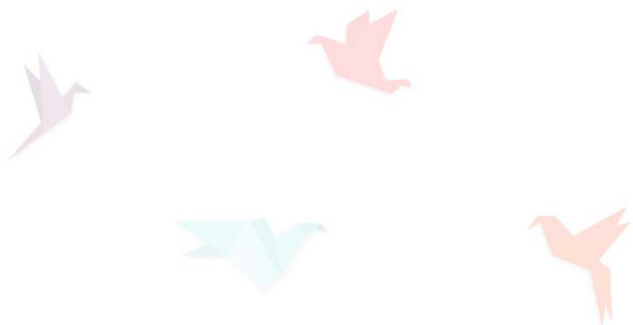
Marie Skłodowska-Curie Actions 5

- STUSOCSTA/IF
- LEISHIELD-MATI/RISE
- OLIVE-NET/RISE
- EXANDAS/RISE
- GHANA/RISE

Societal Challenges 4

1. Food Security (SC2) 2
2. Europe in a changing world (SC6) 2

- LEAP-AGRI/ERANET (SC2)
- ODYSSEA/RIA (SC2)
- 5TOI_4EWAS /CSA (SC6)
- RINEA/CSA (SC6)



Algeria in Horizon 2020 – Most active organisations

H2020 participations	Organisation, Location	Type
2	MINISTERE DE L'ENSEIGNEMENT SUPERIEUR ET DE LA RECHERCHE SCIENTIFIQUE	Public organisation
1	MINISTERE DE L'ENSEIGNEMENT SUPERIEUR ET DE LA RECHERCHE SCIENTIFIQUE	Private for profit
2	INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE D ALGERIE	Research Organisation
2	AGENCE NATIONALE DE VALORISATION DES RESULTATS DE LA RECHERCHE ET DU DEVELOPPEMENT TECHNOLOGIQUE	Public organisation
1	CENTRE DE RECHERCHE SCIENTIFIQUE ET TECHNIQUE EN ANALYSES PHYSICO-CHIMIQUES	Research Organisation
1	INSTITUT PASTEUR D ALGERIE E.P.I.C.	Public organisation
1	UNIVERSITE D ORAN	Higher or secondary education establishment
1	UNIVERSITE D'ALGER 2	Higher or secondary education establishment

4. Opportunities for researchers and entities from Algeria in the upcoming calls under Horizon 2020



Horizon 2020 covers three priority areas:

Industry driven:
Strategic
investments in key
technologies

2- Industrial
leadership

1- Excellent
science

3- Societal
challenges

Researcher driven:
The foundation of
tomorrow's technologies,
jobs and wellbeing

Society driven:
Tackling the great
challenges of our time
of citizens and society

How can you participate in Horizon 2020?

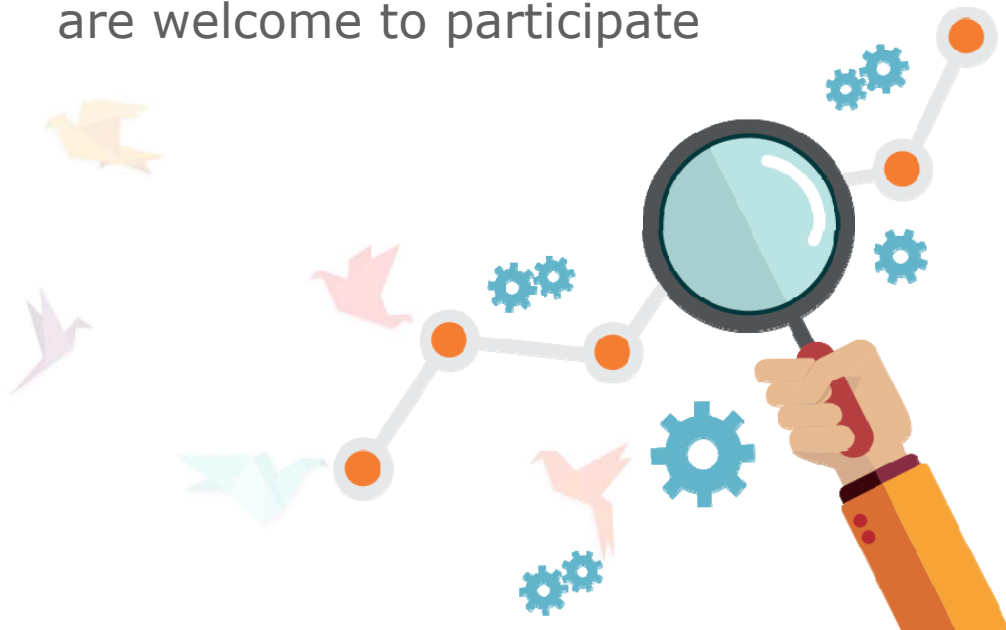
There are two general ways to participate:

- **Participation of individual researchers**

Researchers of all nationalities are welcome to participate

- **Collaborative projects**

Together with at least 3 legal entities from 3 different countries of the EU or from Countries Associated to Horizon 2020

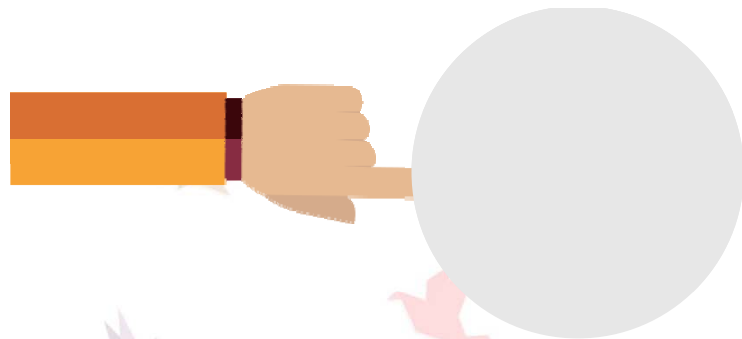


Where in Horizon 2020 can you find options for individual research?

- **The European Research Council (ERC)**
=excellent research
- **Marie Skłodowska-Curie Actions (MSCA)**
= mobility of researchers and technical staff



European Research Council



These opportunities are for researchers who want to work in Europe.



How to participate in a collaborative project?

- As a legal entity from Algeria you may take part in collaborative projects of Horizon 2020
- Remember! All collaborative-type of proposals must meet certain minimum conditions:
3 participants from different EU member states or associated countries



International participation is targeted by specific programme elements

- Specific topics in calls for proposals may:
 - indicate that **participation of international partners is encouraged**
 - indicate that **participation of partners from a certain country or region is encouraged or even mandatory**
- Coordinated calls exist, used for specific actions

More information on funding opportunities in selected programme parts will be provided later in the programme

6. Key messages - final Q&A



Key message for Algerian researchers and legal entities

- Horizon 2020 is the largest research and innovation programme in the world.
- Algerian nationals or institutions are eligible to take part in Horizon 2020, as individual researchers or in collaborative projects.
- Participants from Country automatically receive funding from the EU
- Participation in Horizon 2020 projects offers exciting opportunities to extend your research field, your network and your career options.
- International cooperation is encouraged





Thank you!

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www.ec.europa.eu/research

Participant Portal

<http://ec.europa.eu/research/participants/portal/>

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