

# HORIZON 2020

An opportunity for international collaboration



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science  
& technology

Department:  
Science and Technology  
REPUBLIC OF SOUTH AFRICA



# What is Horizon 2020?

**The new European Union programme for research and innovation for 2014-2020 (7 years) – € 79 billion**

**Challenge based**

**Strong focus on SMEs**

**Major simplification compared to FP7**

**Open to the world**





# What Horizon 2020 is not:

- **It is not a development aid programme**
- **It is not a bilateral cooperation programme**

*It is a programme focussed on European needs and global challenges, open to international cooperation.*





# Three priorities





# H2020 priorities

## Excellent science

- European Research Council (ERC): Frontier research by the best individual teams
- Future and Emerging Technologies: Collaborative research to open new fields of innovation
- Marie Skłodowska-Curie actions (MSCA): Opportunities for training and career development:
- Research infrastructures(including e-infrastructure): Ensuring access to world-class facilities

## Industrial leadership

- Leadership in enabling and industrial technologies (LEITs): ICT, nanotech, materials, biotech, manufacturing, space:
- Access to risk finance: Leveraging private finance and venture capital for research and innovation
- Innovation in SMEs: Fostering all forms of innovation in all types of SMEs

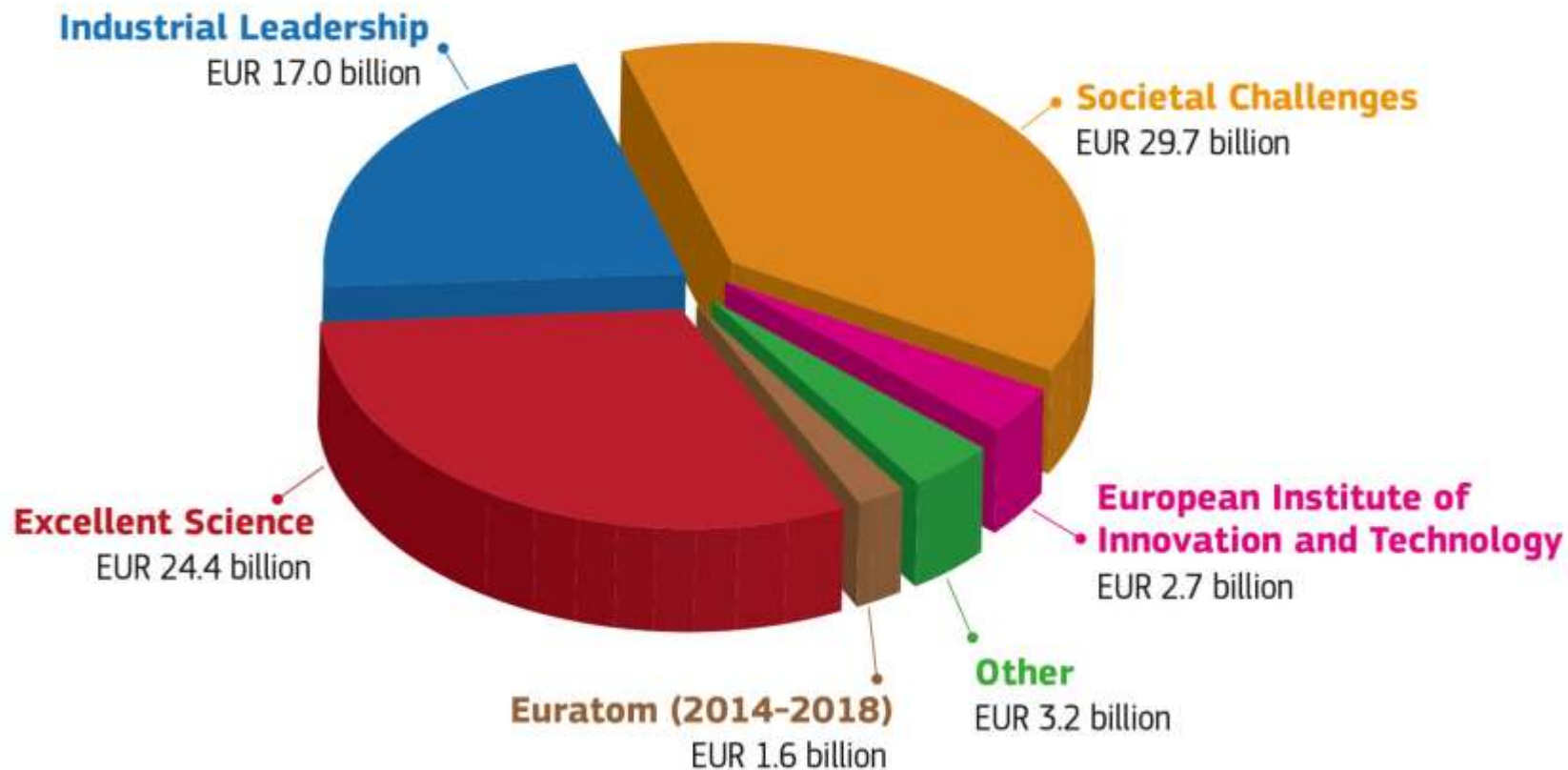
## Societal challenges

- Inclusive and reflective societies
- Science with and for society
- Spreading excellence and widening participation



# H2020 budget

## HORIZON 2020 BUDGET (in current prices)





# How to participate in H2020



**Calls for proposals**

**Minimum of  
3 European  
partners from  
3 different  
EU MS or AC**

**Work  
Programme  
run for a 2  
year period**

**Funding for  
all calls**



## **Basic principles** for collaborative research projects (calls proposals, evaluations, funding...)

- **Evaluation of proposals by panels of independent experts**
- **Criteria: Excellence – Impact – Quality & Efficiency**
- **African participants are fully funded** (same as European partners)
- **100% funding** for research costs





# Research Areas

1. Space
2. Secure, clean and efficient energy
3. Smart, green and integrated transport
4. Secure societies
5. ICT
6. Leadership in enabling and industrial technologies / nanotechnology, materials and production technology
7. Food security, sustainable agriculture, marine and maritime research, and bio-economy
8. Euratom (for nuclear energy research, no funding for non-EU countries)
9. Research Infrastructure
10. Health, demographic change and well-being
11. Climate action, resource efficiency and raw materials
12. Innovative, inclusive and reflective societies and
13. Science with and for societies



# MARIE SKŁODOWSKA CURIE ACTIONS (MSCA)

FP7

H2020

ITN →

Action 1 **ITN**  
Early-stage  
Researchers

## Innovative Training Networks

Support for doctoral and early-stage training  
**European Training Networks, European Industrial Doctorates, European Joint Doctorates**

IEF  
IOF  
IIF  
CIG

Action 2 **IF**  
Experienced  
Researchers

## Individual Fellowships

Support for experienced researchers undertaking international and inter-sector mobility: **European Fellowships** and **Global Fellowships**, Dedicated support for **career restart** and **reintegration**

IAPP  
IRSES

Action 3 **RISE**  
Exchange of  
Staff

## Research and Innovation Staff Exchange

International and inter-sector cooperation through the exchange of staff

COFUND →

Action 4  
**COFUND**

## Co-funding of regional, national and international programme

**Doctoral and fellowship programmes**





# European Research Council (ERC)

- Programme to host researchers in EU Member and Associated States
- For early-stage and advanced researchers in all scientific fields
- Completely bottom-up – no theme, application submitted by European host
- Grantee can spend some time (at least 50% in Europe) and keep affiliation with home institute
- Grantee can move within European institution with the grant
- Evaluations done by multidisciplinary panels except for specific fields
- Supported by the independent ERC Executive Agency
- SA ERC National Contact Point (NRF), ERC-SA agreement to be concluded soon

## Types of grants:

- start up = 2-7 yrs after PHD (max of €1.5M for 5 yrs)
- consolidator grants = 7-12 years after PHD (max of €2.2M for 5 yrs)
- advanced = 10 yrs after PHD (max of €3M for 5 yrs)
- proof of concept = taking research close to market, for grant holders (maximum of 150 000)



# Practical aspects of Horizon 2020

- Calls for proposals 2016-2017 published in 14 Oct. 2015
- Deadlines for submission at various dates in 2016 & 2017
- Analyse call texts asap - available on Participant Portal:
  - <http://ec.europa.eu/research/participants/portal>
- Identify European partners and propose collaboration
- Leverage existing collaborations
- Seek support from National Contact Points:

**BE PROACTIVE**

# All information published on *Participant Portal*

The screenshot shows the top section of the Participant Portal website. At the top left is the European Commission logo. The main header reads "RESEARCH & INNOVATION Participant Portal". Below this is a navigation menu with links for "HOME", "FUNDING OPPORTUNITIES", "HOW TO PARTICIPATE", "EXPERTS", and "SUPPORT". On the right side of the menu are "LOGIN" and "REGISTER" buttons. A large banner for "Horizon 2020 Funding" is featured, with the text "Starting from 1/1/2014". Below the banner, a paragraph states: "On this site you can find and secure **funding** for research & innovation projects under the following EU programmes:". This is followed by a bulleted list: "• 2014-2020 Horizon 2020 - research and innovation framework programme" and "• 2007-2013 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)". The page is divided into two columns for user types. The "Non-registered users" column lists: "• search for funding", "• read the funding guide & download the legal documents", "• check if an organisation is already registered", and "• contact our support services or check our FAQs". The "Registered users" column lists: "• submit your proposal", "• sign the grant", and "• manage your project throughout its lifecycle". At the bottom, there is a row of six icons with corresponding labels: "WHAT'S NEW?", "FUNDING OPPORTUNITIES", "HOW TO PARTICIPATE", "WORK AS AN EXPERT", "MY PERSONAL AREA", and "INFORMATION AND SUPPORT".

European Commission

RESEARCH & INNOVATION  
Participant Portal

European Commission > Research & Innovation > Participant Portal > Home

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT →

LOGIN REGISTER

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- submit your proposal
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WHAT'S NEW? FUNDING OPPORTUNITIES HOW TO PARTICIPATE WORK AS AN EXPERT MY PERSONAL AREA INFORMATION AND SUPPORT



# **Targeted Calls for Africa and Developing Countries WP 2016-17**

# Targeted Calls for Africa and Developing Countries WP 2016-17

CALL IDENTIFIER	TOPIC	INDICATIVE BUDGET (€ MILLION)	CALL DEADLINES (OPENING DATE – DEADLINE)	SPECIFIC CHALLENGE - SCOPE	TYPE OF ACTION
<b>Research Infrastructures</b>					
<a href="#">INFRASUPP-01-2016</a>	Policy and international cooperation measures for research infrastructures	1.5-2	08-12-2015 30-03-2016 17:00:00	Support to <b>trans-disciplinary bilateral cooperation on research infrastructures with Africa.</b>	CSA
<a href="#">GÉANT Partnership projects</a>	b) Trans-Atlantic submarine cable	5		The consortium will be invited to submit proposals for two Specific Grant Agreements (SGA) addressing objectives defined in the FPA and action plan.	Specific Grant Agreement

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CALL IDENTIFIER	TOPIC	INDICATIVE BUDGET (€ MILLION)	CALL DEADLINES (OPENING DATE – DEADLINE)	SPECIFIC CHALLENGE - SCOPE	TYPE OF ACTION
<b>5i. Information Technology and Communications (ICT)</b>					
<a href="#">ICT-39-2016-2017</a>	International partnership building in low and middle income countries  a. Innovations Actions  b. Coordination and Support Actions for Africa	a. 13  b. 0.80	a. IA:  <b>08-12-2016</b>  <b>25-04-2017</b>  b. CSA:  <b>20-10-2015</b>  <b>19-01-2016</b>  17:00:00	To reinforce cooperation and strategic partnership with selected countries and regions in areas of mutual interest.  Targeted countries: Low and middle income countries in <b>sub-Saharan Africa</b> and ASEAN countries	a. IA  b. CSA



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CALL IDENTIFIER	TOPIC	INDICATIVE BUDGET (€ MILLION)	CALL DEADLINES (OPENING DATE – DEADLINE)	SPECIFIC CHALLENGE - SCOPE	TYPE OF ACTION
<b>8. Health, Demographic Change and Wellbeing</b>					
<a href="#">INFRASUPP-01-2016</a>	Policy and international cooperation measures for research infrastructures	1.5-2	08-12-2015 30-03-2016 17:00:00	Support to <b>trans-disciplinary bilateral cooperation on research infrastructures with Africa.</b>	CSA
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- **TARGETED CALLS FOR AFRICA AND DEVELOPING COUNTRIES IN WP 2016-17.docx**

# Take home message!

Important  
Message



**Create and maintain the  
networks!**



**Email: [contact@esastap.org.za](mailto:contact@esastap.org.za)**

**Tel: +27 12 843 6860**

**Applications and more information on opportunities on:**

**[www.esastap.org.za](http://www.esastap.org.za)**

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

**<http://erc.europa.eu/>**

- Draft 2016/17 WPs
- <http://www.eurida-research.com/horizon-2020-news/news-18/index.html>

Current calls accessible : **[ec.europa.eu/research/participants/portal](http://ec.europa.eu/research/participants/portal)**





**Dankie**

**Enkosi**

**Ha khensa**

**Re a leboga**

**Ro livhuwa**

**Siyabonga**

**Siyathokoza**

**Thank you**