

# HORIZON 2020



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# Presentation Overview

- Horizon 2020
- DST support instruments





# What is Horizon 2020?

**The new European Union programme for research and innovation for 2014-2020 – € 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.*





# 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**



# 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

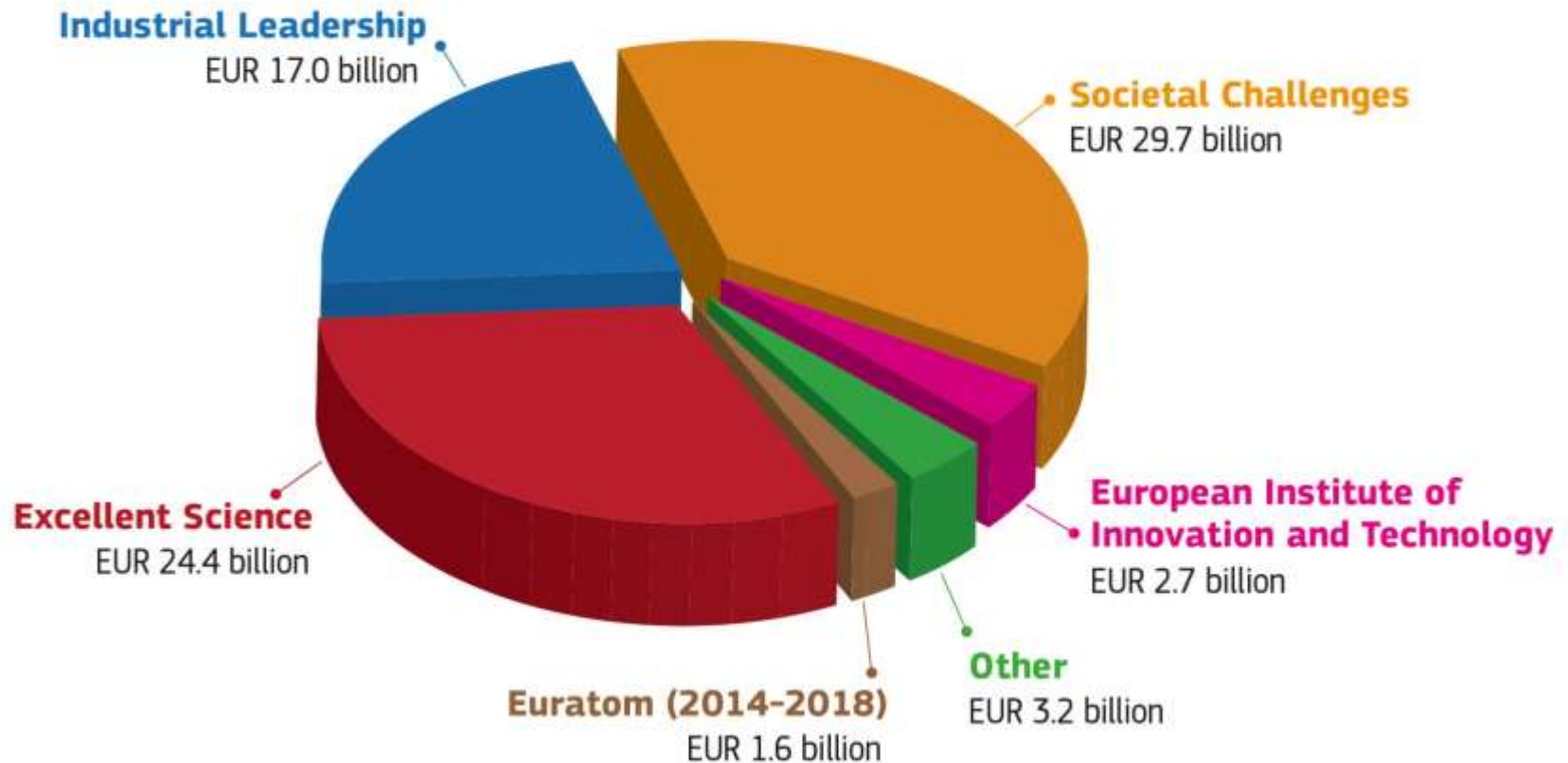
## Societal challenges

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



# H2020 budget

## HORIZON 2020 BUDGET (in current prices)





# 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





# European Research Council (ERC)

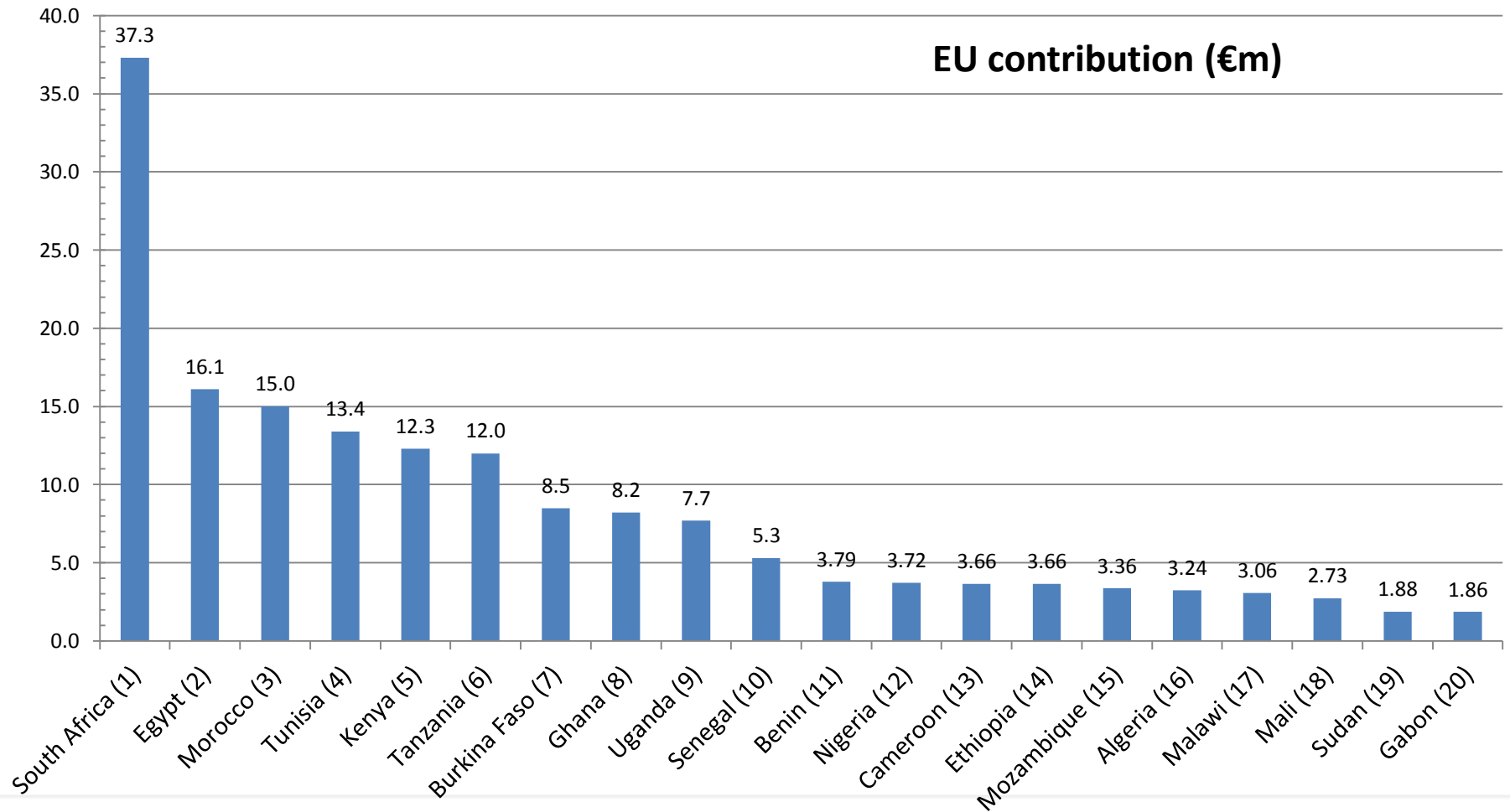
- Programme to host researchers in EU Member and Associated States
- For early-stage and advanced researchers in all scientific fields
- Completely bottom-up – no theme, application submitted by European host
- Grantee can spend some time (at least 50% in Europe) and keep affiliation with home institute
- 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)



# African Participation in FP7





# SA support instruments

- Awareness raising and information
- Advisory and support mechanisms (National Contact Point, DST office in Brussels, and ESASTAP Plus project)
- NCPs (call analysis)
- Financial support
  - Seed and co-investment
- Partner-matching service (DST, ESASTAP, NCPs and Brussels office)
- Twinning activities
  - Exchange of information, ideas, and best practices between researchers
  - Events/training on IP, technology transfer / exploitation

*“All support instrument are for SA and non-SA researchers based in SA institutions”*





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**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)**





**Merci**

**Dankie**

**Enkosi**

**Ha khensa**

**Re a leboga**

**Ro livhuwa**

**Siyabonga**

**Siyathokoza**