



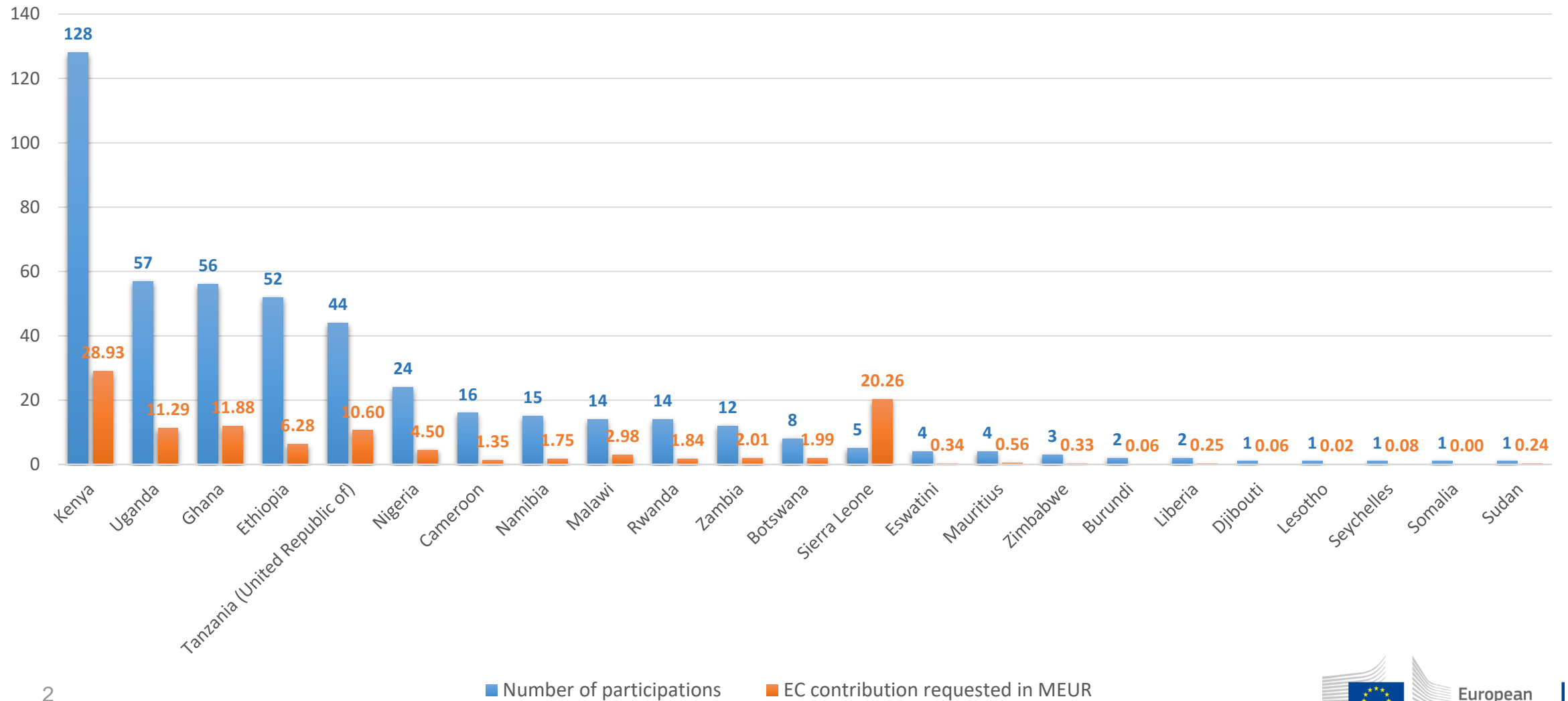
# Participation of African countries\* in Horizon 2020

\*With English as one of the official languages

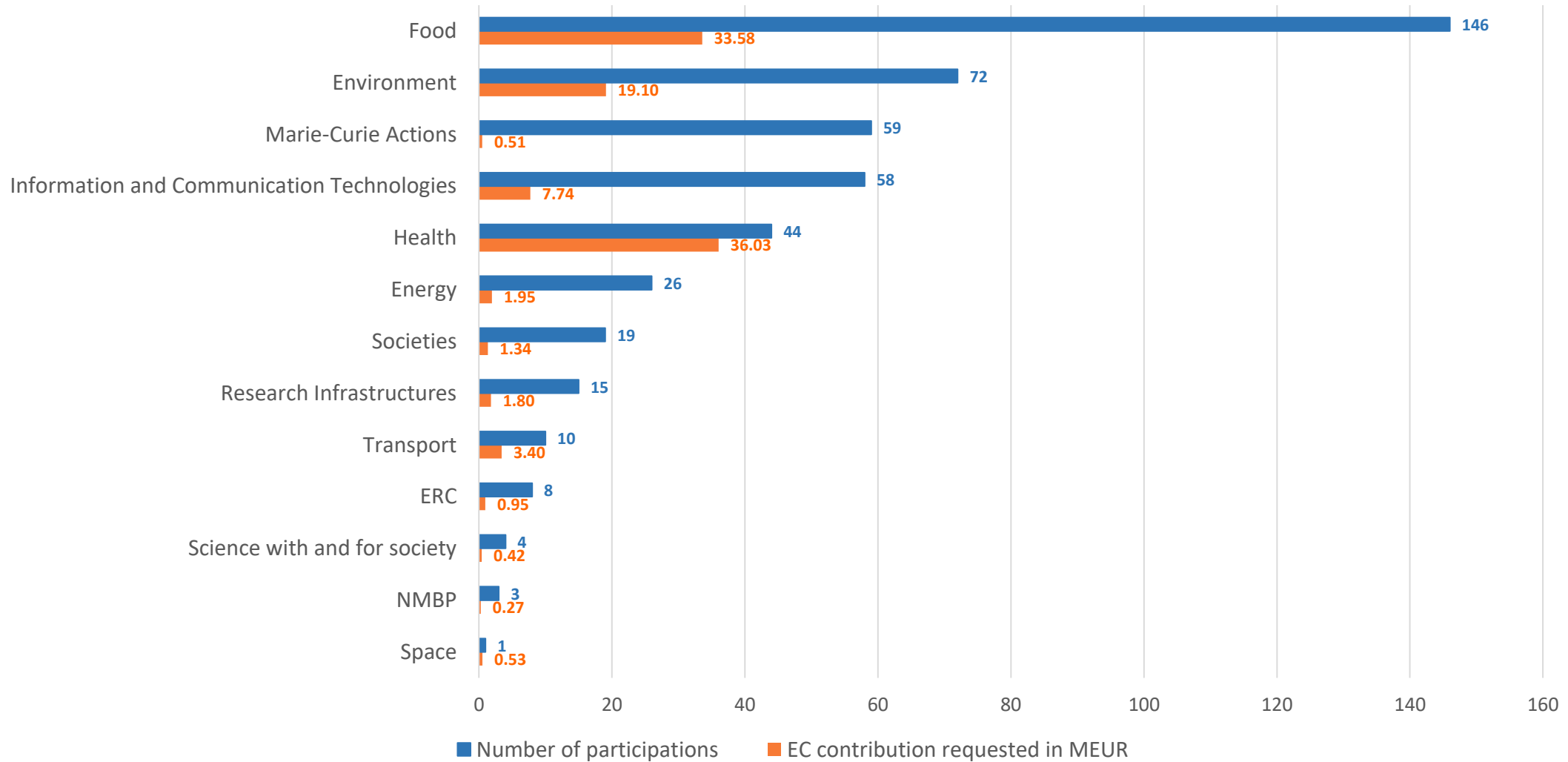


15 July 2021

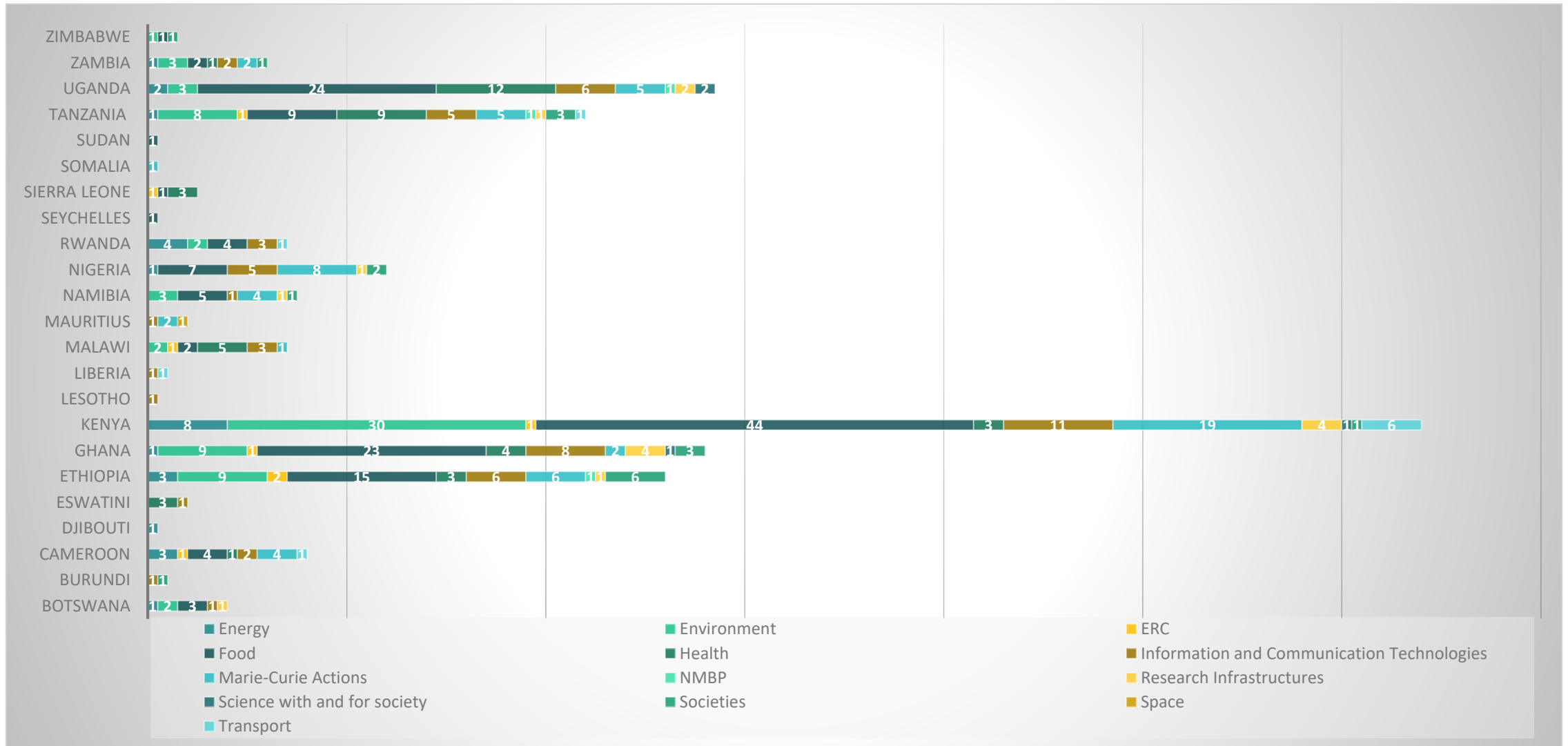
# Participation in Horizon 2020 (H2020)



# H2020: Overall participation by thematic areas



# H2020: Countries' participations by thematic areas





# HORIZON EUROPE

THE EU  
RESEARCH &  
INNOVATION  
PROGRAMME 2021 – 27



# Overview

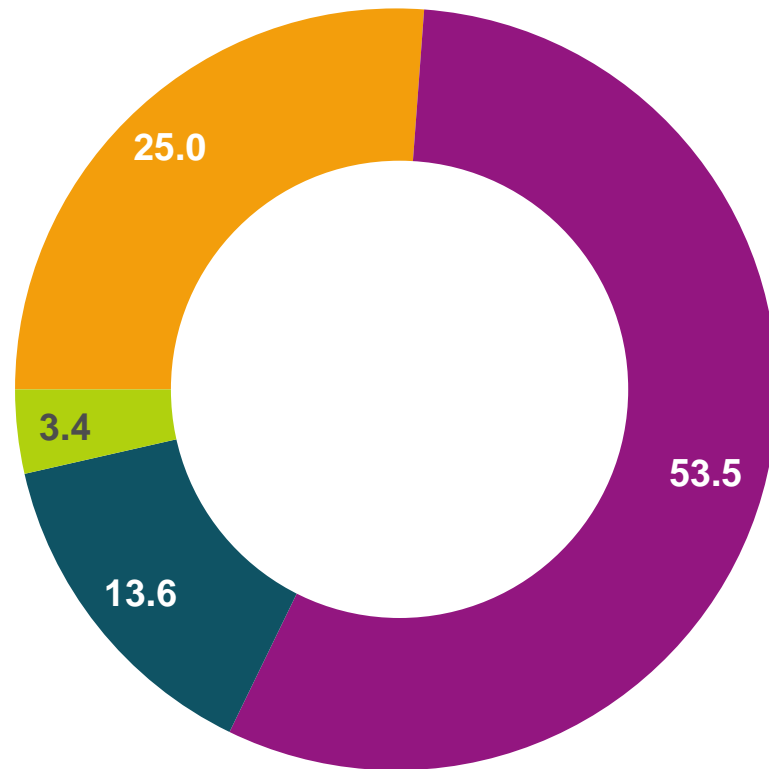
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- Horizon Europe
- Africa Initiative



# Horizon Europe Budget: €95.5 billion (2021-2027)

(including €5.4 billion from NGEU – Next Generation Europe – programme of EU for Recovery from COVID-19 crisis)



*€ billion in current prices*

- Excellent Science
- Global challenges and European ind. comp.
- Innovative Europe
- Widening Part and ERA

# HORIZON EUROPE

# EURATOM

**SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND**  
*Exclusive focus on defence research & development*

Research actions

Development actions

**SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT\***  
*Exclusive focus on civil applications*

**Pillar I  
EXCELLENT SCIENCE**

European Research Council

Marie Skłodowska-Curie

Research Infrastructures

**Pillar II  
GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS**

**Clusters**

- Health
- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & Space
- Climate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Joint Research Centre

**Pillar III  
INNOVATIVE EUROPE**

European Innovation Council

European Innovation Ecosystems

European Institute of Innovation & Technology\*

**WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA**

Widening participation & spreading excellence

Reforming & Enhancing the European R&I system

Fusion

Fission

Joint Research Center

\* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme





# International cooperation in Horizon Europe

## General openness of Horizon Europe to international participation

- Entities from all over the world can take part in Horizon Europe collaborative projects
- Researchers and innovators of any nationality can apply for grants

## Targeted international cooperation actions

- Actions flagged as being specifically relevant for international cooperation
- Targeted actions with key partners on strategic thematic areas
- Cooperation with Africa under the Horizon Europe 'Africa Initiative'



# Horizon Europe

## Africa Initiative

2021 – 2022

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# Africa Initiative

*In the first Work Programme of Horizon Europe  
2021-2022*



- Immediate outcome of the first ever **EU-AU R&I Ministerial** (July 2020), it will strengthen **long-term cooperation** in finding solutions to enhance **global public health, socio-economic development** and **recovery from the COVID-19 pandemic**.
- A total budget of **~350 MEUR** through **36 topics** under **calls for proposals** targeted at **EU-Africa R&I cooperation**, responding to **four joint policy priorities**:
  1. *Public Health* (40 MEUR) 
  2. *Green Transition* (215 MEUR) 
  3. *Innovation & Technology* (11 MEUR) 
  4. *Capacities for Science* (91.9 MEUR) 
- Adoption of **Horizon Europe Work Programme: 16 June 2021** (**EU funding & tenders' portal**).



# 1. Public Health



Calls	Year	Budget (MEUR)
1. Innovative approaches to enhance poverty-related diseases research in sub-Saharan Africa	2021	40

- **EDCTP 3** expected to launch calls for proposals **from 2022**, as part of: EU-Africa Global Public Health Partnership proposal
  - Evolution to a Public-Private Partnership
  - Proposed EU contribution: 800 MEUR, plus leverage of expected 400 MEUR from other sources



# 2. Green Transition



R&I areas:



Sustainable Energy



Food Security



Climate Change



Sustainable Agriculture

Mobility



Biodiversity



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# 2.1 Green Transition

Calls	Year	Budget (MEUR)
1. Development of high-resolution Earth system models for global and regional climate change projections	2022	20
2. AU-EU Water Energy Food Nexus	2021	5
3. Demonstration of innovative plug-and play solutions for system management and renewables storage in off-grid applications	2022	10
4. AU-EU Energy System Modelling	2022	5



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## 2.2 Green Transition



Calls	Year	Budget (MEUR)
5. New generation of full electric urban and peri-urban Bus Rapid Transit systems to strengthen climate-friendly mass transport (2ZERO)	2022	25
6. Stimulating Road Transport research and innovation dissemination and implementation in Europe and around the World	2022	2
7. Radical improvement of road safety in low and medium income countries in Africa	2021	8





## 2.3 Green Transition

Calls	Year	Budget (MEUR)
8. One Health approach for Food Nutrition Security and Sustainable Agriculture (FNSSA)	2021	18
9. Agro-ecological approaches in African agriculture systems	2022	28
10. AU-EU Combatting all forms of malnutrition	2022	11
11. African Food cities	2022	12
12. Expertise and training centre on rural innovation	2021	5
13. Socio-economic empowerment of the users of the sea	2021	6

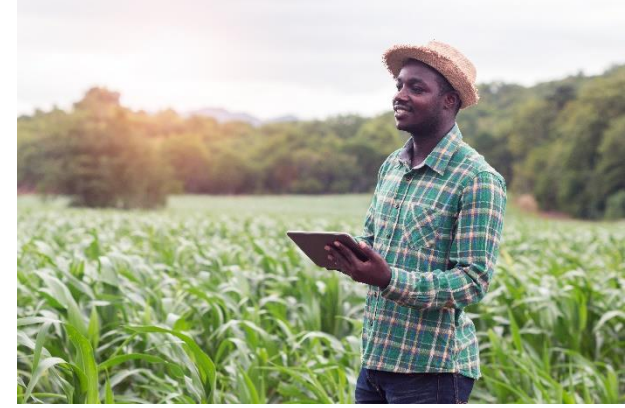




# 2.4 Green Transition



Calls	Year	Budget (MEUR)
14. Quantify impacts of the trade in raw and processed biomass on ecosystems, for offering new leverage points for biodiversity conservation, along supply chains, to reduce leakage effects	2021	10
15. Understanding the impacts of and the opportunities offered by digital transformation, new emerging technologies and social innovation with respect to biodiversity	2021	5
16. Support to processes triggered by IPBES and IPCC	2021	5
17. Network for nature: multi-stakeholder dialogue platform to promote nature-based solutions	2022	6
18. Assessing the nexus of extraction, production, consumption, trade and behaviour patterns and of climate change action on biodiversity in the context of transformative change	2022	12
19. Understanding the impacts of and the opportunities offered by digital transformation, new emerging technologies and social innovation on biodiversity	2021	5
20. Cooperation with the Convention on Biological Diversity	2022	5
21. What else is out there? Exploring the connection between biodiversity, ecosystems services, pandemics and epidemic risk	2021	12



# 3. Innovation & Technology



Calls	Year	Budget (MEUR)
1. Innowwide Bridging Facility	2022	1.5
2. Building EU-Africa partnerships on sustainable raw materials value chains (CSA)	2021	8
3. Strengthen the bilateral cooperation on research infrastructures with Africa: improving the knowledge base on climate change in Africa	2021	1.5





# 4. Capacities for science



Calls	Year	Budget (MEUR)
1. Global governance for a world in transition: Norms, institutions, actors	2022	9
2. Public policies and indicators for well-being and sustainable development	2022	9
3. Ensuring reliability and trust in quality of Research Ethics expertise in the context of new/emerging technologies	2021	4.5
4. Democratic politics in the EU's neighbourhood	2021	9.9
5. The challenges of research ethics and integrity in response to crisis: the coronavirus pandemic and beyond	2021	4.5
6. Decision-making processes of (aspiring) migrants	2022	9
7. Return and readmission of irregular migrants in the EU	2022	9
8. Gender and social, economic and cultural empowerment	2022	9
9. Improved impact forecasting and early warning systems supporting the rapid deployment of first responders in vulnerable areas	2022	10
10. Support for policy makers – Programme level collaboration between national R&I programmes	2021	10.5
11. Support for policy makers – Programme level collaboration between national R&I programmes	2022	7.5

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# Examples of successful EU-AU R&I Partnerships



## Public Health

- The **European and Developing Countries Clinical Trials Partnership (EDCTP)**, with joint investment of 1.4 BEUR and its efforts to gear research towards COVID-19 (e.g. clinical research networks). Currently approaching its third cycle of funding.



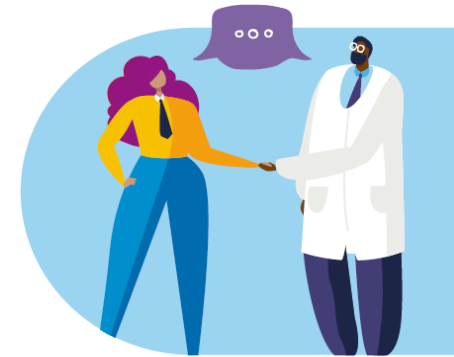
## Green Transition

- R&I Partnership on **Food Nutrition Security and Sustainable Agriculture (FNSSA)** channeled a joint investment of 381 MEUR on four priorities:
  - 1) Sustainable intensification;
  - 2) Agriculture and food systems for nutrition;
  - 3) Expansion and improvement of agricultural trade and markets;
  - 4) Cross-cutting topics.
- R&I Partnership on **Climate Change Sustainable Energy (CCSE)**, with an investment of 84 MEUR for climate services, renewable energy and energy efficiency which will support adaptation and mitigation efforts in various sectors for Africa and implementation of the Paris Agreement on Climate Change.



# Synergies with other EU-Africa Partnerships in R&I

- Clear synergies envisaged between **Horizon Europe – Africa Initiative** and existing or future programmes funded by the **Directorate-General for International Partnerships (DG INTPA)**, such as:
  - African Research Initiative for Scientific Excellence ([ARISE](#))
  - [ACP Innovation Fund](#)
  - [Neighbourhood, Development and International Cooperation Instrument \(NDICI\) – ‘Global Europe’](#) (2021-2027), aiming to support the EU’s external action with an overall budget of €79.5 billion
  - [Erasmus +](#)

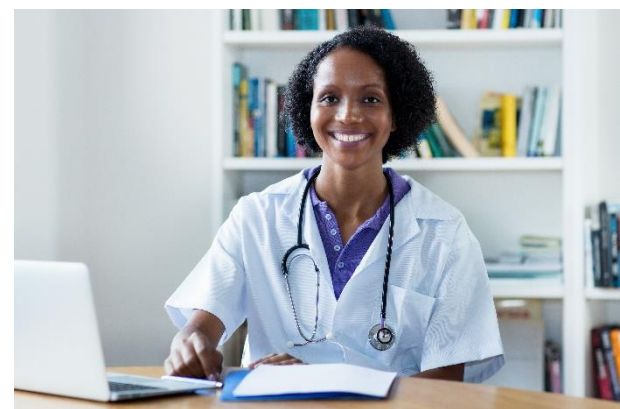




# Marie Skłodowska-Curie Actions (MSCA)

- The EU flagship programme for **researchers' mobility and training** through the development of excellent **doctoral programmes, collaborative research and fellowship schemes**, contribute to excellent research and a highly skilled research-based human capital.

See: <https://ec.europa.eu/research/mariecurieactions>



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# Towards a joint EU-AU Innovation Agenda

- To enhance the impact of R&I on socio-economic development and job creation, a joint **EU-AU Innovation Agenda** was proposed during the first EU-AU R&I Ministerial meeting of July 2020.
- This will come **in addition to the 'Africa Initiative'**, with the aim to translate R&I efforts into positive impacts on the ground, to yield **sustainable growth and jobs**, and to develop a long-term and sustainable operational **EU-AU R&I cooperation model**.
- Comprehensive 'innovation package' including **3 main pillars**:
  - a) Coordination and communication, outreach and networking across the EU and AU
  - b) Capacity-building and business creation
  - c) Provision of incubation and acceleration services, including financial support



# Upcoming event

- **Horizon Europe Regional sub-Saharan African Webinars:**
  - 16 July: [South Africa](#)



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# Follow us and keep up to date via:

- [EU-AU Cooperation in Research and Innovation](#)
- [Horizon Europe website](#)
- [Africa Initiative Factsheet](#)
- [International Cooperation website](#)
- [Union for the Mediterranean \(UfM\) Portal](#)
- [Horizon Europe Funding & Tenders' Portal](#)
- [National Contact Points \(NCPs\) Portal](#)
- [Coronavirus Global R&I Collaboration Portal](#)



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With Horizon Europe, we step up our ambition for a sustainable future. The programme will maximise its impact by strengthening our scientific and technological bases, boosting our innovation capacity, driving the green and digital transitions and supporting an inclusive recovery.

**Mariya Gabriel**

*Commissioner for Innovation, Research, Culture, Education & Youth*

”

“



AU–EU Cooperation in Research and Innovation has gained momentum. This is very encouraging in view of our Agenda 2063 and STISA 2024. Together, researchers and research institutions from both Africa and Europe will overcome the socio-economic development challenges including corona crisis and rebuild our economies.

**Prof Sarah Anyang Agbor**

*AU Commissioner for Human Resources, Science and Technology*

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# Thank you!

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<http://ec.europa.eu/horizon-europe>



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