

European Union funding programmes and networks



Presented by: **Toto Matshediso**
Deputy Director Strategic
Partnerships, DST
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science
& technology

Department:
Science and Technology
REPUBLIC OF SOUTH AFRICA



Presentation Overview

- ✓ SA-EU science and technology cooperation
- ✓ Why EU supports R&I
- ✓ Horizon 2020
- ✓ Marie Skłodowska Curie Actions (MSCA)
- ✓ European Research Council (ERC)
- ✓ DST Support instruments
- ✓ COST Network
- ✓ Eureka Network





Reflections on the SA-EU science and technology cooperation

- Bilateral cooperation with the individual European Member States
- How? Ensure understanding, create support instruments, and promote reciprocity of SA and Europe
- Increased awareness of EU competitive funding programmes and networks, and successful participation thereof
- Establishment of an effective SA National Contact Point (NCP) network
- Strong science and technology policy dialogue between SA-EU





Why EU supports R&I

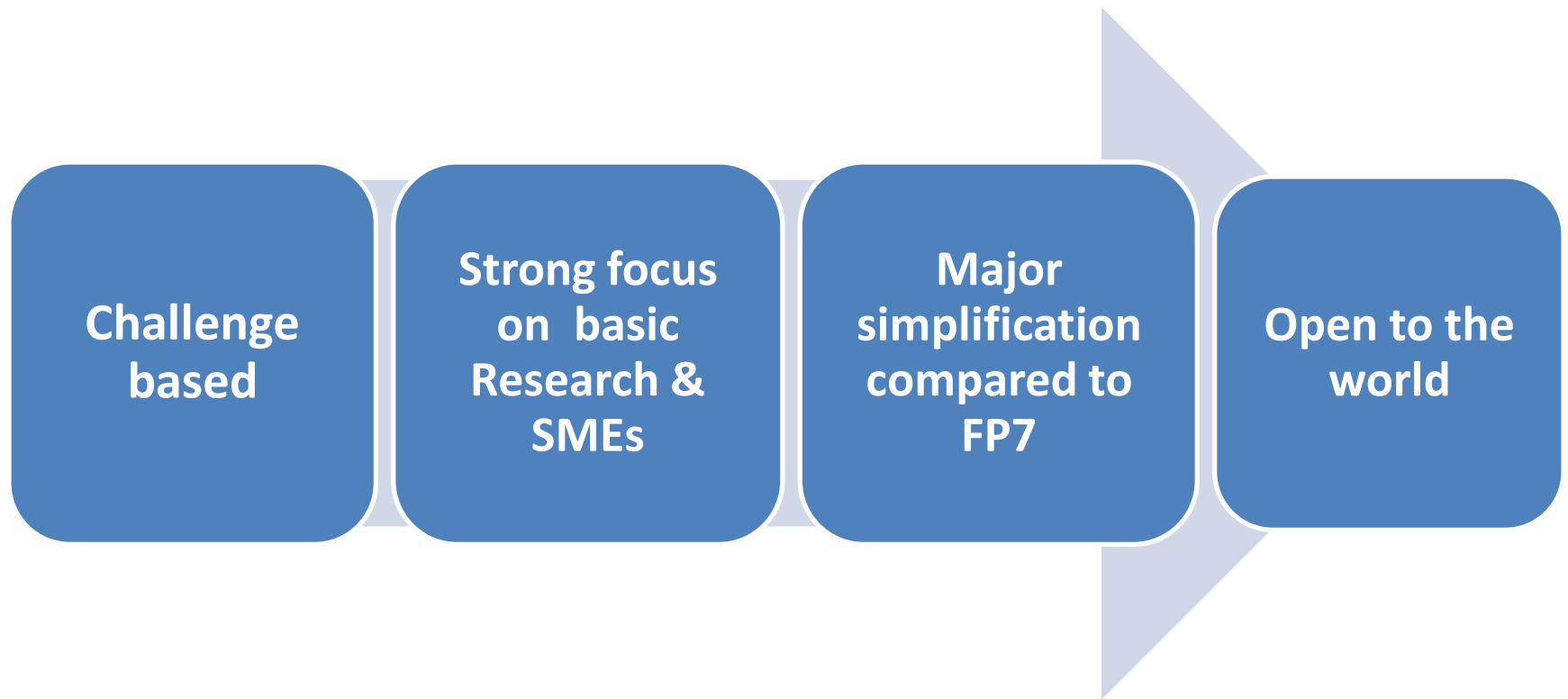
- **Investing in future growth and development**
- **Addressing people's concerns about their livelihoods, safety and environment**
- **Strengthening the EU's global position in research, innovation and technology**

**Supporting competitiveness & improving
quality of life**



What is Horizon 2020?

The new European Union programme for research and innovation for 2014-2020 – € 79 billion





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

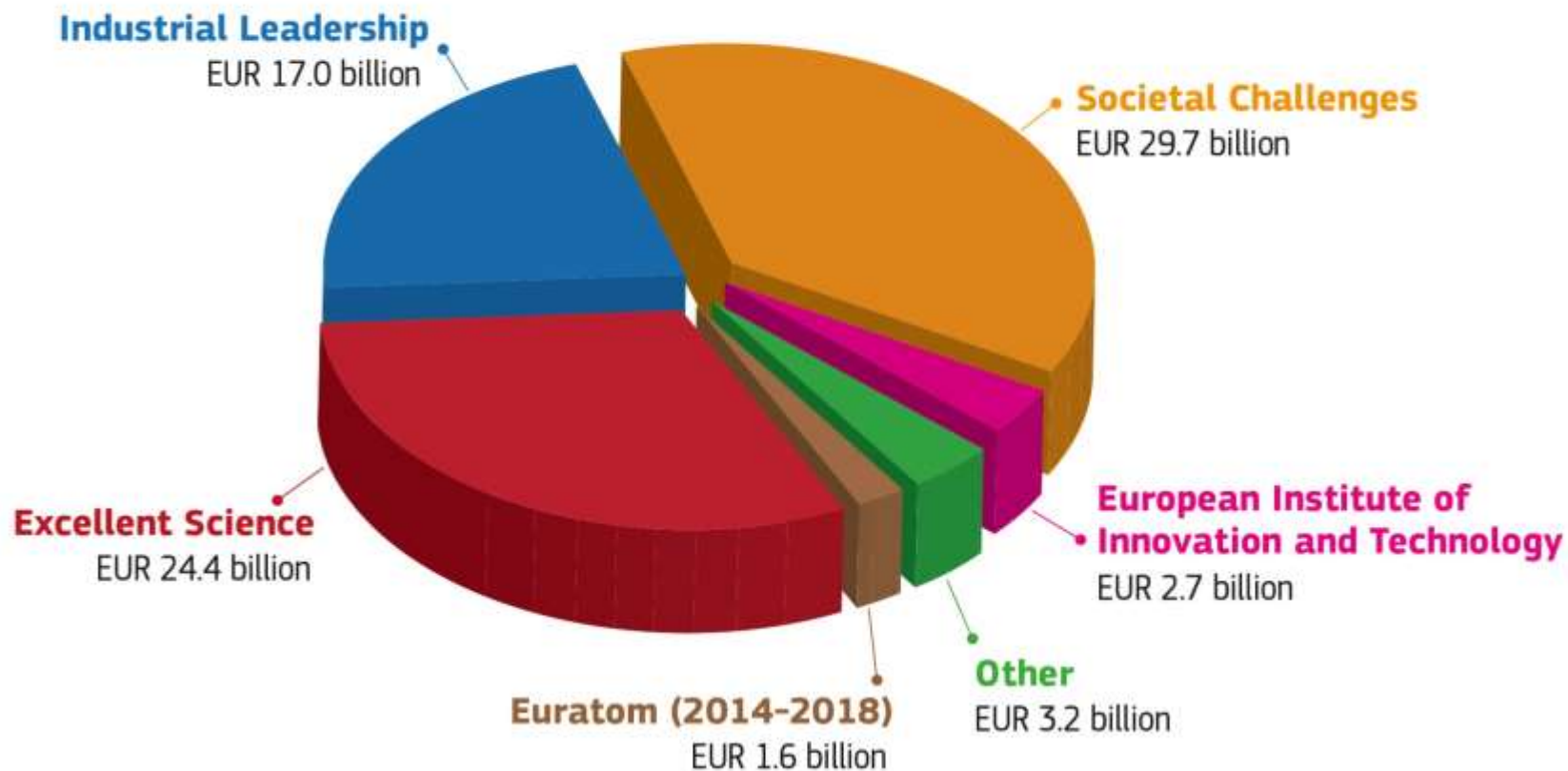
Societal challenges

- 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. Social Sciences (Innovative, inclusive and reflective societies; and science in societies)



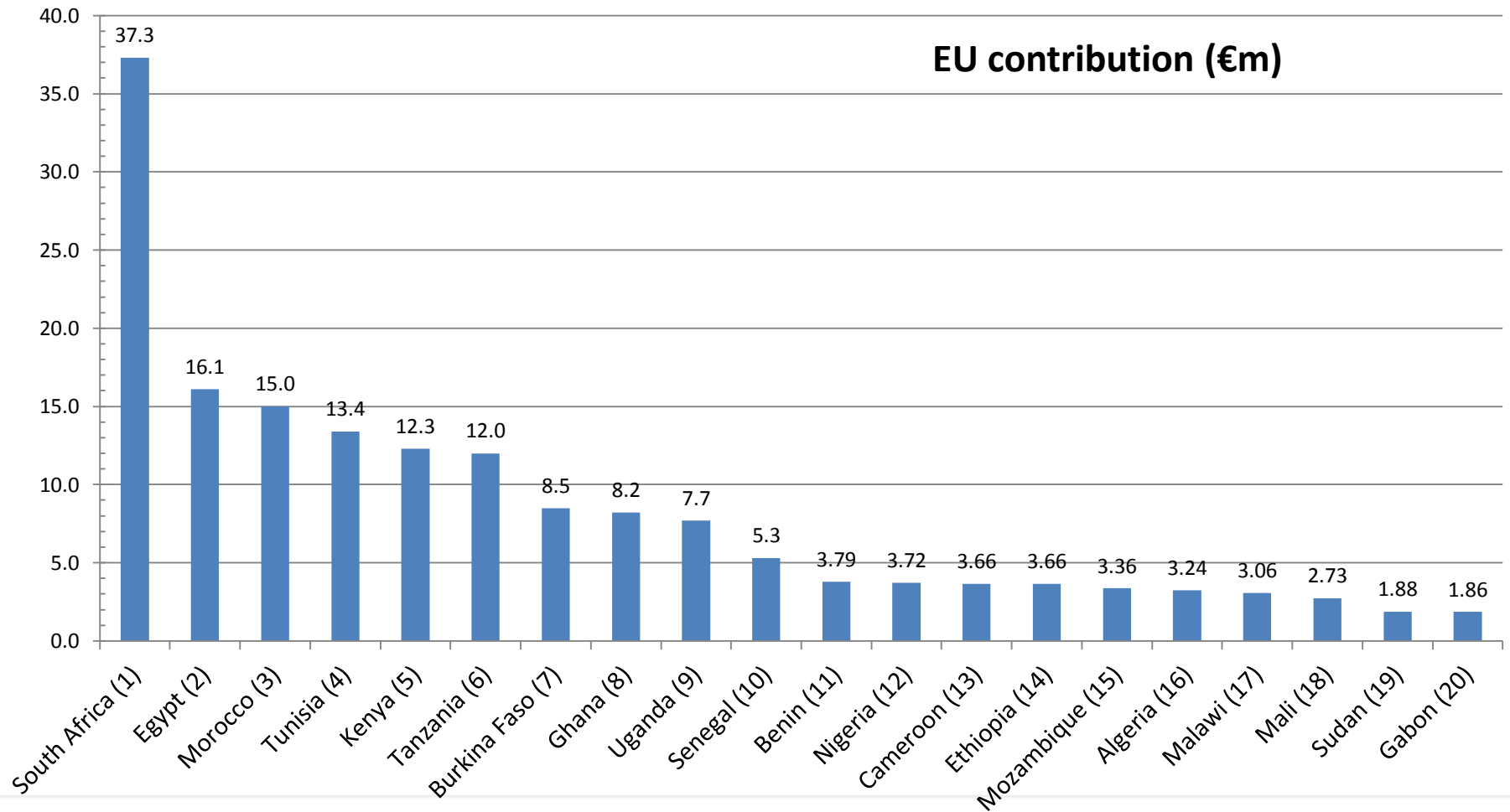


SA achievements in FP7

- 310 participations, €34.33 million, 68 institutions, (CSIR, DST, UCT, SU, UKZN and UP)
- Awareness of the EU funding programmes in SA
- Good partnership with the SA NSI, still to improve on private sector
- SA ranked number one in Africa
- Number 5 non-EU partner country
- Established funding and support instrument to support SA participants in the EU funding programmes
- Growth in the ICT, space, MCA research in the last few years (Traditional partner in the health, environment and KBBE)
- Increase SA participation also in other EU competitive funding programmes and networks



African Participation in FP7



MARIE SKŁODOWSKA CURIE ACTIONS (MSCA)

FP7

H2020





Innovative Training Networks (ITN)

- ✓ Dedicated to early-stage researchers
- ✓ Involving wide partnership of institutions from academic and non-academic sectors
- ✓ Combining scientific excellence with innovation-oriented approach
- ✓ Developing entrepreneurship and skills matching research labour market needs
- ✓ Enhancing employability of researchers
- ✓ Proposing innovative ways of doctoral training, such as industrial doctorates or joint doctorates



Individual Fellowships (IF)

- ✓ Opportunities for **international and inter-sector mobility** of **experienced researchers** to facilitate career moves
- ✓ Enhance competences and creative **potential of best researchers**, European and non-European willing to work in the EU
- ✓ Encompass **all types of mobility**: intra-European, incoming, outgoing, return and re-integration
- ✓ **Career Restart Panel** to resume a research career after a break
- ✓ **Reintegration Panel** to reintegrate researchers in Europe



Research and Innovation Staff Exchange (RISE)

- ✓ New type of exchange of staff action to stimulate **transfer of knowledge** and sharing of ideas
- ✓ Flexible inter-sector and international exchanges of **highly skilled research and innovation staff**
- ✓ Based on a **common research and innovation project**
- ✓ **Secondments** only, no recruitment foreseen
- ✓ Exchanges between institutions within Europe cover only **inter-sector** secondments
- ✓ Exchanges with institutions from **outside Europe** can be both inter-sector and within the same sector
- ✓ No support for secondments between institutions located outside Europe



RISE – Main features

- ✓ Duration of projects: max. 4 years
- ✓ Minimum eligibility condition: participants in **3 different countries** (at least 2 MS/AC)
- ✓ Partnership agreement recommended
- ✓ Support to **secondments of staff members (1-12 months)**
- ✓ **No mobility rule required**
- ✓ **Eligibility condition** for staff members: **6 months at sending institution** prior to first secondment
- ✓ Max. **540 researcher-months** /consortium



What does MCSA cover?

- **Recruitment and training** of each researcher for up to **three years**. The researcher is hired under an employment contract and benefits from a monthly living allowance,
- **research costs** including the organisation of joint activities and conferences.
- **management and overhead costs.**
- Open competition and transparent, independent evaluation, using a series of pre-determined criteria



How do you apply for MCSA

- Proposals are submitted in reply to a **call for proposals**. All open calls and related information such as the Guide for Applicants and full eligibility criteria can be found at the [Participant Portal](#).
- Advice and information can also be found through the [National Contact Points](#) and [Horizon 2020 Helpdesk](#).



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)



Start-up Grant

- For researchers of any nationality with 2-7 years of experience since completion of PhD and scientific track record showing great promise
- An excellent research proposal
- Research must be conducted in a public or private research organisation (known as a Host Institution/HI) located in one of the EU [Member State](#) or [Associated Countries](#)
- Funding per grant: up to € 1.5 million (in some circumstances up to € 2 million)
- Duration: up to 5 years
- Calls for proposals: published once a year



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”





COST NETWORK

- European Cooperation in Science and Technology (COST) started in the 80s
- “Bottom-up” approach, and focus on multidisciplinary cooperation
- Promote early stage researchers, and complements the Framework Programme

Domains

1. Biomedicine and Molecular Biosciences (BMBS)
2. Chemistry and Molecular Sciences & Technologies (CMST)
3. Earth System Science & Environmental Management (ESSEM)
4. Food & Agriculture (FA)
5. Forests, their Products and Services (FPS)
6. Individuals, Society, Culture & Health (ISCH)
7. Information & Communication Technologies (ICT)
8. Materials, Physical & Nanosciences (MPNS)
9. Transport & Urban Development (TUD)



How to participate

- Get in touch with the Action Chair, and agree on the mutual benefit of your participation
- After approval inform the DST and apply for funding to participate in the COST activities (workshops, short missions and projects)





EUREKA NETWORK





WHAT IS EUREKA?

- **An intergovernmental network** established in 1985 to promote international, market-oriented research and innovation
- **Market oriented:** Research results must be a marketable product, process or service for civilian use
- Financed through **national and regional public and private funding**
- **Bottom-up:** the participants usually led by industry decide on the project aim. There is no thematic restriction
- Support to small and medium-sized enterprises (SME), large industry, universities and research institutes performing close to end research





EUREKA PILLARS

Individual EUREKA projects:

- Small, shorter-term projects and bottom-up approach
- Involve participants from at least two EUREKA member countries, and led by small to medium enterprise (SMEs)
- Result in a product, process or service with a significant advance in their sector

EUREKA Umbrellas:

- Thematic networks which focus on a specific technology area or business sector
- Facilitate the generation of EUREKA projects within area of thematic focus



EUREKA members

EUREKA has 41 full members



Austria	Denmark	Portugal
Belgium	Estonia	Romania
Bulgaria	European Union	Russian Federation
Croatia	Finland	San Marino
Cyprus	France	Serbia
Czech Republic	FYR Macedonia	Slovakia
	Germany	Slovenia
	Greece	Spain
	Hungary	Sweden
	Iceland	Switzerland
	Ireland	Turkey
	Israel	Ukraine
	Italy	United Kingdom
	Latvia	
	Lithuania	<i>Transitional status:</i>
	Luxembourg	<i>Albania</i>
	Malta	<i>Bosnia-Herzegovina</i>
	Monaco	
	Montenegro	<i>Associated countries:</i>
	The Netherlands	<i>South Korea ,Canada,</i>
	Norway	<i>and South Africa</i>
	Poland	





28 EU Member States:

[Austria](#), [Belgium](#), [Bulgaria](#), [Croatia](#), [Cyprus](#), [Czech Republic](#),
[Denmark](#), [Estonia](#), [Finland](#), [France](#), [Germany](#), [Greece](#), [Hungary](#),
[Ireland](#), [Italy](#), [Latvia](#), [Lithuania](#), [Luxembourg](#), [Malta](#), [Netherlands](#),
[Poland](#), [Portugal](#), [Romania](#), [Slovakia](#), [Slovenia](#), [Spain](#), [Sweden](#),
[United Kingdom](#)

12 EU Associated States

Albania, Bosnia and Herzegovina, Faroe Islands, Iceland, Israel,
Moldova, Montenegro, Norway, The former Yugoslav Republic of
Macedonia, Serbia, Switzerland and Turkey

Take home message!

Important
Message



**Create and maintain the
networks!**



Dankie

Enkosi

Ha khensa

Re a leboga

Ro livhuwa

Siyabonga

Siyathokoza

Thank you



contact@esastap.org.za

Tel: +27 12 843 6339

Applications and more information on opportunities on:

www.esastap.org.za

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

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

www.eurekanetwork.org

Current calls accessible : **ec.europa.eu/research/participants/portal**

