

H2020 OPPORTUNITIES



H2020 Information Sharing Session
University of Free State
25 JULY 2018

Space Society & Space Economy

- Relate to the key priorities of national governments
 - Quality of life
 - Wealth creation
 - Environmental protection



TM2


Space Diplomacy

- Work towards true/equal partnerships away from donor recipient relationships
- Use international cooperation for development
- Work towards global challenges




VISION

For South Africa to be among the leading nations in contributing to and advancing the innovative utilisation of space science and technology that enhances economic growth and sustainable development in order to improve the quality of life for all.




Slide 3

TM2 previous Fp7 H202 projects BRAGMA, GNSS, SKA, Space awareness, AfriCultureRes etc
Tumisang Modiole, 2018/07/24



MISSION

To address and inform national imperatives and policies through stimulating a sustainable space science and technology capability, growing human capital and applying scientific knowledge.




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H2020 SPACE OPPORTUNITIES

- DT-SPACE-06-EO-2019: International Cooperation Copernicus – **Designing EO downstream applications with international partners**
 - Scope: Proposals shall address a wide variety of applications stemming from the use of Earth observation and their smart integration with other related technologies. Copernicus should be considered as part of the solution which may include other space or non-space inputs.
 - *Copernicus Cooperation Arrangement is required*

Opening: 16 Oct 2018
Closing: 12 March 2019



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LC-SPACE-14-TEC-2018-2019: Earth observation technologies

- Very high resolution optical EO for LEO and/or high resolution optical EO for GEO/HEO instrument technologies
- Competitive remote sensing instruments and space systems
- Disruptive technologies for remote sensing
- On-board data processing
- Advanced SAR/Radar technologies

Scope: The aim of this topic is to demonstrate, in a relevant environment, technologies, systems and sub-systems for EO. Proposals should demonstrate significant improvements in such areas as miniaturisation, power reduction, efficiency, versatility, and/or increased functionality

- *Opening: 16 Oct 2018*
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TM3 SU-SPACE-22-SEC-2019: Space Weather

Secure And Safe Space Environment

- Forecasting horizons for space weather
- Improved modelling capabilities
- Delivery of prototype services
- New observation Infrastructure
- Joint analysis of interdisciplinary data

- **Scope:** Proposals shall address the development of modelling capabilities and/or the delivery of prototype services able to interpret a broad range of observations of the Sun's corona and magnetic field, of the Sun-Earth interplanetary space and of the Earth magnetosphere/ionosphere coupling relying on existing observation capacities.

- *Opening: 16 Oct 2018*
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TM3 calls overlap with areas in environment, health, transport, food security etc
Tumisang Modiole, 2018/07/24

**SPACE-18-TEC-2019-2020: In-orbit validation/demonstration
– Mission design, integration and implementation**


The activities include:

- System studies, at ground and space level, including the compatibility with the available launchers;
- Input to the launch mission analysis performed by the launch service provider;
- Selection, assembly, integration and testing of the spacecraft(s) and related ground segment;
- Preparation of the spacecraft(s) for the flight;
- In-orbit testing and operations including the provision of experiments data


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- **EGNSS market uptake 2019-2020 ???**



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DST SUPPORT INSTRUMENTS

- DST provides mobility/ seed funding for South African researchers in H2020
 - To finalise agreements etc
 - For more information visit www.esastap.org.za

THANK YOU!!!

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