

NATIONAL SPACE CONFERENCE

HIGHLIGHTS

SPACE FOR INCLUSIVE
GROWTH

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30 August to 01 September 2023



CSIR ICC, Tshwane, Pretoria, South Africa



science & innovation

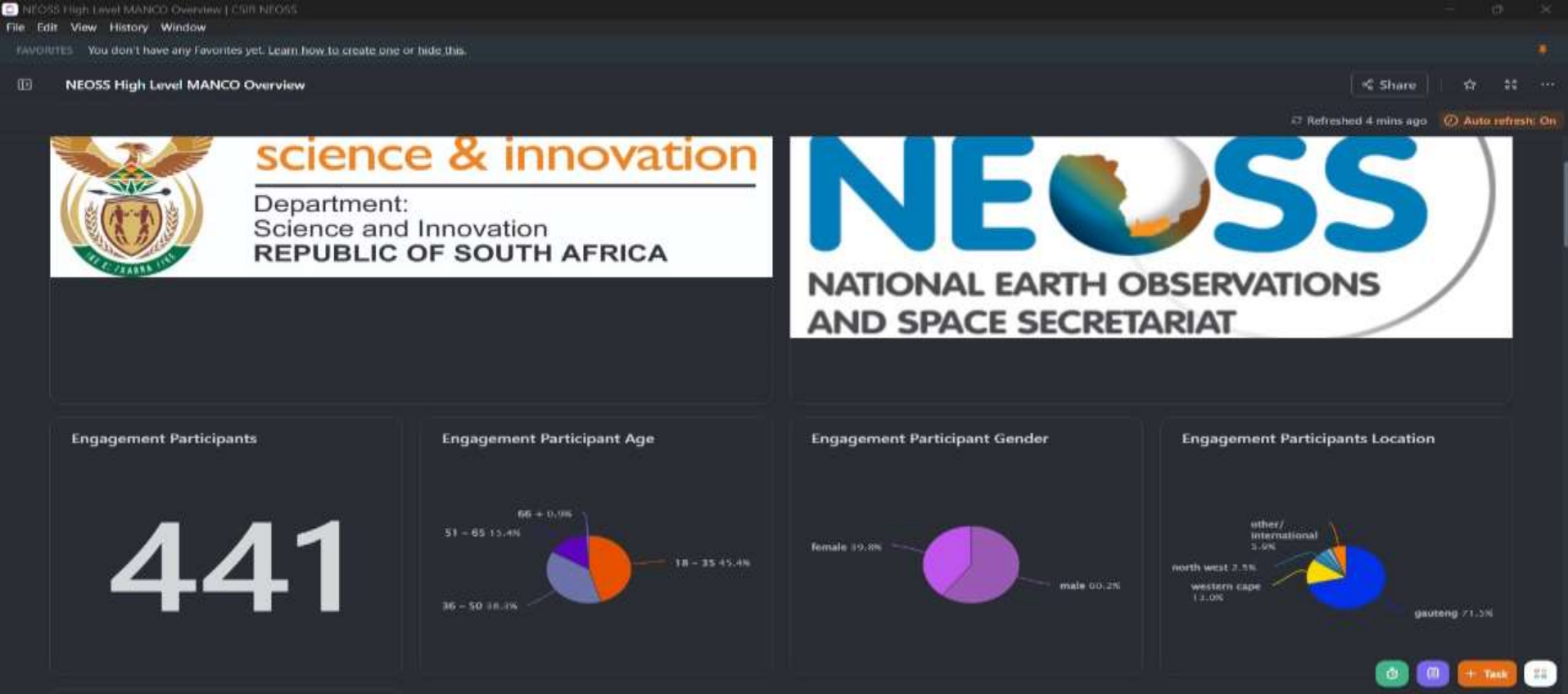
Department:
Science and Innovation
REPUBLIC OF SOUTH AFRICA



NEOSS
NATIONAL EARTH OBSERVATIONS
AND SPACE SECRETARIAT

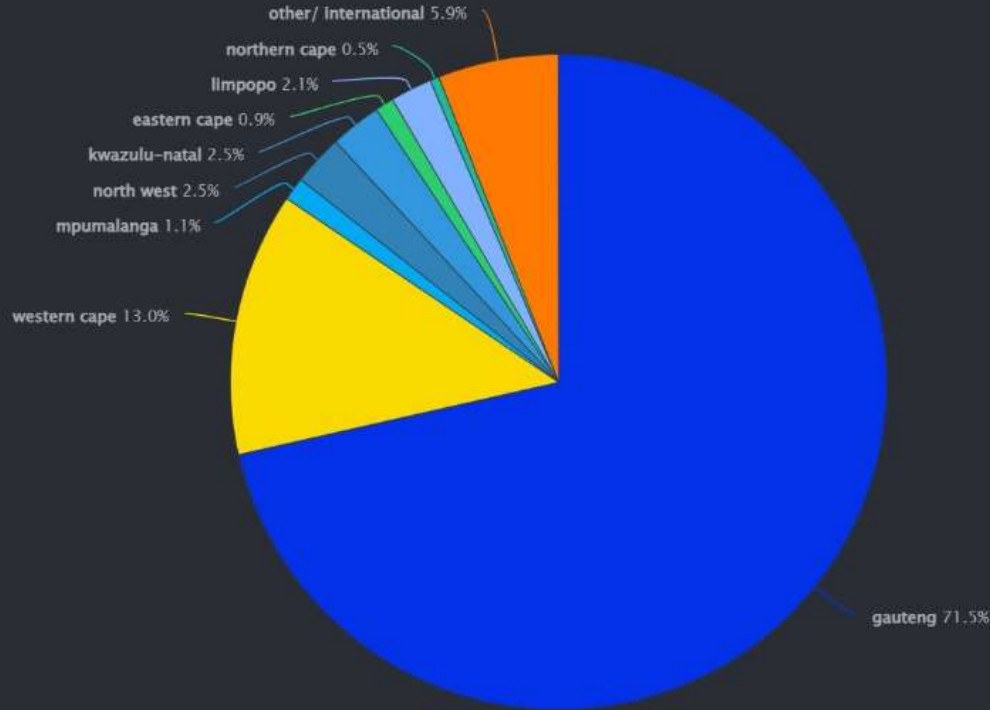


Registrations (EDI)



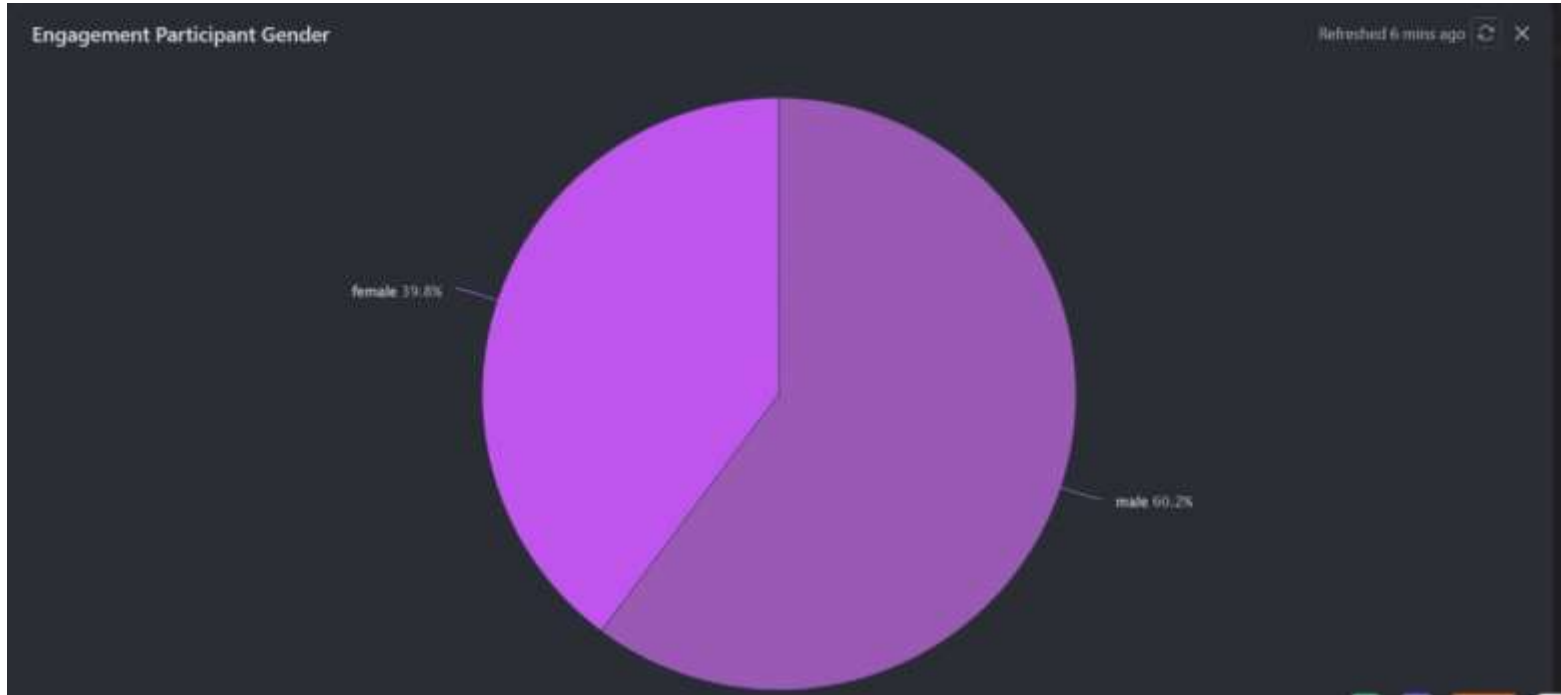
Engagement Participants Location

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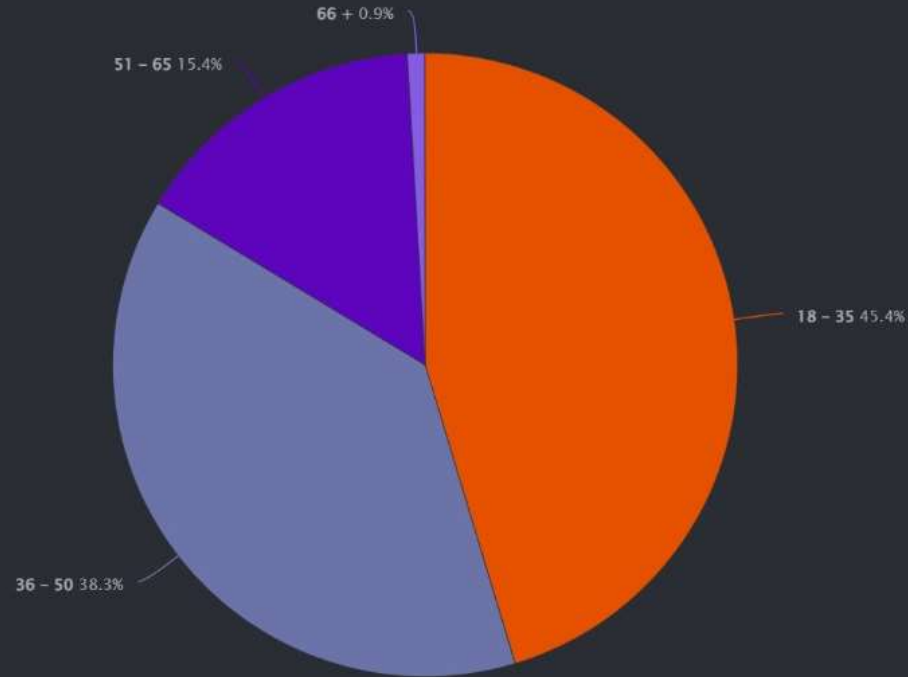
Engagement Participant Location

GENDER



Engagement Participant Age

Refreshed just now  



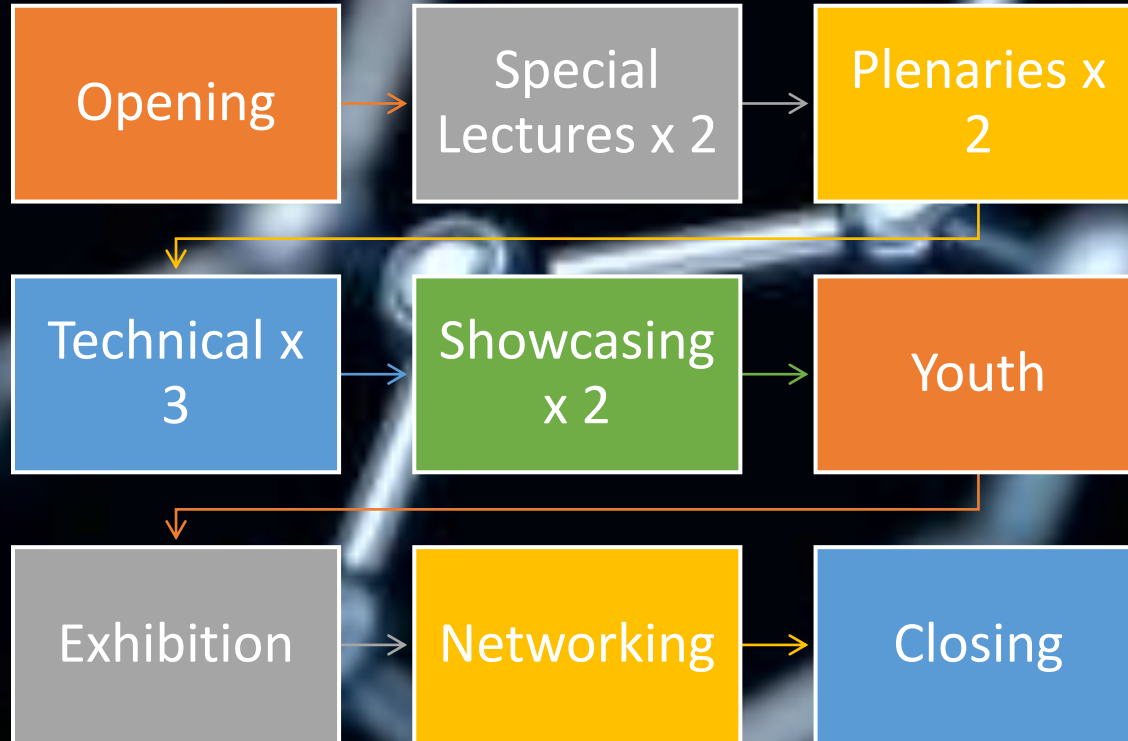
Generation



Space for Inclusive Growth

- Day 1 , Space and Society
- Day 2 , Space and Industry
- Day 3, Space and the Future

Total Sessions



=14

Opening session

Sharing space benefits
(society, economy,
environment security and
sustainability)

Opening Act (Basadi Le Meropa)

Opening Statements

1. Dr R. Ramoutar, DSI

- Welcomed all and highlighted the impact space has on society and the need for parallel solutions to support informed decision making.

2. Lieutenant General W. S. Mbambo, CAF

- Collaboration in order to master space as the high ground for economic growth , quality of life and welfare
- Space Power is our journey to greatness as a Nation

3. Dr M. Muofhe, DSI

- Poverty of ideas is the result of poverty of resources
- Ideas attract hidden resources
- Space Technology is about creating a state that is capable of developing and up lifting its societal well being

4. Dr K. Naidoo, CSIR and NEOSS

- Leadership begins with us
- We are to architect and coordinate the needs of our society

5. Mr H. Mudau, , (CEO), SANSA

- The complexity of the challenges demands collective cooperation that transcends individual capabilities
- Through collaboration , we unlock potential for inclusive growth

Special Lectures



1. Space and Entrepreneurship

- Have a strong , vibrant and resilient space Industry in South Africa
- What started in SunSat, has now grown into many space companies that are achieving commercial successes internationally
- More opportunities in the market and therefore need for more players to boost the local sector.

2. Space and Sustainability

- Space Sustainability is important as it has an impact on opportunities for future space exploration and exploitation and astronomy (Both radio and optical astronomy).
- Its getting crowded in outer space (More traffic)
- Long term sustainability of the Outer Space

Plenaries

1. Space Infrastructure and Operations

- The Industry demonstrated the importance of Space Heritage for sustenance.
- Strategic partnerships are important to expand business and marketing footprints
- The importance of designing systems that address societal benefits and commercial needs as an angle to be used by entrepreneurs
- Human Capacity Development to support industry growth and transformation

2. Space Education , Methods and Technics

- Need for opportunities for the youth to get involved in space Entrepreneurship
- Need for expansion of space activities to the local communities to create smart communities
- Inclusion of space curriculum in schools



Technical Sessions

1. Integrated Applications and Research

- The use of Space based data as a tool to addressing challenges (fire detection, food security, wheat crop, ground settlement for railway infrastructure)
- Innovation required for remote sensing solutions to address SDGs
- (AI and machine learning is gradually becoming the norm of analysing remote sensing data)

2. Use cases for space innovation and Services

- showcased the use of tools, software platforms using various remote sensing dataset for a variety applications.
- For example. Invasive species mapping, weed detection, cattle monitoring and water body mapping.

3. Space to Harness future technologies (NAEEM)

- SAR is no longer restricted for military purposes , but also commercial uses for civilian applications through , Microsta and Fleetstar (Mining , agriculture and environment.

Showcasing Sessions



1. Developments in building space Capabilities

- There are existing capacity development programmes supported by government and private sector to increase engineering capacity (Rockets , balloon test platforms, cubesats etc)
- The refurbishment of the AIT facilities

2. Status of frameworks and initiatives for regulation, coordination and Planning

- Importance of National Mechanisms to support coordination of space activities and to downscale activities from global to local level
- There are existing frameworks for regulation of Civil space activities
- Gaps in the regulations to support Military activities

Youth Session

- **EO Monitoring Demonstration activity**

- Existing communities adopting EO information and platforms to provide solutions to address community challenges
- High school learners involved in EO Mapping activities (Mining, Crop Monitoring , animal tracking etc)
- More use of Youth is required , more than engagement.

CSIR International Convention Centre

Thank you All
Travel Safely

