EXPLORING SPACE TECHNOLOGIES FOR SUSTAINABLE DEVELOPMENT AND THE BENEFITS OF INTERNATIONAL RESEARCH COLLABORATION IN THIS CONTEXT

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2019-2020 CSTD Intersessional Panel

7-8 November 2019, Geneva

AGENDA



1. BACKGROUND ON UN CSTD

- 2. UN CSTD PRIORITY THEME ON SPACE FOR THE SDGS (2019-20)
- 3. OPPORTUNITIES TO ENGAGE UN ENTITIES AND OTHER STAKEHOLDERS

UN Commission on Science and Technology for Development

- Established in 1992 as a subsidiary body of the UN Economic and Social Council (ECOSOC) and as torchbearer for science, technology, and innovation within the UN system.
- It has 43 member-countries, elected for fouryear terms: African States (11 members); Asia-Pacific States (9 members); Latin American and Caribbean States (8 members); Eastern European States (5 members); and Western European and other States (10 members).
- Multi-stakeholder approach: Meaningful and effective participation of all stakeholders, including academia, civil society, business entities and development actors





CSTD PRIORITY THEME: EXPLORING SPACE TECHNOLOGIES FOR SUSTAINABLE DEVELOPMENT AND THE BENEFITS OF INTERNATIONAL RESEARCH COLLABORATION IN THIS CONTEXT

UN CSTD 2019-20 Schedule of Meetings related to Space CSTD COMMISSION (SCIENCE AND TECHNOLOGY FOR DEVELOPMENT **AFRICA CONSULTATION (EARLY DEC 2019) ESCAP CONSULTATION** (AUG 2019) 02 03 **INTER-SESSIONAL PANEL (EARLY NOV 2019) ANNUAL SESSION** (MARCH 2020)

Space Applications for the SDGs

FOOD SECURITY AND AGRICULTURE

HEALTH APPLICATIONS

TELECOMMUNICATIONS REDUCING DISASTER RISKS

PREVENTING HUMANITARIAN CRISES .

NATURAL RESOURCE MANAGEMENT

MONITORING POVERTY

RECENT TECHNOLOGICAL DEVELOPMENTS

MACHINE LEARNING BIG DATA CLOUD COMPUTING EMERGING SATELLITE PLATFORMS DRONES **3D PRINTING** CROWDSOURCING **PRIVATE SPACE ACTORS**

CAPACITY CONSTRAINTS

BOTTLENECKS HINDERING SPACE APPLICATIONS

LACK OF AWARENESS

USER CHALLENGES

HIGH COSTS

GEOGRAPHICAL CONSTRAINTS

FINANCIAL CONSTRAINTS

GOVERNANCE ISSUES

TECH AND SKILLS GAPS

RISKS OF SPACE TECHNOLOGIES



INTERNATIONAL RESEARCH IN SPACE

GLOBAL SCIENTIFIC COOPERATION



INTERNATIONAL SPACE STATION

Collaboration among space agencies of Canada, Europe, Japan, Russian Federation, and USA.

Three Laboratory modules (US Destiny, European Columbus and Japan Kibo) supporting a range of scientific and research activities.





EUROPEAN SPACE AGENCY

International collaboration involving 22 European Member States.

EU's flagship programmes include European Global Navigation Satellite System (Galileo) and the Copernicus Earth observation programme

INTERNATIONAL RESEARCH IN SPACE

Humanitarian and Development Applications

DROUGHT Monitoring

ESCAP/RESAP

Regional Cooperative Mechanism for Drought Monitoring and Early Warning

DISASTER RISK REDUCTION

UN-SPIDER

Space-based information in disaster management and disaster risk reduction ACCESS TO SPACE

KIBOCUBE

Helping developing countries deploy CubeSats through Japan's Kibo Lab.

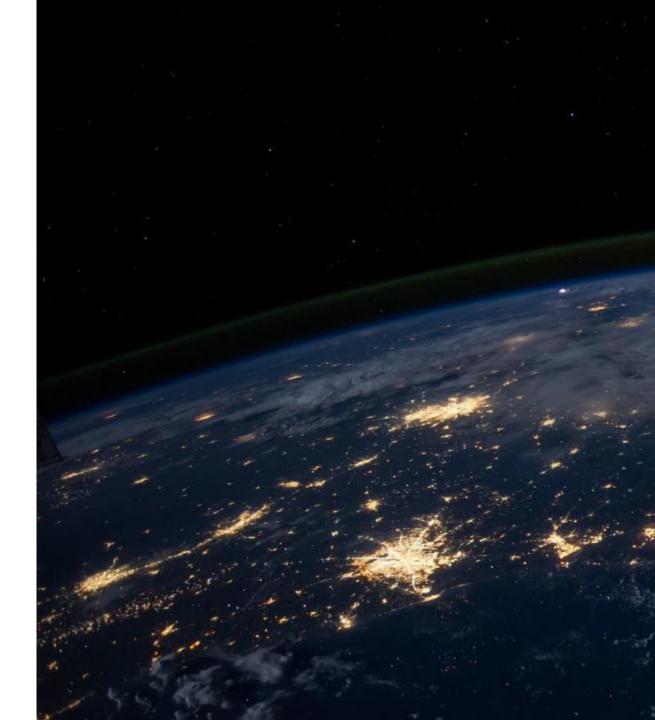
NATIONAL AND REGIONAL POLICIES/STRATEGIES

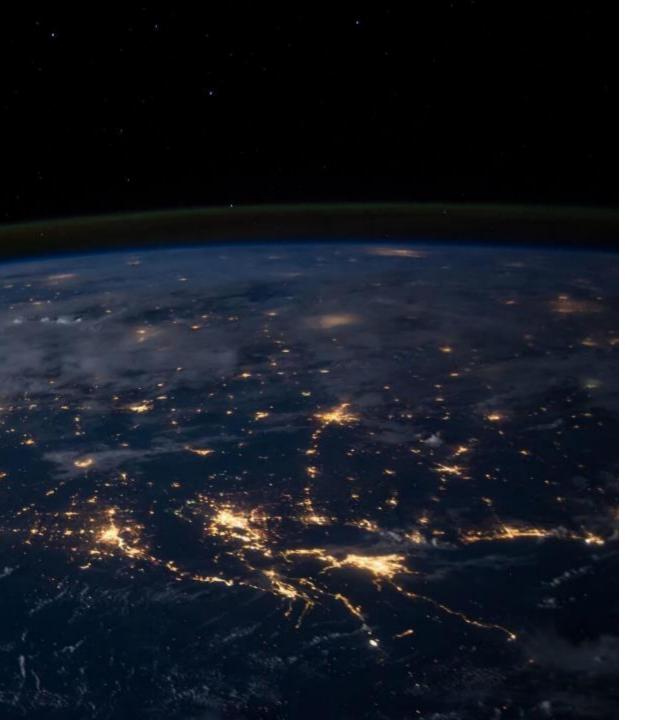
NATIONAL

- Building upstream and downstream capabilities
- Improve infrastructure and invest in capacity-building
- Raise national awareness of the benefits of space
- Collaborating with technical and academic communities
- Sharing data for development through open data/science

REGIONAL

- Promoting regional awareness and consensus building
- Encouraging regional R&D, capacity-building, and data sharing





MULTISTAKEHOLDER AND INTERNATIONAL COOPERATION

MULTISTAKEHOLDER PARTNERSHIPS

- Encourage multi-stakeholder actors to continue to share
 EO digital public goods
- Build space for SDG-focused global and public-private partnerships

INTERNATIONAL COOPERATION

- Invest in multilateral mechanisms and platforms for sharing EO data assets
- Strengthen international cooperation on space-related R&D and capacity-building
- Leverage intergovernmental platforms for space

CONTRIBUTING TO CSTD WORK ON SPACE

RESOURCE PERSONS

Speakers from UN agencies or space network for CSTD Annual Session



STRENGTHENED COOPERATION

Brainstorming ways to amplify your work through UN CSTD platform and advice to ECOSOC/GA.



SIDE EVENT

Raising awareness about space or services to Member States on margins of CSTD Annual Meeting.

ANALYTICAL INPUTS

For Report of the S-G and Current Studies Report



DRAFT RESOLUTION

Crafting key messages that can be considered by Member States

THANKYOU

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