CANEUS Input to High Level Forum 2016





Milind Pimprikar, Chairman, CANEUS 20 - 24 November 2016, Dubai, United Arab Emirates



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HLF:Space Accessibility

UN Coordinated **Global Satellite Constellation** and **CANEUS Small Satellites Design and Construction Facilities: Opportunity and Implementation**

Path Forward for UNISPACE+50



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UNOOSA Coordinated Global Partnership and US CANEUS Small Satellite Design and Construction Facilities to Serve the Needs of UN Member Nations Contribution to Space Accessibility

- Need and Opportunity for the Global Initiative
- UNOOSA Coordinated Global Partnership
- Building on CANEUS UN 8+ Years of Related Successful Partnerships
- CANEUS Small Satellites Design & Construction Facilities to Serve the Needs of UN Member Nations
- Opportunity and Implementation Plan for UNISPACE+50

ANEUS Need for the UNOOSA Coordinated Global Partnership

- There currently are number of active satellite technology efforts and capabilities for the socioeconomic sustainable development of the socio-SUSTAMABLE DEVELOPMENT
- There remain constraints to the full streamlining of EO, GNSS and telecommunication in the planning and response strategies of authorities
- No global partnership to coordinate and organize all the disparate efforts

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Requirement of the UN Common nano-satellite platform allows:

- - Data gathering system with the same telemetry and commanding Production in numbers that decreases overall cost and increases predictability of performance
 - Common ground segment Common ground segment Common launch interfa a la let Design tailored to specific requirem •
 - •
 - Availability of spares across all participants Inter-satellite communication system •
- Payloads built all over the world and dedicated to gather data:
 - Infrared
 - Visible
 - Panchromatic Ground sensors data

ADAPTABLE

- Synthetic Aperture Radar •
- Étc... •

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- Platform / Payload Integra Stal Song Astit Matai Ble paroads Secondary benefits for Stal Song Astit Matai Ble paroads •
- All data collected and available /distributed bath raw and post processed to the participating countries Leverage on each other •

CANEUS UN Coordinated Global Partnership: - Opportunity and Implementation Path Forward

Space Data Accessibility Bustainable Development

CANEUS UN Coordinated Global Partnership: Opportunity

- **Opportunity:** being able, on an equal basis, to benefit from and use space technologies and space-based data
 - Unique Opportunity Under A UN Framework to address:
 - Data availability and Inter-operability
 - End-to-end data flow: System of Systems

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• With new approaches in satellite design, including of small satellites, and in the coordinated conception of satellite constellations (with future and existing satellites), the space community is thriving with new initiatives and new concepts for improved delivery of space-based data

CANEUS UN Coordinated Global Partnership: - Implementation Path Forward

- Implementation Path and Input to the HLF:
 - Identify and assess the requirements of all components a global partnership
 - Financial and administration aspects,
 - Human resources requirements,

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- Steering structure requirements, and
- Coordination mechanism within the partnership
- Define Role(s) and responsibilities of UNOOSA and of potential partners



CANCANEUS Complementary Competencies

A Worldwide Organization Dedicated to fostering Emerging space technology based solutions Through a coordinated / shared approach To *benefit* Socio-economic needs of

All Countries

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Since 1999 CANEUS has partnered with 5,500+ Participants

58+ Countries from Americas, Europe, AP, ME & Africa

UN-OOSA, UN-ISDR, UNDP, World Bank.....

NASA, CSA, ESA, DLR, ASI, CNES, ISRO, JAXA, ROSCOSMOS, AEB, NSRDA, SANSA, NAST-STI, SSAU.....

EC, ISU, NRL, NOAA, NRCC, NAL, USRA, APSCO, COSPAR, KARI..

Boeing, Airbus, EADS, LM, SpaceX, Thales, SSL, ATK, GE, Mitsubishi...

MIT, Berkeley, Stanford, TU DELFT, McGill, IISc, NUST....

for Mission Specific, Finite Duration Projects

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CANEUL everaging CANEUS -UN Partnership

CANEUS has engaged with UN to develop New Global Framework on Sharing Space based Data



Focus Areas: DRR, Early Warning Systems, Capacity Building, Small Satellites and Sensors, Global Public-Private Partnership (PPP)





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UNOOSA Coordinated Global Partnership for a Constellation of Satellites for Sustainable Development







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Facilitating Access to Satellite Technology for Design & **Construction of Small Satellites in** Development **Facilities MIHAN**

"Space as a driver for socio-economic sustainable development", 20 - 24 Nov. 2016, Dubai, UAE

India



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Space Accessibility to Serve UN Member States







Input to HLF Dubai Declaration: UNISPACE+50

- Development and implementation of the proposed global partnership coordinated by UNOOSA
- An engagement strategy aimed at facilitating access to satellite technology, including for the design and construction of small satellites in development facilities
- Implementation steps to realize the UN 2030 Agenda for Sustainable Development



