

Space and Civil Society: The Case of Secure World Foundation

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Executive Director
Secure World Foundation
UNISPACE+50 Symposium
18 June 2018



Long term objective

The secure and sustainable use of the space domain.

We work toward this by.

- •increasing the knowledge about the space environment and the need to maintain it
- promoting international cooperation and dialogue
- •helping all space actors realize the benefits that space can provide.







Salience

Credibility

Competition

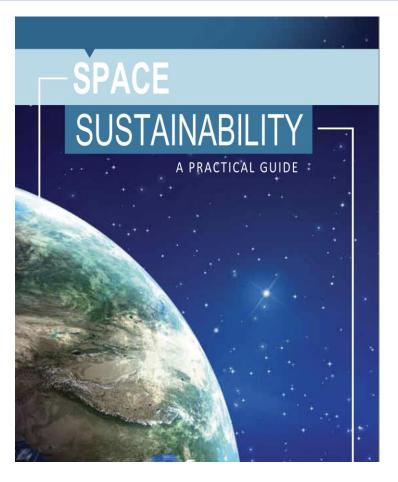


Communication





More Communication









Yet again more communication



UNISPACE+50 Symposium

18 June 2018

SECURE WORLD FOUNDATION

Promoting Cooperative Solutions for Space Sustainability

Enriching the Conversation

YOU CAN'T STOP WHAT YOU CAN'T SEE









And some of the most effective communication





Listening



Narrowing the Gap

SUSAID S COMOD MCTP CEOS WGCapD/RCMRD DEM Workshop 6-10 May 2013 er Resolution SRTM Data & Flood Modelling 5-29 May 2015, Tonantzintla and Puebla, 1 Announcement - Save the date ed to announce the Higher Resolution SRTM Data & th focus on Latin America and the Caribbean. The ' itzintla and Puebla (State of Puebla), Mexico at the Optica y Electrónica (INAOE) and of the Benemérica anized by the Working Group on Capacity Buil ee on Earth Observation Satellites (CEOS), ho Latin America and the Caribbean (CRECTF WF), the National Institute for Astrophysics of Puebla (BUAP), the Mesoamerican Centr jectives of and is coordinated with the he European Commission to further de d the capacity to use Earth Observation 5 October 2016

Advocacy and Inclusion







Building Capacity and Expectation



Spreading the benefits

2017 Roundtable on Value & Benefit Creation in Commercial Space Approved by GEO-XII Plenary on 11 November 2015 GROUP ON EARTH OBSERVATIONS 8:45 – 9:00: Opening, welcoming remarks, ground rules

• Master Moderator: Ramin Khadem 9:00 – 10:30: <u>Discussion 1; Always listen to experts. They'll tell you what can't be done, and why. Then do it." – Recar/Revisit of Last Year</u>

• Moderator: Ramin Khader

• Speaker 1; Michael Lopez Alegria Speaker 2: Adil Jafry SPACERESOURCES Speaker 3: Sean Casey 10:30 - 11:00: Break - coffee The Group on Earth Observations (GEO) 11:00 - 12:30: Discussion 2: "Everything is theoretically impossible, until it is done." - Business Models Beyond LEO and GEO

Moderator: Daniel Faber? Mexico City Declaration Speaker 1: Bernard Kutter or Melissa Samson, United Launch Alliance Speaker 2: We, Ministers, GEO Members and Participants attending the Group on Earth Observations (GEO)

Mexico Civ Ministerial Summit: Mexico City, 13 November 2015 1:30 - 3:00: Discussion 3: "Anything which is physically possible can always be made Moderator DRAFT BUILDING BLOCKS Speaker 1 Confirm that full and open access to Earth observation data, information and knowledge is crucial
for humanity as it faces unprecedented social, economic and environmental challeness at global. OF AN INTERNATIONAL FRAMEWORK

ON COACH THE DEVELOPMENT

ON COACH THE A/AC.105/2015/CRP.9 Confirm that full and open access to Earth observation data, information and knowledge is crucial for humanity as it faces unprecedented social, excononic and environmental challenges at global, for humanity as it faces unprecedented social, examined and environmental and the information and regional, national and local levels. Recognize that Earth observation data and the information are regional, national and local levels. Recognize that Earth observation and implementing solutions. ON SPACE RESOURCE ACTIVITIES 10 June 2015 regional, national and local levels. Recognize that Earth observation data and the information and knowledge derived from those observations are fundamental for identifying and implementing solutions, manufacture incorress and measuring impacts. 3:15 - 4:00: Capstone Discussion - Identifying Benefit English only Note that Earth observations take many forms including in situ, remotely sensed, and space based.
 Welcome CEO's inclusion of all of these types in its efforts. Emphasize that Earth observations and 2. Note that Earth observations take many forms including in situ, remotely sensed, and space based.
Welcome GEO's inclusion of all of these types in its efforts. Emphasize that Earth observations and economic and social data, information and knowledge should be used together for policy and program common and social data, information and knowledge should be used together for policy and program of the program of t economic and social data, information and knowledge should be used together for policy and program decisions. Affirm that GEO and its Earth observations and information will support the implementation of the area of the support of the implementation of the support of the support of the control of the support of the supp Committee on the Peaceful Uses of Outer Space decisions. Aftern that GEO and its Earth observations and information will support the implementation of, inter alia, the 2030 Global Goals for Sustainable Development, the Sendal Framework for Disaster Risk Reduction 2015-2030, the United Nations System of Environmental and Economic Accounts, and of, inter alia, the 2030 Global Goals for Sustainable Development, the Sendai Framework for Disaster Risk Reduction 2015-2030, the United Nations System of Environmental and Economic Accounts, and the United Nations Framework Convention on Climate Change. The United Nations/Germany International Conference on Earth Observation — Global Solutions for the Challenges of Sustainable Development in Societies at Risk Note the progress GEO has made, recalling its Geneva Declaration (2014) call to improve GEO's
effectiveness, broaden its engagement with stakeholders and sustain resources. Reaffirm that 3. Note the progress GEO has made, recalling its Geneva Declaration (2014) call to improve GEO's effectiveness, broaden its engagement with stakeholders and sustain recourses are needed to assess, comprehensive and sustained Earth observations and derived knowledge are needed to assess, and sustained Earth observations and derived knowledge are needed to assess, and sustained Earth observations are a basis for sustainable development. September 2017 The present document contains the netcome summary of the United Nations/Germany International Conference on Earth Observation — Global Solutions for the Challenger Statistical Development in Societies at Risk, held in Bonn, Germany on 26-28 May 2015. comprehensive and sustained Earth observations and derived knowledge are nee-understand and predict how Earth resources are a basis for sustainable development and its choices impact the Earth life support system upon which the wellbeing of a support system of the wellbeing of the support system of the wellbeing of the support system upon which the wellbeing of the support system upon which the wellbeing of the support system upon the system upon th understand and predict how Earth resources are a basis for sustainable developmen:

and its choices impact the Earth life support system upon which the wellbeing of the support system upon the support system upon which the wellbeing of the support system upon th 4. Recognize that GEO is a unique partnership of governments and participating organizations I. Background 2015 is a decision year as interpretamental negatiations held with the support
of the United Nations will Cominate in three global frameworks that are general
more development trends southback as a very to ensure insorted
southinable development softensing the challenges peaced by climate change and
natural NatureM. natural hazards.

2. Alverdy in Match of this year, during the World Conference on Disaster Rick Reduction for the Smokel Jones, government of 137 contrain humshood the Smokel Jones, government of 137 contrain humshood the Smokel Reduction for the Smokel Jones Smokel Reduction for action as a way to enhance the conference of the Smokel Reduction of the Smokel Redu Please recycle BURENIE BUEN

68th International Astronautical Congress 2017 Paper 1

BUSINESS INNOVATION SYMPOSIUM (E6)

New space industry segments, firms, actor groups, and multiple programs: innovation, entrepreneurship & investment at the mesoscopic level of analysis (2)

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BROADENING BENEFIT AS A PATHWAY TO THE WIDELY-ACCEPTED DEVELOPMENT OF EXTRA-TERRESTRIAL RESOURCES

Abstra

Innovative applications and business plans emerging from the commercial space sector will be the subject of intense scruting by governments eager not to be left behind in the development of new economic activity in space. The breadth of participation in the benefits of such space activity is likely to play a significant role in the range of political support it enjoys. This paper seeks to explore this idea by looking at the specific challenges facing space mining. Considerable attention has been focused on the non-appropriation (Article 2) and exploration and use clauses (Article 3) of the Outer Space Treaty (OST) and the common heritage language of the Moon Agreement (Article 11.1) when discussing this tonic. Nonetheless, there are indications that the OST's benefit clause (Article 1) may emerge as a key to achieving broad international support for commercial mining operations beyond Earth. The multilatera utility of the benefit concept is evident in frequent references to it in such contexts as UNCOPUOS, GEO The Hague Space Resources Governance Working Group, and numerous international space conferences.

Because states will ultimately evaluate "benefit" in terms of its impact on their citizens and their wellbeing and not on the history of its use in legal proceedings, the study of the concept's potential to create a receptive and permissive environment for commercial resource development off Earth is inherently political and economic. Fortunately, there is a rich array of terrestrial experience bridging the micro- and macroscopic perspectives that can help provide insight into how mining interests have been reconciled with those of the communities in which they have operated. There are also insights to be drawn from can illuminate the challenge of broadening the benefit base for space mining. Additionally, it will offer an initial assessment of the applicability of the terrestrial experience to the special context of extracting resources from objects in space. The paper will also draw on recent work of the Secure World Foundation to improve the understanding of value creation through space activity. This aspect will argue that the ability to add and communicate value can increase the range of potential benefits that could flow from the development of space resources. The paper will also leverage prior analysis that the authors have published examining the links between social benefit, space activity, and corporate strategy.

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Let's improve one small neighborhood together.





