Space for Sustainable Development

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Outline

- Pathways to Sustainable Development
- Space community - supply
- Development actors - demand
- Dialogue, Stakeholders
- The Sustainable Development Goals
Global community & SDGs

- 4 dimensions of sustainable development
  - Economic development
  - Social inclusion
  - Environmental sustainability
  - Good governance
Building blocks - Key questions

1. Where has space already proven useful and which programs currently exist?
2. Where does it appear that space has been underused?
3. What is the current dynamic and who are the relevant actors?
4. What are the current dialogue fora and tools?
5. Which actors are overlooked?
6. How to create a sustainable dialogue and which new fora and tools are advisable?
7. Are new programmatic tools possible?
Space community – supply

- Multitude of sectors and actors with very different interests, specializations, backgrounds, and institutional character

- Space technology & economic development:
  - Private actors - connectivity
  - EU Copernicus, Tiger - Earth Observation
  - UN ICG - GNSS
Space as an enabler

• Space services vs terrestrial infrastructures

• Integrated innovative services

• Tele-education and e-health
Space in the future

A new role for Space?
• Creation of Space programs addressing societal needs
• Innovative downstream services integrating Space and social data

Space as an essential tool for life on Earth
• Sustainable development & Smart Cities
• Connectivity & Big Data
• Mobility: integrated and green transportation systems

Space spin-in and Space spin-off
• e-health, Key Enabling Technologies
Europe’s global role

Climate change
- European leading role in emissions monitoring

Energy and Infrastructures
- Full exploitation of renewable energy sources
- Infrastructures planning and sustainable development
Development actors – demand

Some of the key development actors:
- national governmental actors
- citizens
- non-governmental actors
- governmental aid organisations
- intergovernmental organisations in the field
- the Office of the UN Special Representative for the SDGs,
- development consultancy firms

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Dialogue

Development community (demand)

Space community (supply)

Sustainable Development Goals
New Programs

• Space Agencies & third parties

• Optional Programs structure

• Space incubators
Stakeholders

- Development banks
- Industry
- Civil society
- NGOs
- European Union EC; EP; MS
- States
- United Nations
- Space agencies

Sustainable Development Goals
Sustainable Development Goals

1. No Poverty
2. Zero Hunger
3. Good Health and Well-Being
4. Quality Education
5. Gender Equality
6. Clean Water and Sanitation
7. Affordable and Clean Energy
8. Decent Work and Economic Growth
9. Industry, Innovation and Infrastructure
10. Reduced Inequalities
11. Sustainable Cities and Communities
12. Responsible Consumption and Production
13. Climate Action
14. Life Below Water
15. Life on Land
16. Peace, Justice and Strong Institutions
17. Partnerships for the Goals

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