

Accessing Space Capabilities Key To Achieving the Sustainable Development Goals

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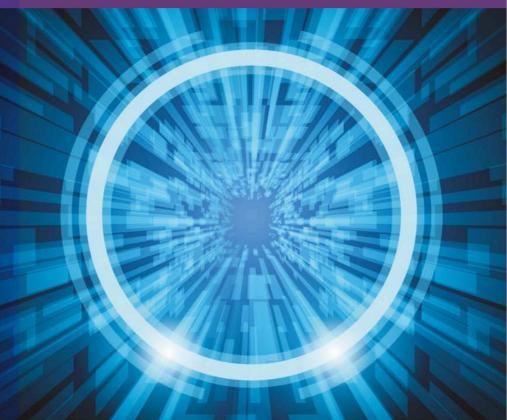


11.



Inclusion • Security • Mobility • Safety • Cyber-resilience

Broadband for All	Early Warning Systems / Food Security	Satellite is Relevant		
1	2	to all SDGs		
Telemedicine /	eLearning For	Digital Inclusion	Water	Power
Remote	Teachers &	for Women/Girls	Management	Management /
Diagnostics	Students			Smart Grids
3	4	5	6	7
Digital	Resilient,	Bridging Digital/	Smart Cities	Precision
Opportunities to	Robust, Instant	Education/	(Traffic	Farming / Smart
Prevent Rural	· · · · · · · · · · · · · · · · · · ·	Health/ Social	management,	Agriculture
Depopulation		divides	Air Quality, etc.)	10
8	9	10	11	12
Monitoring Sea	Reporting	Monitoring	Peacekeeping	Partnerships:
Levels &	Fishing Quotas,	Deforestation;	Operations;	NGOs, Terrestrial
Temperatures,	Preventing	Tracking Wildlife	eGovernment	Operators,
Pollution, Heat	Illegal Practices	1 Г	10	International
Loss, etc.	14	15	16	17 Organisations



Working Group on Technologies in Space and the Upper-Atmosphere

Identifying the potential of new communications technologies for sustainable development September 2017

UN Broadband Commission WG Report of September 2017

- Extraordinary technological innovation in satellites
- Ubiquity, reliability, mobility enable smart society applications in cities and rural areas
- Work hand-in-hand with terrestrial systems to achieve the SDGs as a key component of 5G
- Ensure continued access to relevant spectrum
- Ensure regulatory conditions allow technology exploitation
- Stakeholders should cooperate to promote innovation and technology development

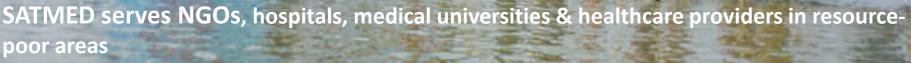








SATMED on 'Friendship Floating Hospitals' in Bangladesh Making e-Health Accessible



- Ships are equipped with maritime satellite terminals
- Visiting medics communicate from remote areas with national/international doctors
- They provide medical counseling to marginalized communities through telemedicine & exchange medical knowledge with local doctors

SATMED has deployed 10 times : Philippines, Bangladesh, Benin, Sierra Leone, Niger



Use Cases: e-Health: Africa

SOS Children's Village brings healthcare to children & their families in remote parts of Benin using portable satellite terminals

- Patient medical data sent in real time via satellite to urban hospitals
- Monitoring, diagnosis & treatment of adults & children
- Diabetes, hypoglycemia, hypertension & other serious conditions identified
- Conditions that may never have otherwise been discovered referred for treatment
- Successful pilot in 2014 project still in operation today

Secure Transmission of Personal Data • Immediate Diagnosis & Treatment



Use Cases: e-Learning: Africa

Project iMlango, Kenya Project iKnowledge, Tanzania

- 500 schools connected with small satellite terminals & community WiFi hotspots backhauled via satellite
- Education for marginalized communities & training for teachers
- Focus on 68,000 marginalized girls in Kenya & encouraging 'science for girls' in Tanzania
- Cooperation between Tanzanian schools & University of Dublin to promote Young Scientists Tanzania competition
- Students use Skype to do joint experiments with students in Dublin



Call for tender from Ministry of Education in Panama to connect 450 isolated schools

- Schools connected via satellite to the Internet
- Local technicians receive training on installation, working & maintenance of satellite links & equipment
- Benefits for local adults & children
- Education & skills transferred to rural communities



Education for All • Local Capacity Building • Sustainable Solutions

Use Cases:

Professional Training – How to Run a Business



Gender Equality • Empowering Women • Financial Independence



Use Cases: e-Learning: Europe

Connecting schools on Greek Islands: Valtesiniko, Kastellorizo, Gavdos

- Development issues are not just reserved for emerging economies! Relevant also in the EU!
- Island areas can typically be home to tiny populations of a few hundred persons
- One Greek island now connected by satellite has only 50 residents + 1 school!
- Simple satellite connections allow such communities & their children to keep up with education & be part of society itself



Social cohesion • Equal opportunities • Every Child Online



Satellite Operators deploy Immediate Solutions in Difficult Circumstances



... and instant solutions when they are needed most



Creating Local Jobs & Capacity Building for Sustainability

Delivering Immediate & Complete Connectivity

Safety/security fencing

> Satellite Dish

Solar Panels

Mobile Base Station

and a constant

Satellites and the Satellites Satellites and the Satellites Satell

Since the first live satellite call to Africa in 1963 between John F. Kennedy and the Nigerian Prime Minister, Abubaker Balewa, the world has seen a global communications revolution.

Still, millions of people have yet to benefit from the technological advances of the last 50 years. The challenges of connectivity remain due to a lack of available communications infrastructure.

Global Challenges Satellite Answers

Conclusions

- A technology unique to global connectivity
- Already used for a multitude of applications
 - Despite widespread use, satellites remain an invisible infrastructure
 - UNOOSA can change this
 - Benefitting from satellite services requires:
 - Technology neutral regulation
 - Interference free spectrum
 - Continuing Innovation and Economies of Scale

THANK YOU



ESOA Members

