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Session 2:
**Achieving the next level of connectivity with Satellite
Communications**

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African Communications Office**

STEPHANE MEBALEY EKOME

Stimulate and develop ICT across Africa

Doctor in Electronics, Stephane has more than seventeen (17) years of experience in the telecommunications, information systems and digital processes. Passionate about new technologies and keen to disseminate and transmit his expertise, he initiated an ICT Consulting and Training activity for the benefit of African governments, businesses and civil societies.

- ❑ International expert in Telecom and ICT
- ❑ International negotiator (ITU, ATU, CEPT)
- ❑ Entrepreneur in ICT and digital transformation in Gabon



Expert in Telecom & ICT

PhD in Electronics, Optronics and
Systems & Telecom Engineer

17 years of international expertise:
SES, ANFR, CNRS, CGI, Orange Labs

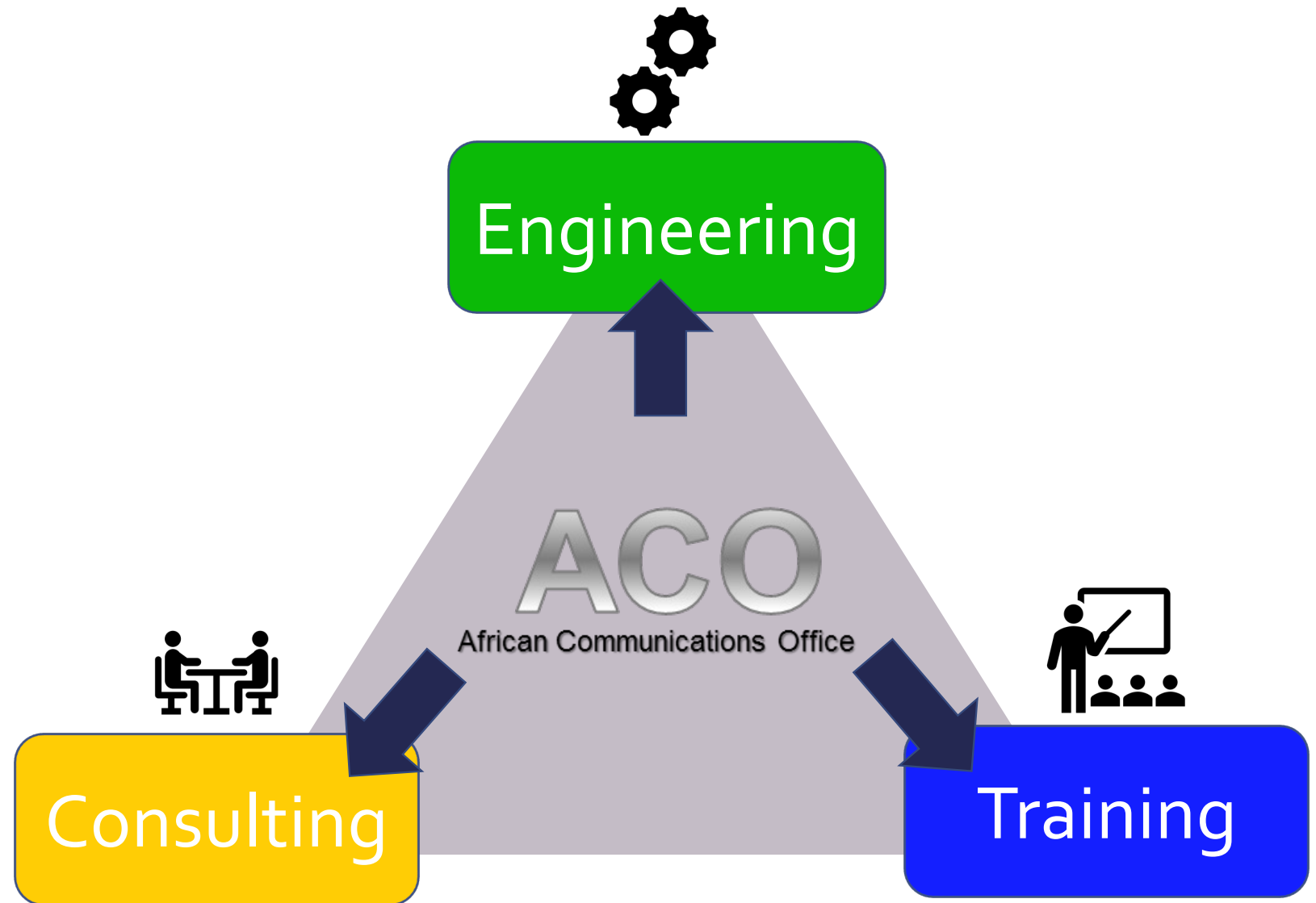
African Communications Office Founder, Director

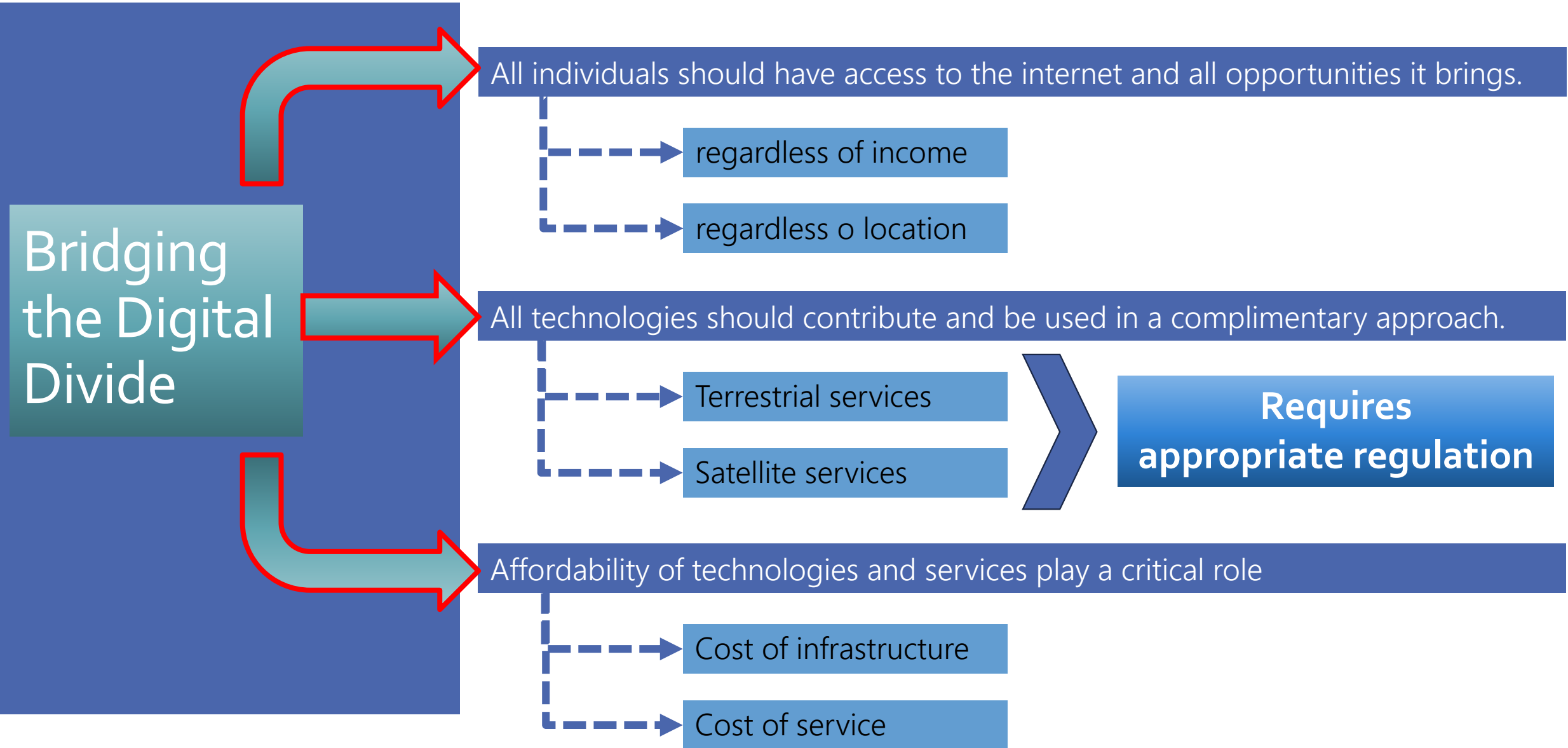
Spectrum Management, Telecom
infrastructures, Consultancy in ICT, Training



Heart of activities

Supporting you at every step and every perspective of your ICT projects.





Supporting Key Sectors and Services

Satellite technology is a reliable solution that enhances connectivity, contributing to bridge the digital divide and supporting the achievement of UN Sustainable Development Goals.



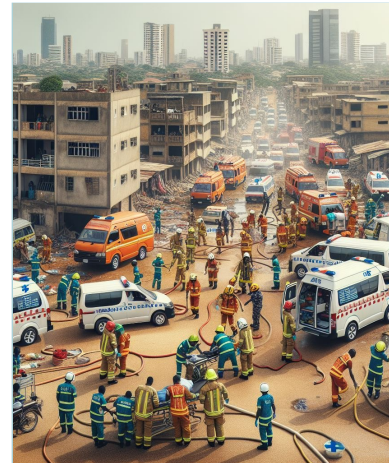
Agriculture and Food Security

Precision farming improved and optimized with Satellite imagery



Financial Services

Satellite expands access to mobile money, and other financial tools



Backup to terrestrial networks

Satellite backup terrestrial networks for continuous service



Education

E-learning and remote schools connectivity enabled with satellite



Healthcare

Telemedicine enabled for underserved areas by satellite technology

Support economy with high value services

Defense and disaster relief services

Access to public services in rural areas

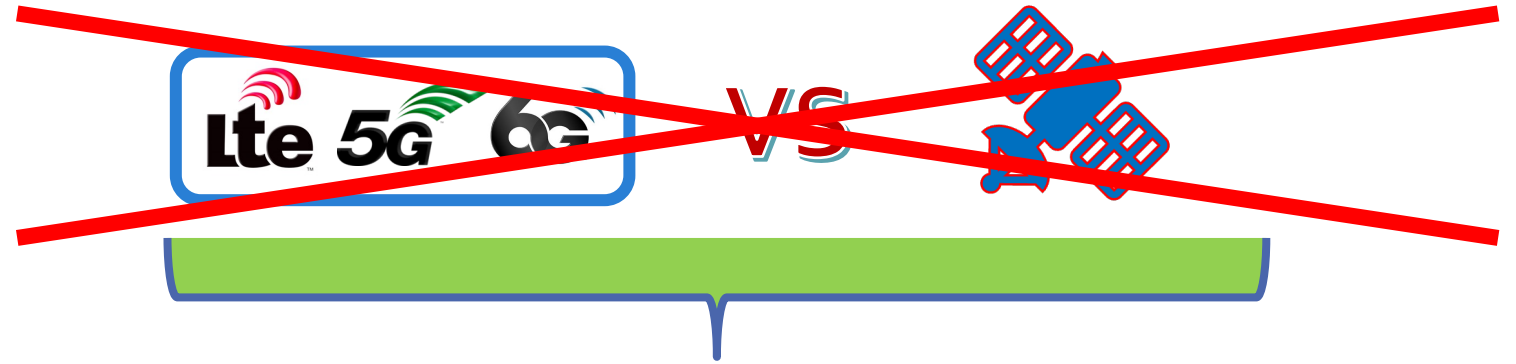
Socio-Economic Considerations

140% growth of satcom broadband users for Africa & Middle East by 2030

By 2030 81 million students will benefit from satcom tele-education & 74 million people from satcom tele-medicine by 2030

- Study commissioned by GSOA found that broadband connections delivered by satellites will generate **almost \$60 Billion direct and indirect socio-economic impacts on society globally by 2030**, almost doubling compared to 2022
- The global socio-economic benefits of satellite domestic broadband are estimated to reach **\$52 billion by 2030**
- The global socio-economic benefits of satellite tele-education are estimated to reach **\$2.5 billion by 2030**

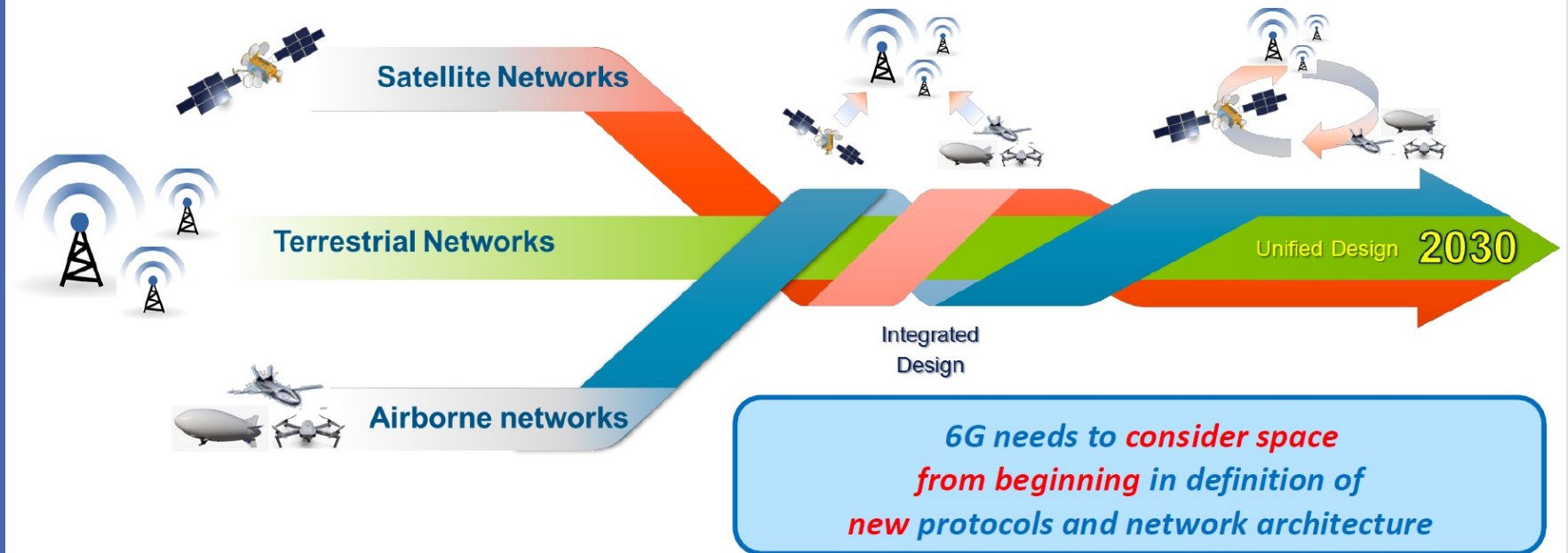
Convergence of networks is KEY



4G & Before
Little or No Integration

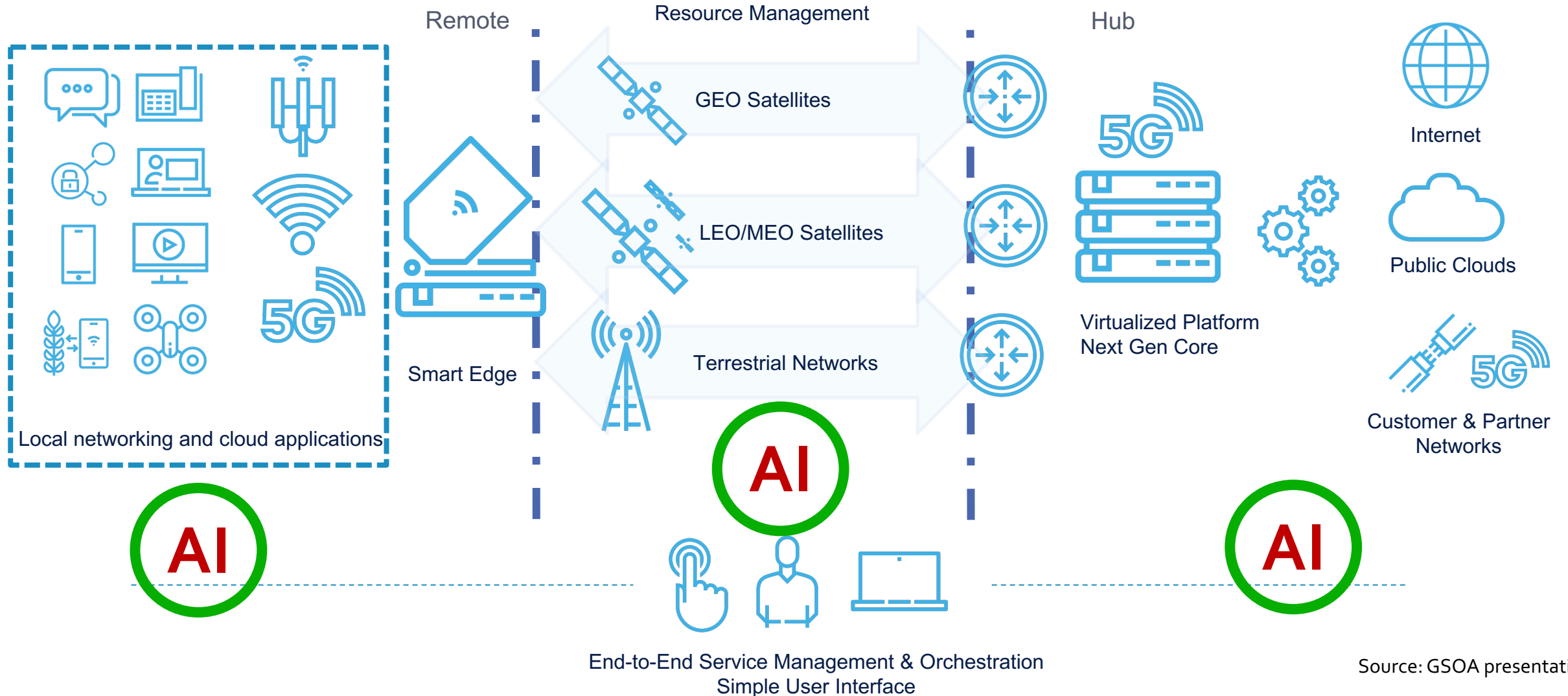
5G & B5G
Move towards Partial Integration

6G & beyond
Full Space & Terrestrial Integration

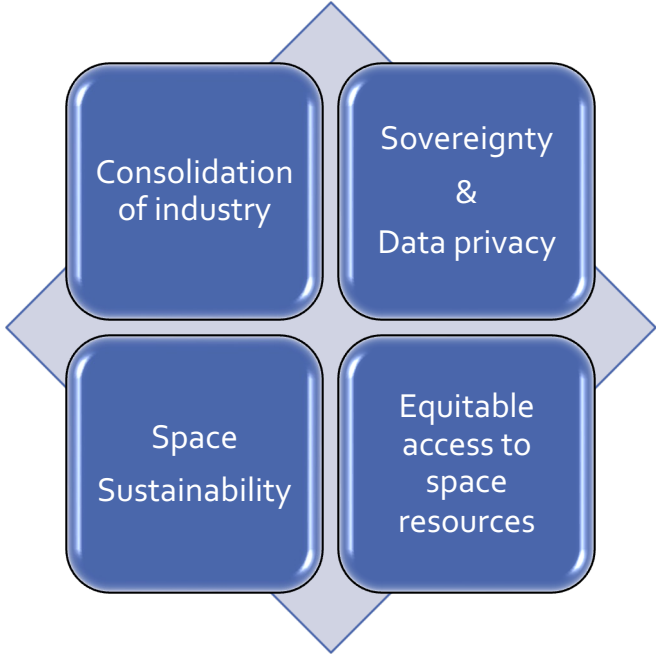
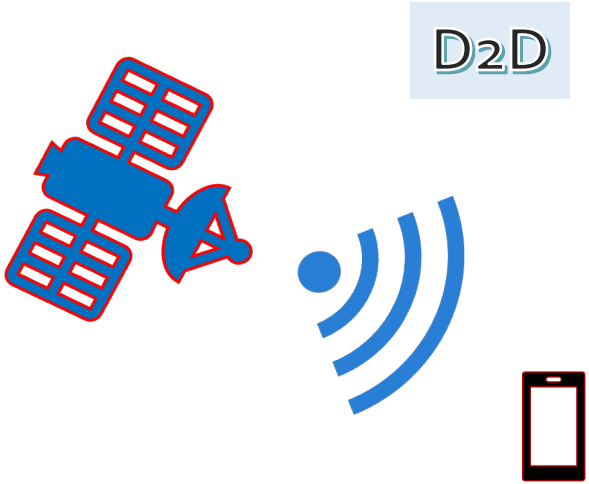


Architecture of the Next-Gen Networks

Multi-Orbit end-to-end system seamlessly integrated & interoperable based on standards



Hot topics



Government policies play a key role

- Implement comprehensive policies to address the digital divide and ensure universal service accessibility.
- Maintain technology-neutral objectives and policies, focusing on broader goals such as the expansion of broadband services without specifying particular technological solutions.
- Develop adaptable regulatory frameworks to facilitate the adoption of innovative technologies and service models.
- Foster a competitive telecommunications landscape, both domestically and internationally, by creating an environment conducive to market entry for domestic and foreign service providers.
- Prioritize digital inclusion through widespread connectivity initiatives, emphasizing coverage expansion over increased speeds in underserved areas.

**Past assets sustain
activities and
investments Today**

The diagram features a large blue arrow pointing from the list of government policies on the left towards a vertical stack of three boxes on the right. The top two boxes are white with teal borders, and the bottom box is a solid teal color. A long, narrow blue arrow points downwards along the right side of these boxes, indicating a sequential flow from past assets to today's decisions, and finally to the long-term success of the industry.

**Decisions made today
trigger actions and
what their impact will
be Tomorrow**

**The success of the industry
depends on a favourable,
stable and reliable
regulatory environment,
over the years to come**



Thank You

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