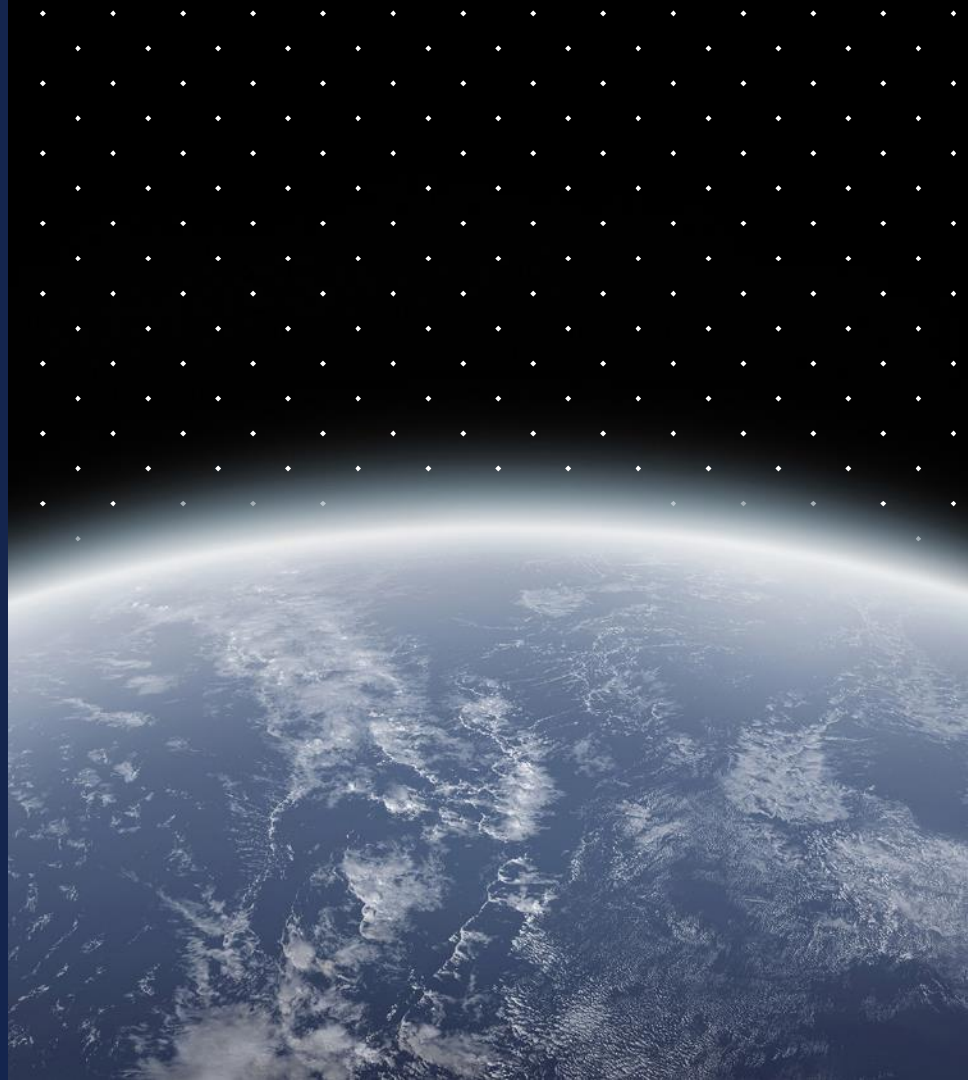




# WE HELP EARTH BENEFIT FROM SPACE

## TRENDS AND INNOVATIONS WITHIN SATELLITE DATA HANDLING

Linda Lyckman- SVP Business & Technology Innovation  
Space Innovation Forum 2020-09-29



# SSC SERVICE PORTFOLIO



SATELLITE GROUND NETWORK  
SERVICES



SPACECRAFT OPERATIONS  
AND ENGINEERING SERVICES



SCIENCE AND LAUNCH  
SERVICES

# TRENDS AND INNOVATIONS WITHIN SATELLITE DATA HANDLING



## SPACE INDUSTRY TRENDS



### SUSTAINABILITY

Use of space for the benefit of Earth is wide and the examples are uncountable

Space sustainability



### DIGITALIZATION

Digital technologies that utilizes data to deliver insight and create value

Automation, AI and ML applications



### DATA VALUE SERVICES

There is a large, untapped potential for development within data value-added services.



### ACCESS TO SPACE

More frequent, regular, and affordable access to space



### INTEGRATION OF SPACE & GROUND

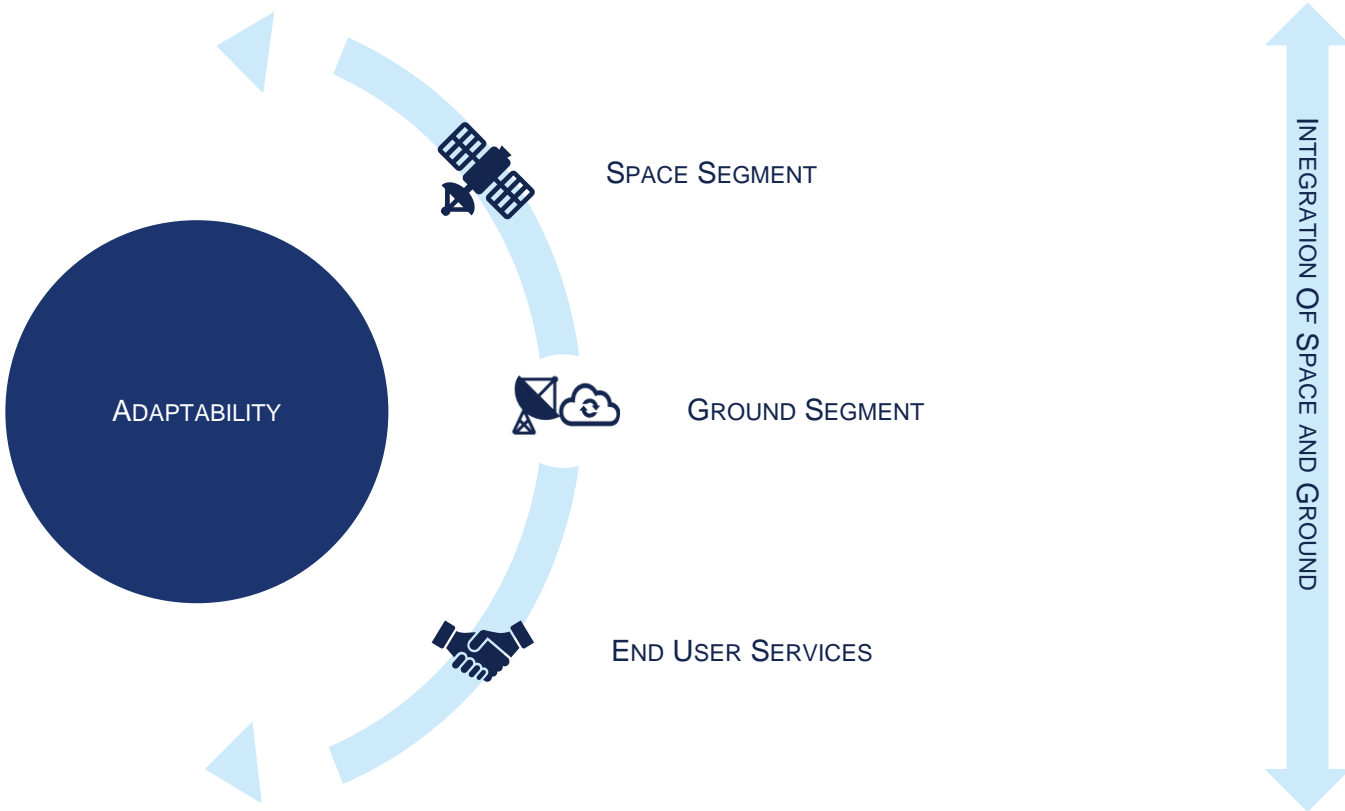
Focus on the end-to-end system delivery

New areas of opportunities, challenges and improvements

ADAPTABILITY → OPPORTUNITIES FOR INNOVATION

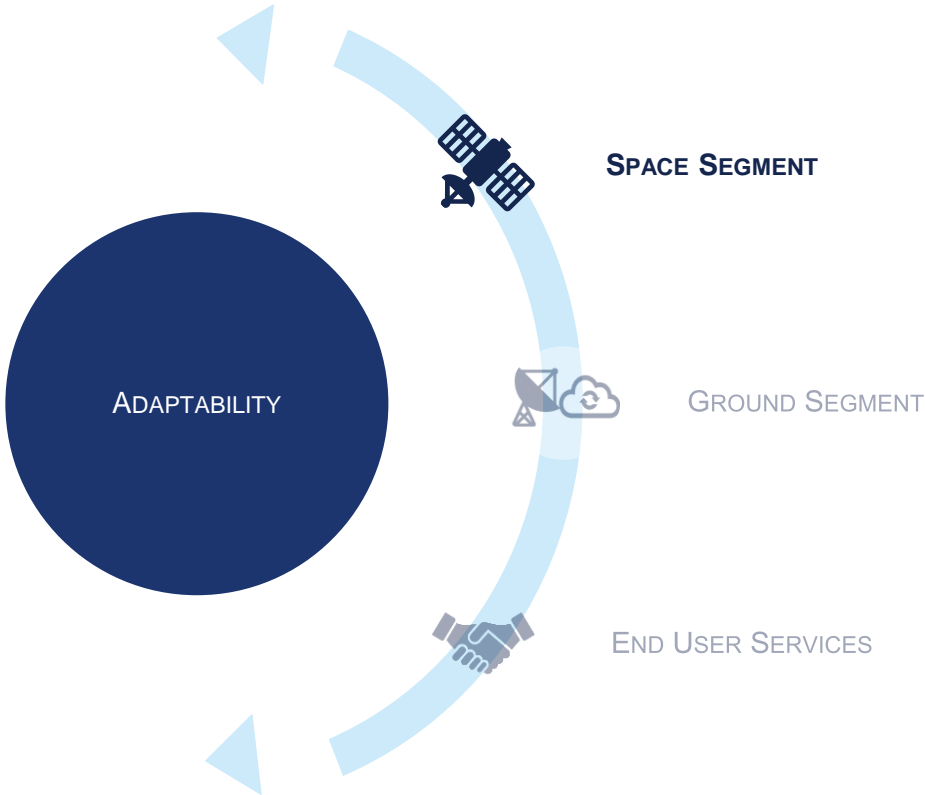
# TRENDS AND INNOVATIONS WITHIN SATELLITE DATA HANDLING

ADAPTABILITY IN MANY DIRECTIONS



# TRENDS AND INNOVATIONS WITHIN SATELLITE DATA HANDLING

## ADAPTABILITY IN MANY DIRECTIONS

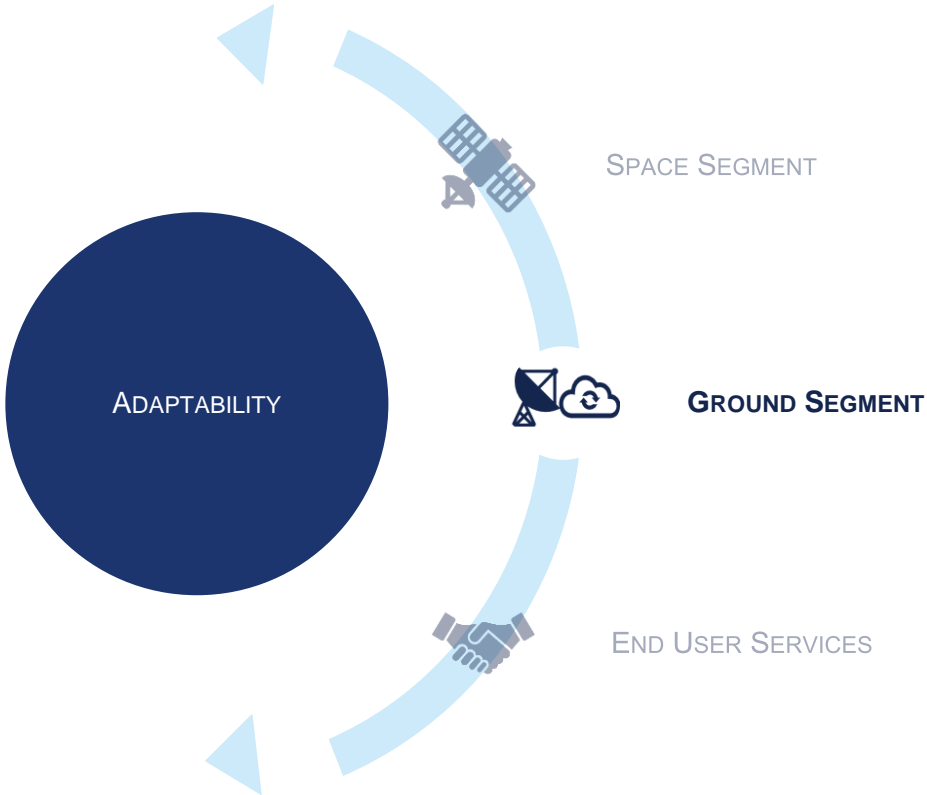


**Innovation in Space are affecting the entire industry**

- HTS
- Densification of satellites
- Multi band/orbit
- Mega Constellations
- Software-defined Payloads
- ...and much more

# TRENDS AND INNOVATIONS WITHIN SATELLITE DATA HANDLING

## ADAPTABILITY IN MANY DIRECTIONS



### Disruptions in Space requires innovation on ground

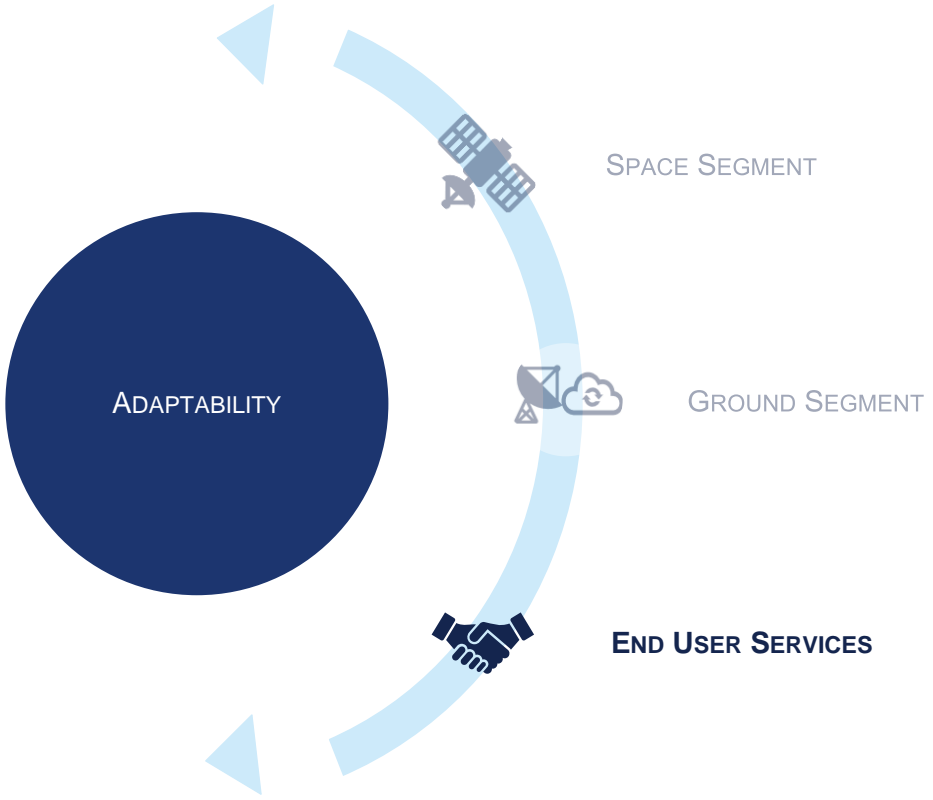
#### New Technology

- Higher frequencies/ Optical
- Antenna mutualization concept
- RF Digitizers
- SW Defined Radios

Extensibility and scalability of the virtual ground infrastructure

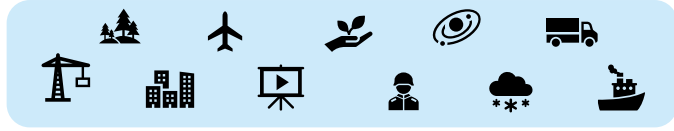
# TRENDS AND INNOVATIONS WITHIN SATELLITE DATA HANDLING

## ADAPTABILITY IN MANY DIRECTIONS



**Secure, reliable connectivity “anywhere, anytime”**

- Mobility
- Non-linear demand
- End-to-end services
- Increasing data usage
- Big data analytics
- End-to-end security systems



END USER VERTICAL SEGMENT

# BUSINESS & TECHNOLOGY INNOVATION



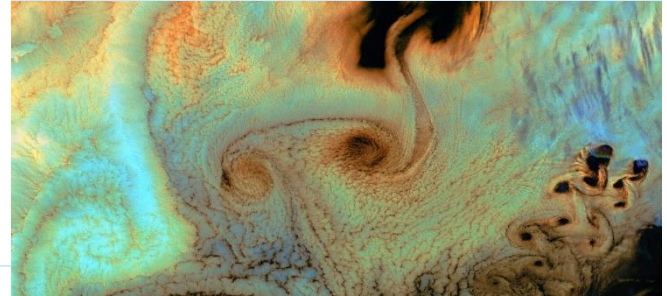
## Build a Competitive Service Portfolio and Sustainable Delivery Capability



Develop and Enhance **current** capabilities and services



Develop **new** capabilities and services



Being an **Innovative Thought Leader**



# BUSINESS & TECHNOLOGY INNOVATION

MEETING CURRENT & FUTURE CUSTOMER NEEDS



CURRENT SERVICE PORTFOLIO



SCIENCE AND LAUNCH SERVICES



SATELLITE GROUND NETWORK SERVICES



SPACECRAFT OPERATIONS AND ENGINEERING SERVICES

FUTURE NEEDS



CLOSING THE GAPS



TESTING REUSABLE SYSTEMS



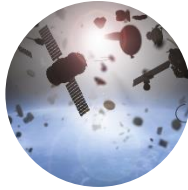
SMALLSAT LAUNCH



NEXT GEN GROUND SERVICES



SPACE EXPLORATION SERVICES



SPACE SURVEILLANCE & TRAFFIC SERVICES



DATA VALUE SERVICES

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