

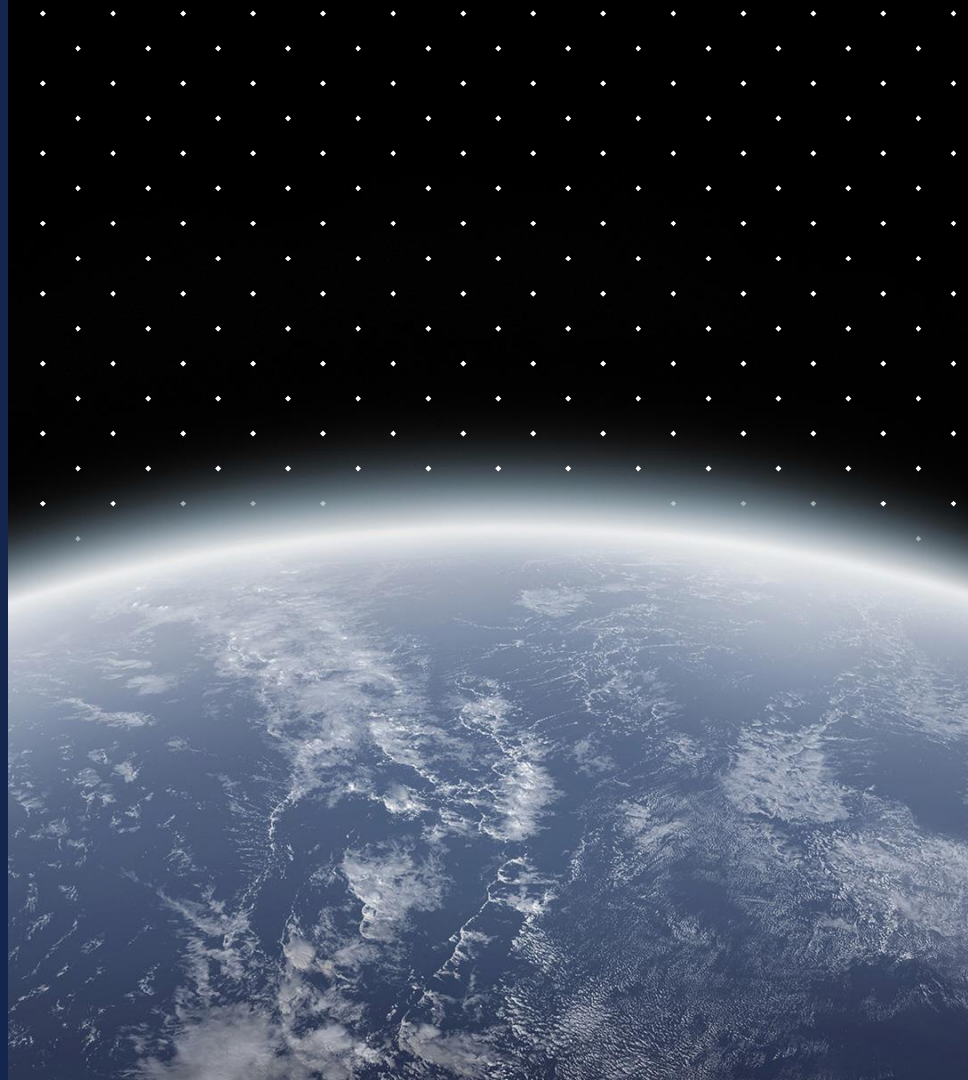


WE HELP EARTH BENEFIT FROM SPACE

SSC INTRODUCTION

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2019-09-17







SSC WORLDWIDE



500 Employees
25 Nationalities
20 Locations
10 Countries

SOME OF OUR CUSTOMERS AND PARTNERS



Rymdstyrelsen
Swedish National Space Agency



DECADES OF EXPERIENCE



- Space operations services **since 1958**
- Collaborative **partner** to the world's space agencies and organizations
- **Enabler** of new government and commercial space endeavors
- **Owner/operator** of one the world's largest multi-mission ground station network
- Actively engaged in customers' **mission-critical** spacecraft operations every day



BUSINESS AREAS



Science & Launch Services



Satellite Ground Network Services



Spacecraft Operations & Engineering Services





SCIENCE & LAUNCH SERVICES

SCIENCE & LAUNCH SERVICES



- Sounding Rockets
- Stratospheric Balloons
- Autonomous Systems
- Ground Instruments
- Payloads & Systems
- Scientific support
- Test & Validation
- Software Development
- Small Satellite Launches



ESRANGE

THE MOST VERSATILE SPACE CENTER IN THE WORLD



SCIENCE & LAUNCH SERVICES



Sounding Rockets



Technology Demonstrations

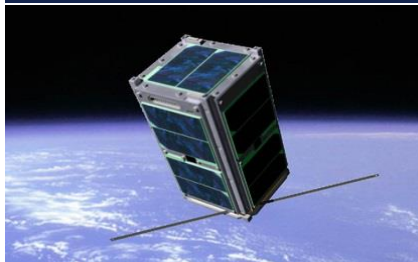


Stratospheric Balloons



Reusability Test-Bed

UNDER DEVELOPMENT



Launching of Small Satellites

SATELLITE GROUND NETWORK SERVICES



Satellite Ground Network

A wide-angle satellite view of Earth from space, showing the curvature of the planet and the horizon. The sun is visible on the left side, creating a bright glow and lens flare effect. The Earth's surface is shown in shades of blue and white, with visible cloud patterns and geographical features like rivers and lakes. The text "SATELLITE GROUND NETWORK SERVICES" is overlaid on the right side of the image in a white, bold, sans-serif font.

SATELLITE GROUND NETWORK SERVICES

SATELLITE GROUND NETWORK SERVICES



- Launch Support Services
- On Orbit Services
- Hosting Services
- Satellite & Network Operations
- Gateway Services
- Teleport & Media Services
- Data Handling & Processing
- Consulting & Mission Engineering



SSC GLOBAL NETWORK OF GROUND STATIONS

GLOBAL CONNECTIVITY FOR SPACE OPERATIONS



One of the world's largest multi-mission tracking networks

SSC GLOBAL NETWORK OF GROUND STATIONS

GLOBAL CONNECTIVITY FOR SPACE OPERATIONS

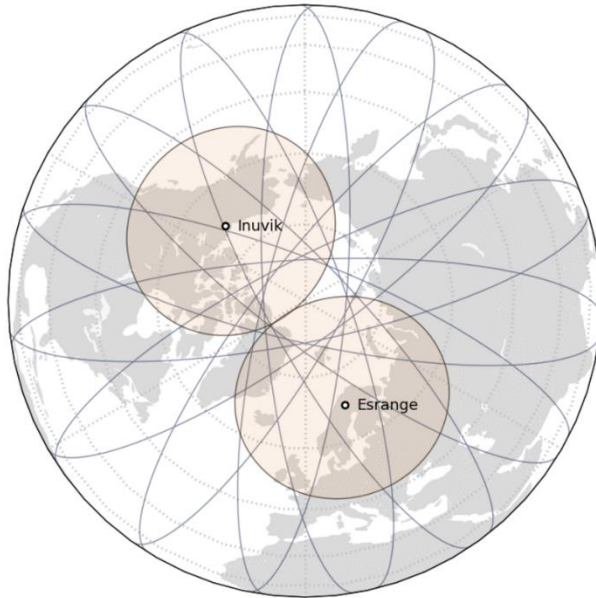


One of the world's largest multi-mission tracking networks

ARCTIC COVERAGE IMPLEMENTATION



The SSC Inuvik station in Canada was established in 2010 to complement the Kiruna station, at same latitude and with 180° separation.

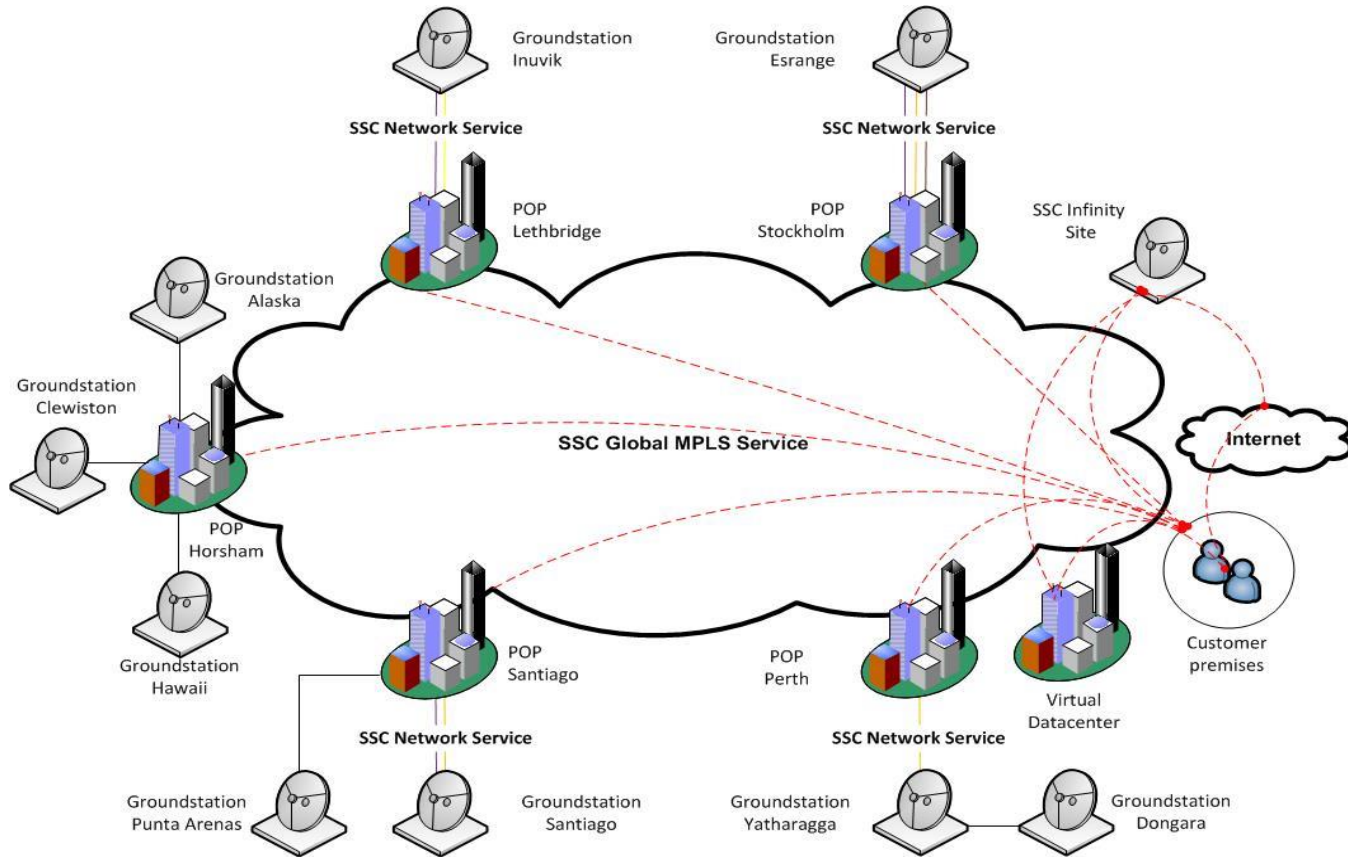


- The geometry and separation gives a favorable solution to download more data by avoiding overlapping coverage.
- Allows for data downloads that are non-intrusive with respect to many imaging areas.
- Mitigates RF-interference issues from simultaneous X-band downlinks closer to the North Pole.
- A reliable solution for high availability and flexible scheduling of redundant resources, a requirement for Ka-band and future optical communication.

The two sites are operated together by SSC, as one site, with the load shared seamlessly.

SSC CONNECTIVITY

ONE CONNECTION INTO SSC GLOBAL NETWORK – ACCESS TO ALL SERVICES



A wide-angle satellite view of Earth's surface, showing a vast expanse of land and water. The terrain is rugged and mountainous, with several large blue lakes and rivers visible. The sun is shining from the left, creating a bright glow and casting long shadows across the landscape. The horizon is visible in the distance, with a thin layer of atmosphere above it.

SPACECRAFT OPERATIONS & ENGINEERING SERVICES

ENGINEERING SERVICES



- **Complete Space Consultancy services at Europe's largest space organizations**
 - ESA
 - DLR
 - CNES
- **Support during every phase**
 - from designing and testing
 - through to launch and operations



Support throughout



Satellite & Spacecraft Operations



Ground Segment Infrastructure



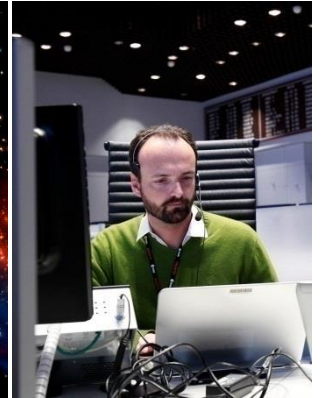
Systems Engineering



Training & simulations



Mission Assessment & Engineering



Independent Consultancy

CURRENT IOAG-SSC CONTEXT



- TODAY:
 - Agency cross-usage of infrastructure
 - Agency mission support
 - CCSDS Observer
 - Usage and implementation in operations
 - SFCG member
- Other Topics of interest within IOAG discussions:
 - OSLG follow-ups
 - DTN
 - LEO26SG follow-ups

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www.sscspace.com