Esrange – The most versatile space center in the world. New Services to enable a sustainable future

Stefan Gustafsson, 2022-06-02
WE HELP EARTH BENEFIT FROM SPACE

- Managing climate change
- Climate and ecology research
- New materials, medicines, technologies
- Regional and global development
- Forestry
- Agriculture
- Shipping and fishing
- Maritime safety
- Ecosystem
- Carbon dioxide emissions
- Water and water supply
- Crisis management
- Community planning
- Migration
- Nature and environment
- Ecological diversity
- Security and defense
- Health
- Transport
- Energy
- Research and technology
- Melting of the polar ice
BUSINESS DOMAINS
LEADING GLOBAL PROVIDER OF ADVANCED SPACE SERVICES

Science & Launch Services
Satellite Ground Network Services
Spacecraft Operations & Engineering Services
Data Analytic Services

SSC’s public mission  SSC’s commercial mission
SSC WORLDWIDE

~680 Employees
20 Locations
10 Countries
1,2 BSEK Revenue
GLOBAL GAME CHANGE THROUGH SPACE

Rapid development embracing most societal activities

Earth Observation
Multisensor constellations: Close to real-time information of the planet’s land, oceans and atmosphere. Intensive global collaboration

Positioning & Navigation
Global Navigation Systems coexist and compete to provide accuracy and resilience

Communication
Satellite Constellations: Global access to internet, enabling a sustainable big world on our small planet.

Exploration
New cost-effective technology provide new opportunities to use and explore Space for the benefit of Earth

Space is today a part of most societal functions enabling a more sustainable global development
Esrange Space Center
THE MOST VERSATILE SPACE CENTER IN THE WORLD

Sounding Rockets
- Aurora and Atmospheric Science
- Microgravity and Atmospheric Reentry
- Student Missions
- Rideshare Missions Suborbital Express

Stratospheric Balloons
- Circumpolar Balloon Flights
- Mobile Ballooning
- Student Missions
- Drop Tests

Testbed Esrange, Operational since 2021
- Horizontal Teststand
- Vertical Engine Teststands
- Vertical Stage Teststands
- Reusability
- Planetary Landers

SmallSat Express
- Spaceport Services 2023
- Satellite Launch Service Provider
The SSC SSA Program, part of AWARE

- **Data-Sharing Agreement with USA (NORAD) since 2018**
- Sensor development ongoing in Sweden and Australia, Germany (DLR) partner, connecting southern and northern hemisphere

- Other collaborations: Removal of Space Debris

### Timeline

- **Service development**
- **2022**
  - Sensor hosting
- **2023**
  - Initial service provision
- **2024/2025**
  - Initial service offering to commercial customer

---

Radar coverage from Esrange
Using the power of satellite data to guide organizations worldwide to develop and deliver sustainability strategies and services.

Global Challenges
Driving New Markets

- Responsible Business
- Sustainable Investment
- Public Policy Delivery

Trusted Insights

Using satellite and other geospatial datasets with state of the art analytical techniques to create independent sustainable insights.

Application Examples

- Planning investments into local communities
- Supporting government land management
- Monitoring supply chains
- Monitoring critical infrastructure