

# Swedish National EO- programmes

**Tobias Edman**

Head of Innovation and public benefit

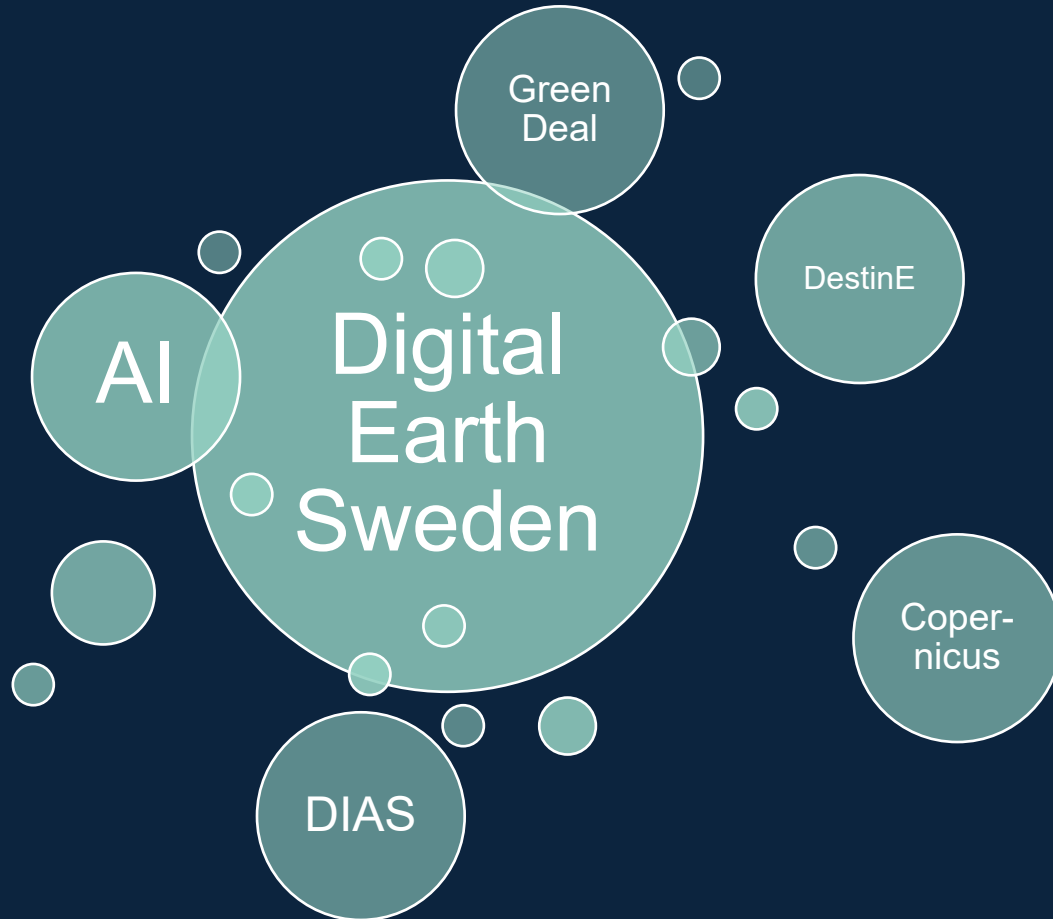


# EO for SDG:s with focus on data and missions

Sustainable communities,  
industries, innovation and  
infrastructure



# Digital Earth Sweden –European perspective

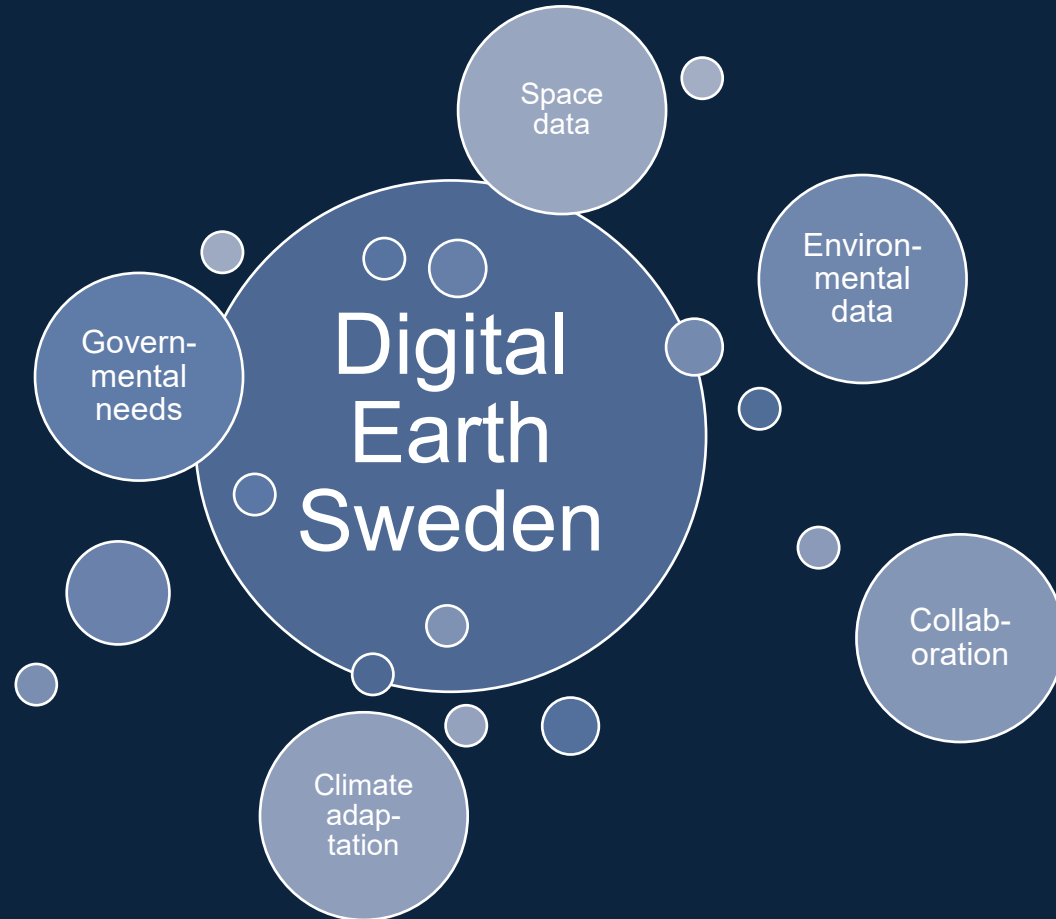


Swedish National  
Space data lab

Evolving as part of ESA  
Φ-lab net

Collaborative plattform

# Digital Earth Sweden – National focus



National capacity

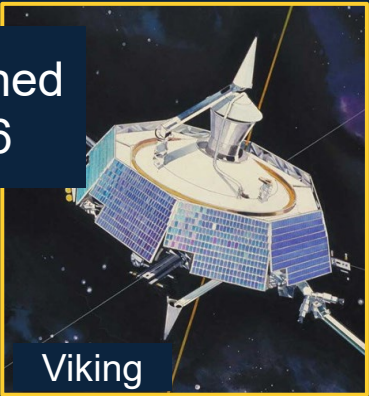
Workbench for EO data

Common tools

Processing and storage

# Swedish Space Missions

Launched  
1986



Viking



Freja



Astrid

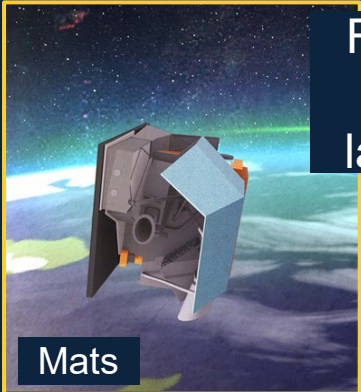


Astrid II



Odin

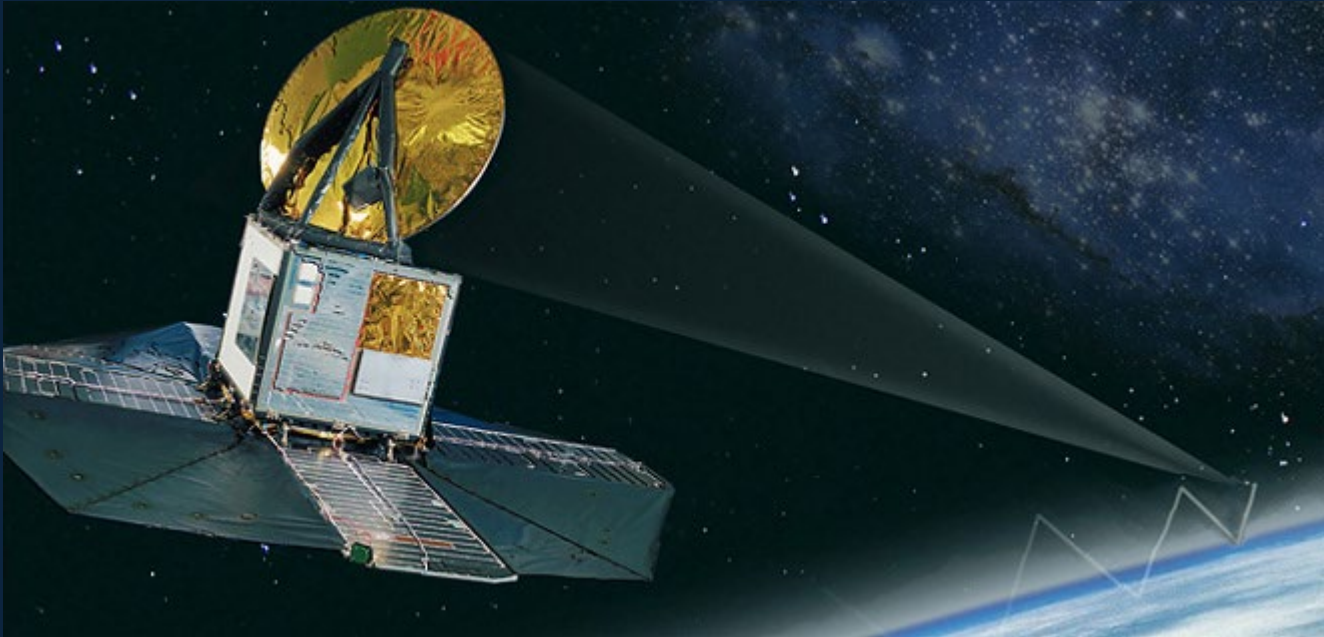
Over  
20 year  
on duty



Mats

Ready  
for  
launch

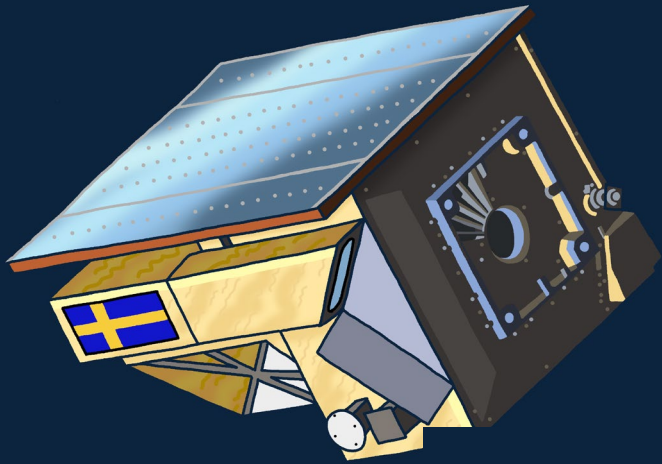
# Odin – Swedish led satellite in cooperation with Canada, Finland and France



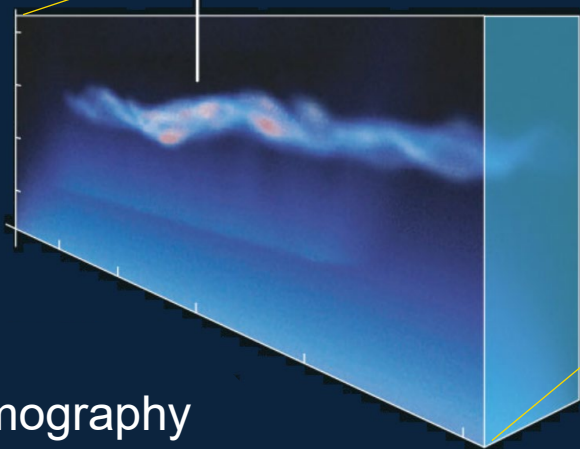
Atmospheric data series collected over  
>21 years

- Launched on 20 February 2001, still operational
- Two instruments onboard - Canadian OSIRIS and Swedish SMR
- ESA Third Party mission
- > 400 Articles published

# MATS (Mesospheric Airglow/Aerosol Tomography and Spectroscopy)



Noctilucent clouds



3D tomography



# Paving the way for Arctic Weather Satellite (AWS) part of the Earth Watch Programme



“This prototype is the forerunner of a potential constellation of satellites that would supply an almost constant stream of temperature and humidity data from every location on Earth – allowing, for the first time, for very short-range weather forecasting, or ‘nowcasting’, in the Arctic. Meteorologists will also use the mission to improve weather forecasts around the world.”

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