



SWEDISH
SPACE
DATA LAB

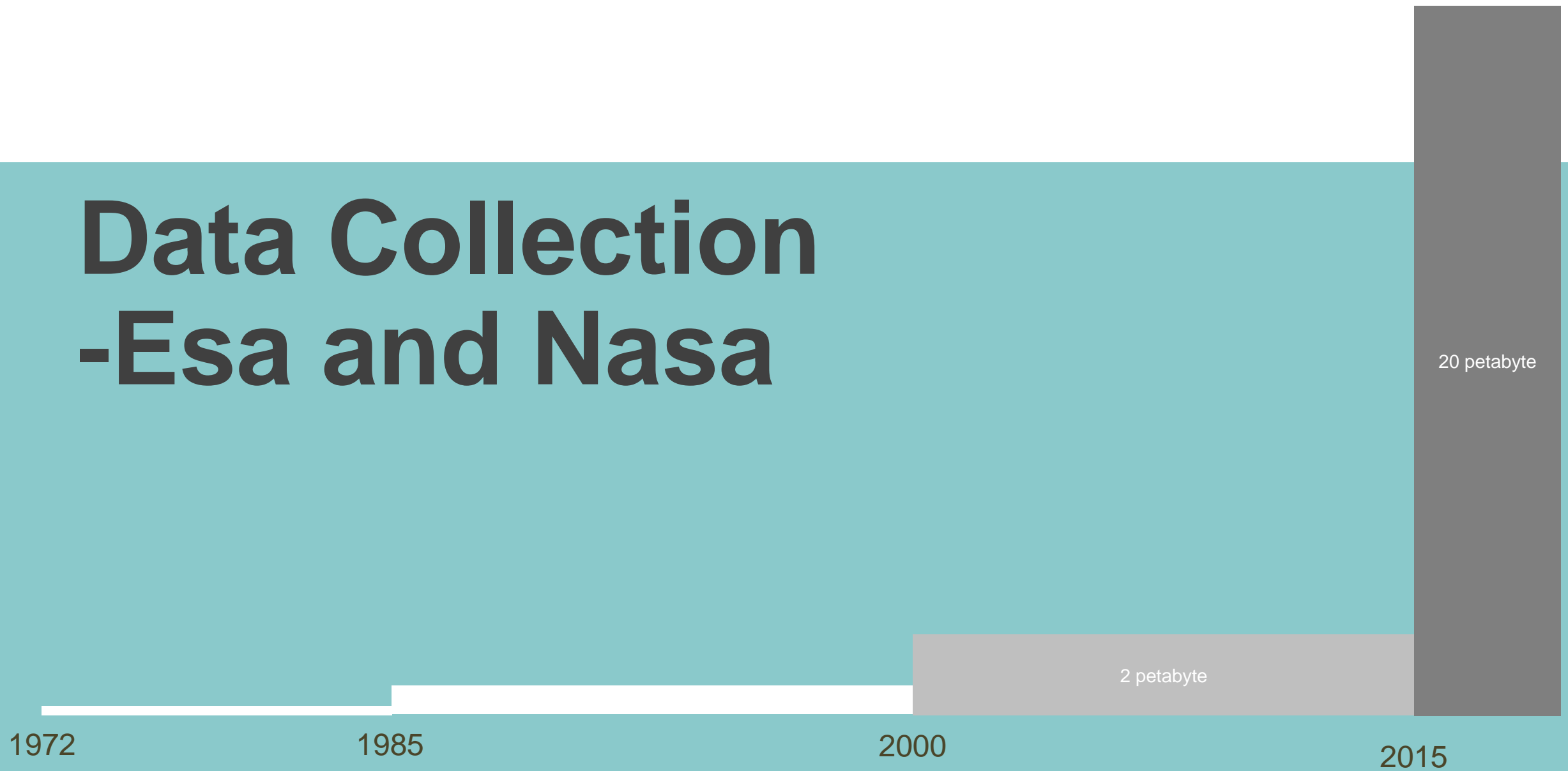
Swedish National Space Data Lab

Tobias Edman, Innovation and Public Benefit
Swedish National Space Agency

Swedish National Space Agency

Coordination of space and earth observation activities,
Distribute space support to space research, technological
development and earth observation activities,
Promote adequate information and data handling within the
space and earth observation sector.

Data Collection -Esa and Nasa



Swedish National Space Data Lab

Within:



Powered by:



OPEN
DATA
CUBE

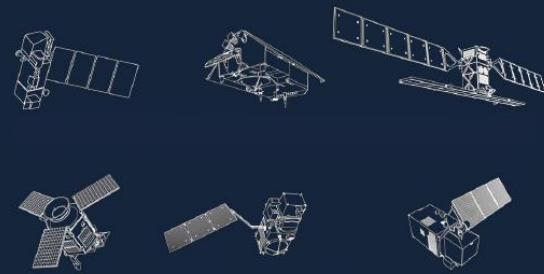
In cooperation with:



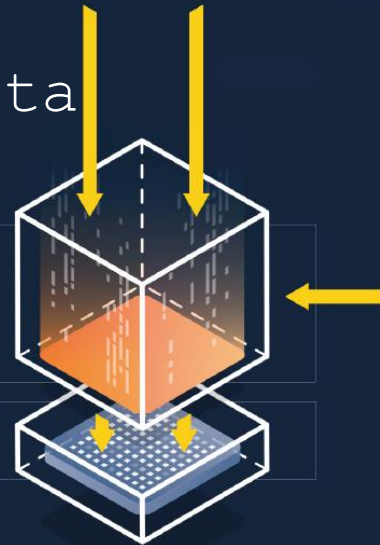
Co-financed by:



S



Space Data



Data Cube

Data is sorted
indexed and made
ready for analysis

Analysis ready
data and
analysis
interface

Climate Data
Geodata
Socio economic
data
Trends
Productivity
...

Information for decision
support and presentation



Open data and open development

Free and Open Data from the Copernicus programme is the fundament

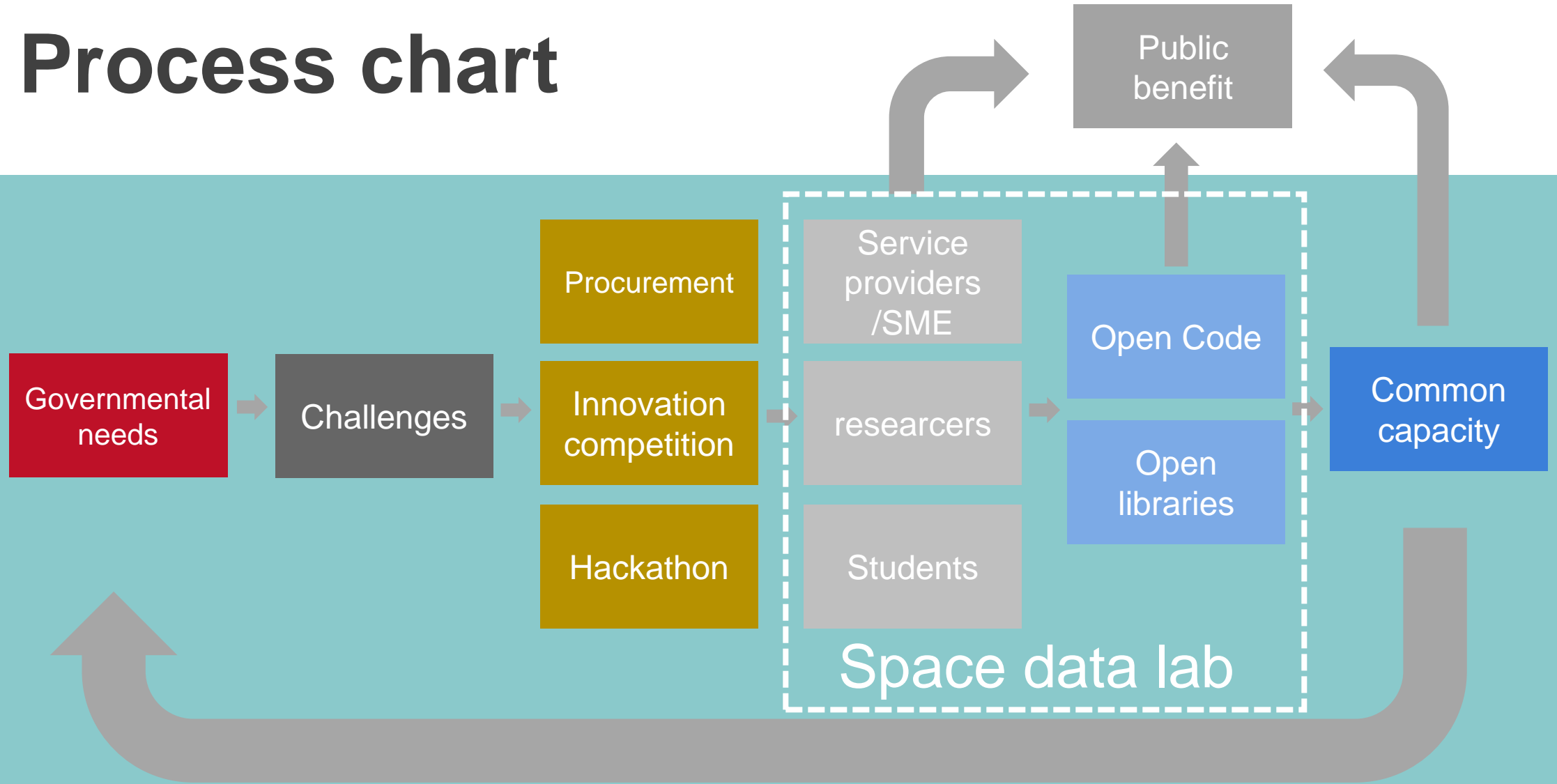
Development with Open Source Code

Results and Code are published in the open domain



**open source
initiative[®]**

Process chart



Pilots

Vegetation in Vänern

Drought in Lake Mälaren region

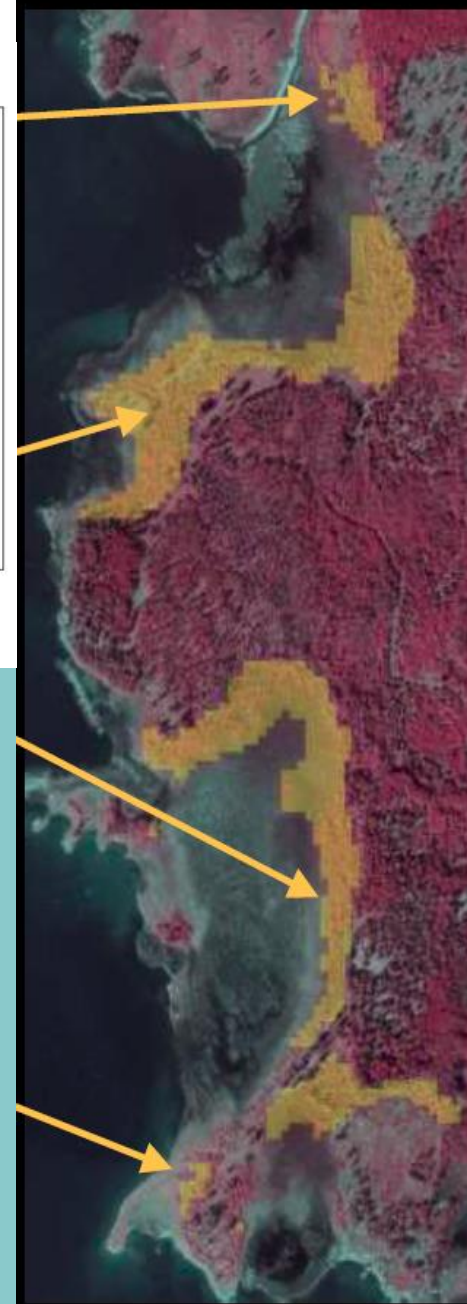
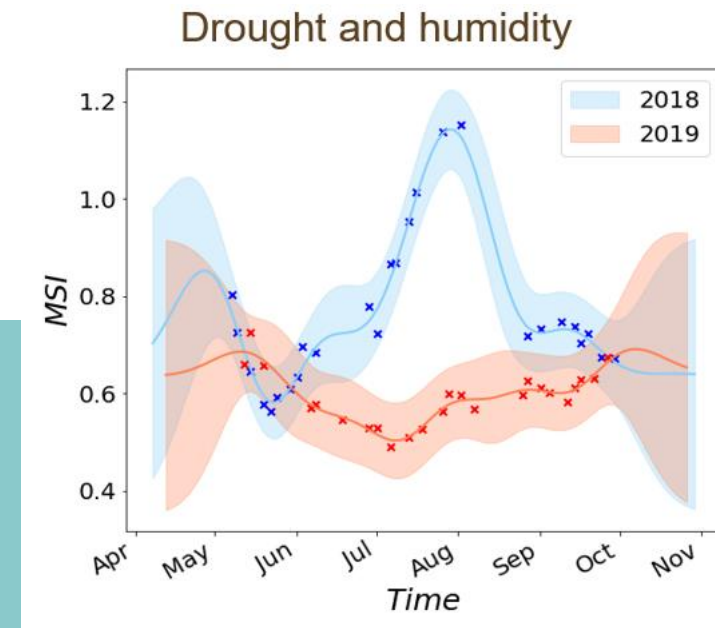
Vegetation mapping in shallow waters

Water quality

Change in coastal zones

Bark beetle infestation

FPA-CUP algorithms to executable code



Agency cooperation Copernicus

Myndighetssamverkan Copernicus:

MSB Myndigheten för samhällsskydd och beredskap

NATUR VÅRDS VERKET

SGI Statens geotekniska institut

SGU Sveriges geologiska undersökning

SJÖFARTSVERKET

FÖRSVARSMAKTEN

Havs och Vatten myndigheten

SJÖFARTSVERKET

Jordbruks verket

Rymdstyrelsen Swedish National Space Agency

SKOGSSTYRELSEN

LANTMÄTERIET

SCB Statistiska centralbyrån Statistics Sweden

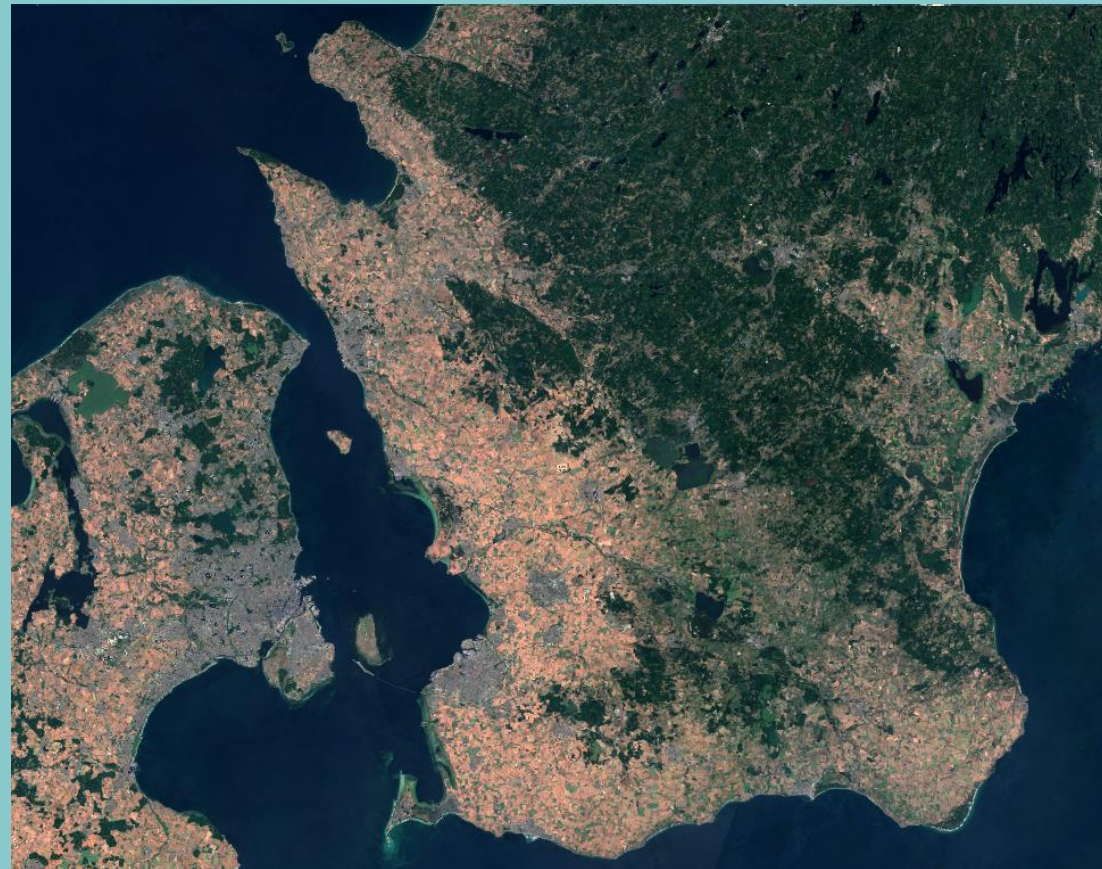
SMHI

Climate change and Global development goals

The Government of Sweden suggests in the latest budget bill an increase in the spending by the Swedish National Space Agency on data exploitation for research on climate change and the Sustainable Development Goals, from 3 to 9 M€ in the coming three years.

The Swedish Space Data Lab will be an important asset in this effort.

Drought, South Sweden

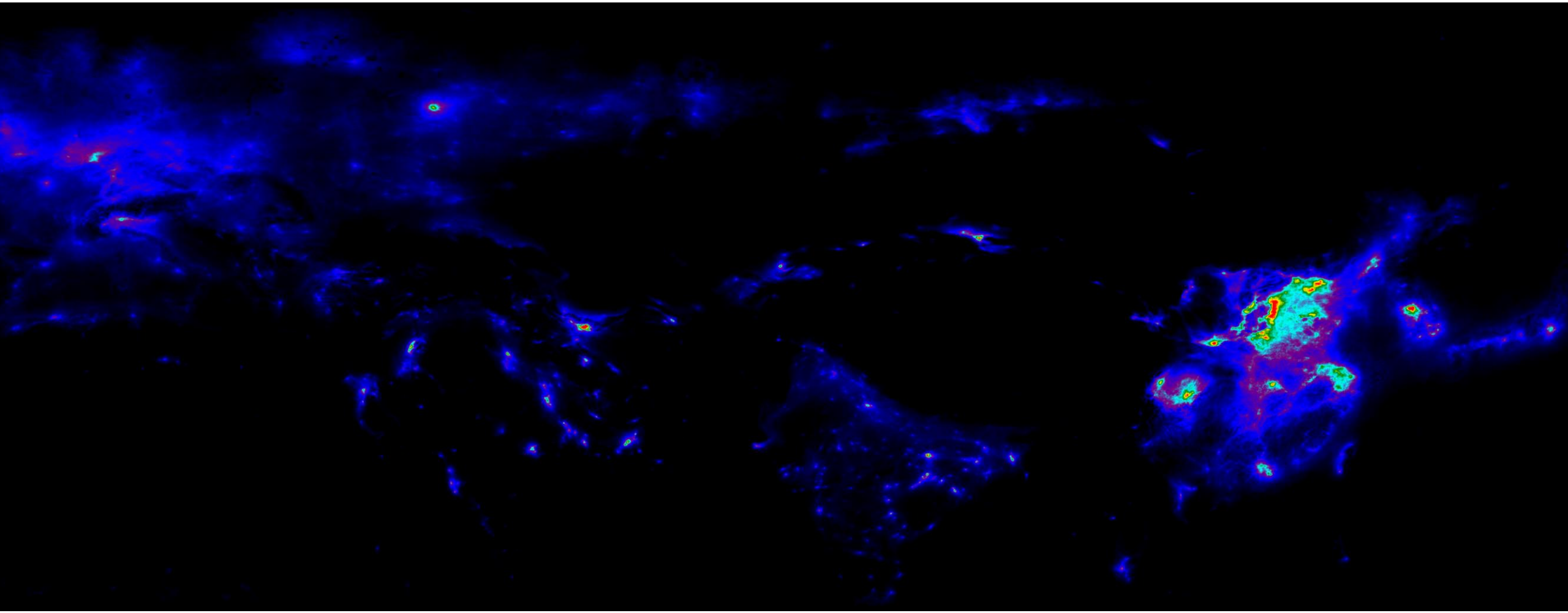


2017

2018

2019

Nitrogen dioxide, Europe and Asia

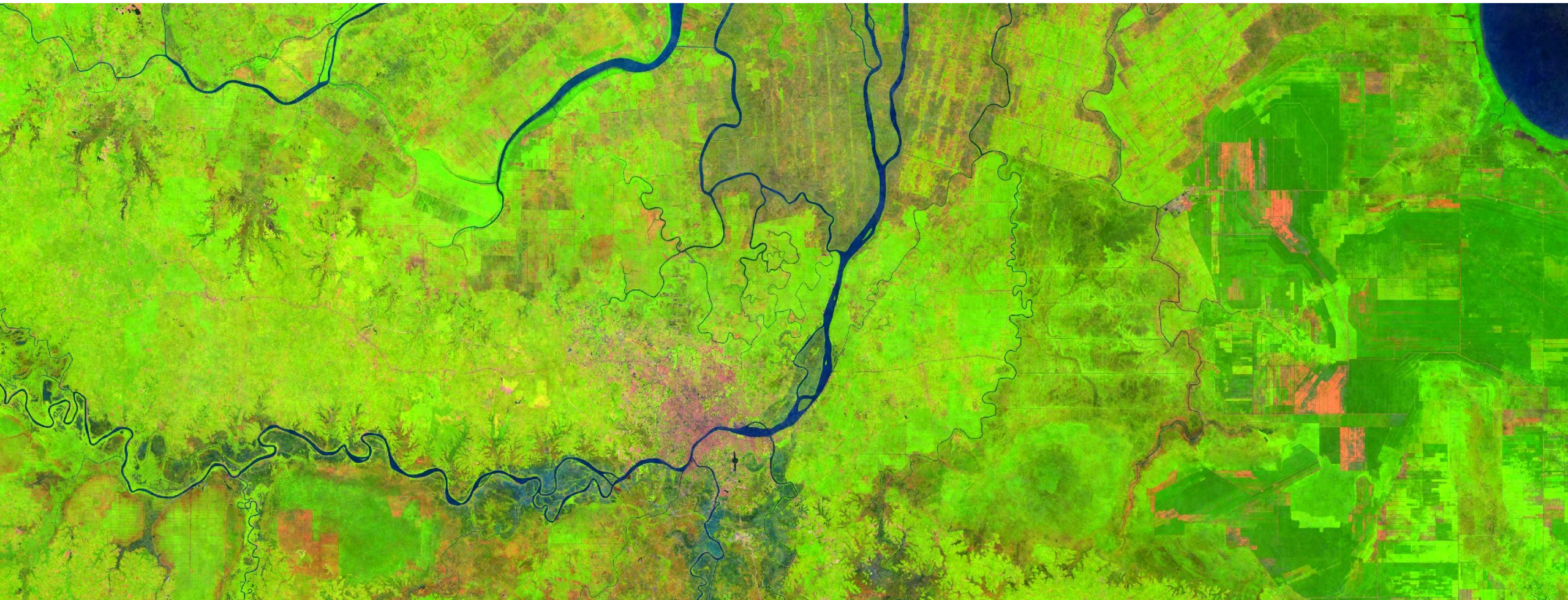




Lagan eustarie



Space data for transparency, Sumatra

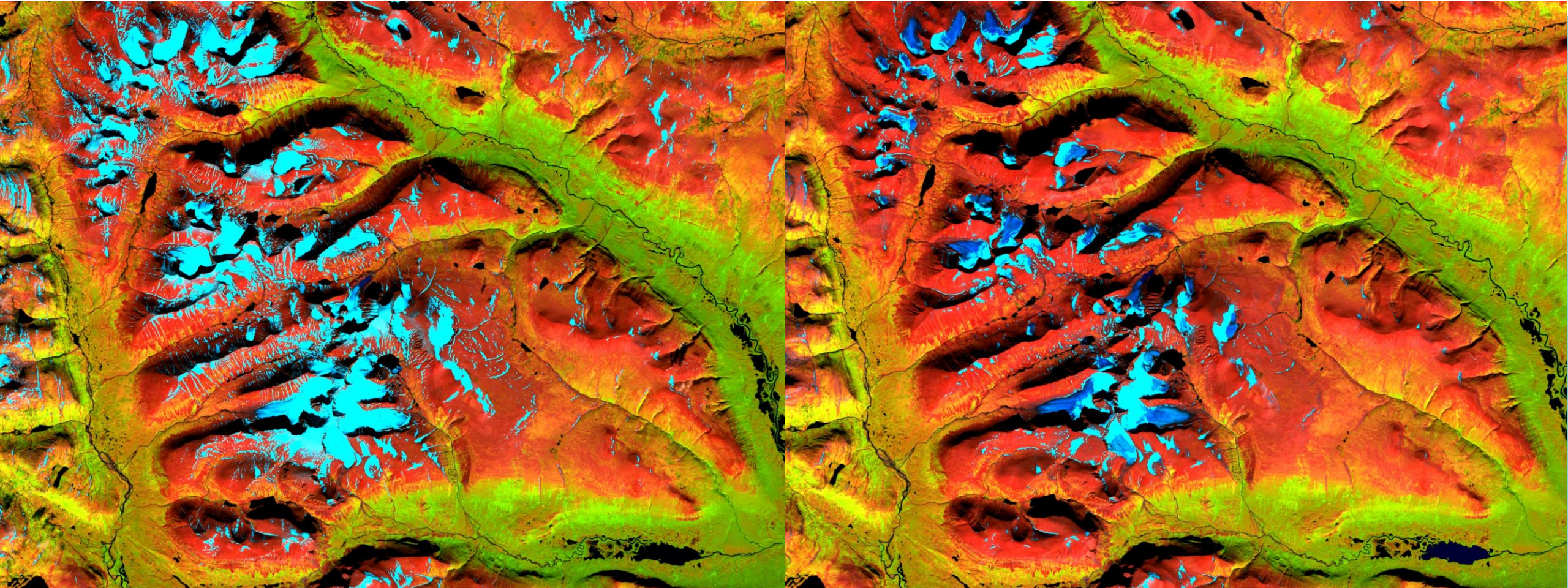


Greenness of Cities

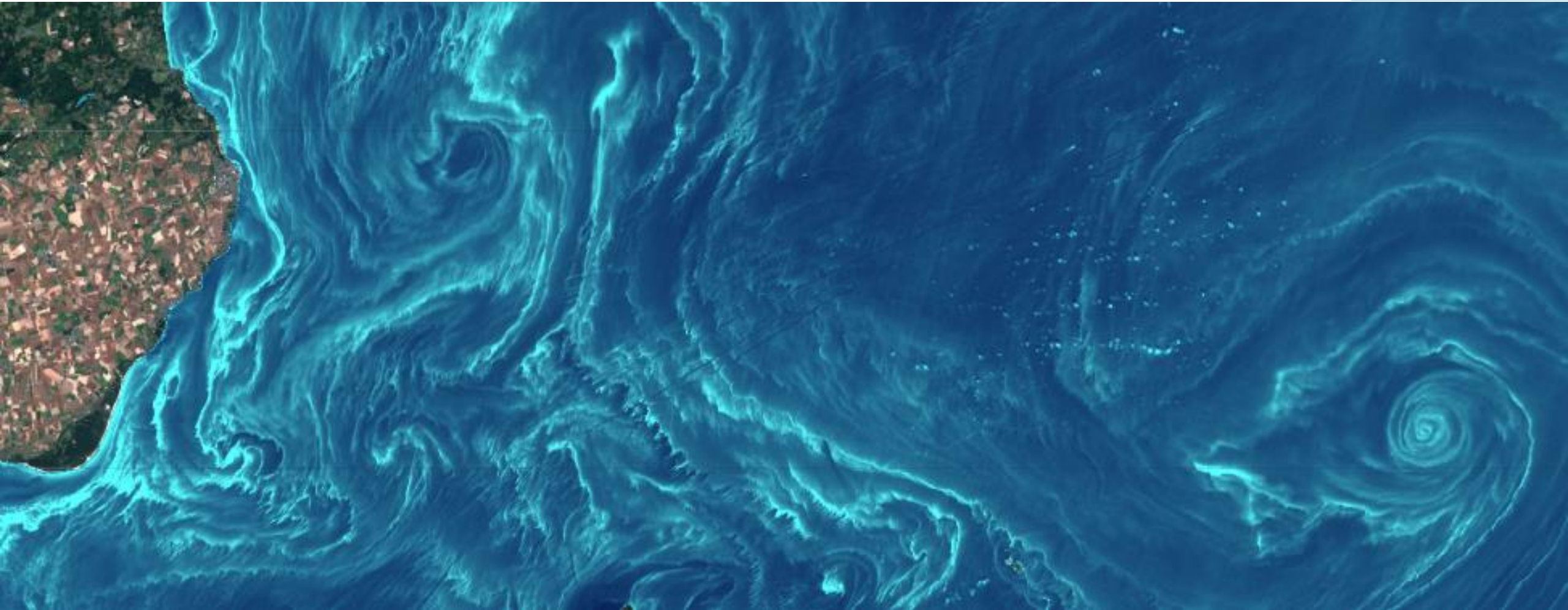




Melting glaciers, Northern Sweden



Algal blooms in the Baltic Sea





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