

# GHG observations from Space – the ESA-Japan cooperation

Frank Martin Seifert  
European Space Agency  
Climate Action, Sustainability and Science Department



# Historic & long-lasting partnership



→ ESA & Japan →

a continuously growing, strong collaboration

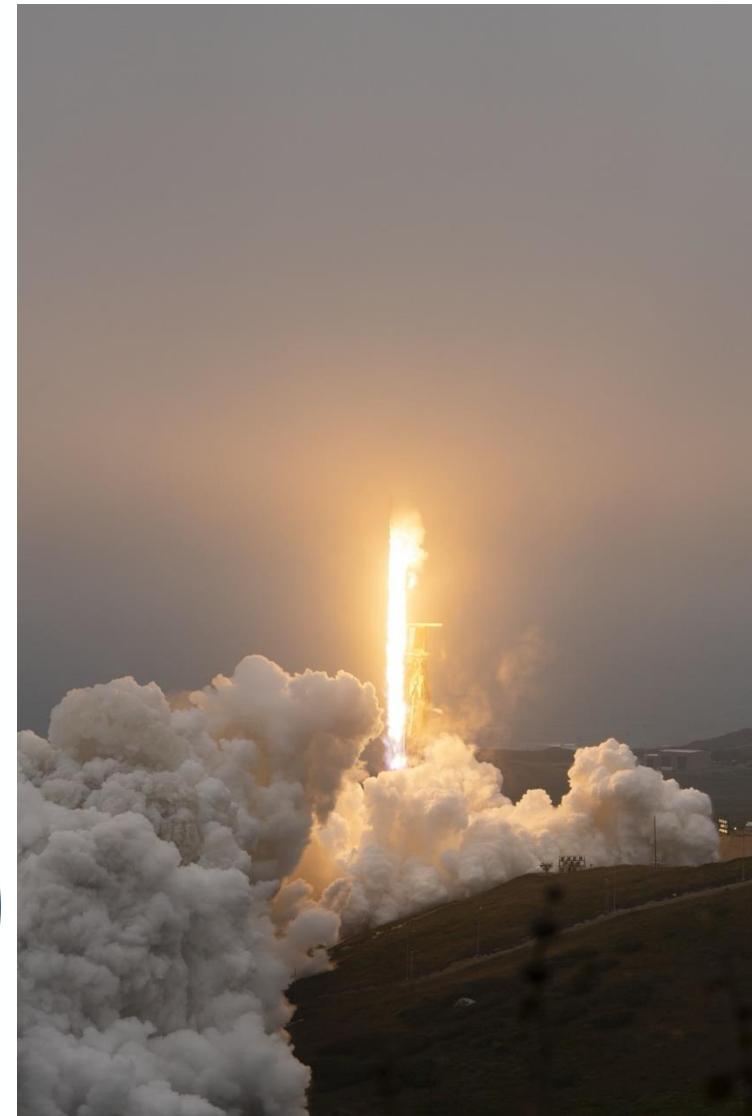
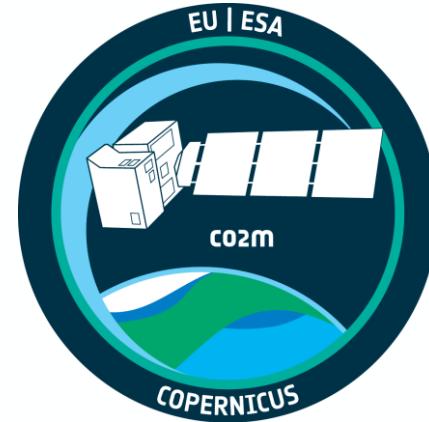
EU-Japan **Copernicus** cooperation group  
with strong focus on greenhouse gases



ESA-JAXA collaboration resulted in 2024 in the launch  
of the joint **EarthCARE** mission

JAXA represented in Mission Advisory Group of the  
**Copernicus CO<sub>2</sub> Monitoring Mission**

In 2024, we jointly signed the **Framework  
Agreement** for strategic partnership on  
climate action



Joint efforts in engaging with **IPCC, UNFCCC & COP**

ESA & JAXA strongly collaborate internationally, like  
in **Committee on Earth Observation Satellites**

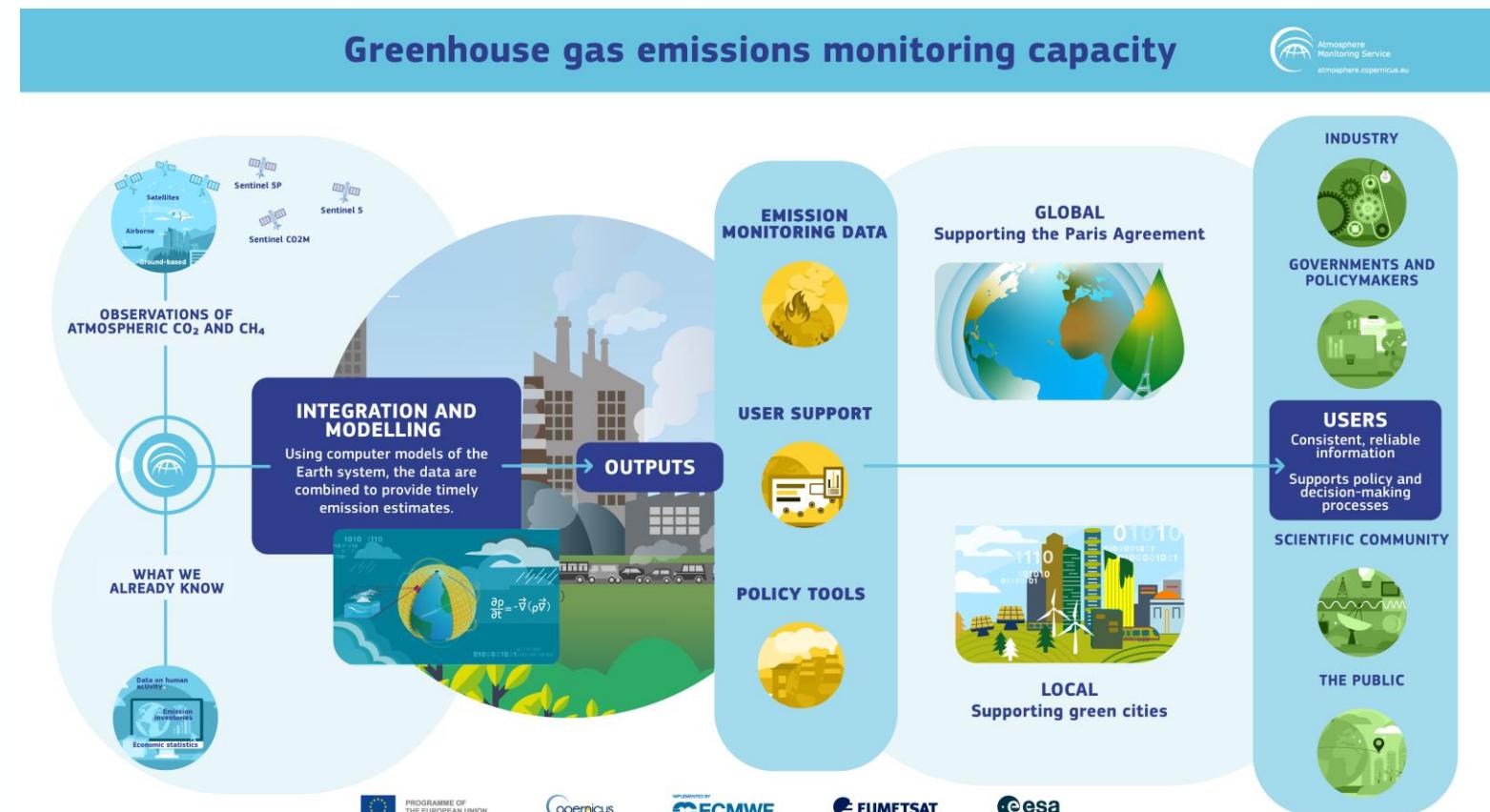
JAXA was 2024-2025 chair of CEOS Strategic  
Implementation Team and ESA strongly supported the  
JAXA priorities on GHG Monitoring and Climate Action

Jointly with NASA, we circulated the annual workshop on  
GHG from space between Europe, Japan and Americas



Japanese & European teams closely collaborate to maximise the usage of greenhouse gas products from GOSAT-GW and Copernicus (Sentinel-5P, Sentinel-5, CO2M)

New development of Japanese GHG Center will be strongly supported with European expertise





biomass  
cci

# Biomass from Space



- Version 6 with global AGB maps in 2007, 2010 and annually from 2015 to 2022 in cooperation with



- Consistency: a decade of change





living planet  
symposium | VIENNA  
25–27 June 2025

ESA – JAXA  
Framework Agreement for a  
Strategic Partnership on Climate Action  
Signature Ceremony  
25 June 2025

FROM OBSERVATION  
TO CLIMATE ACTION  
AND SUSTAINABILITY  
FOR EARTH

#LPS25

