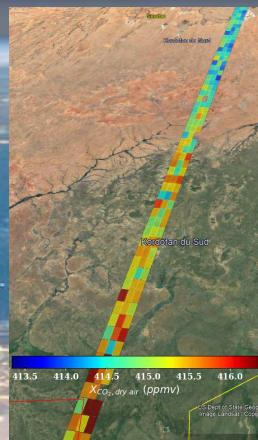
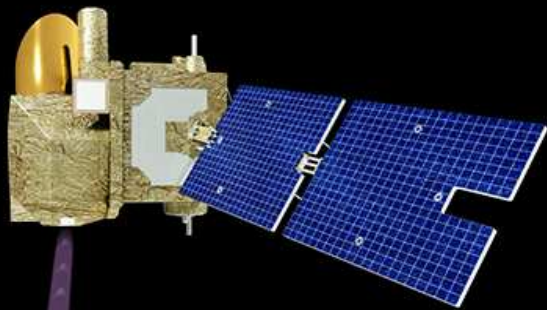


## Status of CNES programme on GHG

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# MICROCARB for Global observations of atmospheric CO<sub>2</sub>



A small (<80kg) & innovative instrument in Space in 2024/25

A high précision of 1 ppm ( $> 0.2\%$ ) on XCO<sub>2</sub>

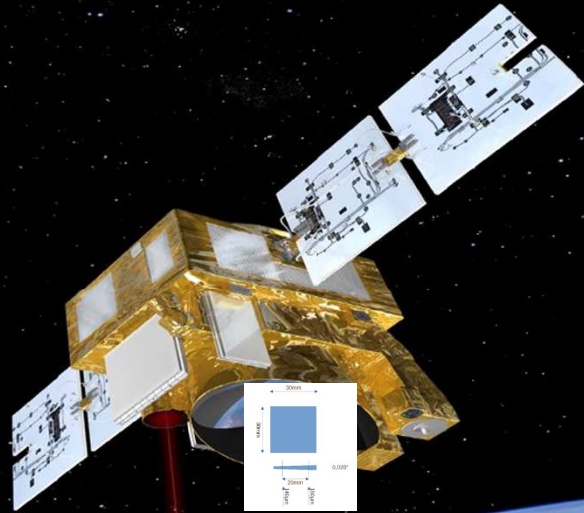


- The instrument is now integrated on the PF and is under the final Thermal Vacuum tests
- Satellite qualification review by December 2023
- Ready to fly from March 2024
- Discussion ongoing for the launch due to failure in VEGA-C initial plan
- Next performance Budget early 2024

# MERLIN for global observations of atmospheric CH<sub>4</sub>

MERLIN, MEthane Remote Sensing Lidar Mission

DLR



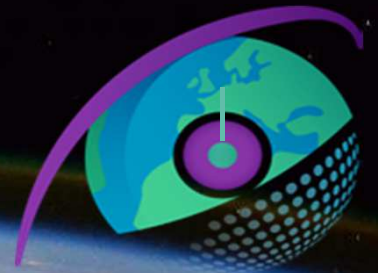
- French-German Scientific meetings to address processing and validation (and spectroscopy)
- CNES integration of the PF was successfully done in 2023
- DLR integration of the laser is ongoing and FM delivery expected in 2024
- Integration of the satellite expected to start in 2024/25 for a launch in 2028



CNES restart milestone  
LASO FM DRB

# Newspace : GESat constellation by ABSOLUTE SENSING

- Selected as a Copernicus Contributing Mission (CCM) in June 2023
- Selected by French government for Space Investment programme



## Fizeau Fourier Alongtrack Spectro Imager (FFASI) instrument test campaign status

