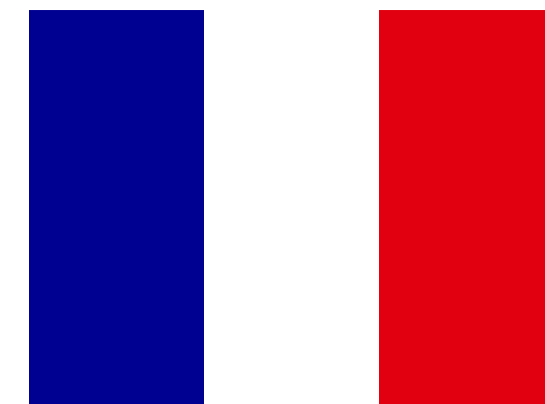


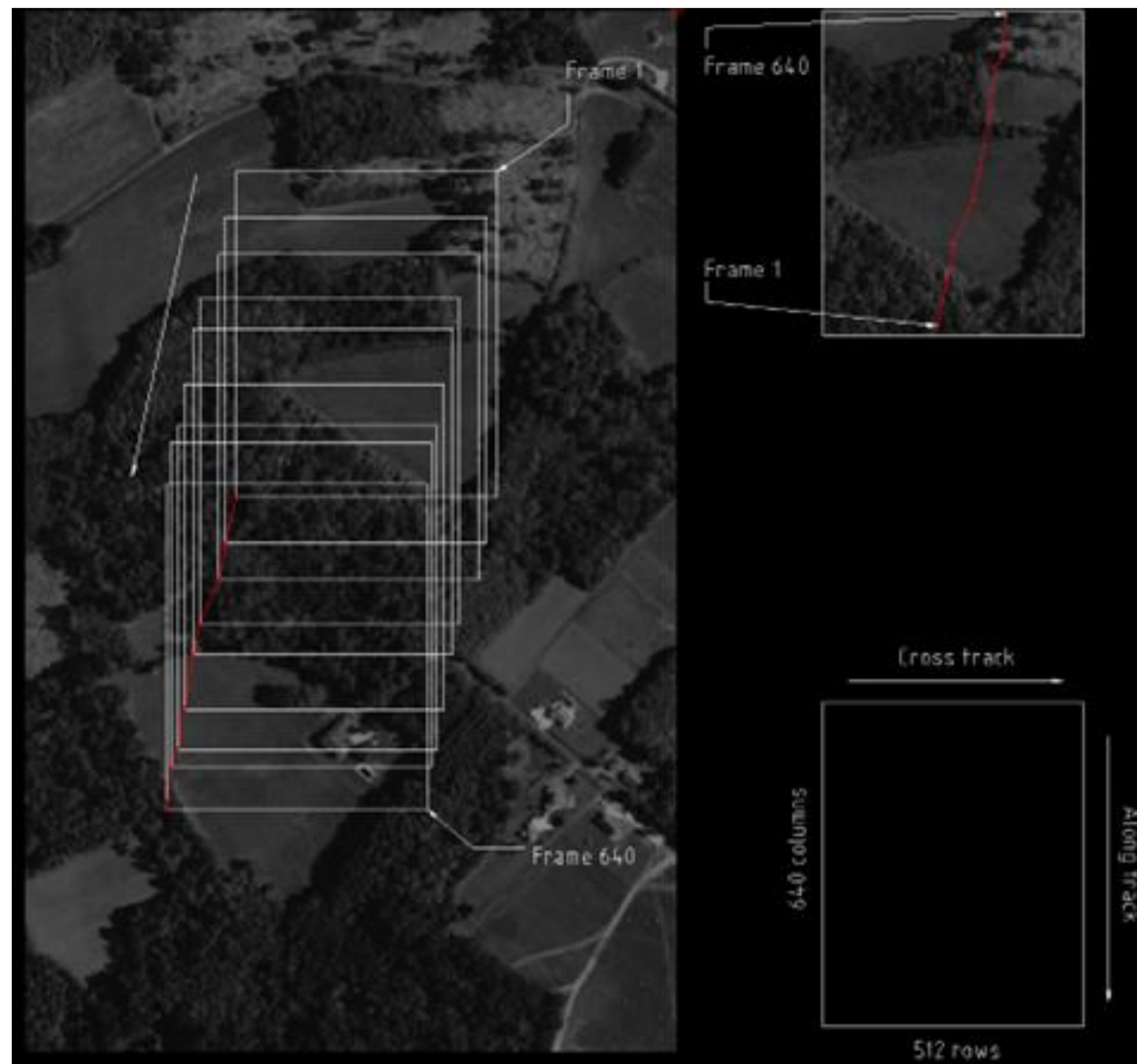
GESat: A Satellite System for Reliable Inventory Validation of >50kg/CH₄/hour Methane Emissions



France / Europe

PROJECT DESCRIPTION

- Absolut Sensing's GESat is a 12-satellite constellation, housing a proprietary cryogenic methane sensor capable of detecting any emissions greater than 50 kilograms (kg)/hour (h) and quantifying them with a greater than 95% accuracy.
- The European Commission is formally supporting this initiative, awarding Absolut Sensing a contract to purchase methane data as part of the Copernicus Contributing Missions programme.
- Follow-on blind test campaigns (evaluation by independent observers) of technologies by without at TotalEnergies' TADI (Transverse Anomaly Detection Infrastructure) facilities are planned this year.



ANTICIPATED RESULTS

- Absolut Sensing anticipates that the programme will reduce industrial methane emissions in Europe and Europe-imported methane emissions by 178 million tons CO₂e/year.
- Data from ground measurement campaigns have validated Absolut Sensing's sensor technology for quantification of facility scale emissions at a threshold greater than 50kg/CH₄ (methane)/h.
- Absolut Sensing anticipates that the program will contribute to a 20% decrease in industrial methane emissions by 2030.

PARTNERS INVOLVED IN PROJECT

- Absolut Sensing
- Centre National d'Etudes Spatiales
- European Commission
- Kayrros
- European Space Agency
- TotalEnergies

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