

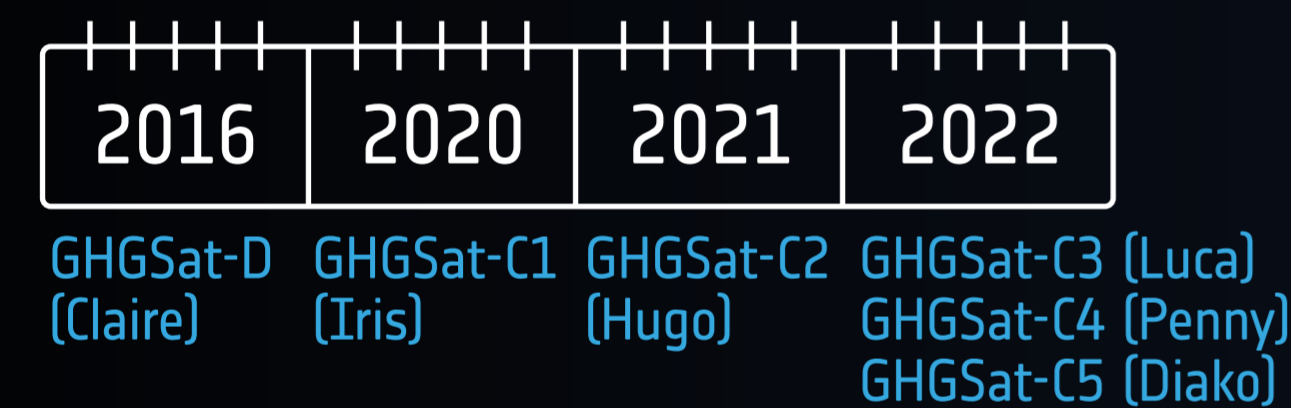
# About GHGSat

## What

Canadian data technology firm GHGSat owns a constellation of small Earth observing satellites that delivers **high-resolution measurements of greenhouse gas emissions** from industrial facilities around the world

## The constellation

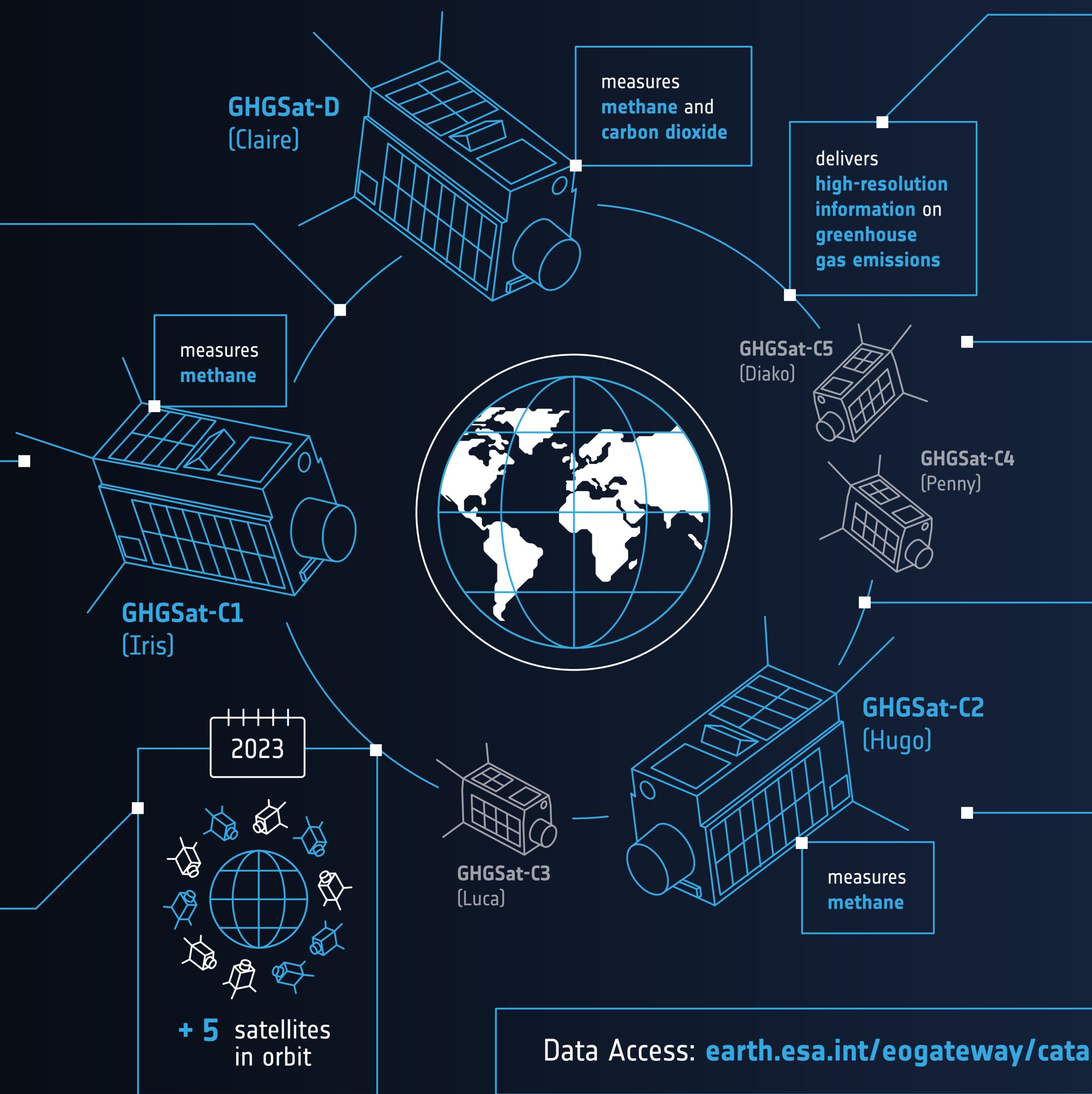
Launched in



There are currently six GHGSat satellites in orbit. GHGSat-D (Claire), GHGSat-C1 (Iris) and GHGSat-C2 (Hugo) launched in 2016, 2020 and 2021, respectively. The following three satellites (Luca, Penny and Diako) were launched in May 2022, with another five planned for launch in 2023

## Instruments

Each satellite is equipped with a **wide-angle imaging spectrometer for measuring the vertical column density of greenhouse gases**. GHGSat's commercial satellites are optimised for methane observations



## Coverage

25 cm  
12 km x 12 km

GHGSat satellites typically deliver datasets with a spatial resolution of 25 m and a field of view of approximately 12 km x 12 km

## Capability

GHGSat tracks greenhouse gas emissions around the world with unprecedented accuracy. Its data products can be processed to generate measurements and maps that detail emissions from point sources as small as individual oil and gas wells

## Objective

GHGSat supports efforts to reduce facility-level emissions of greenhouse gases by delivering actionable emissions information to businesses, regulators and governments worldwide

## Data and users

Through ESA's Third Party Missions programme, GHGSat data are being delivered on a free basis to a range of stakeholders, supporting cutting-edge science and the development of operational applications

Data Access: [earth.esa.int/eogateway/catalog/ghgsat-archive-and-tasking](https://earth.esa.int/eogateway/catalog/ghgsat-archive-and-tasking)