

Satellites
Transversal competencies



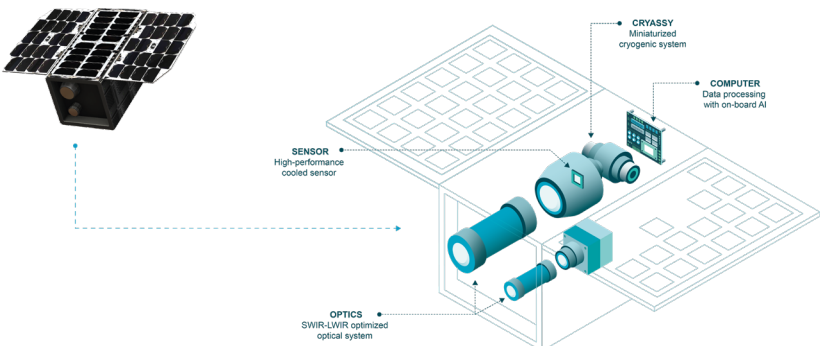
Absolut Sensing is a young company based in Toulouse. Our vision is to monitor, understand and predict climate change. Our mission is to minimize global pollution through our GESat project by developing a constellation of satellites capable of accurately measuring industrial methane emissions. Thanks to our constellation, we provide near real-time, high precision space imagery data & analytics solutions. We support government agencies and industrial corporations in their need to collect precise CH₄ emission information by satellite, drone, or aircraft for accelerating the advent of a low-methane industrial base.

COMPETENCIES & CAPABILITIES

Thanks to a disruptive technological advance in miniaturized cryogenic hyperspectral space-borne instrumentation, Absolut Sensing will allow measurements with unique precision of methane emissions.

We are using a compact optical design, fast processing electronics and the following three key technological innovations that can reach unique precisions:

- Exclusive linearly variable filter for high resolution hyperspectral imaging
- Absolut System's miniaturized cryogenic cooler
- A state-of-the-art high-speed avalanche HgCdTe detector



ABSOLUT SENSING

PRODUCTS & SERVICES

Absolut Sensing develops technologies to monitor, understand and predict global changes.

For this, we are redefining miniaturized remote sensing systems integrated with Smallsats platforms to provide planetary intelligence services. The GESat constellation is Absolut Sensing's flagship program, designed to provide daily measurements of methane emissions plumes. It is based on a constellation of micro-satellites incorporating a miniaturized imaging spectrometer, based on an innovative dispersive design with a high spectral resolution.

In order to accelerate the energy transition, we ensure the monitoring of our planet and enable major scientific advances, working with both institutional players and large organizations.

Our expertise and our ability to innovate enable us to design and propose effective solutions adapted to the needs of our clients, particularly in the field of energy transition.

MAJOR SPACE PROJECTS & REFERENCES

1) Environmental intelligence

We are developing remote sensing instruments to measure greenhouse gas emissions (methane, CO₂) on local, regional, and global scales to support emitting companies and regulators through the GESat project.

2) Geo intelligence

Thanks to our expertise in miniaturized hyperspectral instrumentation and associated data processing chain, we support government agencies in their need to collect information by satellite, drone, or aircraft.

Absolut Sensing is supported by the ESA BIC & Gate 1 – and currently under contract with ESA and Total Energies, as well as CNES.

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