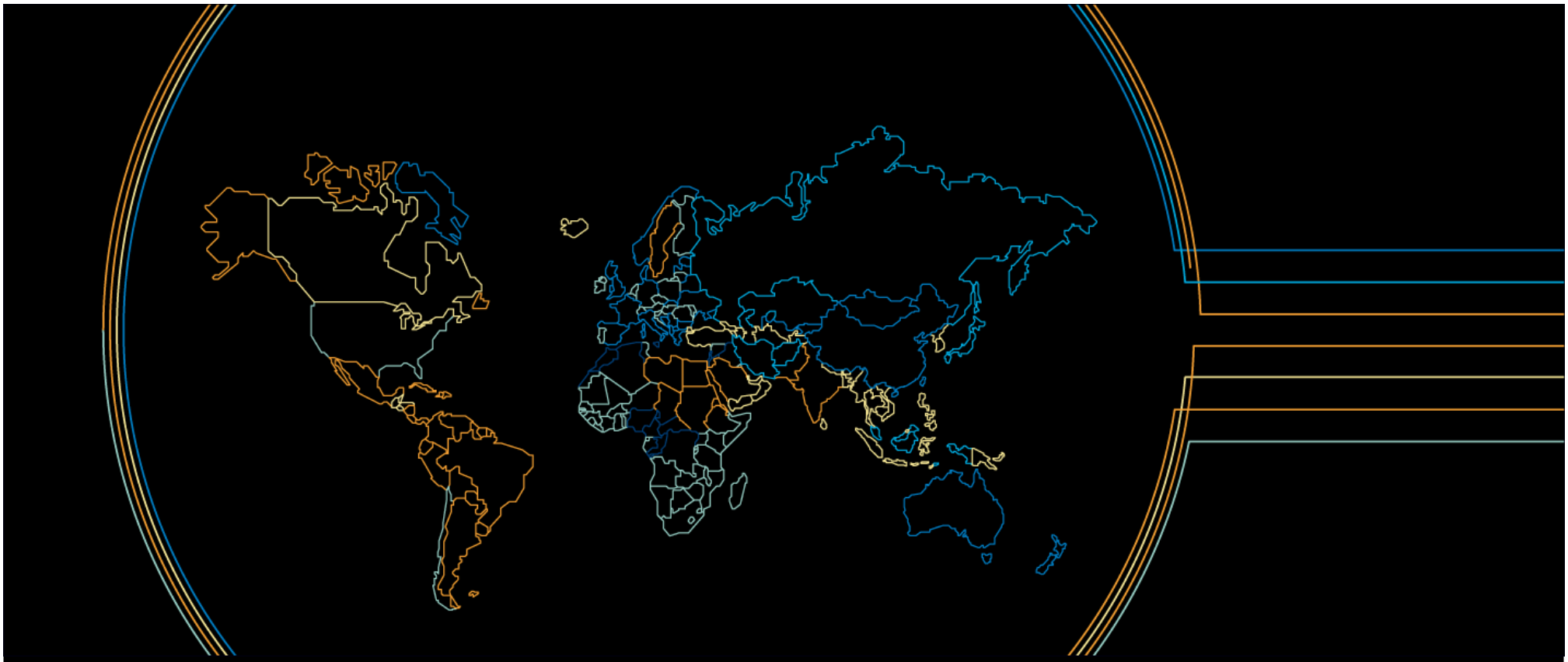


World Future Energy Summit

ABB's Remote Sensing Environmental Solutions

Power and productivity for a better world™

Pollution monitoring enables the development of protective measures to improve the health of the atmosphere.

ABB technologies:
Enhance the understanding of our environment.

ABB technologies: Leak detection for CO_2 sequestration.

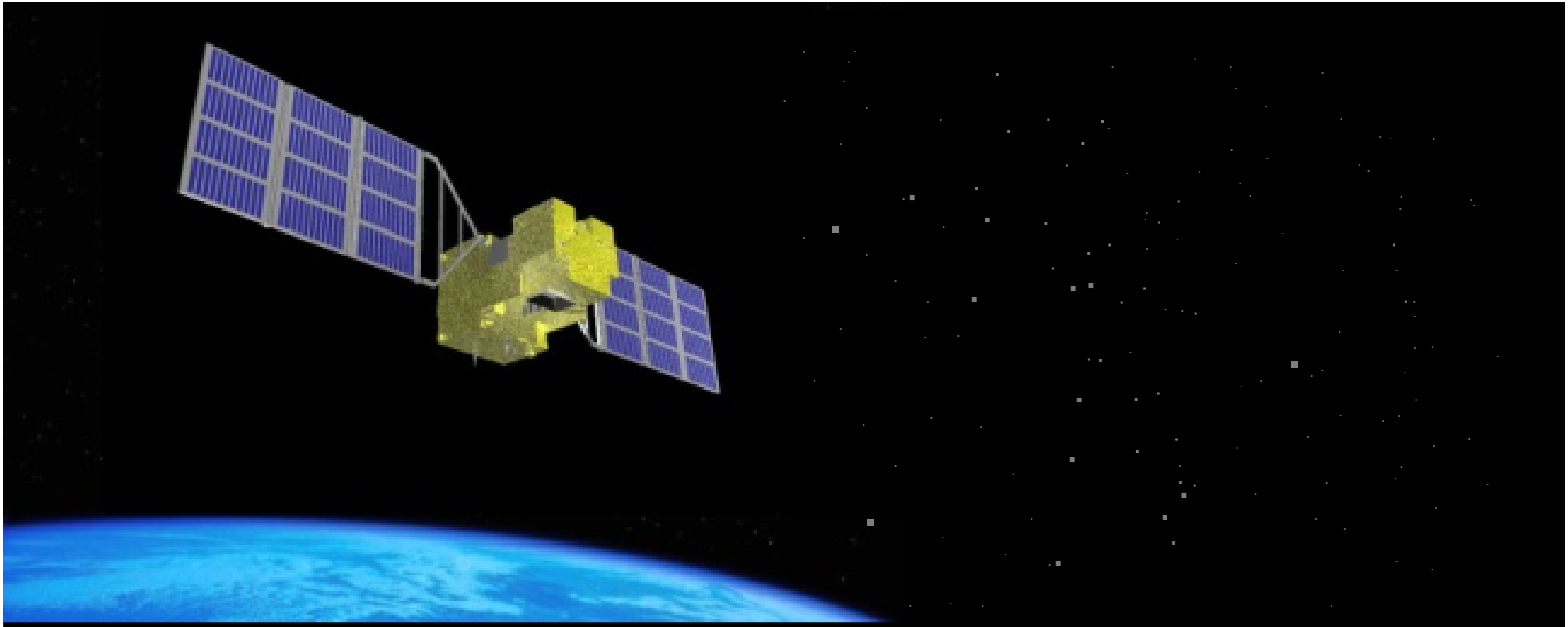


ABB supports Kyoto Protocol

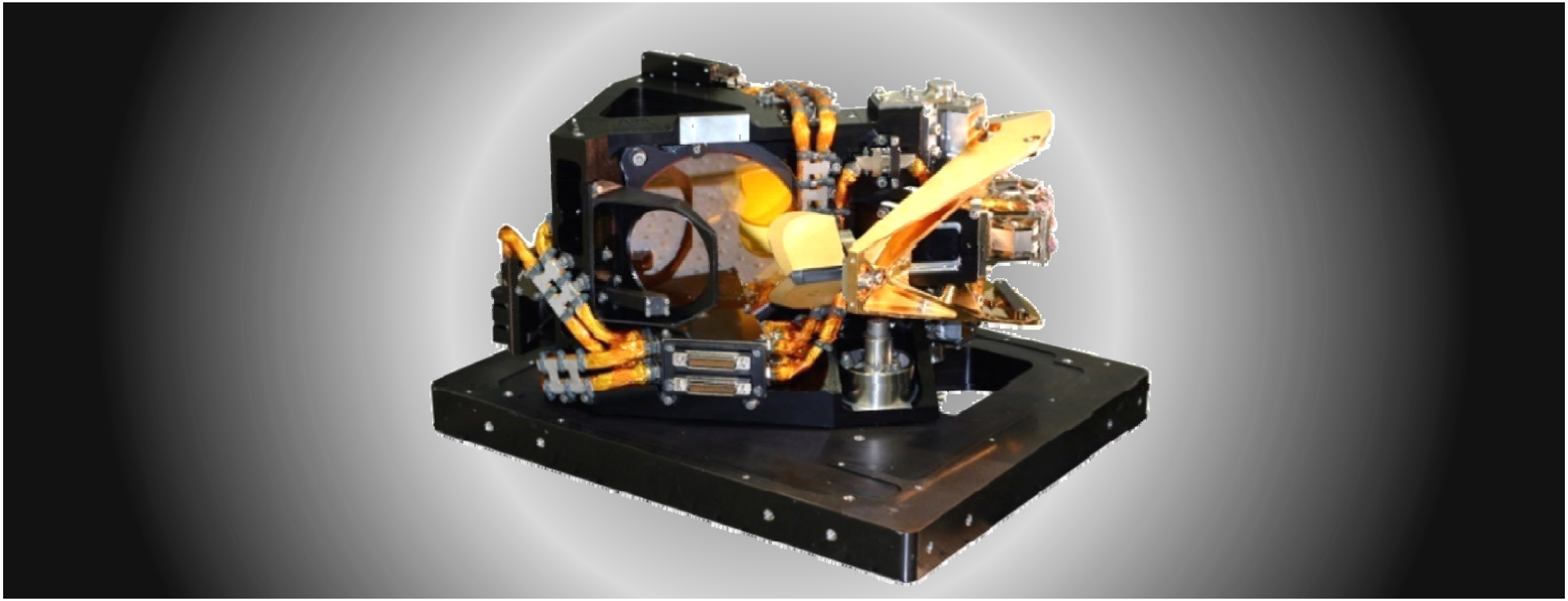
TANSO-FTS onboard GOSAT satellite - launch in January 2009

GOSAT: **G**reenhouse gases **O**bservation **SAT**ellite

ABB supports climate change and global warming research

Japanese Space Agency's is the first satellite dedicated in monitoring greenhouse gases such as CO_2 and methane.

ABB built for NTSpace the main module of the instrument.



Display: Fourier Transform Spectrometer

- Application: Collects and transmits global CO2 & methane densities (up to 30 times daily) from 650km above the earth

- Customer benefits: Greatly improved monitoring compared to ground-based observation stations by providing more precise atmospheric CO2 & methane density measurements

References:

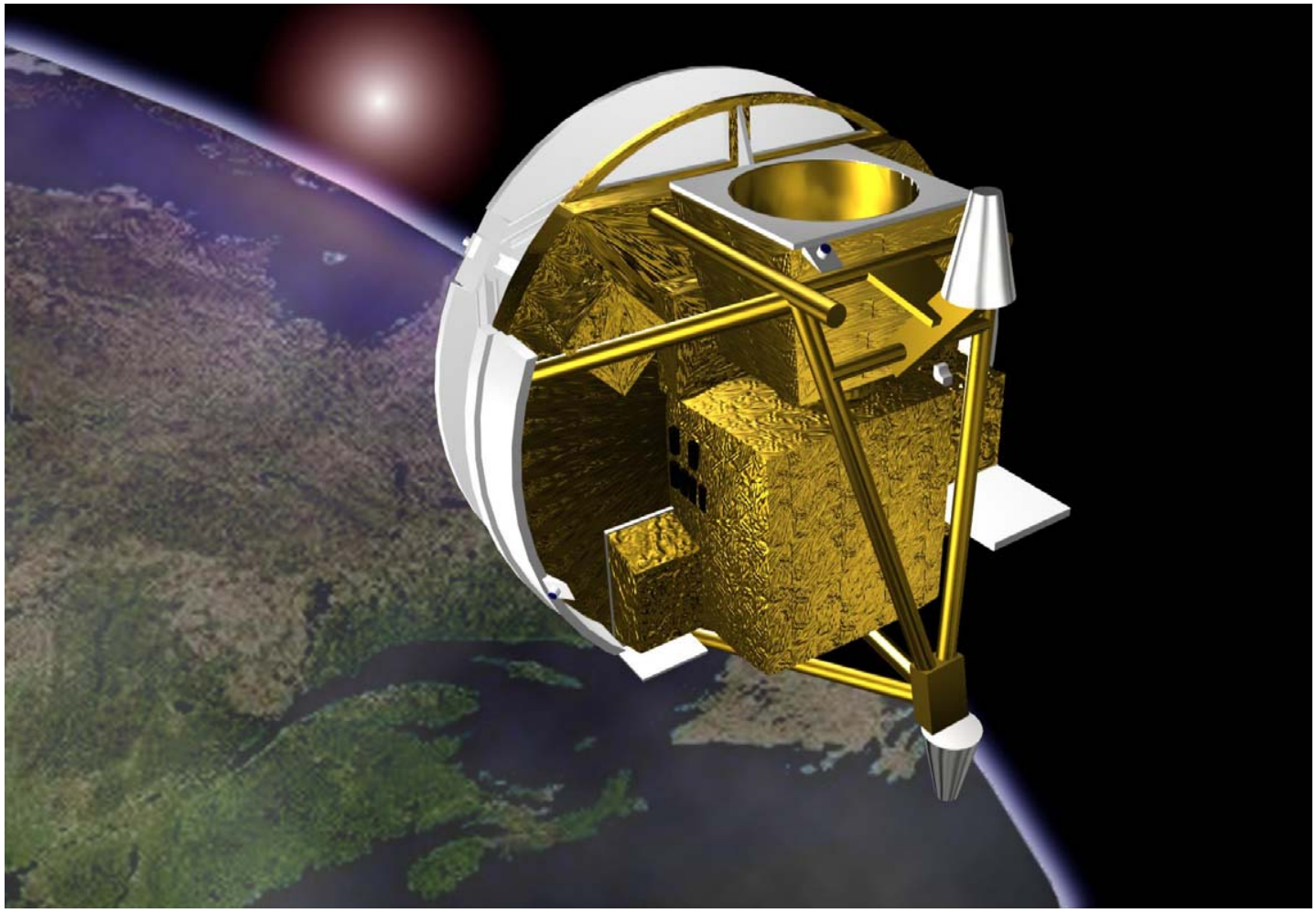
- Customer: : NEC-Toshiba Space Systems for Japan's Greenhouse Gases Observation Satellite program (GOSAT)

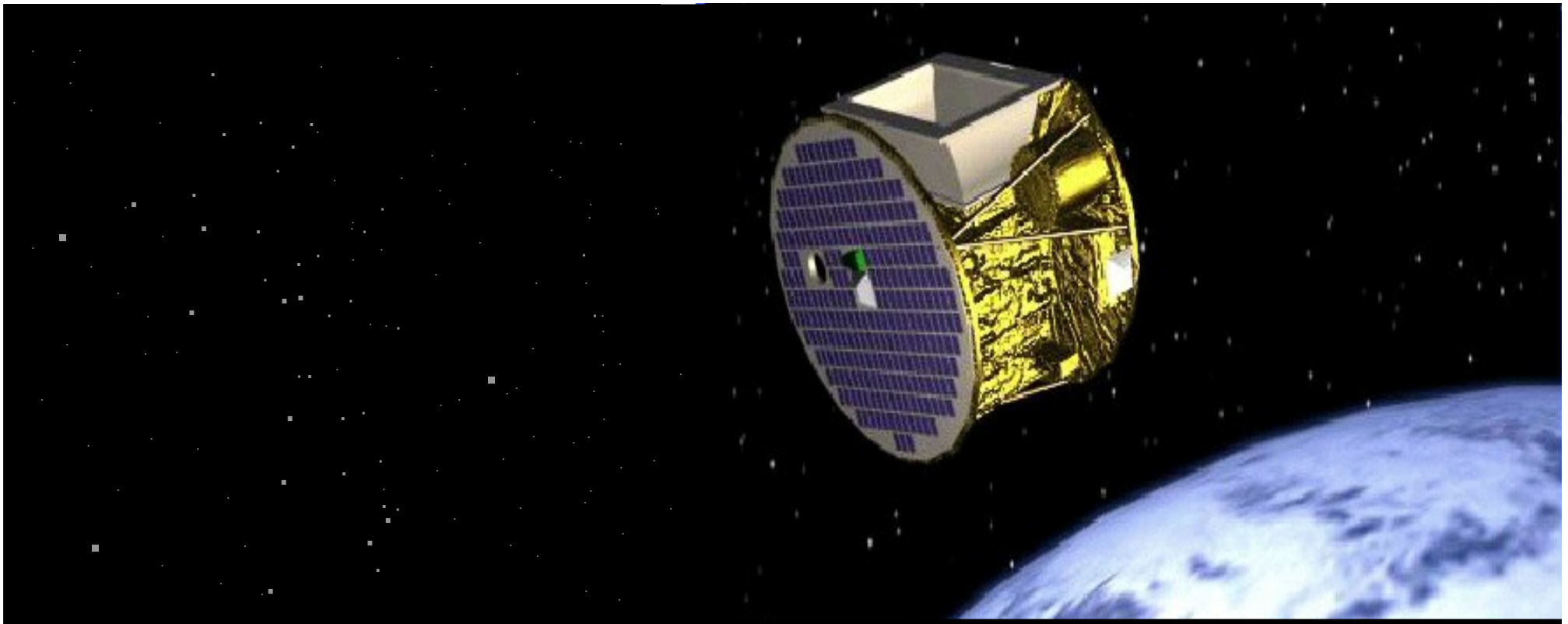
- Scope : Michelson Interferometer

- Year: Satellite Launch in January 2009

Atmospheric Chemistry Experiment (ACE) Project
Protect Human Health and Well-being

ABB was the prime contactor for the satellite's main instrumentation

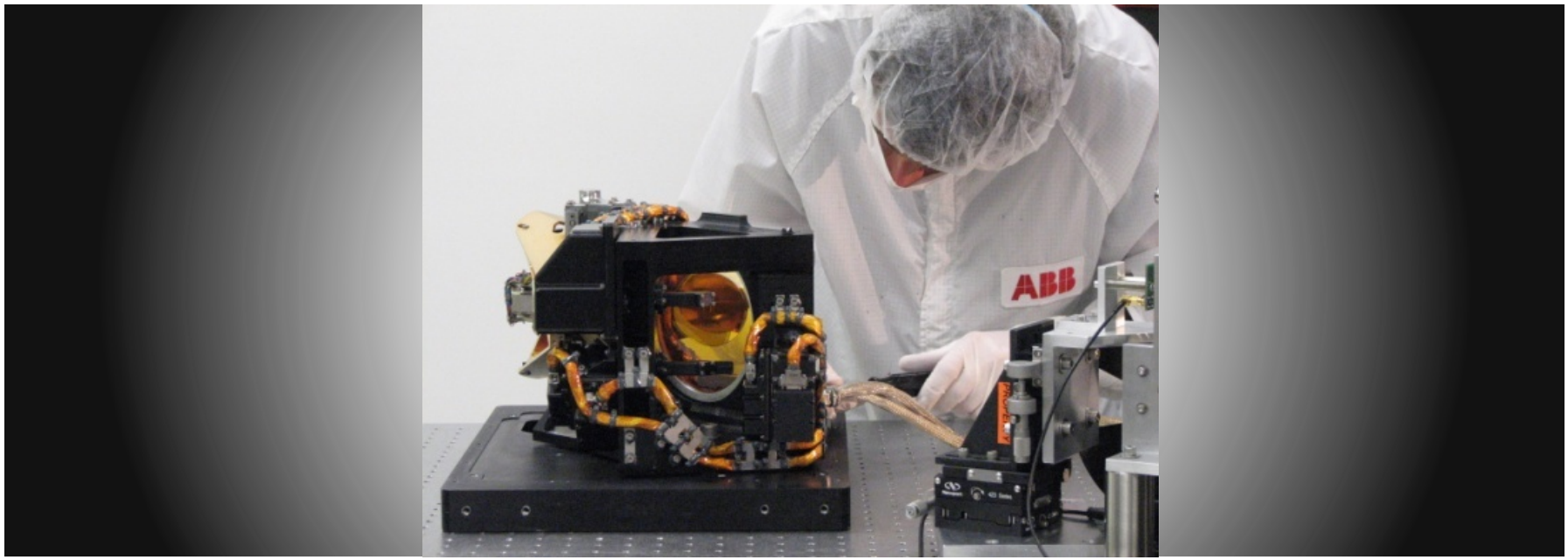




Since 2003, SciSAT-1 has allowed to better understand ozone depletion.

Increase Environmental Safety
Pipeline leakage monitoring

ABB builds airplane sensors for monitoring pipeline leakages



Power and productivity
for a better world™