

FAST FACTS

European provider of Very High Resolution imagery and services:



End to End control of 2 satellites



165 customers65 countries



1 of 2 European VHR optical data providers.
Offices in PT and SP



24/7 operations



Rapid tasking and delivery



12+ years of experience



6bn sqkm of imagery archive



SW development team for custom services

CURRENT SATELLITE MISSIONS



GEOSAT 1

625km swath @ 22m

3 bands: R,G, NIR

Revisit: 2-3 days



GEOSAT 2

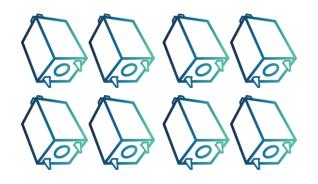
12km swath @ **40cm** & 75cm

5 bands: PAN, RGB, NIR

Revisit: 2-3 days



FUTURE SATELLITE MISSIONS (EXPECTED 2025)



HR CONSTELLATION

8 satellites

Resolution: 1.5 – 2 m

Revisit: 6h – 12h

Bands: RGB, NIR, SWIR



VHR CONSTELLATION

3 satellites (polar / inclined orbits)

Resolution: < 50 cm

Revisit: Intraday

Bands: RGB, NIR



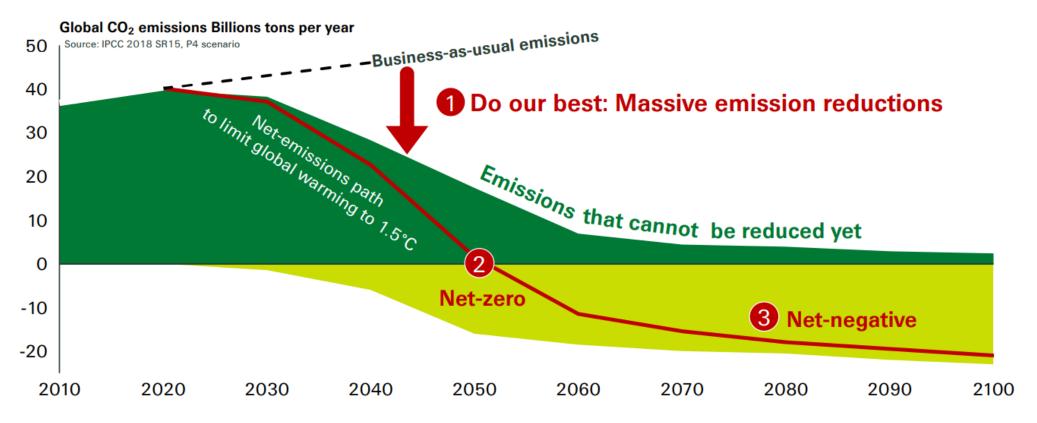
CLIMATE ACTION

To limit warming to safe levels in line with the Paris Agreement, we need three things:

1) halve emissions by 2030

2) net-zero emissions by 2050

3) net-negative emissions after 2050

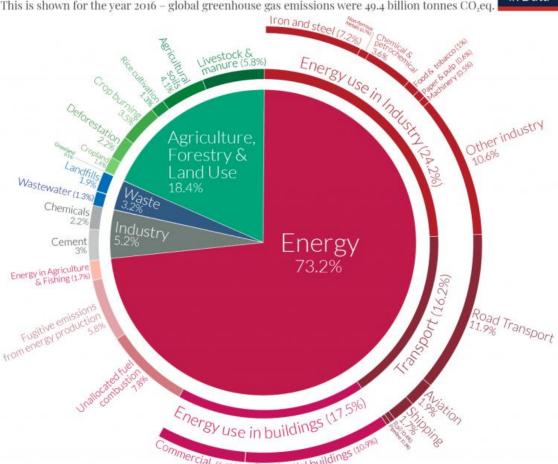


Source: Swiss Re

EMISSIONS REDUCTION REQUIRES AN ENERGY TRANSITION

Global greenhouse gas emissions by sector This is shown for the year 2016 – global greenhouse gas emissions were 49.4 billion tonnes CO₂eq.





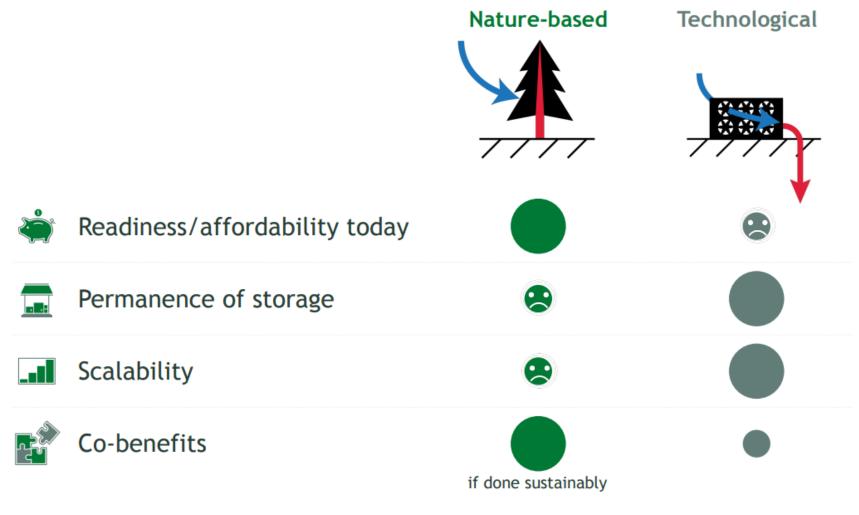
Our Worldin Data.org – Research and data to make progress against the world's largest problems.

Source: Climate Watch, the World Resources Institute (2020).

Licensed under CC-BY by the author Hannah Ritchie (2020).

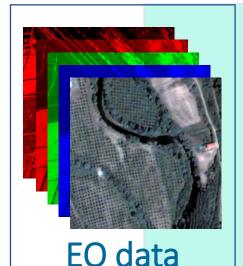


CARBON CAPTURE STRATEGIES



Source: Swiss Re

EO FOR BIOMASS MONITORING AND CARBON MAPPING



(GEOSAT 2)

- Forest Inventories: Species Georreferenced data
- Forest Maps: Land use, main tree species
- Land Use, Land-Use Change and Forestry (LULUCF)

In-Situ Measurements

Biomass maps (tn/ha)
CO2 maps (tn/ha)

In the context of the <u>European</u> <u>Green Deal</u> and the <u>Zero</u> <u>pollution Action Plan for 2050</u>, satellite information is recognized as a crucial tool to measure, monitor and verify carbon storage.

Quantification and tracking of above-ground biomass and carbon sequestration based on earth observation and in-situ field measurements.

EO TO SUPPORT THE ENERGY TRANSITION

- Increased availability of cost-effective VHR EO data supports:
 - Site assessments
 - Topographic survey
 - Site monitoring
 - Environmental compliance
 - Natural resource assessments & inventories
 - Off-shore activities



