The Earth Observation Evolution
Driving Resilience in a Changing Global Landscape

ACCELERATING TOWARDS

CLIMATE NEUTRALITY & CLEAN GROWTH

Dušan Chrenek,
Principal Adviser
Digital for Green Transition

Need for Climate Action and Opportunities for Players across the EO Value Chain

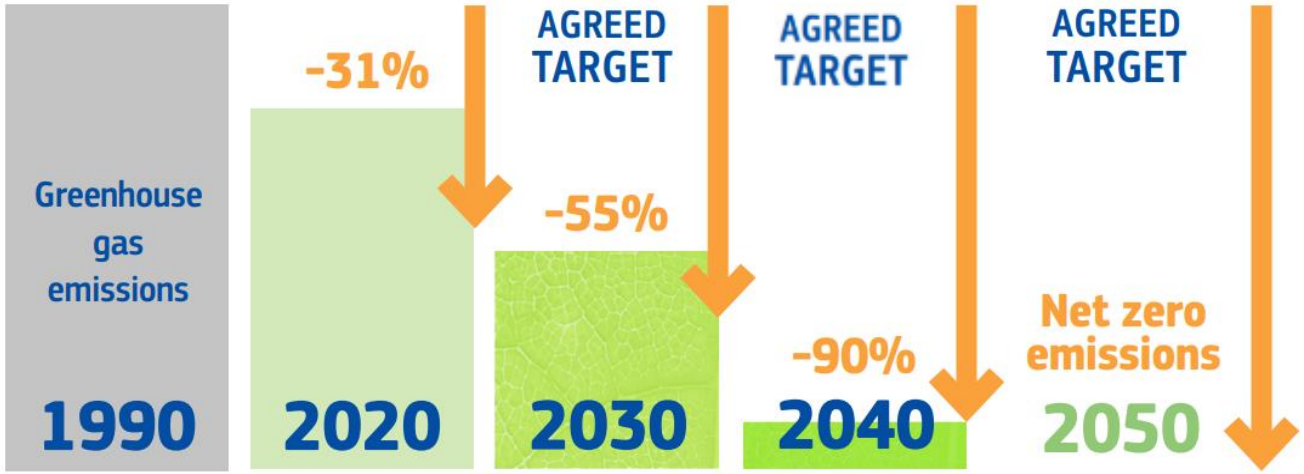
From the report of the **World Economic Forum** on EO:

- Prospect of adding a cumulative **$3.8 trillion to the global economy** from 2023-2030 and reducing CO2 emissions by 2Gt per year is a **compelling case for increasing the uptake of EO**”
- Collaborative action is needed **across the EO value chain** to address key barriers, such as limited awareness of EO applications, a shortage of specialized talent, fragmented standards and difficulty navigating the complex EO marketplace.

European Commission

What is the EU doing to achieve climate neutrality?

- The **European Green Deal**'s goal for Europe's economy and society to become climate-neutral by 2050 has been enshrined in the **European Climate Law**.
- With the **latest amendment** of the European Climate Law (April, 2026), a new, legally binding interim target was set to **reduce GHG emissions by 90% by 2040** (of which maximum 5% potentially met through high-quality international carbon credits).



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Space for Climate Action

- The EU Green Deal contains a comprehensive strategy including **Climate Adaptation, Climate Mitigation, Early Warning Systems, Circular Economy, Biodiversity, Sustainable Agriculture, Clean Energy Transition and Social Inclusion.**
- To enhance its resilience and mitigate vulnerability, the EU relies on **advanced space technologies, in particular Earth Observation applications.**
- In addition to data from Copernicus Sentinels, Galileo, ESA Earth Explorer missions, and EUMETSAT's fleet of space-borne instruments, the EU also **supports** the **commercial implementation** of **space-based data** and **applications**.

Companies and their **innovative tools** are crucial to achieve the **EU's climate goals economic growth** and **innovation in the European space industry**

European Commission

Use of Space and AI for Climate Action

- Bring technology to market to **decarbonise e.g. buildings, transport, energy, industry** and **agriculture.** Need for real-time monitoring for better adaptation, early warning and risk management.
- Provision of a **high spatial and temporal data from space for GHG monitoring**, supporting e.g. the **Methane regulation** or **ETS/ETS2** and **CBAM CO2** monitoring.
- Identifying needs from national inventory compilers and providing data on **LULUCF** for independent **Monitoring, Reporting and Verification** and **Carbon Removal Certification.**
- **Resilience by Design: Integrated Framework for Climate Resilience by end 2026**
- **New AI models are transforming EO from imagery into a "Geospatial GPT" that automates complex analysis and provides prescriptive, real-time answers directly to decision-makers. Models can bridge gaps and turn satellite data into actionable intelligence.**

- **EU funding creates opportunities for industry**
- **EU supports co-development of solutions**

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Thank you!

[Delivering the European Green Deal | European Commission (europa.eu)]

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