

Global Greenhouse Gas Watch

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WMO OMM
World Meteorological Organization
Organisation météorologique mondiale



*Action in support of an internationally coordinated monitoring of greenhouse gases for **Climate-Change Mitigation** under the **Paris Agreement***



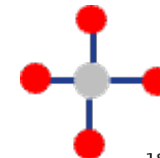
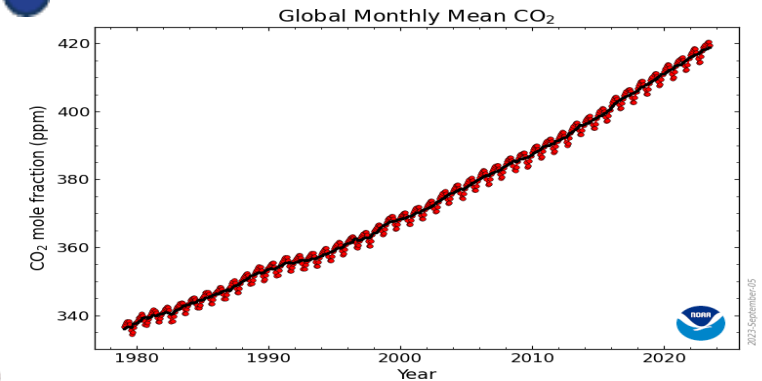
Our Problem Statement

- The **Paris Agreement** is a binding commitment adopted with the aim of limiting climate change via reducing net anthropogenic greenhouse gas emissions;
- Both human-induced emissions and Earth's natural processes contribute to large carbon emissions that alter the climate. **An Earth system monitoring system** accounting for the complexity of this is necessary.
- ***Offsetting is a popular mitigation approach but cannot be the primary solution***; its effectiveness is poorly monitored and documented and therefore doubtful
- ***Counting trees ascribes to wishful thinking and is wasteful*** if it is neglecting the impact of climate disturbances
- ***We must monitor impact in order to manage our targets*** namely the reduction in atmospheric concentrations

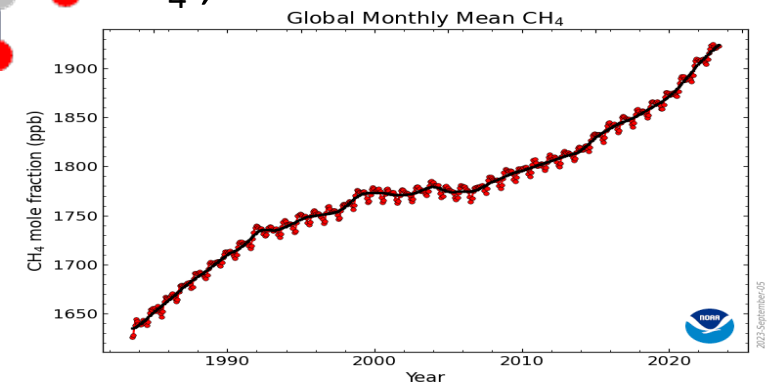
WHY? Because Earth's climate responds mainly to atmospheric carbon dioxide abundance, not to claimed offset of our carbon emissions



CO₂ Carbon dioxide abundance



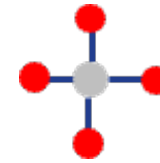
CH₄ , Methane abundance



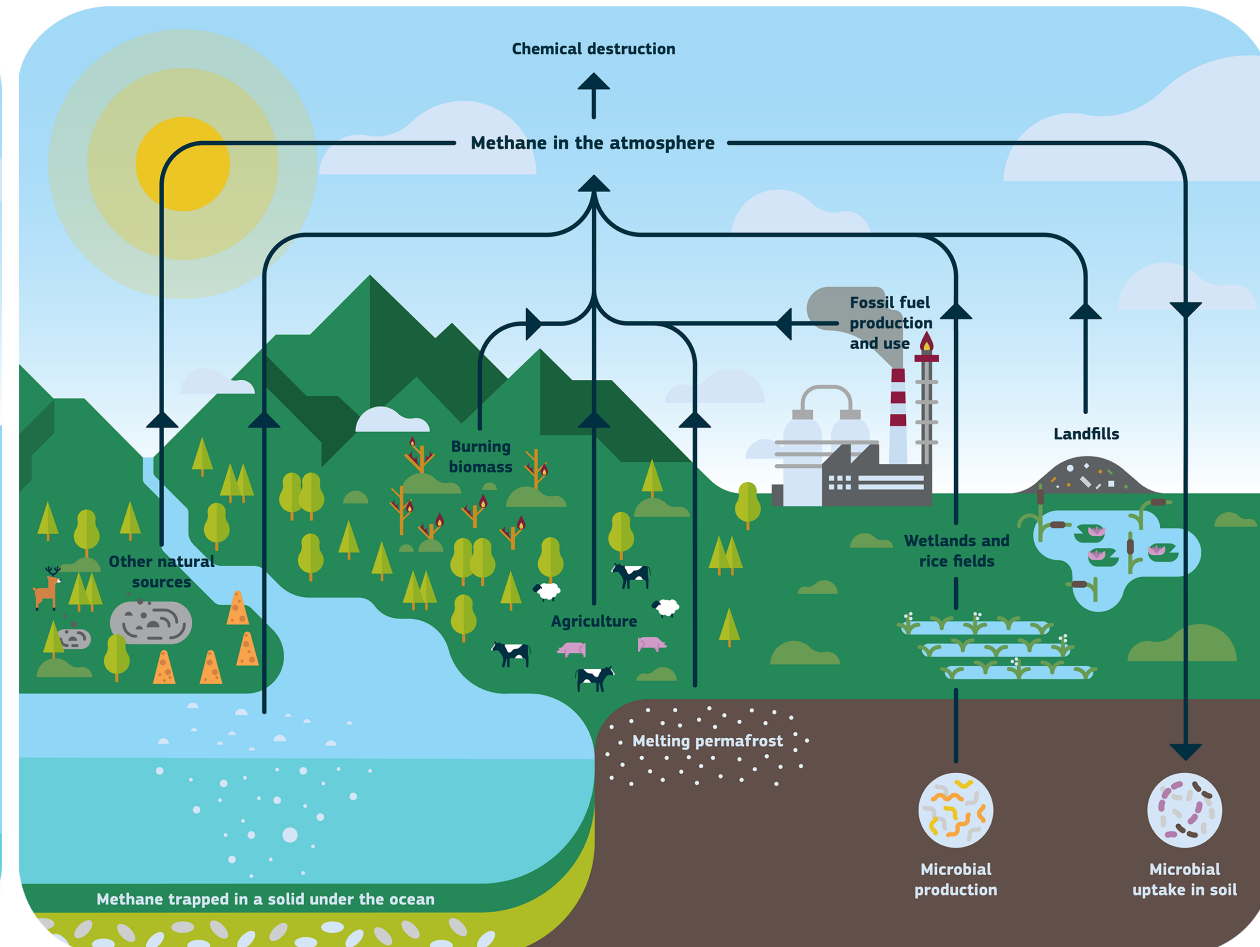
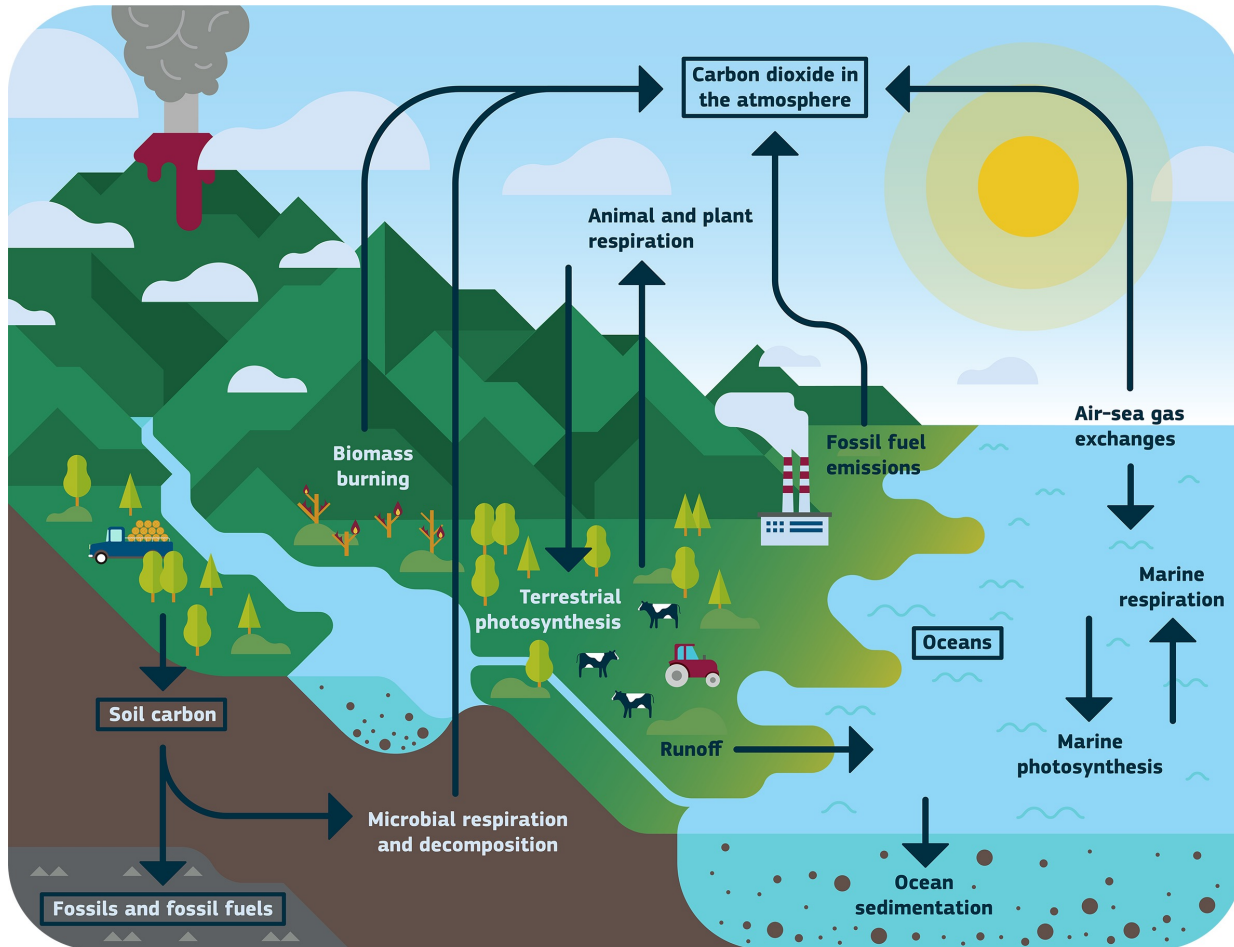
The carbon cycle is an interplay between nature & society



CO₂ , the Carbon dioxide



CH₄ , the Methane



Our Plan in Action

In 2023 two WMO key events

- 1st WMO GHGs Monitoring Symposium
GGGW reaches broad science support
- 19th World Meteorological Congress
intergovernmental agreement approved
GGGW proceeds with development

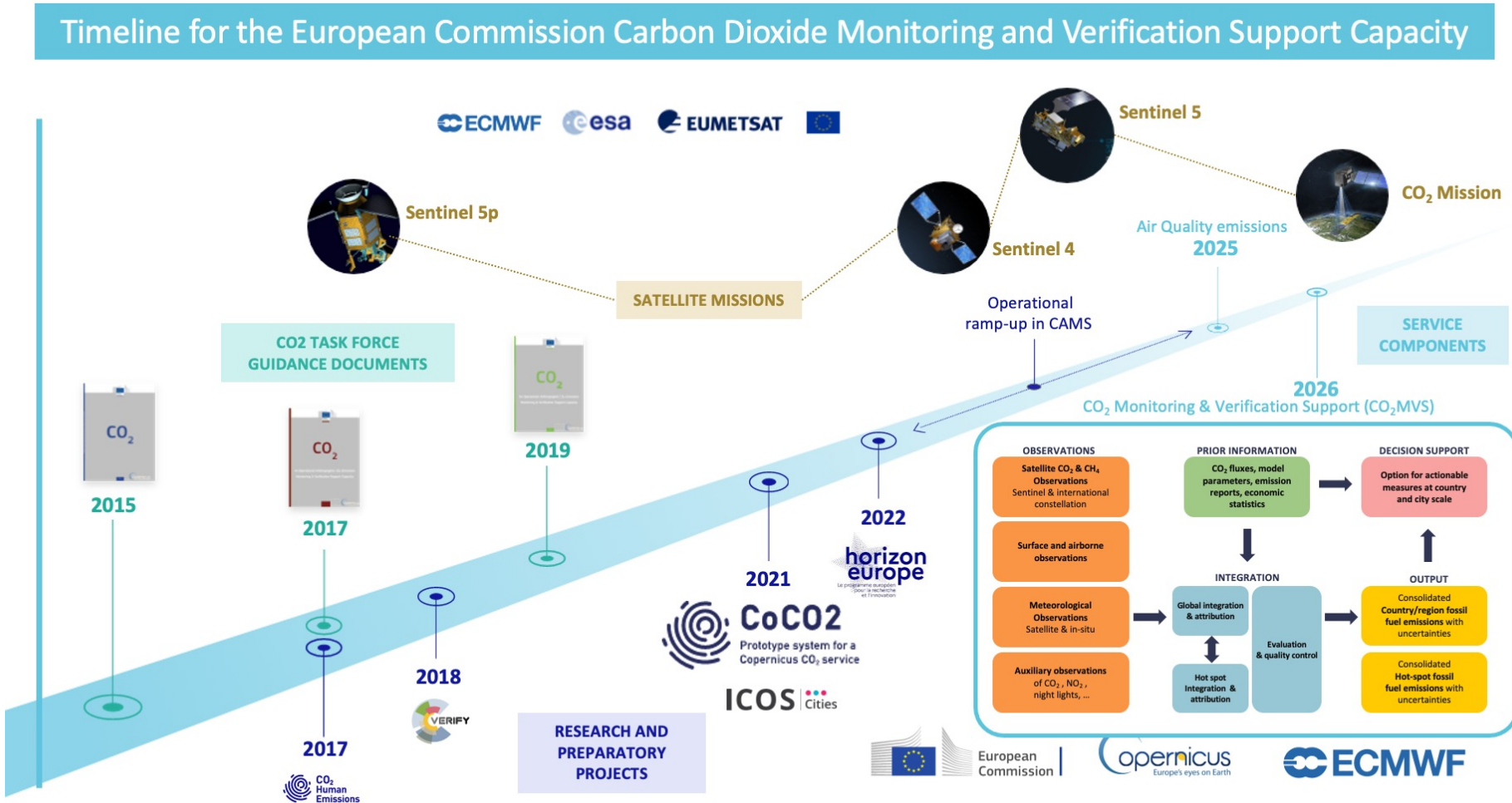
COP28 raised the profile of the **Global Greenhouse Gas Watch**

- **WMO prominent exposure at COP28** in particular at the **Earth Information Day**
- **GGGW is recognized by 196 Nations** in the *SBSTA-59 final text* providing a **successful closure of COP28**



Our Implementation Timeline

- In 2024 the **GGGW Implementation Plan**, the **GGGW Sustainability Strategy** documents being prepared.
- In 2025 & 2026 the **Operational needs** aim at sustained funding sources (WMO + External).



The European Commission – Copernicus Earth Observations Programme leads by example

Our Sustainability Scenarios

To address infrastructure and service coordination needs, **significant resources will be needed 2024-2026.**

Funding mechanisms include 3 pathways:

- **GGGW initial WMO-internal** funds, already approved by the CG-19 resolution at the World Meteorological Congress in 2023
- **GGGW trust-fund**, managed by WMO, with 2 “champions” in 2023 contributing and more expected from public & private sources
- **Specialized GGGW financial vehicle** to facilitate private sector contributions and activities, and that may be hosted outside of the UN system

