

# **Climate change**

**Copernicus for SDGs** 

Rene Colditz, DG CLIMA 23 January 2019

#### International conventions and bodies

- Chef de file/focal point
  - UNFCCC
  - Montreal Protocol
  - ICAO (emissions monitoring, market-based mechanisms)
  - IMO (emission reduction from ships)
- Associated/consulted
  - UNCBD
  - UNCCD
  - UNFF
  - IPCC





## **The Paris Agreement**





#### **The Paris Agreement**

- Ambitious long-term goals
  - limit temperature increase well-below 2°C
  - pursue 1.5°C
- Universal agreement based on more than 190 nationally determined contributions (NDCs)
  - "Bottom-up" approach where all countries define their contributions
  - Contrary to Kyoto-Protocol where targets were defined "top-down,"
- Paris Rulebook from COP24 in Katowice
  - General binding set of rules for all parties



# Ratification by >140 States

# Global Climate Action Agenda

e.g. 4/1000 initiative

Paris Agreement

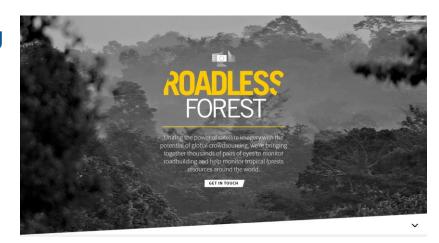
Cities and Regions
- Covenant of
Mayors

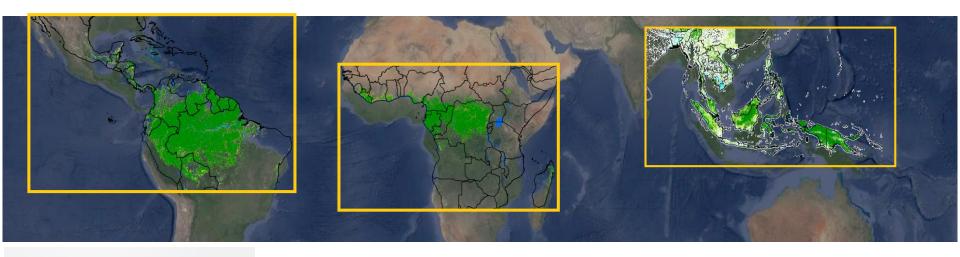
Private business



# Example: ROADLESS-FOR: Mapping undisturbed tropical humid forests

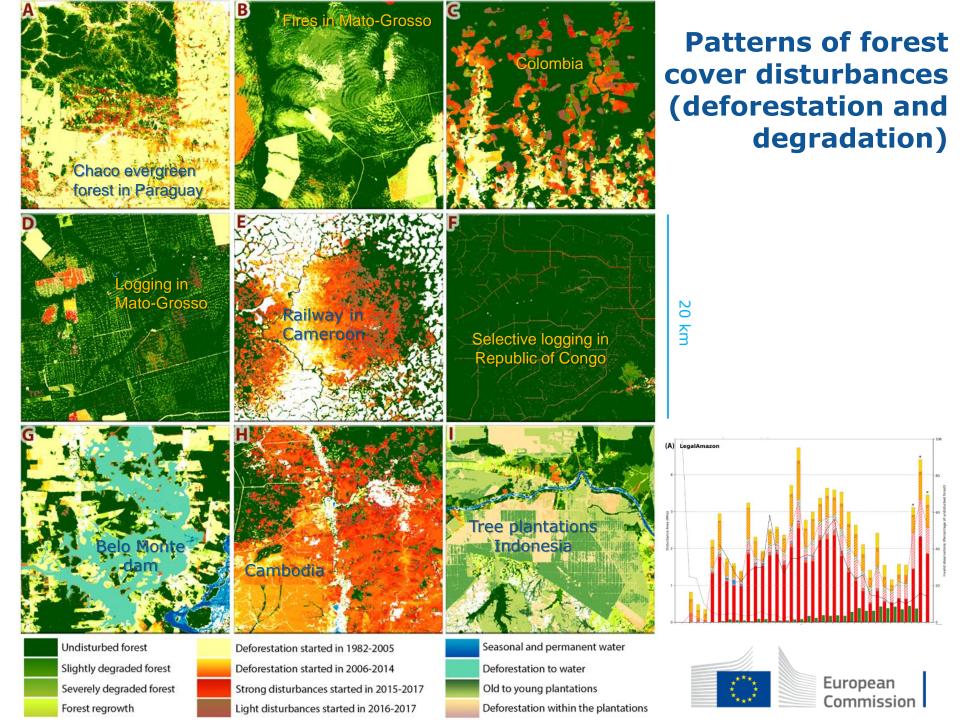
- Pan-tropical wall-to-wall monitoring system (1982-2017) of tropical humid forests at 30 m (Landsat)
- Financed by EP
- Managed by DG CLIMA
- Carried out by JRC











#### **Example: Sentinel 2 mosaics**



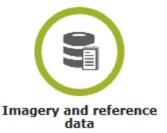
#### **Example: Implementation of EU LULUCF Regulation**

- LULUCF Regulation (EU 2018/841) requires the use of IPCC approach 3 (=geospatially explicit) for reporting on key categories of emissions and removals
- Copernicus uptake through
  - Pan-EU data sets (HRL, CLC+, conformity to IPCC definitions)
  - Caroline Herschel FPA





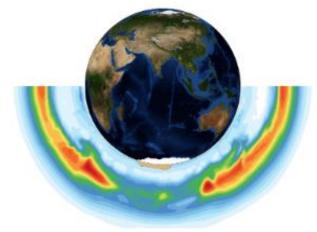






#### **Example: Implementation of the Montreal protocol**

- Phasing out of Ozone depleting substances
  - Shift from HCFC and CFC (O3 depletion and GHG) to mainly HFCs (only GHG)
  - Since 2016 also global phasing down of HFCs (Kigali Amendment to the Montreal Protocol)
  - Current data on ozone hole from NASA
  - Discussions ongoing to use Copernicus data and services

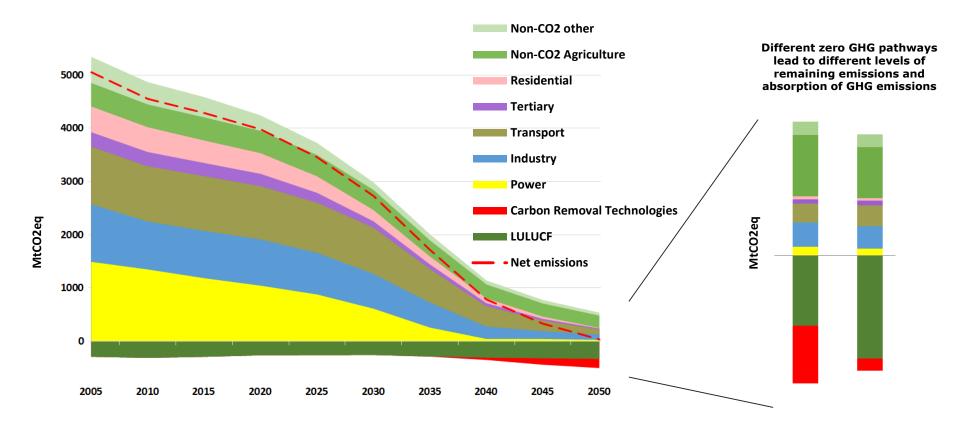






#### Vision for a Clean Planet by 2050

There are a number of pathways for achieving a climate neutral EU, challenging but feasible from a technological, economic, environmental and social perspectives.





## Thank you!

#### **Visit DG Climate Action online:**



ec.europa.eu/ clima/



facebook.com/ EUClimateAction



twitter.com/ EUClimateAction



pinterest.com/ EUClimateAction



youtube.com/ EUClimateAction