

IPCC Expert Meeting on Reconciling land use emissions

9-11th July 2024, Ispra (Italy)

GLOBAL LAND USE CARBON FLUXES (*LULUCF HUB*)

Joana Melo, Rosa Maria Roman-Cuesta, Simone Rossi, and Giacomo Grassi

Joint Research Centre, European Commission

Joana Melo¹, Frédéric Achard¹, Josep G. Canadell², Pierre Friedlingstein³, David Gibbs⁴, Nancy Harris⁴,
Michael O'Sullivan³, Glen P. Peters⁵, Julia Pongratz⁶, Melissa Rose⁴, Simone Rossi¹, Clemens
Schwingshackl⁶, Stephen Sitch³, and Giacomo Grassi¹

¹ European Commission, Joint Research Centre, Ispra, Italy. ² CSIRO, Canberra, Australia. ³ University of Exeter, UK.

⁴ World Resources Institute, Washington DC, USA. ⁵ CICERO, Oslo, Norway. ⁶ university of Munich, Germany

MISUNDERSTADINGS



CNN, December 15, 2028
Paris Agreement at risk.

A large gap in land use CO₂ emissions between IPCC AR7
and National inventories causes the failure of the
UNFCCC Global Stocktake

Misunderstanding occurred on the concept of
“anthropogenic sink”

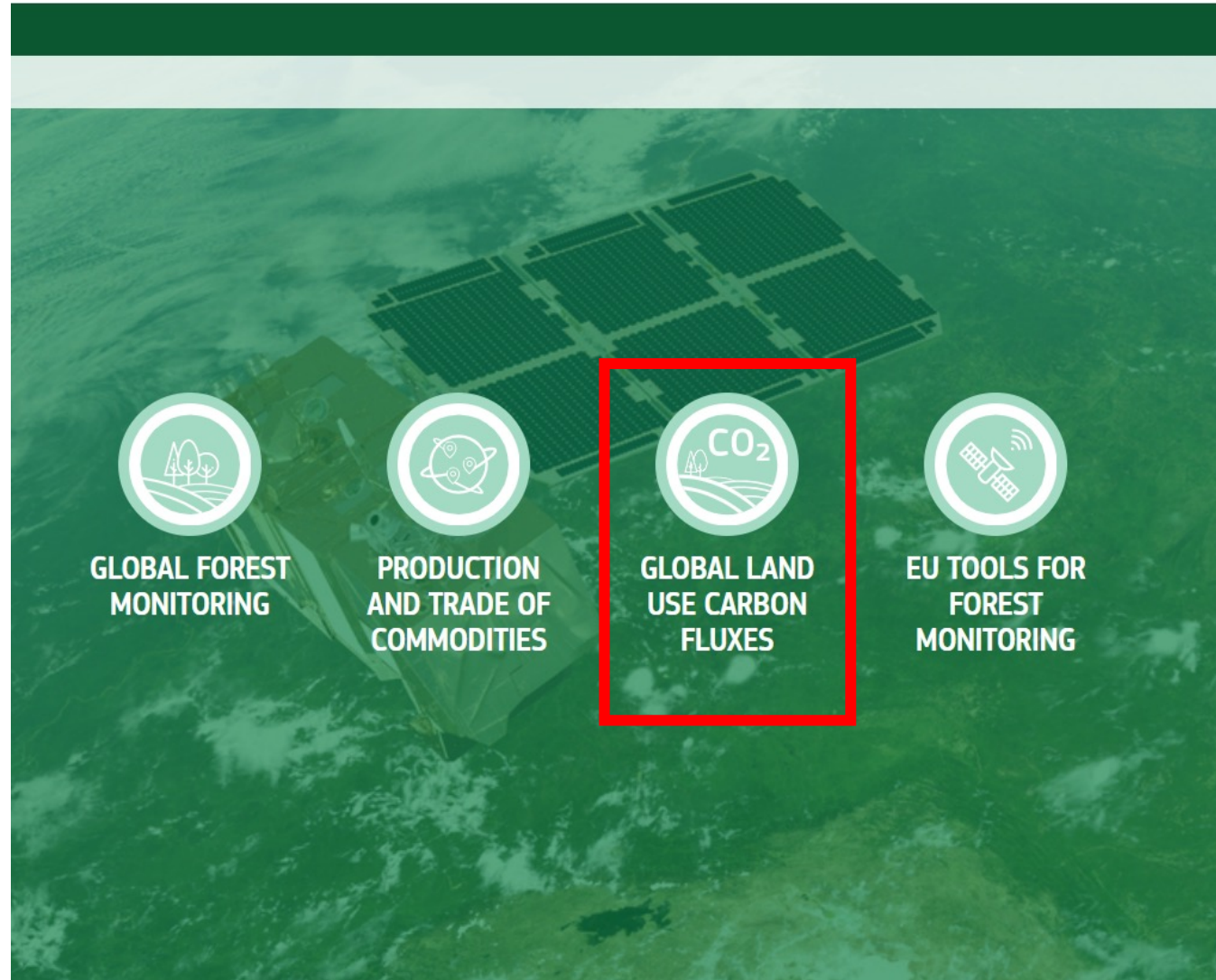


Resolving misunderstanding

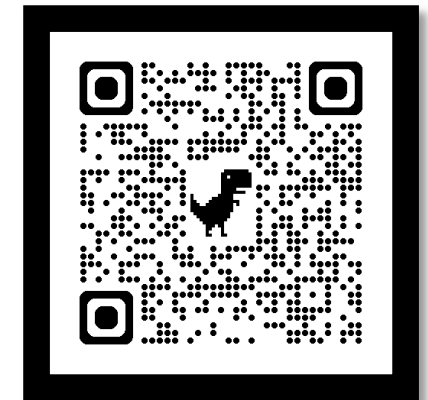
Global Land Use Carbon Fluxes (LULUCF hub)



EU observatory on deforestation and forest degradation



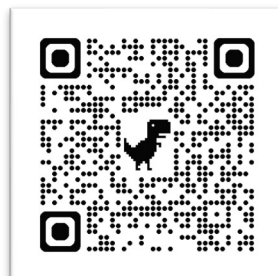
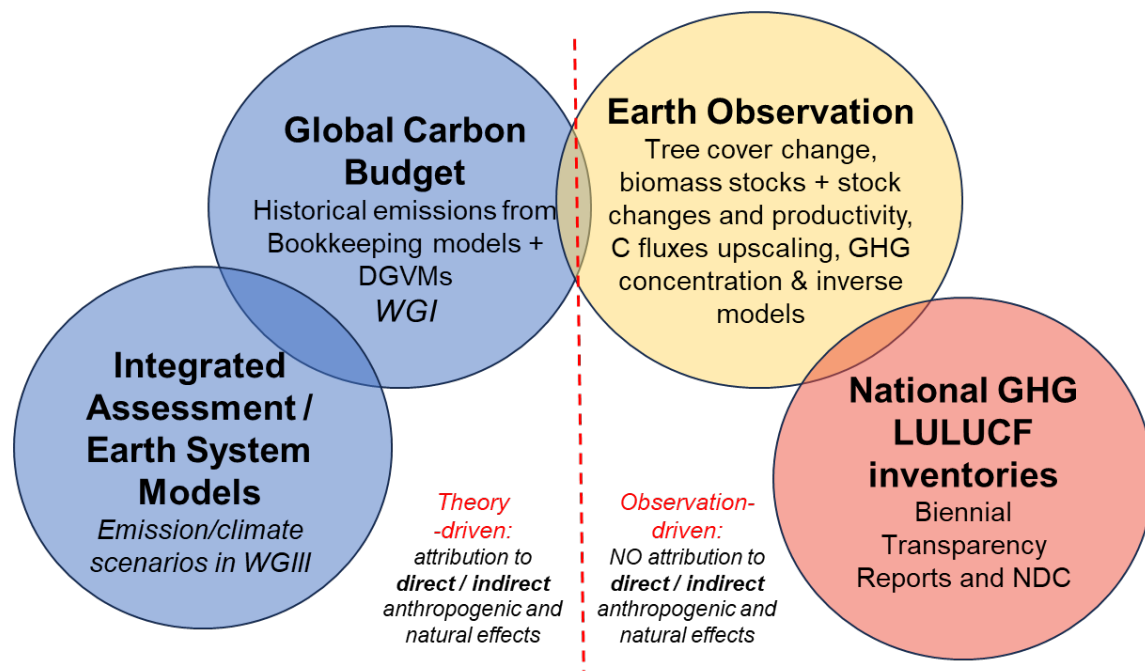
scan me!



<https://forest-observatory.ec.europa.eu/>

Resolving misunderstanding

Global Land Use Carbon Fluxes (LULUCF hub)



<https://forest-observatory.ec.europa.eu/>

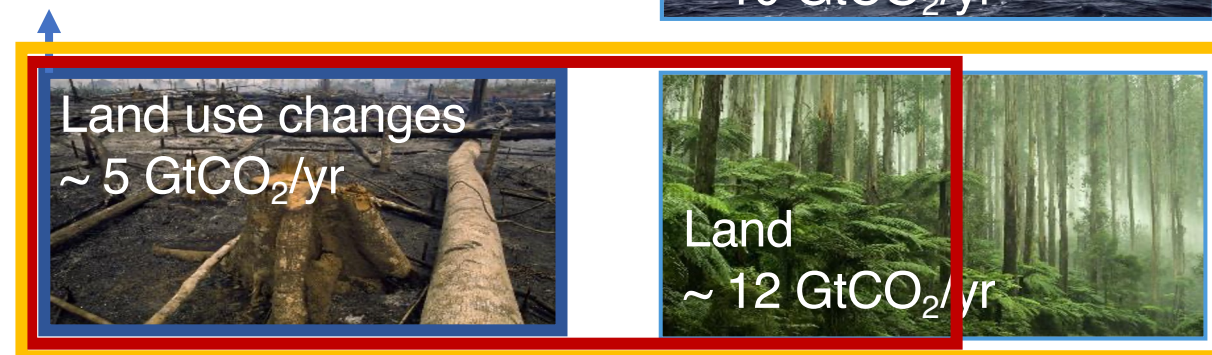
Sources (*anthropogenic*)



Sinks



LULUCF in global models: land-use change, harvest, regrowth



LULUCF in national inventories: GHG flux from managed lands*

Land in Earth Observations

* Where human interventions and practices have been applied to perform production, ecological or social functions.

About the observatory



GLOBAL FOREST
MONITORING



PRODUCTION
AND TRADE OF
COMMODITIES



GLOBAL LAND
USE CARBON
FLUXES



EU TOOLS FOR
FOREST
MONITORING

