

Asger Strange Olesen/Independent Expert



Who's talking

IPCC Reviewer LULUC F EG Moja Global

MSc Soil Geography

Uni

- DK LULUCF
- JI & CDM

- LULUCF Lead at DG CLIMA (529)
- COP17 FMRL

- EC Policy development: CAP, Biomass, Fit-for-55, LULUCF
- GCF Forest and Ecosystem Guidelines

FSC

- Global Climate and Ecosystem Lead: Methodology Development for Scope 3 certification of forest removals
- Linking Forest Carbon Standards

IWC

- Managing forest assets for Timber and Ecosystem Services
- Developing Carbon and Biodiversity MRV and Impact Reporting System for EU Taxonomy Compliance

The parallel universe

- 1. Private demand for LULUCF data is growing and will continue
- 2. Private Standards for target setting and disclosure have developed and are being adopted for transparency and comparability
- 3. A Mitigation Hierarchy Approach drives UNFCCC style reporting and accounting

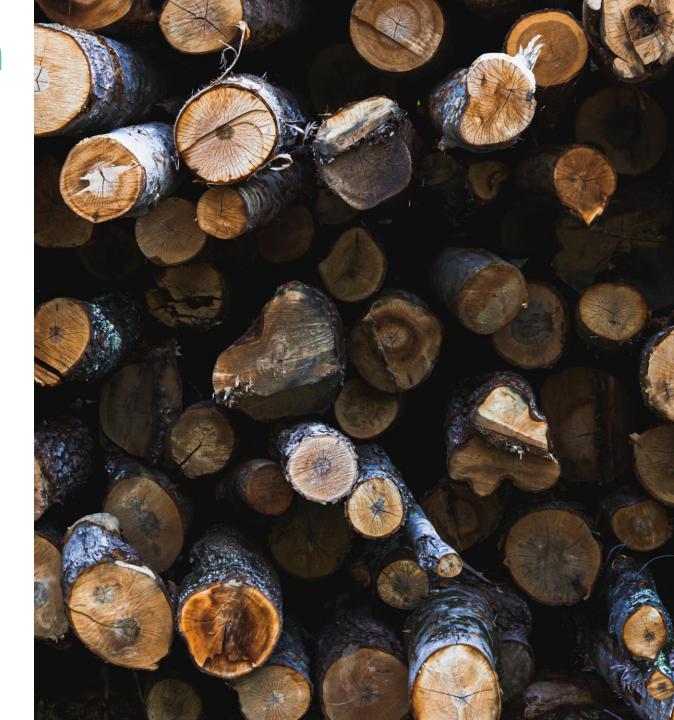


Insights from outreach

DATA and solution INTEGRITY are major challenges for all, even the big front runners

Data can be made, and scalable **TOOLS EXIST** – in combination this will be the game changer Companies fear
GREENWASHING and
lack skills and time –
they feel lost!

Companies market access depend on **FACT-BASED** credible action and **TRUST**

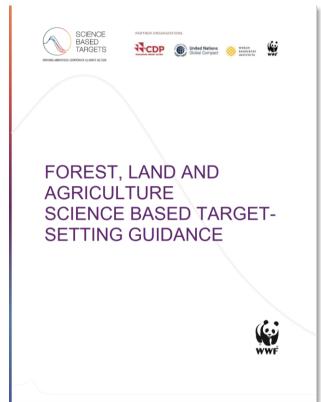


How to report on forest impacts, set forest targets, and disclose climate benefits and risks

Three key resources



Reporting, UNFCCC style.
Occasionally stricter



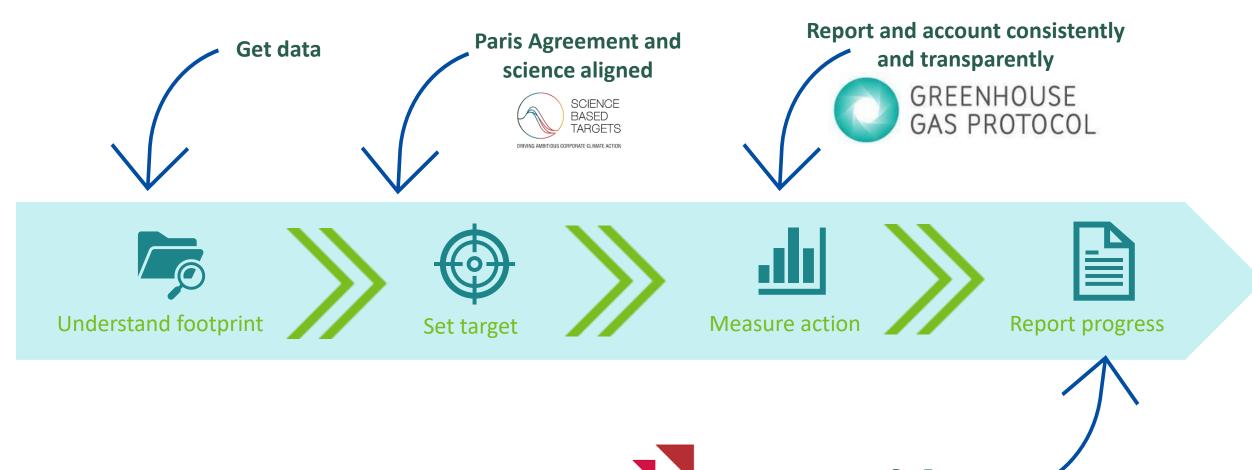
Target Setting and Accounting, updated Kyoto Style.



Activity level CCM and CCA assessment and disclosure

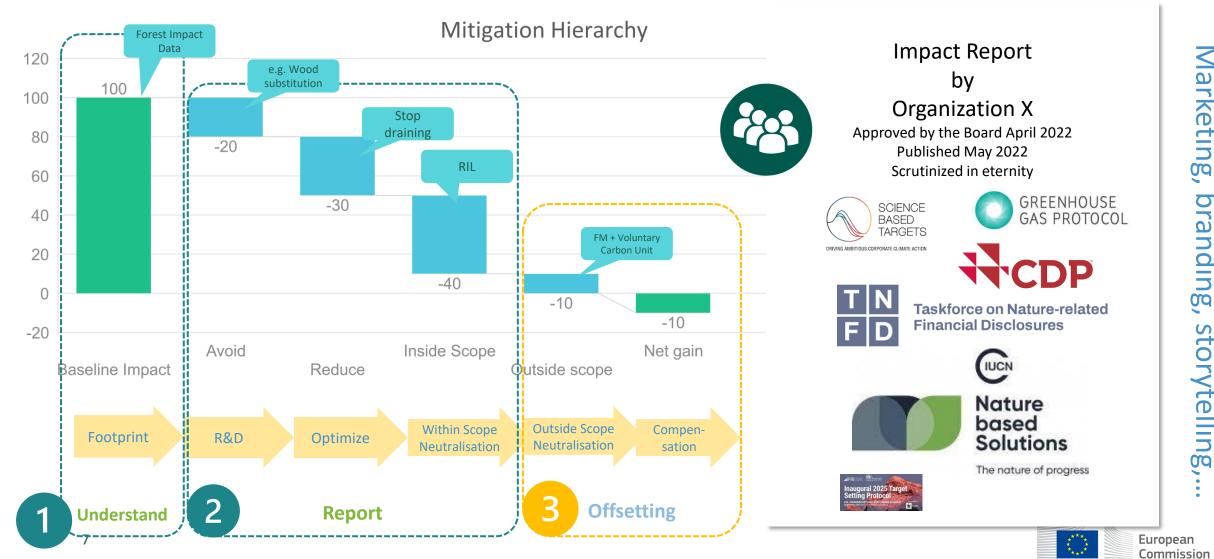


SBTI, GHG Protocol, CDP Transparency, Accountability, Comparability



European Commission

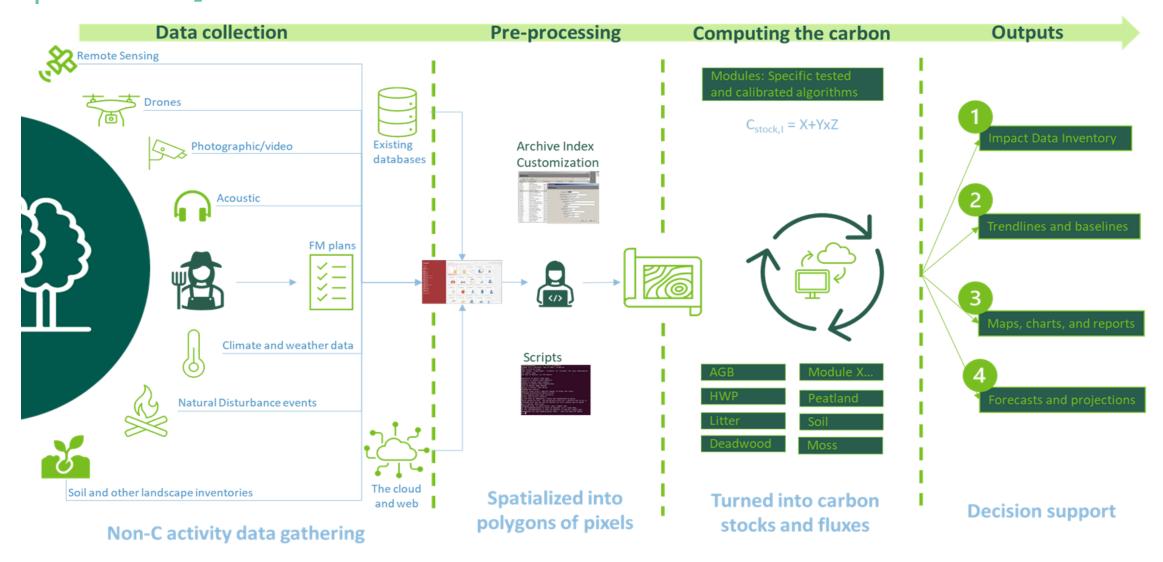
Corporate journey to net-zero: The mitigation hierarchy



It all ends with being able to report and model in accordance with the 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories regarding emissions and removals



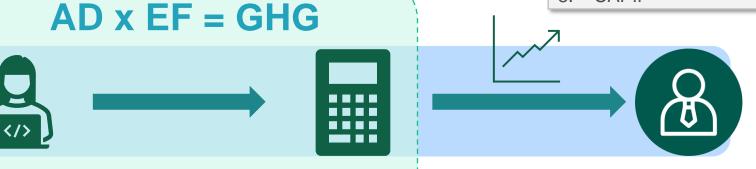
Best practice data flow 2023





carbon removals: by 2028, all land managers should have access to verified emission and removal data to measure carbon farming practices, and all CO₂ captured, transported, used and stored through industrial activities should be reported and accounted; by 2030, carbon farming approaches should contribute to reaching the LULUCF target of -310 Mt CO₂ eq net

- 1. Green Deal/Fit-for-55
- 2. Green Claims,
- 3. SFDR,
- 4. EU Green Taxonomy,
- 5. EUDR,
- 6. Farm-to-Fork,
- 7. Forest Strategy
- 3. CAP!!



Land Management

CRC

Proposal

Processing

Calculation)

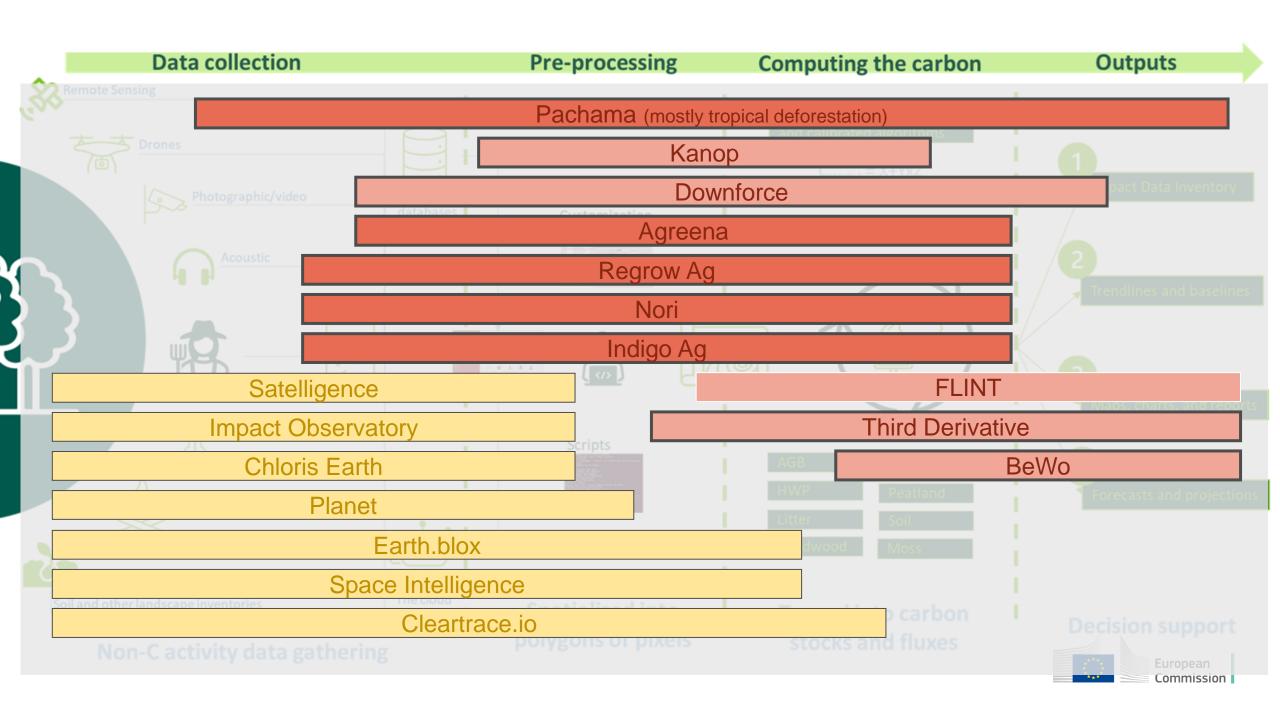
Decisions

Satelligence, Planet, Space Intelligence, Chloris Earth, Earthblox, Cleartrace.io, SEPAL,

Impact Observatory

Pachama, Kanop, Downforce, Third Derivative, Restor,... Agreena, LBC, MoorFutures, Puro.Earth, Indigo AG, Regrow Ag, Nori, FLINT, BeWo,... SBTI-FLAG GHG Protocol Removals PACT SBTN

Private sector



The Data Challenge:

Same same, but different



AD: Statistics, other reporting,...





EF: Journals, databases,...

Territorial, compliance







verification

Depending on exact supply chains







Global Scope 1-3 reporting



Methodologies Established systems with "transparent" standards validation and 3rd party







Accounted and mostly additional, but not recognised in e.g. ETS



Agreena



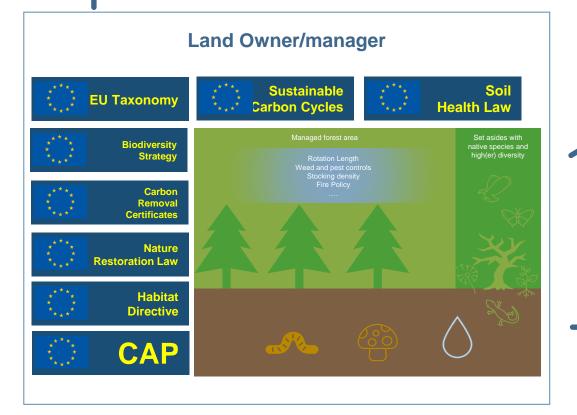


EU Policy Overview

Green deal, Fit for 55, LULUCF, CRC-F, SFDR, EUDR, Nature Restoration Law, Green Taxonomy, CBAT,...





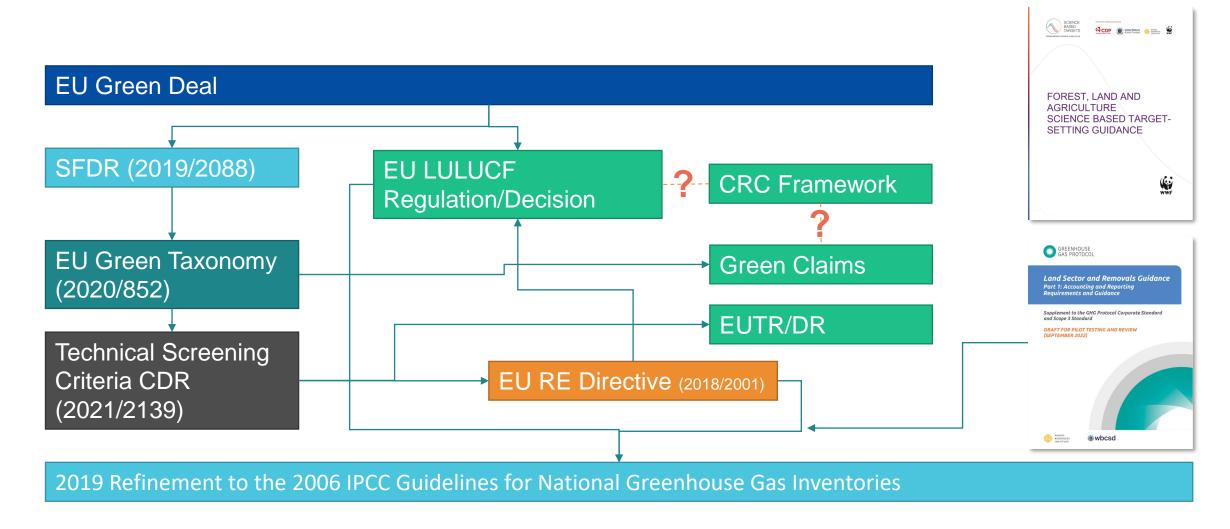








Streamlining and disclosing forest GHG reporting





In 5 years, everyone owning forest above 13ha in the EU wanting to demonstrate carbon benefits:

CDR 2021/2139 FM TSC CCM 2.3

Climate Benefit Analysis

The calculation of climate benefit complies with all of the following criteria

- (a) the analysis is consistent with the 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories (45). The climate benefit analysis is based on transparent, accurate, consistent, complete and comparable information, covers all carbon pools impacted by the activity, including above-ground biomass, below-ground biomass, deadwood, litter and soil, relies on the most conservative assumptions for calculations and includes appropriate considerations about the risks of non-permanence and sequestration, the risk of saturation and the risk of leakage.

 GHG-Protocol requires HWP as well
- (b) the business-as-usual practices, including harvesting practices, are one of the following:
- (i) the management practices as documented in the latest version of the forest management plan or equivalent instrument before the start of the activity, if any;
- (ii) the most recent business-as-usual practices prior to the start of the activity;
- (iii) the practices corresponding to a management system ensuring that carbon stocks and sinks levels in the forest area are maintained or strengthened over the long term as set out in Article 29(7), point (b), of Directive (EU) 2018/2001.
- (c) the resolution of the analysis is proportionate to the size of the area concerned and values specific to the area concerned are used.
- (d) emissions and removals that occur due to **natural disturbances**, such as pests and diseases infestations, forest fires, wind, storm damages, that impact the area and cause <u>underperformance do not result in non-compliance with Regulation (EU) 2020/852</u>, provided that the climate benefit analysis is consistent with the 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories regarding emissions and removals due to natural disturbances.

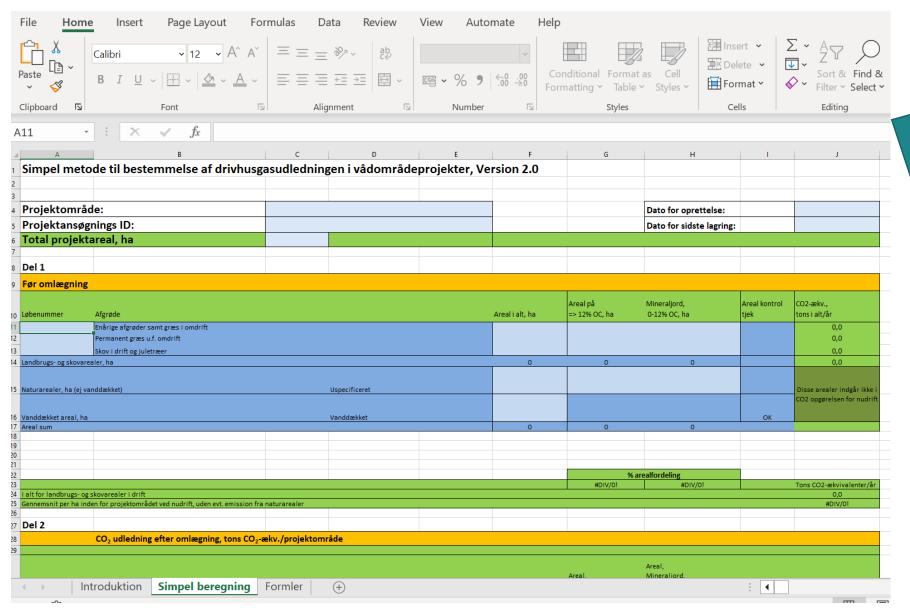


Examples of tools and initiatives

- 1. Project Level Peatland Excel Calculator
- 2. Open source code repository
- 3. Applied dissemination as methodologies and guidelines



Example 1: Simple Calculator Tools



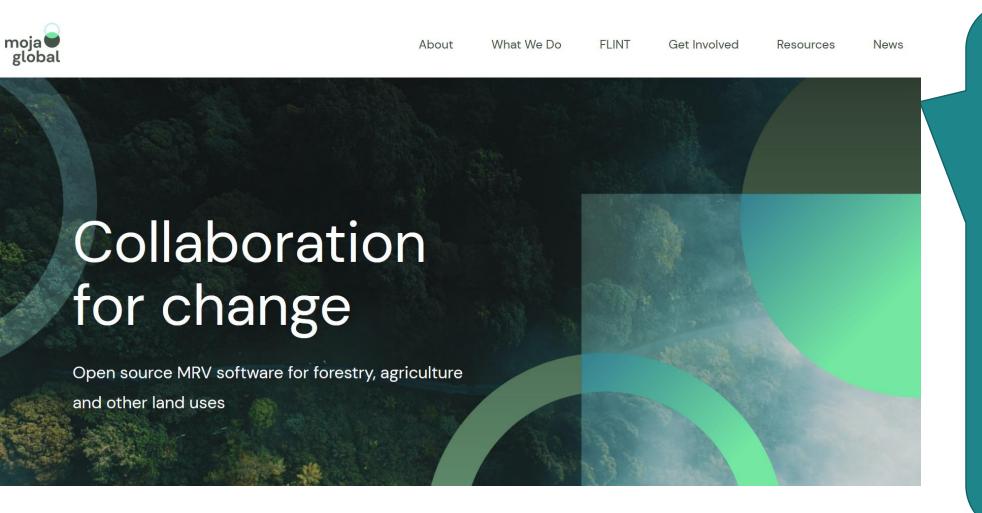
Project Level Calculator for peatland restoration

Free download and use from ministry homepage

By Steen Gyldenkærne



Example 2: Open access source code/algorithms



Moja Global, as open source, git hub based repository for downloadable cloud based modules of the CBM-CFS3 model: FLINT

The algorithms and data processing steps professionals need

By Werner Kurz, Rob Waterworth et al.

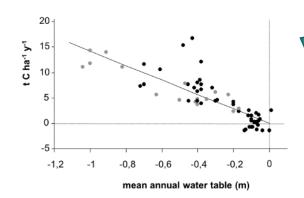
DISCLAIMER!



Example 3: Research driven schemes with dissemination objectives a.k.a. Hans Joosten et al.



The Couwenberg curve.



Couwenberg et al., 2011

Emission response function linking water table, land use, and histic horizons to EFs

"Simple" methodologies

By the MoorFutures team



The Vision

Joint and open data provision \







Territorial, compliance



LULUCF

Open source, shared, updated, repository of Efs, methodologies, tools, databases, HWP!!!





Global Scope 1-3 reporting





Balancing emissions across sectors, based on CRC QUAL.I.TY



Agreena

Thank you

