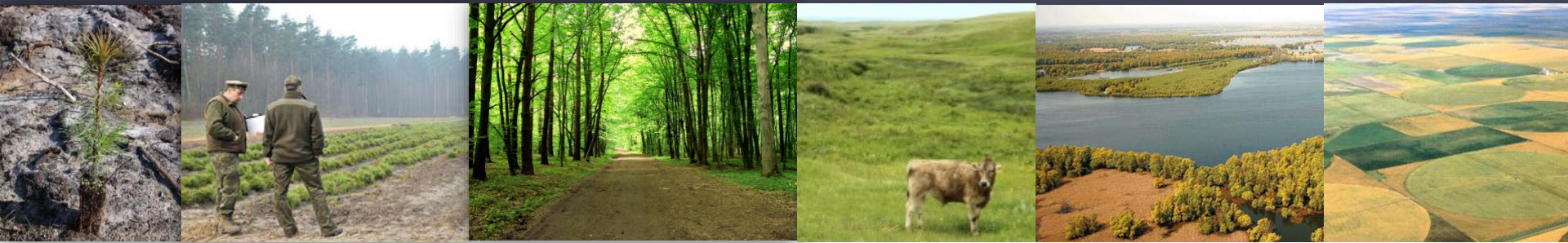


The LULUCF



Tomasz Kowalczewski

Regional training seminar on assessment of GHG Inventories in the Forestry and Other Land Uses
15th of April 2015, Sarajvo

Outline of the presentation

- What is LULUCF?
- What are the origins of this concept ?
- European Climate Change policy
- Looking into future...

LULUCF in CC policy

LULUCF= Land Use, Land Use Change and Forestry
(LULUCF)

UNFCCC Definition: „A greenhouse gas inventory sector that covers emissions and removals of greenhouse gases resulting from direct human-induced land use, land use change and forestry activities.”

Forestry and Land Use in UNFCCC

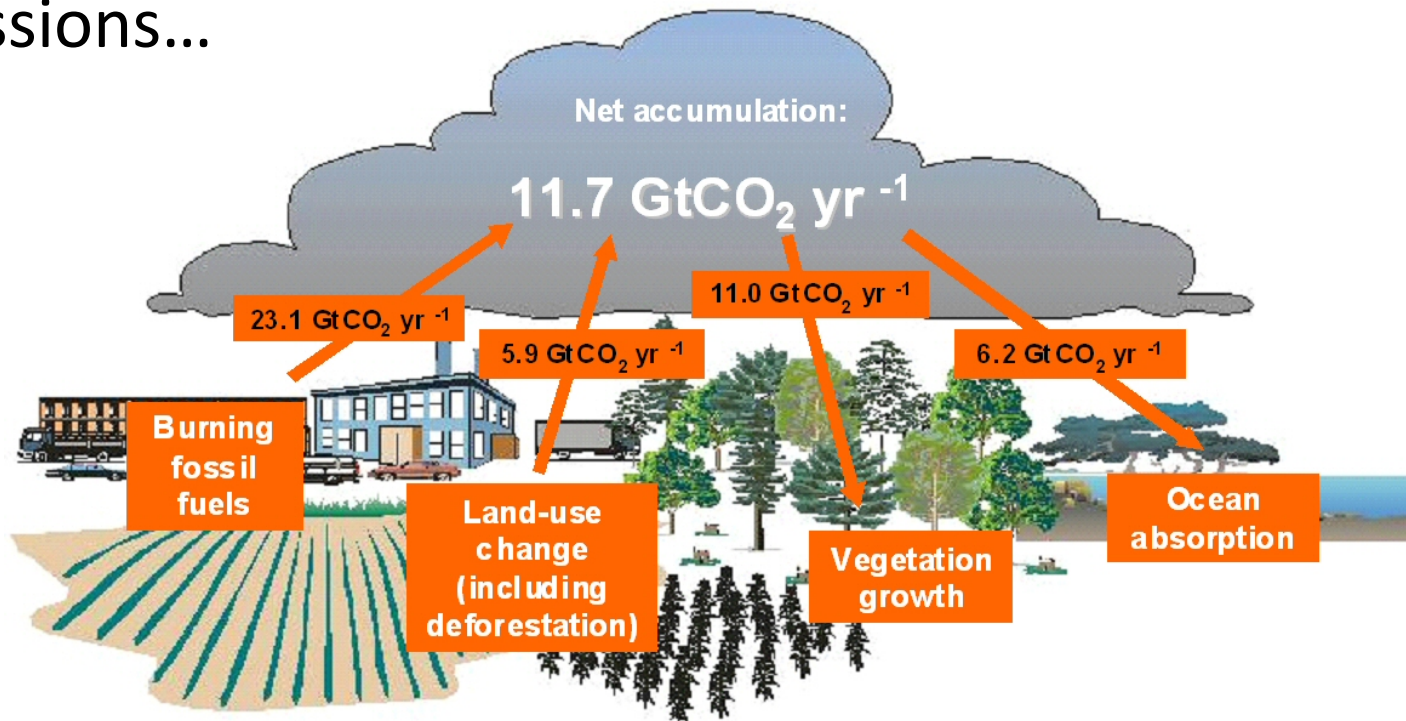
Article 4 has references to commitments relating to the land use, land-use change and forestry sector:

Article 4, paragraph 1(a): Develop, periodically update, publish and make available to the Conference of the Parties,..., national inventories of anthropogenic emissions by sources and removals by sinks of all greenhouse gases (GHGs)....

Article 4, paragraph 1(d): Promote sustainable management, and promote and cooperate in the conservation and enhancement, as appropriate, of sinks and reservoirs of all GHGs not controlled by the Montreal Protocol, including biomass, forests and oceans as well as other terrestrial, coastal and marine ecosystems.

Global terrestrial carbon fluxes

Land use change represents about 25% of global CO_2 emissions...



...and about 15% of world's total **GHG** emissions

What is LULUCF about?

Its about **emissions**....

....and **removals** (plants take up CO₂)

... and **sinks** that may become sources

... and **sources** that may become sinks

... and **fluxes** of GHG that change due to

natural variation and **human induced variation**

... and **slow natural processes** combined with fast human action

...and not least **data uncertainty** (sometimes above 50%)

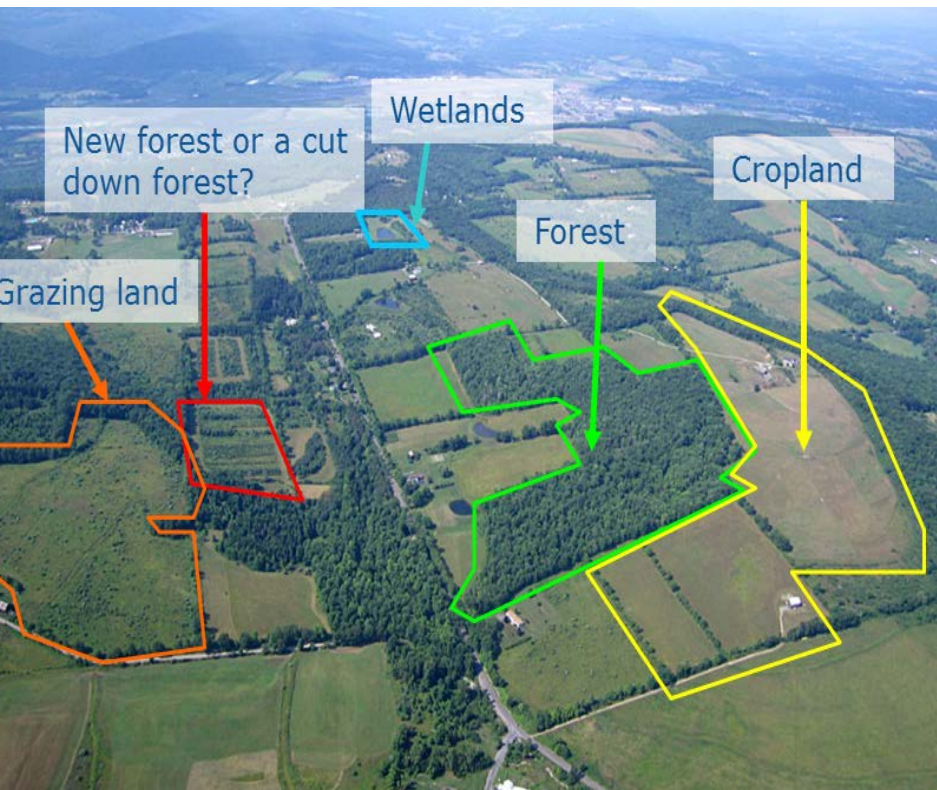
And its only about plots of a certain size

÷ Not your average garden

÷ Not small parks and playgrounds



LULUCF Sector



- Mitigation and adaptation aspects
- The only sector which sequester CO₂ from the atmosphere
- The removals from LULUCF Sector are around 9% of cumulative EU GHG emissions
- Division of the LULUCF:
 - Forest Management ok. 70 %
 - Croplands and Grasslands ok. 17 %
 - Others ok. 13 %

Reporting emission form LULUCF

LULUCF

Wood



Forest Management



Wetlands



Unmanaged forests



Croplands

C in crops in not calculated



soil

Grasslands



soil

Fermentation

Biogas



Decision non-ETS

Energy crops



Fertilisation



European Climate Change policy



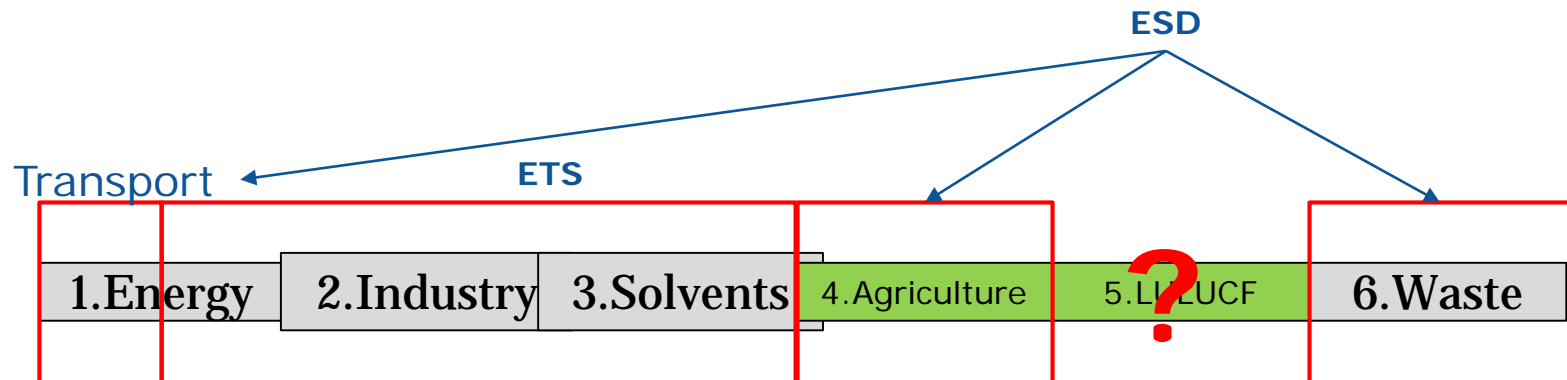
Climate and Energy Package 2013-2020

EU instruments to reach the “20-20-20 target”:

“all sectors of the economy should contribute”

Council and the European Parliament in 2008

- **EU Emission Trading Scheme (ETS)** to contribute to 20% Green House Gas (GHG) emission reductions; target: -21% (2005-2020)
- **Effort Sharing Decision:** regulates GHG emissions in non-ETS sectors;
 - EU 27 emission target for non-ETS sector: -10% by 2020 (relative to 2005)
 - Agriculture included (non-CO₂ GHG, i.e. Methane and N₂O)
 - **CO₂ from LULUCF excluded:** forestry, agricultural soils
- Directive to reach **20% renewable energy** by 2020.



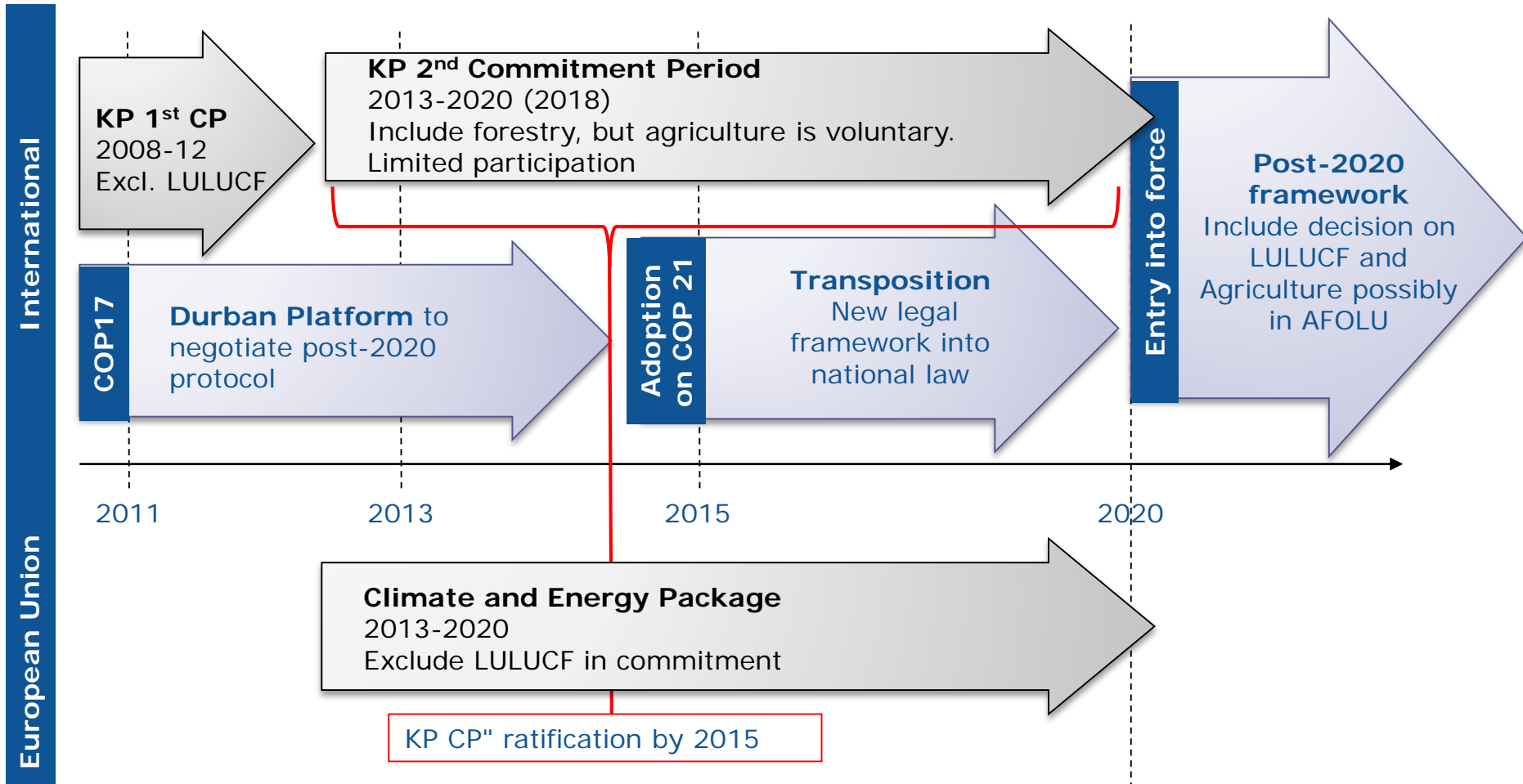
LULUCF and Climate energy package

- **LULUCF is not counting in the European emission target until 2020**
- **Since 2013 Decision LULUCF (UE/529/2013)**
 - Transposition accounting rules form UNFCCC
 - The Reference level for FM 2013-2020
 - Information on actions in the LULUCF Sector
 - Creation of GHG accounts for cropland management and grazing land management
 - Gathering information on the performance of the sector



The future: Steps towards post-2020

The future: Steps towards post-2020



EU Intended Nationally Determined Contribution to UNFCCC

- Reiteration of the EU Council Conclusions
- EU declare to reduce their emissions up to 40 % to 2030 r.
- Legislative proposal will be submitted by the EC in 2015/2016
- LULUCF will be included in to the emission target
- Scope of the reporting will be inline with the LULUCF Decision EU /529/2013



Thank you for
your attention

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