

# Objective of this Meeting

- To hear further evidence and have a first discussion of potential carbon budget ranges.

# Agenda:

- Scene-setting/update on activities
- EU Targets, Brian Ó Gallachóir
- Agriculture economic profile, Teagasc
- Feedback from LULUCF meeting, Secretariat
- State of Play on Carbon Budget Analysis, Secretariat

# Scene Setting: Timeline

- Today: To hear further evidence and have a first discussion of potential carbon budget ranges
- Monday 21<sup>st</sup> : To hear further evidence and advance the discussion on carbon budget ranges
- Tuesday 22<sup>nd</sup> : Scientific expert meeting
- Monday 28<sup>th</sup>: To agree the recommendation and messages on carbon budgets to go to Council.

# Brief Update on Other Activities

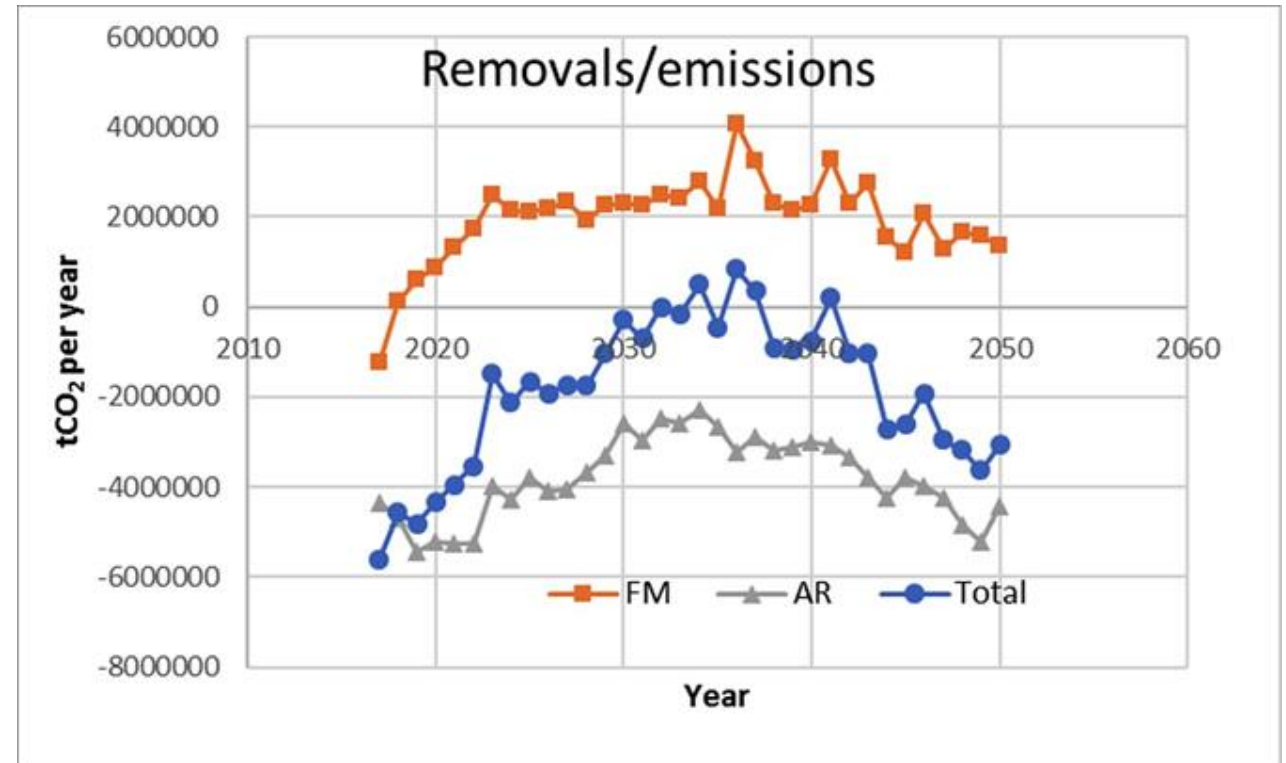
- ESRI analysis
- UCD analysis
- McKinsey
- Skills and Training
- Biodiversity study
- Preparation of documents
- Sectoral Engagement

Over to presentations

# LULUCF:

## Forestry

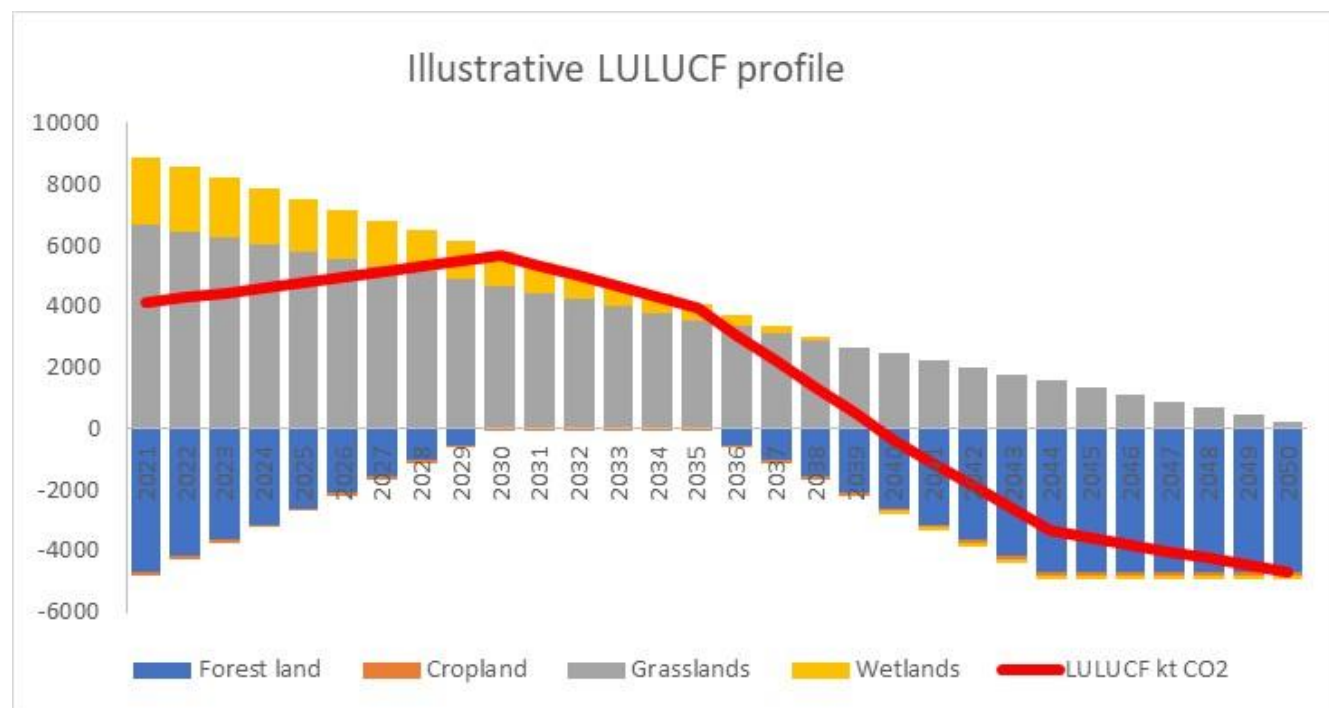
- The national forest land is in a transition phase
- Magnitude of Forest removals decline over the next 10-15 years
- Post 2035 the removals will re-establish itself



<https://www.fers.ie/forest-ghg-projections-to-2050/>

# LULUCF

- Even with rapid and successful deployment of rewetting in wetlands grassland absolute emissions from LULUCF likely to increase in the period to 2030
- Our inventory and understanding of mitigation across LULUCF is improving rapidly



# State of Play on Evidence

- Global Carbon Budget
  - Downscaled GCB
- Programme for Government analysis
- Negative Emissions
- Role of Methane (await input of expert meeting on 22<sup>nd</sup> June)
- Analysis of EU targets
- Scenario Modelling – all of them are 51% reduction scenarios



# Global Carbon Budget

- One-pager in preparation
- Size of Global Carbon Budget
  - temperature goal and probabilities
- Range of downscaled GCB
  - ~280Mt

# Negative Emissions and the role of Methane

- Negative emissions: ~200Mt
  - LULUCF and Technologies
  - Limited contribution to 2030
  - But actions are urgent
  - Take advantage of current rules
- $GWP_{100}$  is the metric for the budgets
- Awaiting input of the expert meeting on the role of methane

# Programme for Government analysis

- 51% by 2030 and 7% reduction on average per annum
  - Note prepared by Brian Ó Gallachóir (April 2021) excl LULUCF

	Climate Bill 2021 (~54Mt)	Climate Bill 2018 start (~60Mt)	Range
CB 1	243Mt	265Mt	213-273Mt
CB 2	179Mt	185Mt	159-199Mt
CB 1+2	422Mt	450Mt	372-472Mt

- Net zero by 2050
  - All energy scenarios are consistent with the 2050 goal
  - A further energy scenario optimizing achievement of the 2050 goal was modelled; this reaches 22.6Mt in 2030 (as opposed to 19.2Mt in the -51% scenario)

# EU Targets

- Note and presentation from Brian Ó Gallachóir
- No certainty on future targets but achieving the 51% would ensure consistency with the existing target and probable consistency with any future target

	Possible New EU Target (~34Mt in 2030)
CB 1	255Mt
CB 2	196Mt
CB 1+2	451Mt

# Scenarios Modelled

	CO <sub>2</sub> & F-Gases	CH <sub>4</sub> & N <sub>2</sub> O	Total	2021-2025 (TIM +CH <sub>4</sub> & N <sub>2</sub> O)	2026-2030	2021-2030
Scenario 1	69%	19%	51%	279 (170+109)	190 (91+99)	468 (261+208)
Scenario 2	65%	25%	51%	279 (172+107)	191 (97+93)	470 (269+201)
Scenario 3	61%	33%	51%	279 (174+105)	191 (105+86)	471 (279+191)
Scenario 4	57%	40%	51%	280 (176+103)	192 (112+80)	472 (289+183)
Scenario 5	51%	51%	51%	276 (176+101)	192 (122+70)	468 (297+170)

- The 51% target is achieved
- 7% per year is not
- Contribution from sector/gases depends on scenario
- Total is approximately the same
- What is our approach for CB3: 2031-2035 ?

## Next Steps: Sectoral Engagement (to be completed by June 28<sup>th</sup>)

- Transport, Heat, Agriculture, Electricity, Industry/Enterprise, Finance
- Secretariat presents scenario analysis of budgets extracted from the relevant models
- One meeting per sector, department officials + other relevant experts
- One or two Committee members to join as rapporteur to the Ctte – secretariat will be in contact for volunteers