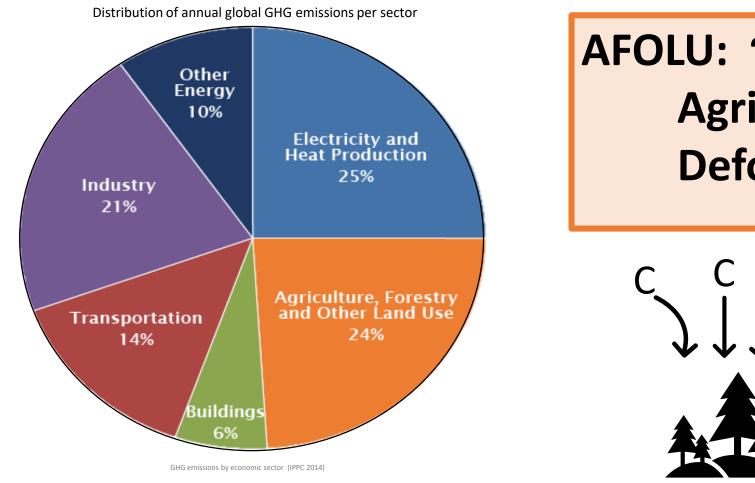
# The Utility of Climate Calculators as Decision Support Tools for the Land Sector

### Imperial College London

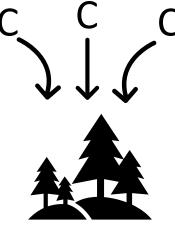
## Victoria Hoare

Supervised by Dr Jeremy Woods & Dr Caroline Howe

#### Anthropogenic greenhouse gas (GHG) emissions vary sector to sector, as well as country to country.



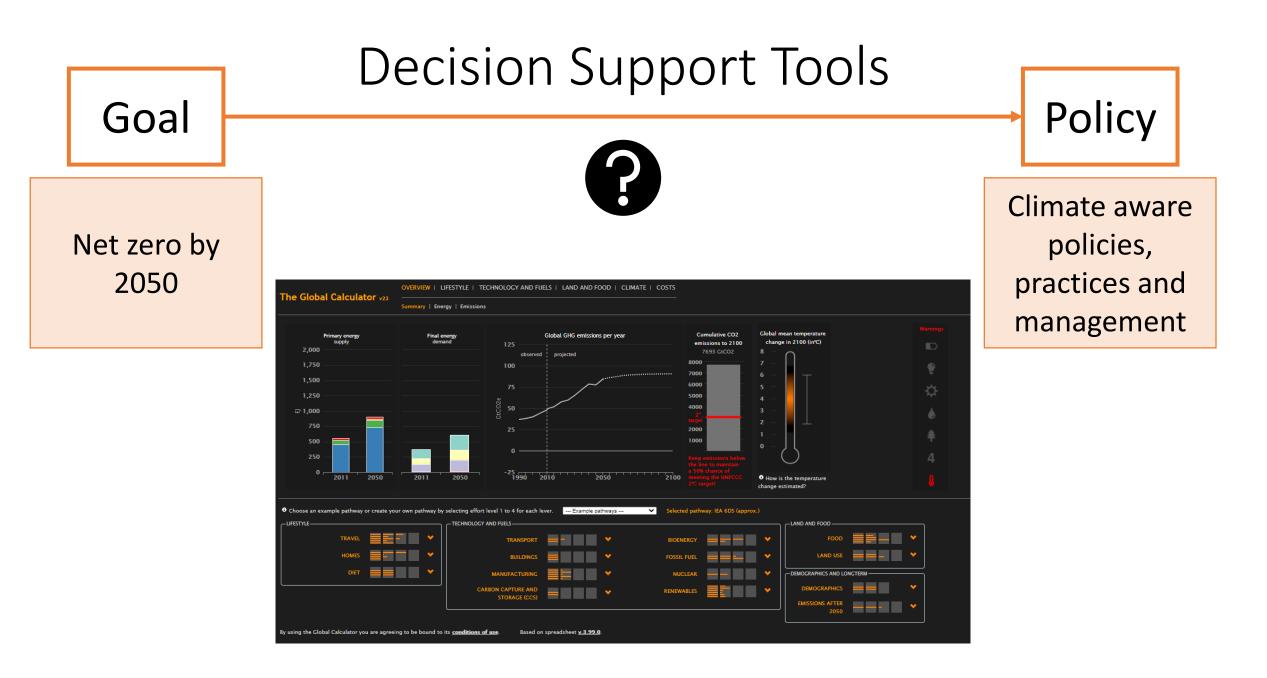
**AFOLU: ~25% Agriculture:** ~11% **Deforestation:** ~12%

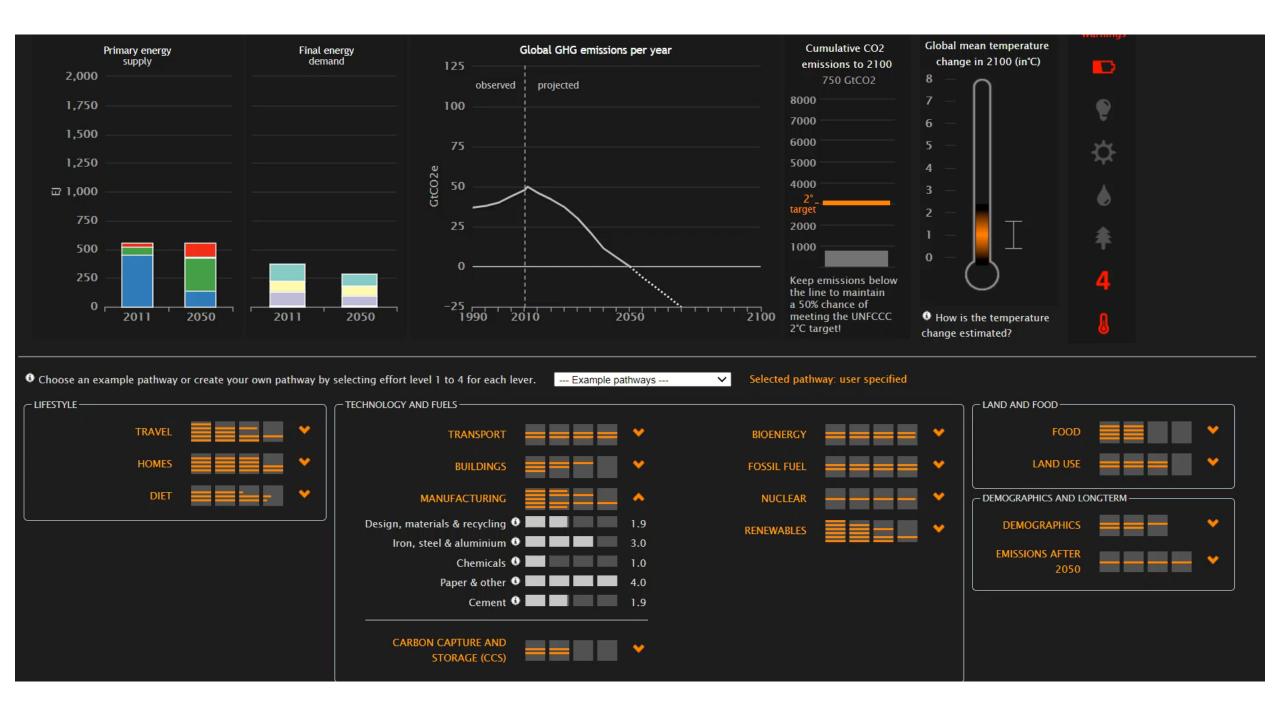


Carbon **Sequestration** 



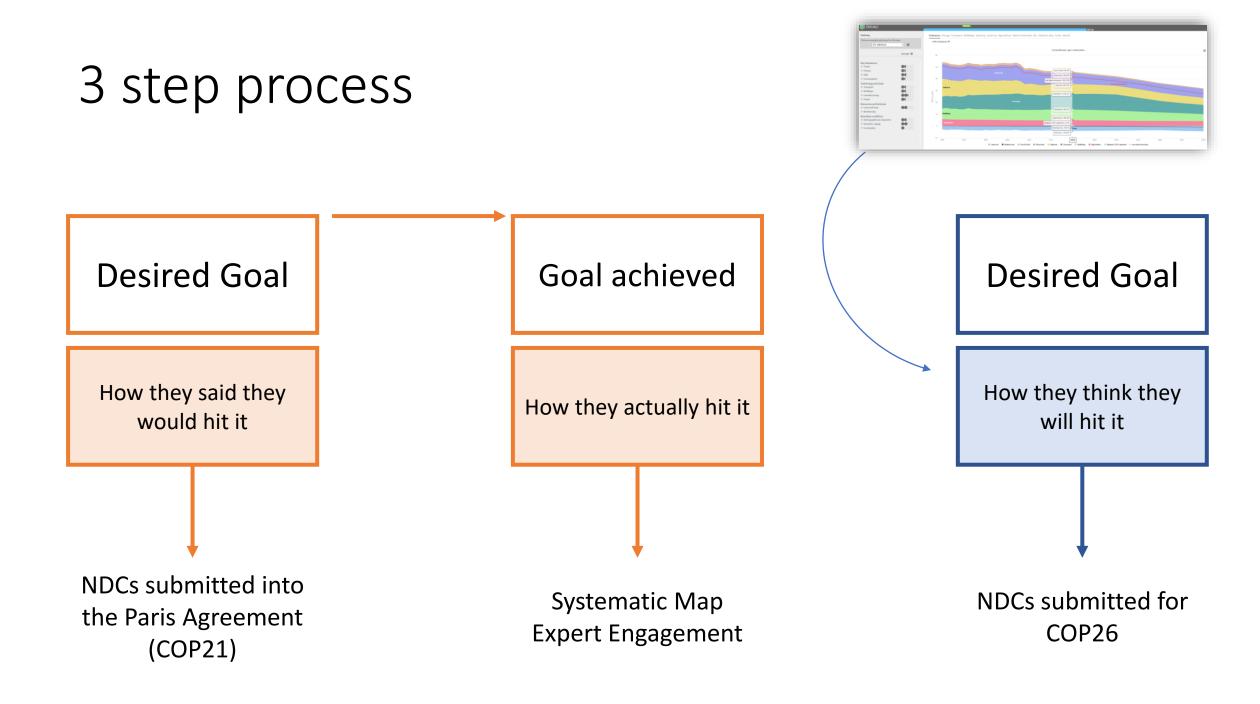
**GHG** emission reduction





Problem Statement

Uncertainty around the utility of climate calculators for climate-smart land sector decision-making, leaves a disconnect between establishment of national climate mitigation targets and the mechanisms by which they are achieved



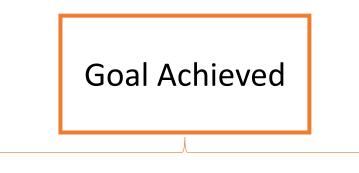
### COP21 NDC Vs Systematic Map

Desired Goal

#### NDC results:

1. Ambitious reductions in the AFOLU sector

2. Limited elaboration on how reductions are achieved

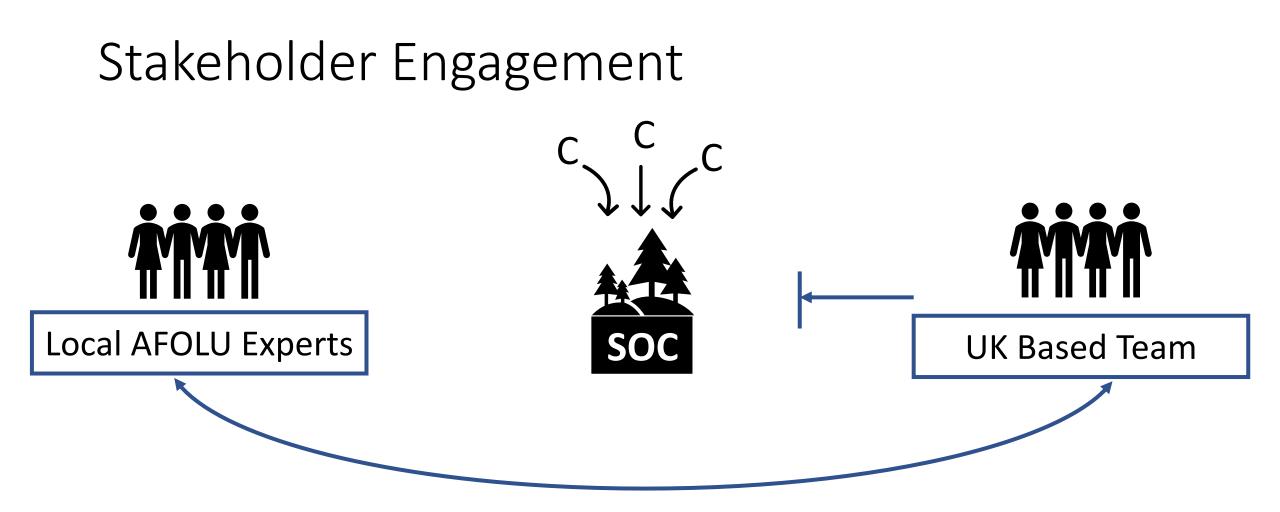


#### **Systematic Map results:**

1. There are more reports on the Global South =

2. No one has been reported in hit their targets

3. Policy regimes (e.g. REDD+) are still being joined



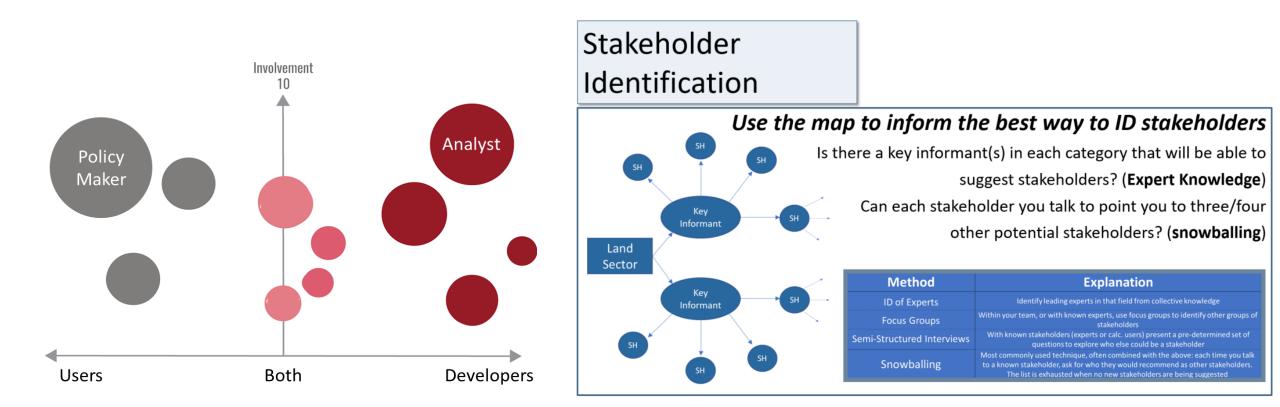
- 1. Dynamics of the land sector since COP21
- 2. Future of the land sector post COP26
- 3. The robustness of the country's climate calculator parameters

### Research Outputs

#### Potential to:

#### - Develop a model

- To recommend future uses of the climate calculators
- Further engage with different countries' climate calculator teams



## Thank you for listening!

Link to the Global Climate Calculator:

http://tool.globalcalculator.org/globcalc.html?levers=22rfoe 2e13be1111c2c2c1n31hfjdcef222hp233f211111fn2211111 111/dashboard/en

Link to the UK National Climate Calculator: http://2050-calculator-tool.decc.gov.uk/#/home

Link to the EU 2050 Climate Calculator:

http://tool.european-calculator.eu/app/emissions/ghgemissions/?levers=1j12112ffl11211mp2b111ffffffpppppp11f 411111e3211r211l21n221



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