



# H2020 call on GHG Verification

Ned Garnett

Head of Atmospheric and Polar Science

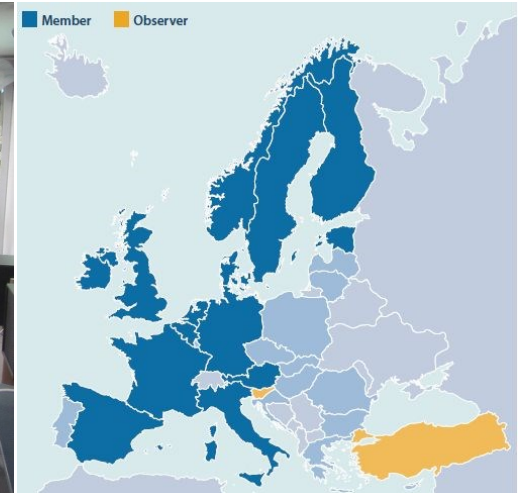
Greenhouse Gas Meeting

4<sup>th</sup> November 2015

# Joint Programming Initiative – Climate



- JPI Climate is a collaboration between 14 European countries to coordinate jointly their climate research and fund new transnational research initiatives.
- Independent from but supported by the Commission.
- Considered action on GHG Verification

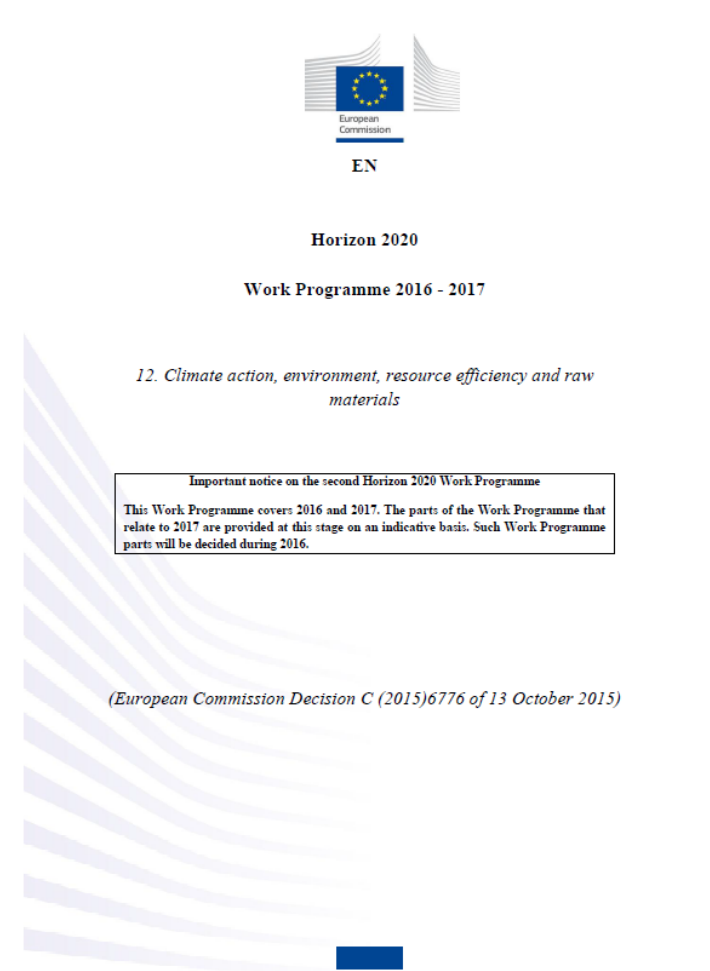


# Joint Programming Initiative – Climate



- Lobbied Commission to include an action in H2020.
- JPI Climate considered joint action.
- Draft H2020 action published between announcing and holding the workshop.
- Dublin workshop 24-25 June 2015
  - The aims of this workshop were to: *review the state-of-play on top down greenhouse gas emissions verification and source attribution, and assess where JPI Climate can advance research in this area as well as potential synergies with linked work under Horizon2020.*

- SC5-4-2017:  
***Towards a robust and comprehensive greenhouse gas verification system***
- Action published 14-10-15.
- Planned opening 8-11-16
- Closing date 7-03-17
- [http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016\\_2017/main/h2020-wp1617-climate\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-climate_en.pdf)



# Scope



- Quantify more accurately the stocks and fluxes of CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O
- Improve descriptions of key processes and feedbacks using state-of-the art methodologies, models and tools
- Exploit observations from a wide range of networks
- Develop robust methodologies to decrease uncertainties associated with emission estimates and better identify human-induced emissions.
- Issues such as data standards, transfer of information and tools, and replicability of methodologies and tools outside Europe should also be addressed.

# Note....

- *The Commission considers that proposals requesting a contribution from the EU in the range of €10 million would allow this specific challenge to be addressed appropriately.*
- *Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.*

# Expected impact:

- facilitating the development of an operationalised greenhouse gas monitoring, reporting and independent verification system;
- improving the ability to monitor and verify greenhouse gas emissions under an international climate agreement;
- supporting EU climate policies by providing reliable information on greenhouse gases in Europe;
- providing input to key international programs and assessments (Global Carbon Project, IPCC, Future Earth).

# Next steps....

- Tried (and failed) ....
  - to get a joint call for small pilot studies and community building;
  - insufficient countries able to commit funds over the required timescale.
- So ....
  - potential funds from NERC to support preparatory activities by the UK;
  - must be open to the whole UK community.
- Ideas...?



