GLOBAL RESEARCH ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

Country report : Denmark

Presentation to IRG Annual Meeting

Cali, 5 February 2019

Specific contributions to IRG

GLOBAL RESEARCH ALLIANCE
ON AGRICULTURAL GREENHOUSE GASES

Soil carbon modelling comparisons (bare soil) (CTOOL model)

Contributions to MAGGNet database

CIRCASA contributions (in particular stakeholder surveys for soil carbon – survey for 2000 farmers in Denmark)

Participation in EJP-SOIL proposal

Projects, initiatives and contributions to IRG's topics

GLOBAL RESEARCH ALLIANCE
ON AGRICULTURAL GREENHOUSE GASES

SINKS2: managing and improving soil carbon inventory

ERAGAS projects (EU ERA-net): ResidueGas, CEDERS, MAGGE-PH, PEATWISE (focus on improving inventories and link to mitigation)

Aarhus University iCLIMATE interdisciplinary center with pillar focused on agriculture (focus on farm scale linked to circular economy)

Agriculture in Denmark contributes 21% of total national emissions. Unver the EU climate agreement non-ETS emissions should be reduced by 39%. There is a great political and public focus on agriculture also to contribute.

For the first time, agricultural organisations and industries are seriously starting to commit to reducing GHG emissions, and are desperately seeking guidance.

Opportunities, future actions and funding

GLOBAL RESEARCH ALLIANCE
ON AGRICULTURAL GREENHOUSE GASES

ERAGAS2 (EU ERA-Net)

EJP-SOIL

Industry funding – supplemented by government (e.g. milk levy)

National research program on agricultural GHGs (12 M€ for 3 yr)

Virtual farm lab at AU-Foulum for exploring GHG mitigation technologies targeting zero-emission agriculture (iCLIMATE)

Opportunities, future actions and funding

GLOBAL RESEARCH ALLIANCE
ON AGRICULTURAL GREENHOUSE GASES

Focus areas for mitigation of GHG in agriculture

- Feeding of cattle (feed additives)
- Biogas
- Manure management (acidification, cooling, cover, etc)
- Fertilizer types, nitrification inhibitors
- Biorefining (grass for protein feed)
- Conservation agriculture
- Farm scale and chain+cycle perspectives
- Ensure measures are captured in inventories


GLOBAL
RESEARCH
ALLIANCE
ON AGRICULTURAL GREENHOUSE GASES