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ON AGRICULTURAL GREENHOUSE GASES

# Country report : Netherlands



Presentation to IRG Annual Meeting  
Cali, 5 February 2019

# Specific contributions to IRG

- A. Two PhD students from the CLIFF-GRADS programme (ISRIC):
  - a. 'Accounting for errors in SOC estimates introduced by proximal sensing methods'
  - b. 'Assessing the impact of land use change scenarios on soil organic carbon stocks'.
  
- B. Workshop (planned) on the System of Environmental-Economic Accounting (SEEA), with a focus on IRG aspects of the GRA. Link to monetary modules (taxes, costs, subsidies, CO<sub>2</sub>-permits, ...). Analysis of decoupling GHG emissions from agricultural production and physical material flows. (CBS)

# Less-specific contributions to IRG

- A. Flagship: Circular Food Systems. Understanding and assessing the feasibility, potential and GHG emissions of circular food system. Circular Food Systems include all aspects of agricultural production; soils, resources, plant production, animal production, manure management.
  - a. Understanding circularity of food systems at farm/ local/national/regional scales, including a benchmark of current policy
  - b. What are barriers in the transition towards a circular food system
  - c. What kind of research is needed to support the transition towards circular food systems
  - d. Assessing the feasibility, potential and GHG emissions of circular food systems

# Projects, initiatives and contributions to IRG's topics

Following renewed attention on climate change, several initiatives were initiated by the Dutch Government. Key elements are action and impact. Compared to 1990 → 2030: reduction of total emissions with 49%; → 2050: reduction of total emissions with 95%

- A. Climate neutral agriculture and food production, circular agriculture. Example: Climate envelope, EJP SOIL & GRA-Flagship.
- B. Climate-proof rural and urban areas. National Adaptation strategy, insurance.

Link with Wageningen UR foci:

1. Circular and climate neutral
2. Food security and the water food nexus
3. Data driven and Hightech

Networks:

- EU-networks: CIRCASA, EJPSOIL, FACCE-JPI
- SEEA-network
- ...

# Projects, initiatives and contributions to IRG's topics

## Contributions to NDCs:

- ISRIC (Within the framework of the Global Soil Partnership) trained mapping specialists from 15 countries in the use of digital soil mapping techniques for developing national maps of SOC stocks. And co-developed SOC stock maps for: Bolivia, Democratic Republic of Congo, Costa Rica, Cuba, Iraq, Kazakhstan, Mongolia, Mozambique, Nigeria, Paraguay, Tunisia, Tanzania, Ukraine, Uzbekistan and Zambia.
- Climate table agriculture and land use (Klimaattafel landbouw en landgebruik)

Compared to 1990 -> 2030: reduction of total emissions with 49%

Agriculture and Land use: Reduction 3,5 Mton CO<sub>2</sub> eq.

Methane from animal production: 1 Mton CO<sub>2</sub> eq.; Land-use, Nature and

Forestry: 1,5 Mton CO<sub>2</sub> eq.; Greenhouse horticulture: 1 Mton CO<sub>2</sub> eq.

# Opportunities, future actions and funding

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- System of Environmental-Economic Accounting related activities.
- Flagship related activities
- EU, national



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