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ON AGRICULTURAL GREENHOUSE GASES

# Country report : New Zealand



Presentation to IRG Annual Meeting  
24-25 June 2021

# Specific contributions to IRG

- Co-lead of the Inventories and NDCs Network
- Supporting the Netherlands through the GRA Secretariat to establish structures of the **Circular Food Systems network**
- Member of **CIRCASA** and the **new IRC**
- **Funder** of the **joint calls** and providing funding for GRA to act as a funder
  - EJP-Soils Call
  - ERA-NET Circularity Call
- **Funder** of the **CLIFF-GRADS** scholarship for PhD candidates from developing countries
  - **Six research areas:** Nitrous Oxide (26 awardees), Soil Carbon (26), Enteric Methane (24), Farm systems (24), GHG Inventory (13), and Rice Systems (11)
  - **New coordinator** to facilitate the programme - Ekaterina Bessonova of Ryan Institute NUI Galway

# Projects, initiatives and contributions to IRG's topics

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## Soil Carbon Sequestration

- **MsocM** - Multiscale soil organic carbon monitoring to support GHG mitigation strategies on agricultural land (Multi-scale, NZ focus) – potential to expand this work to Uruguay
- **Full Inversion Tillage** to accelerate soil carbon sequestration (Farm scale; NZ, Germany & Ireland)

## Farm to Regional Scale Integration

- **ERA-GAS PEATWISE** - Wise management of drained peatlands in order to minimize GHGs while maintaining biomass production (Farm/regional scale; NZ, Norway, Sweden, Denmark, Netherlands, Finland & Germany)

## Circular Food Systems

- **Banana losses and waste mitigation** – Quantification and mitigation of the Sri Lankan banana postharvest losses and their GHGs (national scale; led by NZ)

## Inventories & NDCs

- **DATAMAN** - Establishment of a Database and Inventory Refinement for GHG emissions associated with Manure (Multi-scale; global focus)
- **MELS** – Improvement of DATAMAN to include additional inventory equations and emission factors including for housing (Multi-scale; global focus)
- **Livestock Climate Lens** - Building capability in international development projects to understand and mitigate agricultural emissions. Active in Africa, ASEAN and Pacific (national scale; NZ and Australia co-funded)
- **Kenya, Viet Nam, Indonesia and Fiji Inventory Improvement** – Supporting countries to move their agricultural inventories to tier two (national scale; NZ and Australia co-funded)

# Opportunities, future actions and funding

- FONTAGRO **Soil Carbon monitoring** programme in **Latin America**
- **Building capability and capacity** to develop agricultural inventories in Africa and ASEAN
  - \$15M funding from MFAT for **inventory improvement in ASEAN** and **Southern and Eastern Africa**
  - Priority countries are being identified
- Projects arising from the joint calls
  - A funder of the first external call of **EJP-Soils**
  - A funder of the **ERA-NET Circularity call**
- Farm planning and modelling
  - Development of tools and methodologies, case studies
- Exploring farm level emission reporting
- Establishing and connecting with the **indigenous networks**



## Contact Us

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