



Multi-partner Call on Agricultural Greenhouse Gas Research

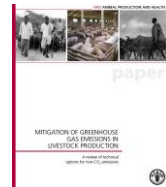


GLOBAL NETWORK for the development and maintenance of database with nutrition-related strategies for mitigation of methane and nitrous oxide emissions from ruminant livestock

- 2014 – 2018 (**490,120 euro**)
- **Co-ordinator:** Alex Hristov
- Participating **partners:** Teagasc (Ireland), MTT (Finland), INRA (France), CSIC (Spain), Reading U (UK) and Pennsylvania U (USA). Collaborators: Netherlands and Switzerland.

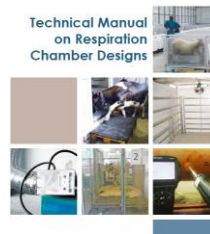
- Objectives:

- ▣ - CH₄ Database: FEED and ANIMAL (**FAO database**) – **individual data**
- ▣ - Genetic and microbial factors to variation in CH₄ emissions
- Validation of markers
- Develop Standard Operational Protocols for in vitro and in vivo
- N efficiency database
- Identify and recommend mitigation technologies



In vivo approaches

- Respiration chambers
- SF₆
- Emerging alternatives
 - Green Feed
 - ‘Sniffer’ approaches
 - Short term ‘box’ measurements
 - Other proxies – milk MIRS/[FA], faecal archaeol, et
- **Recommendations and guidelines needed, including experimental applications, replication needed, limitations, interpretation, etc.**



Participating countries

GLOBAL
RESEARCH
ALLIANCE
ON AGRICULTURAL GREENHOUSE GASES

Australia, Canada, Chile, China, Colombia,
Denmark, Finland, France, Germany, Indonesia,
Italy, Ireland, Japan, Malaysia, the Netherlands,
New Zealand, Norway, Spain, Sweden, Switzer-
land, United Kingdom, United States, Uruguay

