

# Webinar agenda

**10:00 – 10:20** *Introduction and overview of the AHN*

(**Ilias Kyriazakis**, Newcastle University, UK)

**10:20 – 10:40** *Cattle health and GHG emissions in sub-Saharan Africa*

(**Michael Macleod**, SRUC, UK)

**10:40 – 11:00** Challenges and priorities for modelling livestock health and pathogens in the context of climate change

(**Seyda Özkan Gülzari**, Nibio, NO)

**11:00 – 11:20** Introducing the GRA Livestock Research group

(**Martin Scholten**, Wageningen UR, NL)

**11:20 – 11:40** UK Interaction with the GRA

(**Luke Spadavecchia**, Defra, UK)

**11:40 – 12:00** Concluding remarks

(**Ilias Kyriazakis** and **Dirk von Soosten**)



Department  
for Environment  
Food & Rural Affairs

# Animal Health and Greenhouse Gas Emissions Intensity Network Webinar

2 October 2017

Presented by: Professor Ilias Kyriazakis, Newcastle  
University, UK



Forestry Commission  
England



Environment  
Agency

# Overview of presentation

- Animal Health and GHG – What is the issue?
- Introduction to the GRA and Animal Health Network
- Sources of further information



# Animal Health & GHG – What is the issue?

## Global importance

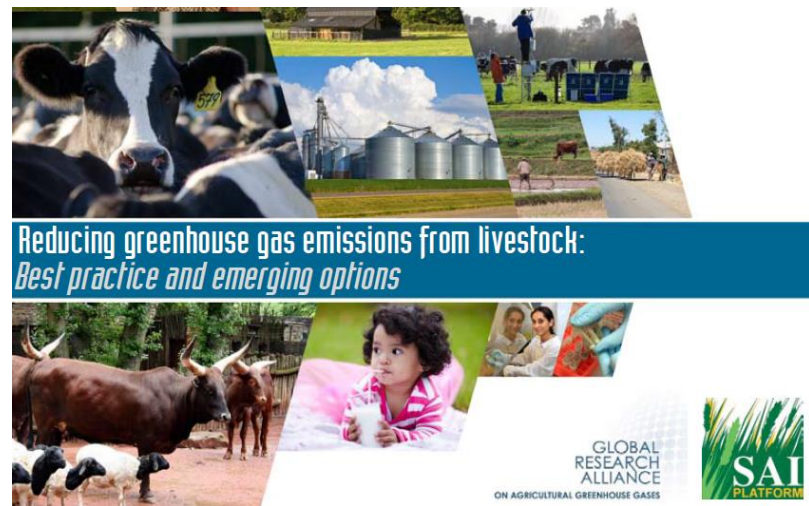
- 40% agricultural GDP
- Employment
- 1/3 of humanity's protein
- Demand ↑
- Production ↑
- Environmental impact?



Steinfeld et al. (2006)

# What can be done?

- On average, 20% animal disease losses due to animal diseases
- ↑ mortality
- ↓ fertility
- ↓ productivity (disease & parasite)
- = ↑ **emissions intensity** (individual & herd level)



# Global Research Alliance (GRA)

- Scope
  - Increase agricultural production with lower emissions
  - Improve global cooperation in research
  - Working with farmers and partners to provide knowledge
- Structure
  - 4 Research Groups (including Livestock Research Group)
  - Alliance Council and Secretariat
- Further info at [www.globalresearchalliance.org/](http://www.globalresearchalliance.org/)

# Animal Health Network context and aim

- GHG emission intensities from livestock farming could be reduced through efficiency and production gains resulting from improved livestock health
- The Network aims to bring together researchers (in veterinary science, epidemiology, animal science, modelling etc.) to explore links and synergies between animal disease control and reductions in GHG emission intensities

# Network objectives

1. Share information on current and planned research and funding activities
2. Maintain and enhance capacity in this field of research
3. Encourage and facilitate a joined-up approach
4. Establish common agreement on priority issues and explore funding opportunities
5. Pursue synergies with stakeholders and other relevant initiatives



# Network Co-ordinators and Champions

- Lead Network Co-ordinator: Professor Ilias Kyriazakis (Newcastle University, UK)
- Past Joint Network Co-ordinator: Dr Tim Robinson (FAO, Italy)
- New joint Network Co-ordinator: Dr Dirk von Soosten (Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, Germany)



Network Champions:

Abdul Chaudhry, Michael Macleod, Jos Houdijk (UK); Wim van der Poel (NL); Seyda Özkan Gülzari (NO)

*Champions in other countries are welcomed*

# Network Secretariat

- *Secretariat role is due to be taken over by Dr Dirk von Soosten (FLI, Germany)*

**To date, the establishment and running of the network has been carried out by ADAS (UK):**

- Funded by Defra for 3.5 years
- Central contact point
- Network promotion and communications
- Members database
- Organisation of Network meetings/workshops

# Progress to date

- Wide promotion to increase membership
  - >80 members across 25 countries
- 5 Network Champions
- 3 Annual Network workshops (Ireland, France & Denmark)
- 1 regional workshop (Ethiopia)
- Developed links with FACCE-JPI, MACSUR, GASL, STAR-IDAZ and NEAT
- Identified potential funding routes
- Communications e.g. UK newsletter

# Links with initiatives and networks



GLOBAL AGENDA FOR SUSTAINABLE LIVESTOCK

# Examples of relevant research

- Modelling the Impact of Controlling Endemic Cattle Diseases and Conditions on Greenhouse Gas Emissions. (Led by ADAS, Defra project AC0120) (final report available on Defra Science website)
- Periparturient parasitism and methane intensity for lamb production (SRUC, Scottish government funded) (Houdijk *et al.* 2015 *Adv Anim Biosci* 6, 258)
- Cattle health and GHG emissions in sub-Saharan Africa (**Michael Macleod to present findings today**)
- Challenges and priorities for modelling livestock health and pathogens in the context of climate change (**Seyda Özkan Gülzari to present findings today**)

# Network information

- Network Secretariat:

*Members will be contacted by the new secretariat*

- UK Agri-Science & Innovation Newsletters

- GRA Livestock Research Group Newsletters

- Network webpage on the GRA website [www.globalresearchalliance.org](http://www.globalresearchalliance.org)

