

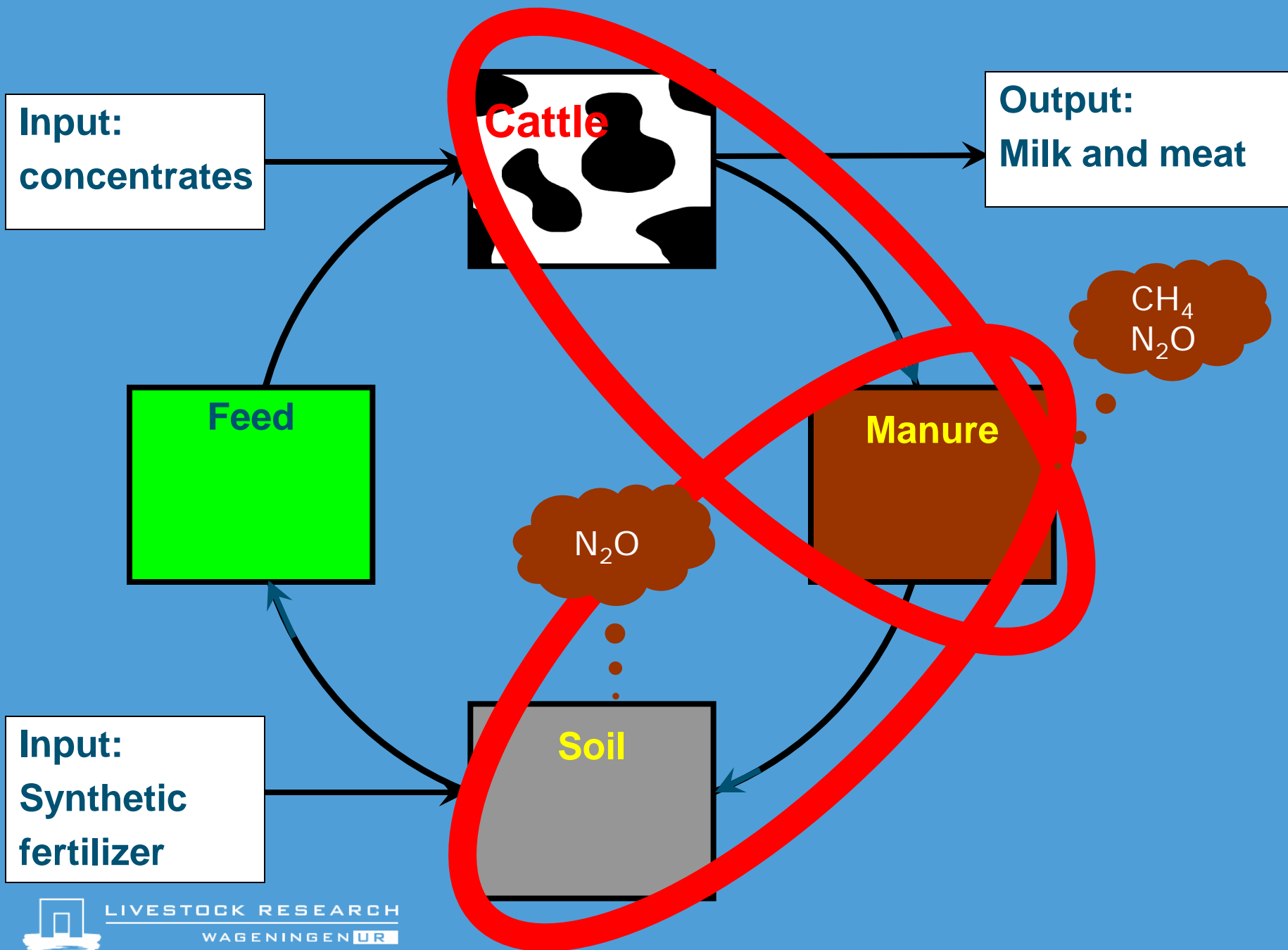
# Manure Management Network of the GRA

Current activities in GRA

GRA meeting Warsawa, April 9, 2014 / Theun Vellinga



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# What is integral manure management?

The whole chain:

- Excretion
- Housing/storage
- Anaerobic digestion
- Other treatment
- Storage
- Transport
- Application

Integral manure management is required to exploit the full value of manure in the form of biogas and nutrients and to reduce emissions to air and water



# Focus of the Manure Management Network

- MMN focuses on the emissions of:

- nitrous oxide
- methane
- their interactions

along the complete manure management chain

- Nitrous oxide emissions

- direct from nitrogen sources
- indirect via volatilization and leaching of nitrogen



# MMN activities

- Development and alignment of methodologies for measuring
- Research on emissions of methane and nitrous oxide
- Dissemination of results via
  - Scientific publications
  - Notes of the MMN
  - Training of researchers and others
- Emphasise the link to food security.



# The Livestock and Manure Management Component

- A project developed by the
  - Global Agenda for Sustainable Livestock
  - Global Research Alliance
- Funded by:
  - The Climate and Clean Air Coalition (CCAC)
- Focusing at:
  - Broker and facilitate knowledge and advisory services
  - Support and coordinate MM networks
  - Assist actors to develop skills and expertise
  - Foster a culture of innovation



# Manure is like money

Accumulated it's a problem

Well spread it's a blessing

Throwing away is a waste



You need the stuff  
to keep the system going!



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# Thank you

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