LiveM and the knowledge hub concept: Grassland and livestock modelling in MACSUR Phase 2

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Introduction

1. The challenges of collaboration
2. The ingredients for success
3. What is our niche?
4. The LiveM approach
5. Working across themes
6. Opportunities for links between LiveM and TradeM
Coopetition

(Brandenburger and Nalebuff, 1996)

Game theory analysis applied to understand cooperation between competitors

Players
Added Value
Rules
Tactics
Scope
Value Net

Customers

Competitors

Suppliers

Complementors

Focal Player
Funding bodies
Own institute

Researchers (own / different fields)
Other groups demanding funds

Manufacturers
Academic journals
Researchers (own / different fields)
Institute

Researchers (own / different fields)
Tech firms
Education system
Research Value Net

Researchers can be competitors, complementors and suppliers

Academics face a challenge if they wish to rationally determine their strategy
Actual motives

“To develop long-lasting relationships with others in similar areas of interest”

“There are fundamental questions to address, and the hub provides a good platform for this”

“Development of models through inter-comparisons etc. is very important and interesting, technically and in terms of improving ecological understanding”

“Opportunity to continue work in agriculture and CC, to meet other grassland modellers and to link grassland with livestock production”
Solving complex societal problems

Rational self-interest
Competition
Limited inter-disciplinarity
Limited work across institutes

Commitment to finding solutions
Desire to work with others and learn
Emergent collaborative outputs

Fragmented approach

Knowledge Hub

Trust

Structural design for inter-disciplinarity

Time and funding
What is our niche?
What is our niche?

- Arena to share modelling findings and approaches
- Opportunity to synthesize outputs and develop new skills and approaches
- Opportunity to grow new bids through exploring complementarities

MODELLING CAPACITY TO CONTRIBUTE TO SOLVING THE SOCIETAL CHALLENGE OF CLIMATE CHANGE IMPACTS ON AGRICULTURE AND FOOD SECURITY
LiveM in 2015-2017

Grassland and farm-scale modelling

- Grassland vulnerability
- Grassland quality
- Bringing together grassland and farm-scale modelling
- Linking models in livestock farming productivity
- Scaling to the regional level

Livestock Productivity

- Impacts of CC on animal health, disease and productivity
- Impacts of impaired health and disease on emissions
- Modelling adaptation
- Modelling the impact of climate change on livestock productivity at the farm-scale

Coordination

Cross-cutting activities and project outputs
Deliverables

High impact state-of-the-art paper

Further focussed papers

Practical steps

Initial workshop
Synthesis, state-of-the-art

Work-plan based on scientific priorities, expertise and resources

Focussed workshops according to work-plan

Networking and capacity

Links to other themes

External links: GRA, ATF, AgMIP, other projects

Inputs from XC work (stakeholder group, training etc.)

Contributions to XC work

Joint reports with other themes and external groups

Funding bids, contributions to consultations
Synergies to explore
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