FACCE-JPI Knowledge Hub
MACSUR TradeM-Workshop
Economics of integrated assessment approaches for agriculture and the food sector

Halftime in MACSUR - what have we learned and what comes next?

Martin Banse
Thünen Institute, Braunschweig
Oslo, 26-27 November 2014
FACCE-JPI core themes

1. Integrated assessment of food security
2. Sustainable intensification
3. Tradeoffs with ecosystem services
4. Adaptation to climate change
5. GHG mitigation
FACCE Knowledge Hubs

• An instrument building on the concept of “Networks of excellence”

• Brings together research groups *that already have funding* in an thematic area

• The support given can be coordination costs, travel expenses and thematic workshops. Countries may choose to support research and/or mobility.
Vision of MACSUR

• MACSUR as a network of scientists
• with an expertise to develop shared methodologies
• assessing the impact of CC on European agriculture for food security with models
FACCE MACSUR structure

Coordination of Knowledge Hub

CropM
TradeM
LiveM

Methodological case studies
Regional pilot studies

Capacity building

Cross-cutting activities
Science excellence
Network activity
Different scales ~ different models

- farm-level models, diverse approaches
  - FAMOS, MODAM, mathematical farm investment models
- regional and national models
  - optimization of investment, resource use, or food security
- international and global models
  - international trade and policies
- sector models (farm-EU-global)
MACSUR Mission

• MACSUR advances science on the modeling of agriculture under climate change to improve food security through interdisciplinary European collaboration

• MACSUR works to the benefit of European policy makers and public institutions, farmers, food consumers, and extension services
MACSUR Mission

• MACSUR’s aim is to
  – bolster European capacity in responding to the challenges of global change for agriculture and food security
  – assist countries outside the EU in their endeavors towards sustainable agriculture and food security in the face of climate change
FACCE MACSUR

- Project started 1 June, 2012; runs 3+2 yrs
  - individual partners start June-August 2012
- Meetings of WP-leaders at Theme level
- Kickoff-Workshop
  - 15/16 October 2012, Berlin
- Various Workshops
  - at Theme level
    - TradeM in Haifa (03/2013) and in Müncheberg (11/2013)
    - CropM in Oslo (02/2014)
    - LiveM in Bilbao (10/2014)
FACCE MACSUR

• Various Workshops
  – at Hub level
    • Braunschweig (06/2013)

• Summer schools / teaching activities

• We are the number one in
  – Modelling Agriculture with CC for Food Security in Europe!
  – Close collaboration with initiatives at global level

• Connected in intern’l research projects/programs
How do we collaborate?

• Differently compare to large-scale IP projects
• Some partners collaborate on the basis
  – of shared interest in an agricultural product,
  – of shared scientific discipline,
  – of an interest in a specific region or country or
  – of a common set of stakeholders
Collaboration with AgMIP

- Memorandum of collaboration
- Invitations to MACSUR events, publication contributions sent to AgMIP
- AgMIP global workshops:
  - 18-20 Feb 2015, Florida
  - Joint MACSUR/AgMIP conference in 2016
- Submission for organized session at the IAAE conference in Milan 2015
Regional Pilots

• Three different regional pilots
• Finland - Austria - Italy
  – where the consequences of climate change are felt
  – where we can identify mitigation potential and promising adaptation strategies
• high degree of reflecting climate change
• incorporating natural resources (e.g. water and soils)
• diversity of European farming systems
Stakeholder interactions

- stakeholder e-mail group, *xc-stake*
- paper on engagement methods
- presentation for stakeholders
- presentations at upcoming conferences in Berlin and Copenhagen
- Stakeholder Congress, Brussels, 6 May
Visibility

• Special MACSUR issue in GJAE (German Journal of Agriculture) is out
• Expo Milan 2015 together with the FACCE secretariate
• Tri-annual Congress of Int‘l Association of Agricultural Economists
  – Milan, August 9-14
    • Organized Symposia on MACSUR/AgMIP
Finalizing MACSUR1

• **Science Symposium**
  – 8-10 April, Reading, UK
    • Presenting our results of 1\textsuperscript{st} phase of MACSUR
    • Planning for 2\textsuperscript{nd} phase of MACSUR

• **Stakeholder Congress**
  – 6 May, Brussels
    • Presentation of results
    • Eliciting input
    • Decision-makers, farmers’ organizations, other agro-business representatives
Some reflection at Halftime

• In MACSUR-1 most work done and organized at Theme level
  – It was unclear how much leadership is required
  – Also due to the ‘new’ structure of a KHub

• In MACSUR-2 importance of cross cutting activities will increase
  – Commitment of time by the hub leadership needs to be higher

• Need: clearer statement of how leadership should be provided
Lack of commitment
Guidance and scientific leadership

- Currently MACSUR is organized in a bottom-up way
  - leads to confusion about the vision and our joint way of research

- Need: a clearer vision for the overall direction of the network
  - To help bottom-up activities interact better in xC-activities

- Key effort for Hub coordination in phase 2
From MACSUR1 → MACSUR2

- Keeping the general structure of the three Themes
- But we are asked for 'answers' (Niels Gøtke on Mid-Term Meeting Sassari)
- These answers won’t come out of a single Theme activity!
MACSUR2: Work in XC Activities
What do we plan?

- Model comparison & improvement
- Uncertainty and risk assessment
- Capacity Building
- Regional case studies
- Impact Assessment for Europe
- Overall scenario development
What do we plan?

- Variability and extreme climatic events
- Identifying sustainable opportunities to reduce yield gaps in Europe
- Feeding livestock
- Impact on ecosystem services and rural development
- GHG mitigation from agriculture
MACSUR2: Work in XC Activities
Vision of MACSUR

- MACSUR as a network of scientists
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Summary of Kick-Off 10/2012

• Strong focus of work to be done at Theme level

• Involve the MACSUR partners from the other Themes
  – Tell them what you need and expect!
  – Tell them what you can contribute to their work!

• We all rely on our activeness, power and motivation