

# 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-JPI Knowledge Hub





# 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.





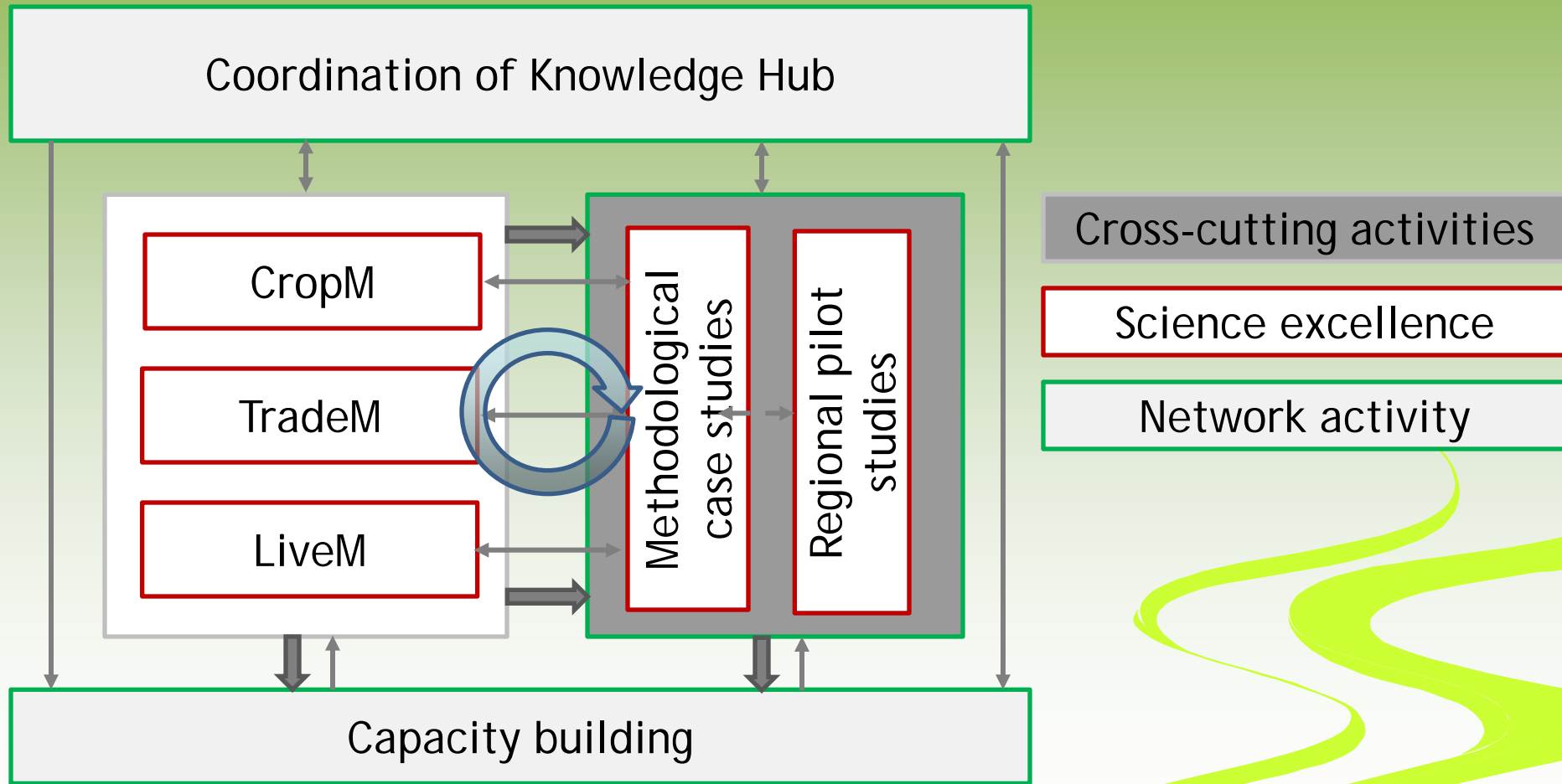
# Vision of MACSUR

- 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





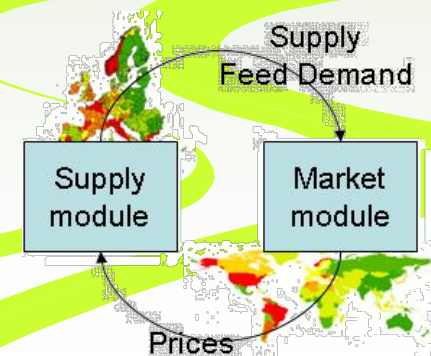
# FACCE MACSUR structure





# 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

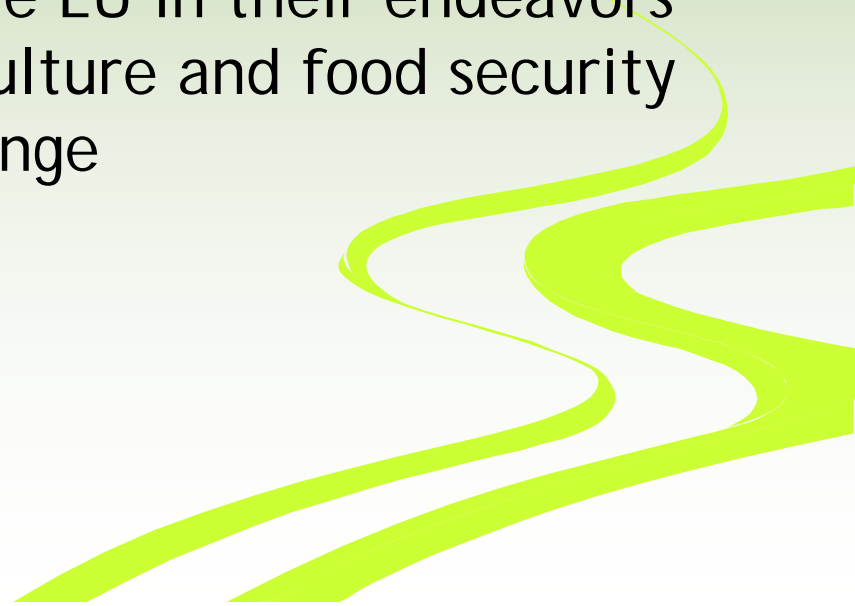
- MACSUR advances science on the modeling of agriculture under climate change to improve food security through interdisciplinary European collaboration
- MACSUR works to the benefit of European policy makers and public institutions, farmers, food consumers, and extension services





# 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<sup>st</sup> phase of MACSUR
    - Planning for 2<sup>nd</sup> 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

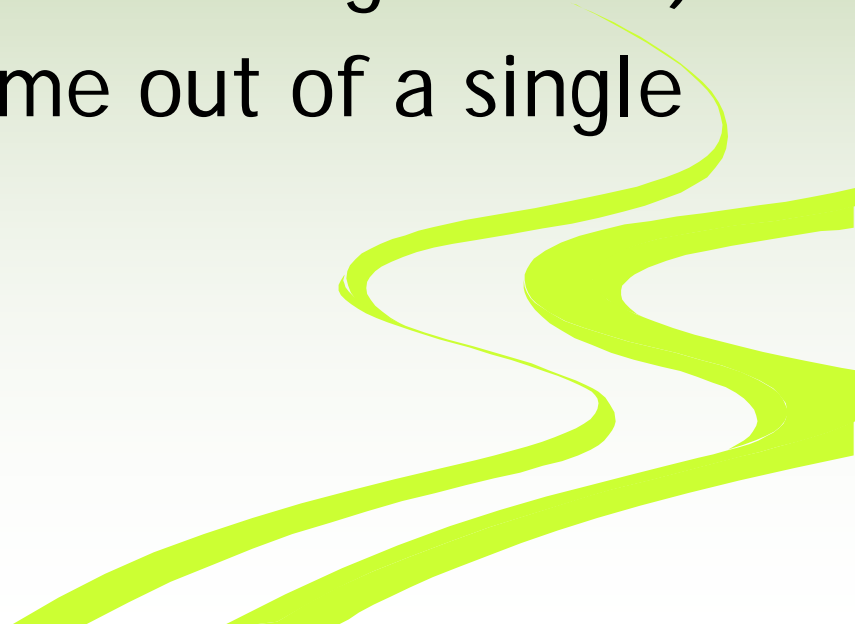
## Guidance and scientific leadership

- 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



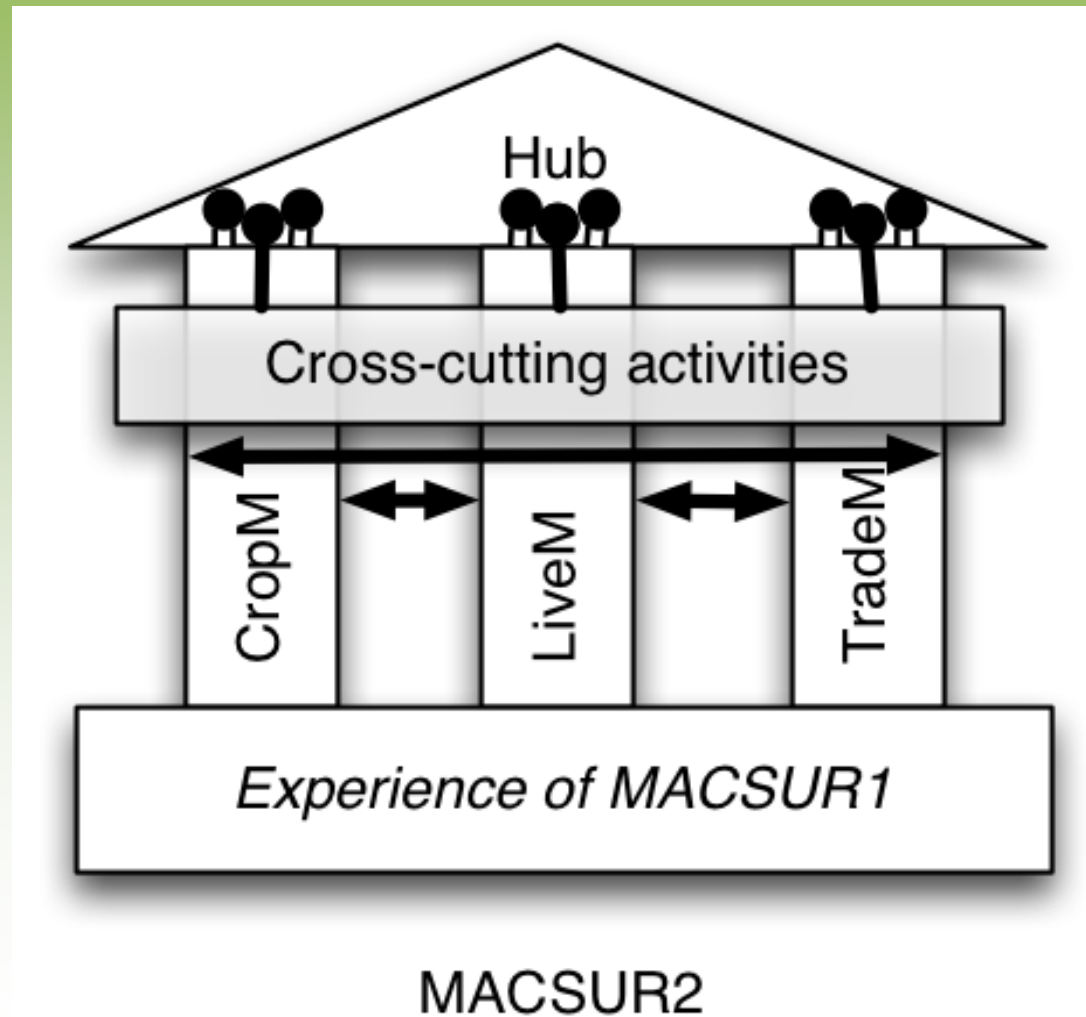
# From MACSUR1 → MACSUR2

- 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





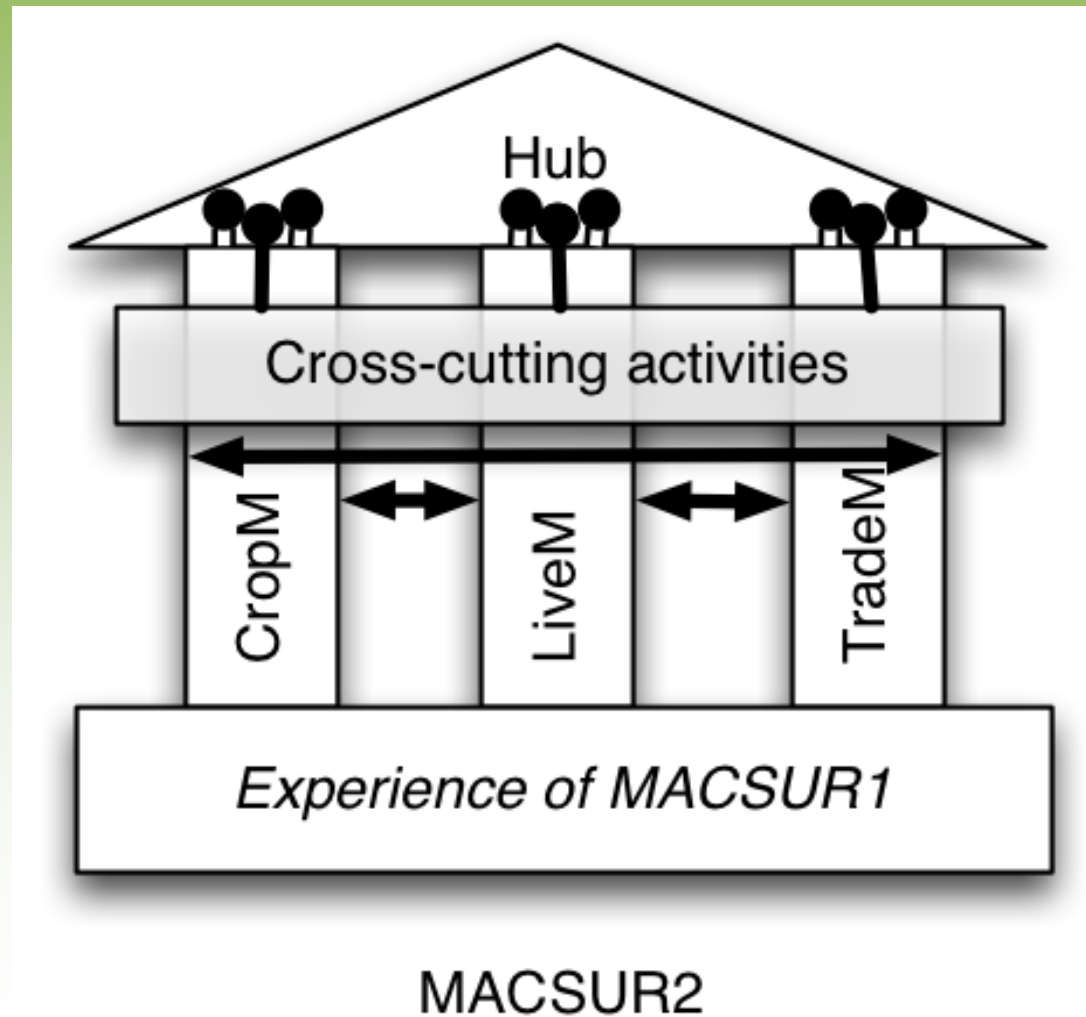
# What do we plan?

- 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







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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