

Adapting farming systems to climate variability and change in Europe: the Macsur (www.macsur.eu) experience

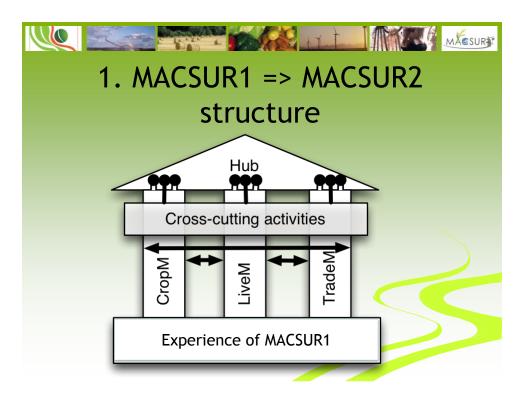
Reimund P Rötter (Georg-August-Universität Göttingen/Germany) (formerly Luke/Finland) – contributions by various Macsur members

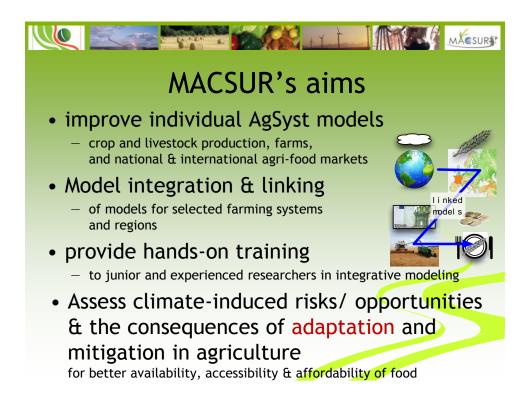
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CONTENTS

- Introduction to MACSUR: structure, objectives and major accomplishments
- Motivation for this session introduction to modelling adaptation of agricultural systems to CC
- Some points for discussion





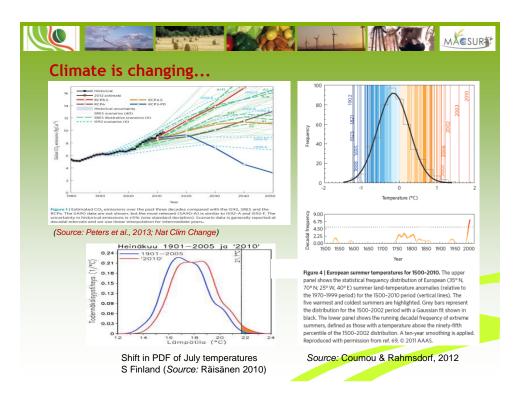


- MACSUR *2012, 17 countries, 180 members, 0-1M €
- MACSUR 2015, 18 countries, 300 members, phase 2 started in June 2015 (⇒ May 2017)
- output after 3 years
 - 300 papers
 - 500 presentations
 - 20 workshops/conferences
 - 13 funded new projects
 - 20 PhD/MSc students



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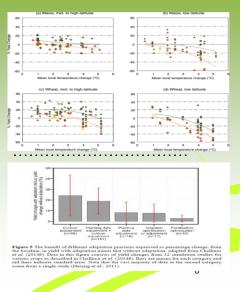




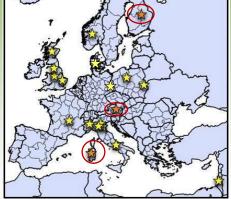


Modelling adaptation of ag systems

- Jeff White's review (2011): modelling studies mostly simplistic: mono-crops, pl. time, cultivar, irrig, N fert
- IPCC WGII : Easterling et al 2007; ---- Porter et al 2014 (and Challinor et al 2014, Rötter, 2014 in NCC)
- Van Wijk et al 2014 review paper bio-economic modelling studies - and Vermeulen 2013; Lobell 2014







Finland: Northern Savo Austria: Mostviertel Italy: Oristano, Sardinia

Focus: 2020, 2030, 2050

Integration of models; participation of regional and national stakeholders



3. Points for Discussion

- 1. What were the key questions/challenges discussed in each paper ?
- 2. How has the research presented contributed to addressing these challenges?
- 3. What next steps were suggested for each case and commonly, and who should be involved?
- → in particular for the 3 regional cases: which are key drivers for making farmers change their practices (i) access to weather information (ii) assets related to household and agric production, (iii) participation in local social institutions.

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