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Vul'Clim – Climate change vulnerability studies in the region Auvergne (France)

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Modelling European Agriculture with Climate Change for Food Security
— a FACCE JPI Knowledge Hub —



Vul'Clim – Climate change vulnerability studies in the region Auvergne (France)

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(scientific supervision)

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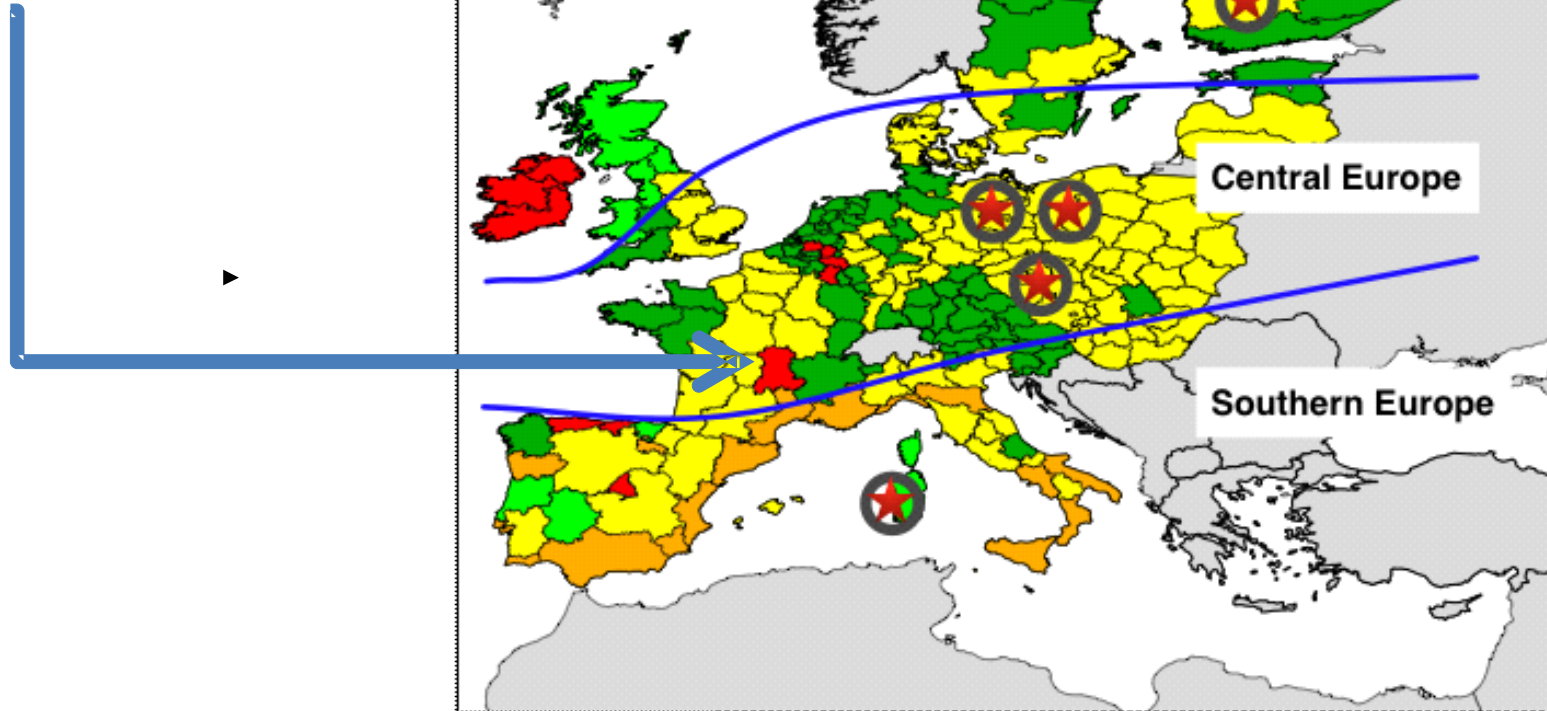
French National Institute for Agricultural Research, Clermont-Ferrand, France

FACCE MACSUR Mid-Term Scientific Conference
University of Sassari, Italy
01-04 April 2014

Auvergne region of France :

grassland-based (beef and dairy) cattle production territory

Region Auvergne



confirmed
Regional
Pilot
Studies

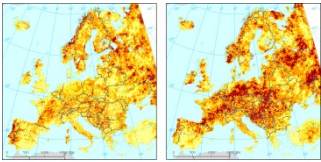
Farming systems from SEAMLESS project

- arable/cereal and mixed farming
- permanent crops and arable/specialised crops
- beef and dairy cattle with permanent grassland
- dairy farms
- sheep and goats farms

Vulnerability assessment of
grasslands to climate changes

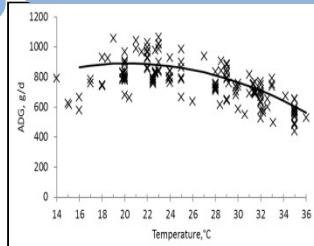
Vulnerability assessment: what a challenge for research?

Characterisation of the pressure
on the agro-ecosystems



Exposure indicators

Estimation of responses



Sensitivity indicators

Characterisation of evolution scenarios

Context: technical, economic, social, etc.

Coping capacity

+ / -

+ / -

Potential impacts

+ / -

Vulnerability

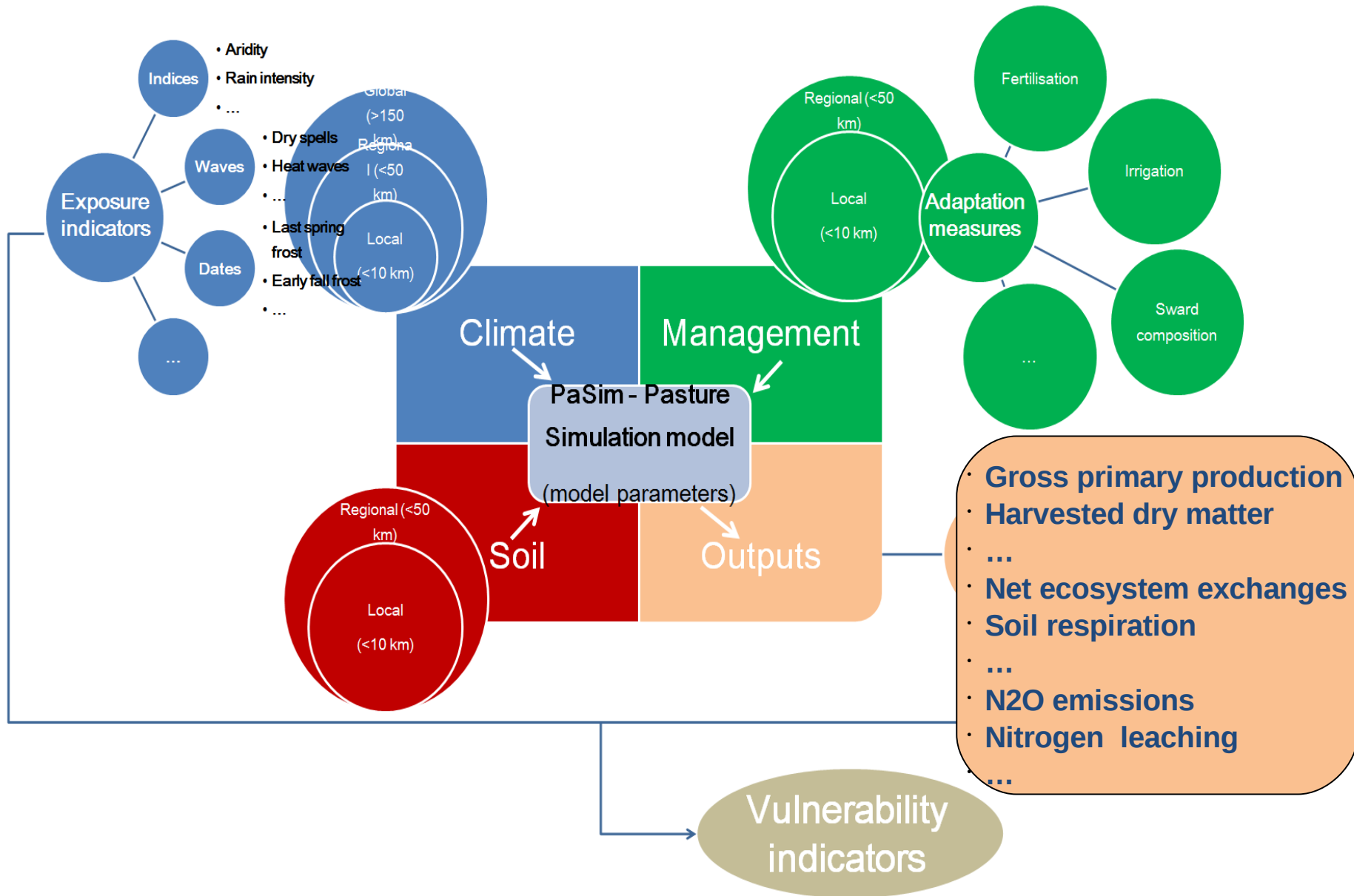
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Adaptation strategies

Evaluation of adaptation measures / social
dialogue

+

Platform for grassland vulnerability assessment



Partners

Downscaling climate
model outputs

Grassland modelling

Vul'Clim
Climate change vulnerability studies
in the region Auvergne (France)

Cost / benefit analysis

Vulnerability assessment

Stakeholder
institution

Thank you for your attention