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agriculture facing extreme climatic events

Modelling the impact of extreme climatic events in agriculture

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RECHERCHE ■ 120 secondes pour présenter le résultat d'études menées par l'Inra de Clermont-Theix-Lyon

De la listeria au bien-être des vaches

Le centre de l'Inra de Clermont-Theix-Lyon a présenté, hier, le résultat d'une dizaine d'études, parmi les plus significatives menées en 2013.

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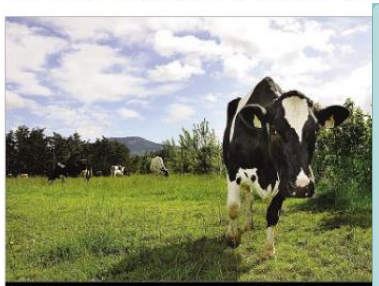
En 120 secondes chrono. Un défi relevé, hier, par les chercheurs de l'Inra Clermont-Theix-Lyon pour rendre public une dizaine de résultats scientifiques significatifs parmi les études menées en 2013.

Cette réunion a également permis à Jean-Baptiste Coulon, président du centre, d'évoquer quatre événements marquants. Lesquels concernaient aussi bien le Cantal et quarante années de recherches fromagères que la Chine s'intéressant à l'alimentation des ruminants via les recherches de l'Inra.

Il a également été question de Wheatbi et Modextreme, deux projets européens qualifiés de « stratégiques » parce qu'ils contribuent « à renforcer la lisibilité des recherches du centre dans le domaine des relations entre systèmes agricoles et changements climatiques ».

Enfin, Jean-Baptiste Coulon a souligné le renforcement du partenariat avec l'enseignement supérieur. Ce qui s'est concrétisé par la signature de quatre conventions de coopération scientifique entre l'Inra et les universités d'Auvergne, de Blaise-Pascal, Limoges et VetAgro Sup. Si elles ne font que concrétiser des collaborations existantes, pour certaines de longue date, ces conventions ouvrent de nouvelles perspectives…

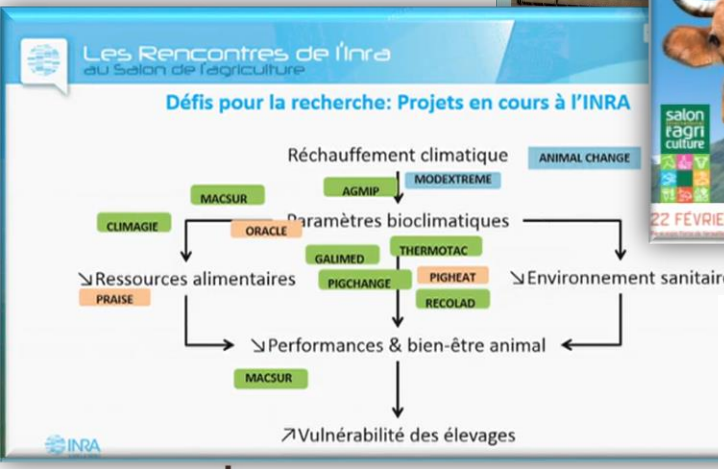
Les chercheurs, eux, avaient 120 secondes pour



INRA. Des chercheurs du centre Clermont-Theix-Lyon ont passé au crible le bien-être des vaches. D'autres ont la polyculture-élevage est un système de production durable de viande bovine. PHOTO DANIELE MASCRIER

Brasil e França aperfeiçoam tecnologia para simular sistemas pastoris

Uma equipe técnica da Embrapa Informática Agropecuária vem realizando testes com processamento em grid, sobre uma estrutura de computação em nuvem, para simulação de cenários futuros em um prazo de até trinta anos. O objetivo é estabelecer uma infraestrutura tecnológica para execução do PaSim, por meio de uma série de dados de clima, solo, vegetação etc., em um ambiente de nuvem. A tropicalização do modelo é importante porque os modelos de processos biológicos atuais não estão adaptados às regiões tropicais do mundo, que



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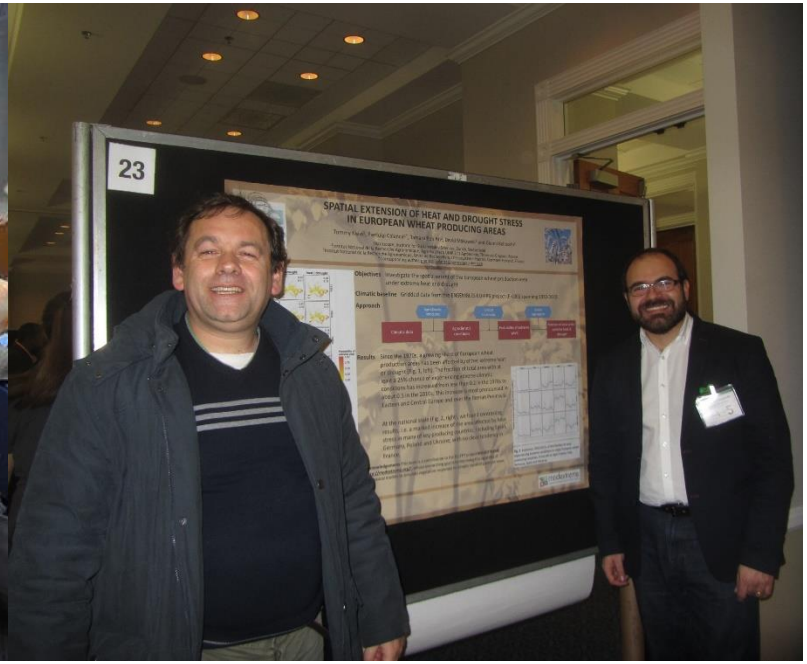
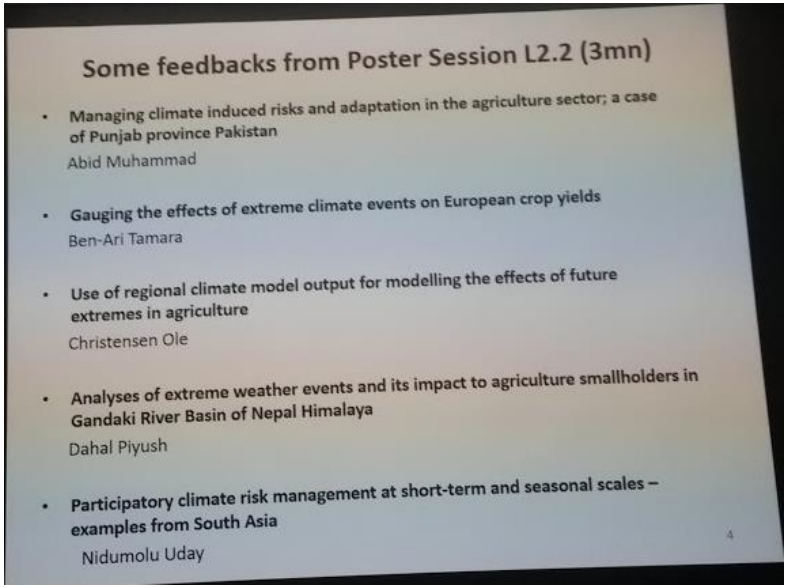
Nouvelles de nos Recherches

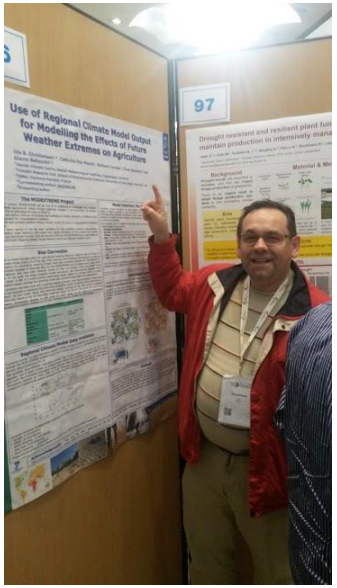
MODEXTREME : MODelling vegetation response to EXTREME events

AgMIP 5th Global Workshop, Gainesville FL, USA, 25th to 28th of February 2015

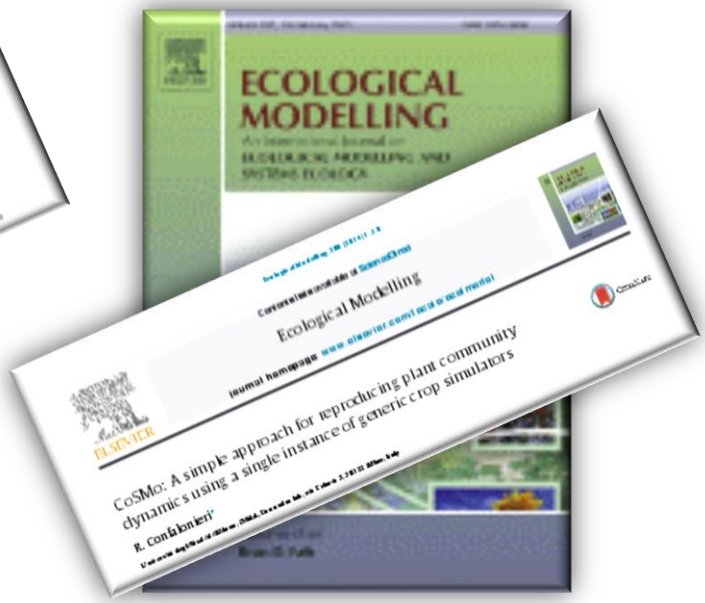


Climate-Smart Global Science Conference, Montpellier, France, 16th to 18th of March, 2015





Publications



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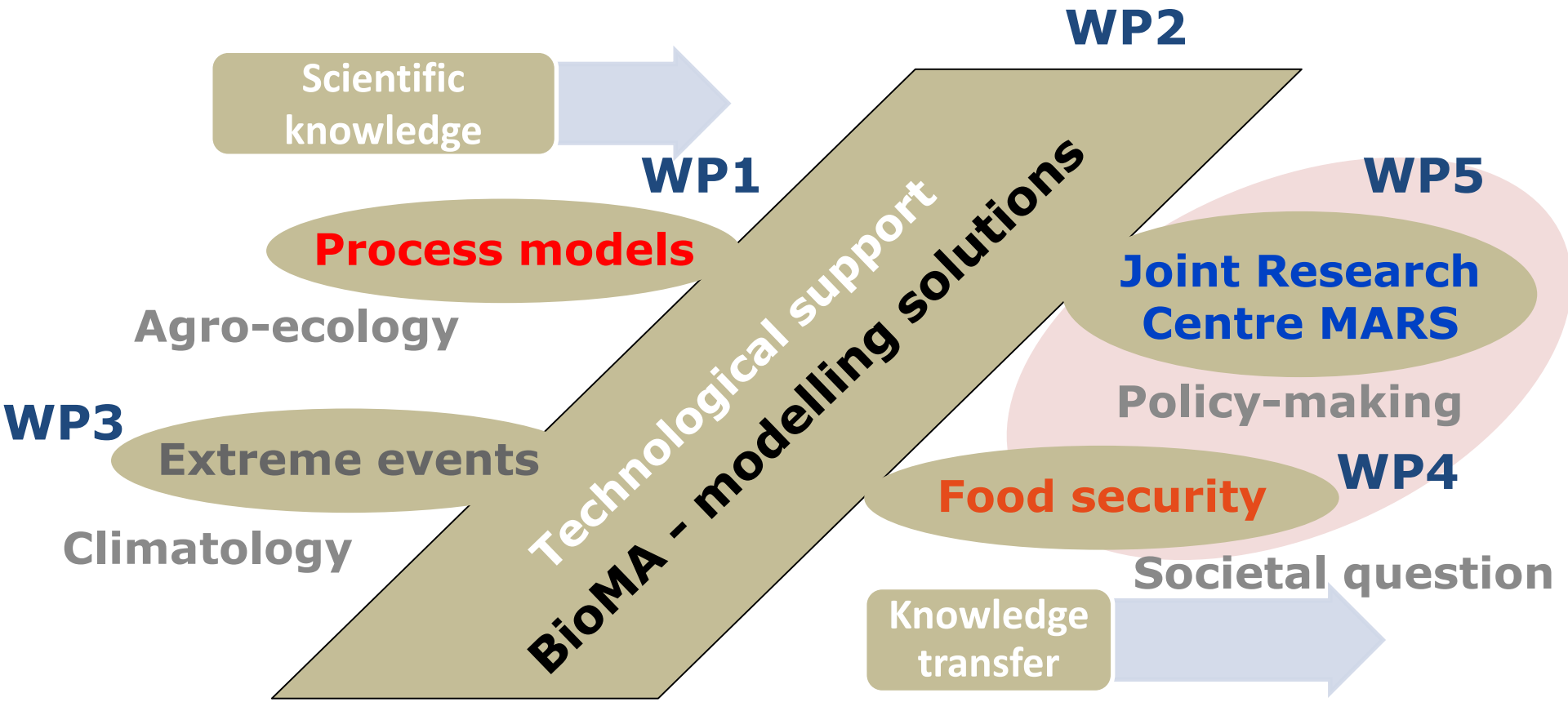
Project rationale



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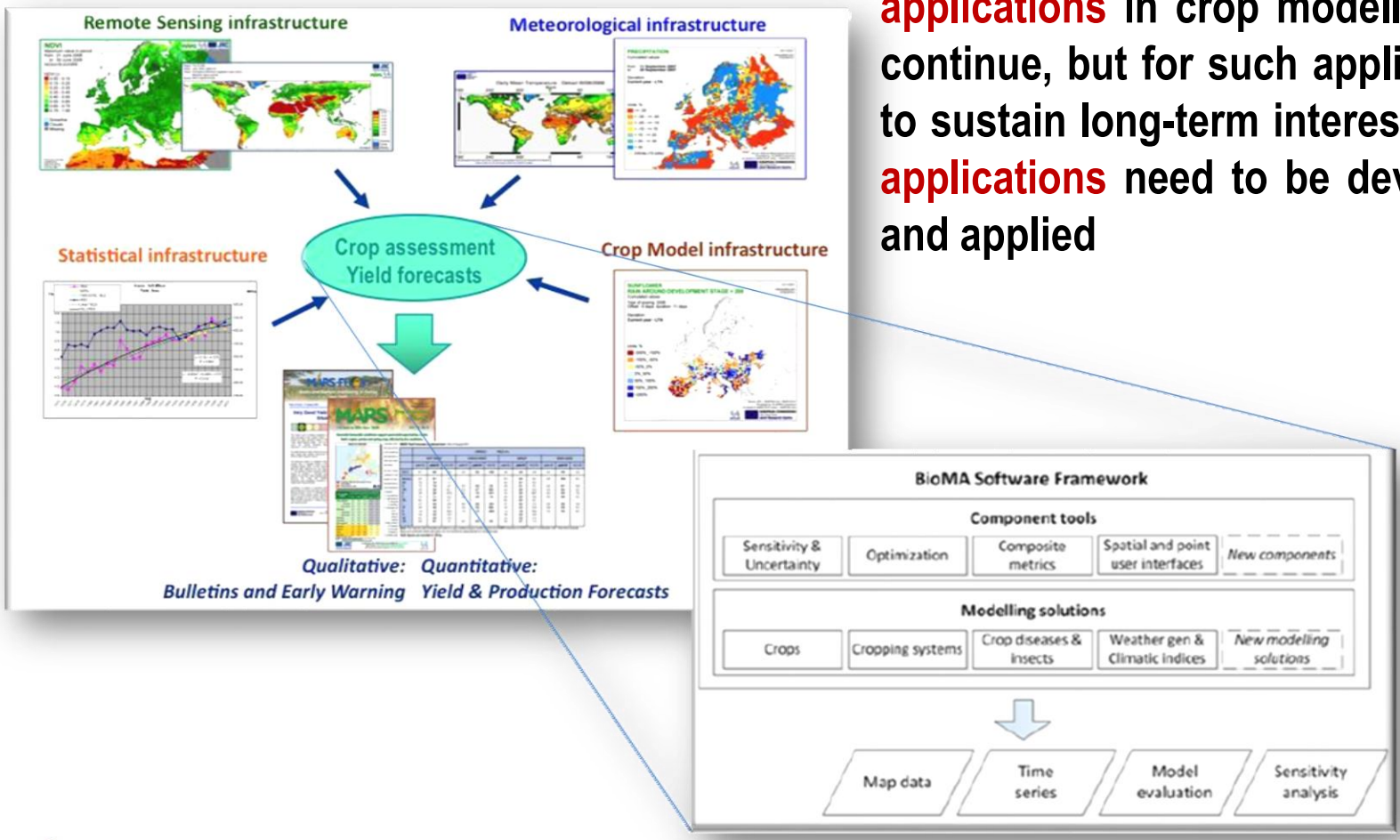
Two goals of our time

1. Achieving food security
   - To feed 9 billion people by 2050
   - Food production to increase by 60% (100% in developing countries)

2. Facing extreme weather events
   - Intensification of extremes
   - Agriculture production impacted
   - Modelling part of the solution

Crop modelling, a support to food security policies?

JRC-MARS agricultural yield forecasting with the platform BioMA



There is no doubt that research applications in crop modelling will continue, but for such applications to sustain long-term interest policy applications need to be developed and applied

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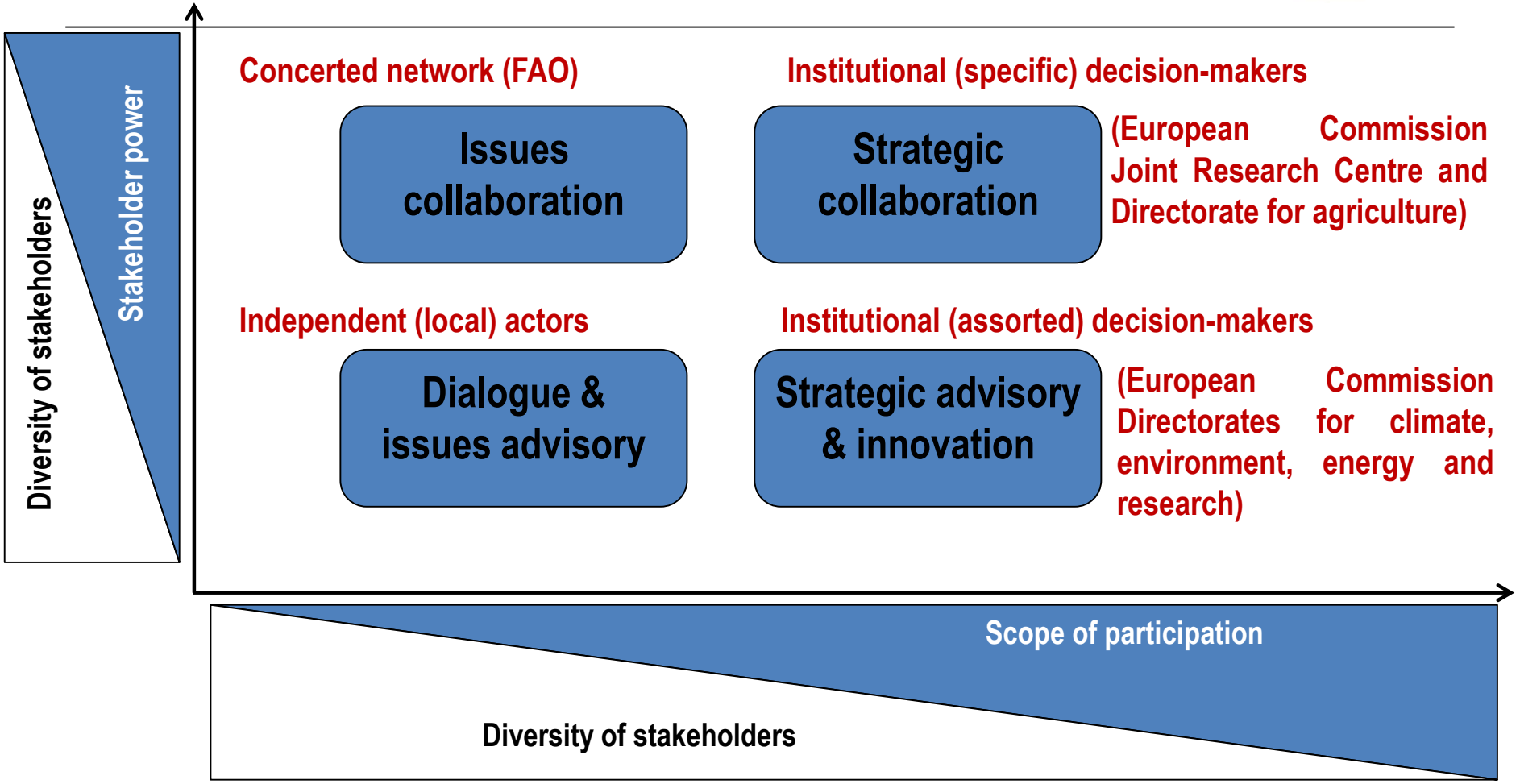
Stakeholder platform



Second science workshop

WP4 – Model evaluation

Field datasets in MODEXTREME

Third and fourth science workshops

ESA14

EDINBURGH
SEPTEMBER 5 - 9, 2016

The overall theme gives a broad focus on ecosystem service delivery from agricultural landscapes (especially food, conservation, water quality) and allows separate specific focussed threads to be developed for parallel sessions.

http://modextreme.org

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SEVENTH FRAMEWORK PROGRAMME

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