

Welcome to

CLIMATE-SMART Agriculture 2015



Le Corum, Montpellier, France

16-18 March 2015

Third Global Science
Conference



#CSA15



PARIS2015
ON CLIMATE CHANGE CONFERENCE
COP21-CMP11



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Plenary

Feedback from Parallel sessions

14:00 **Feedback from Parallel sessions L3 : Towards Climate Smart Solutions**
Leslie Lipper (FAO) & Jean-François Soussana (INRA)

14:20 **Questions**

14:30

AUDITORIUM PASTEUR

Feedback from Parallel sessions L3

« *Towards Climate Smart Solutions* »

Many thanks to the speakers

Cynthia, Eddy, Leila, Vinay, Jacob, Fiona, Michael, Philippe, J-Jacques, Eric, Philippe, Mario, J-Francois, Petr, Pierre, Anne, Juan Pablo, John, Ursula, J-Marc, Bruno, Peter, Adriano

and to the chairs

L3.1: Climate adaptation and mitigation services

chair

Eddy Moors

L3.2 Climate-smart cropping systems

Pramod Aggarwal

L3.3 Climate-smart livestock

Mark Howden

L3.4 Climate-smart landscapes and watersheds

Bruno Rapidel

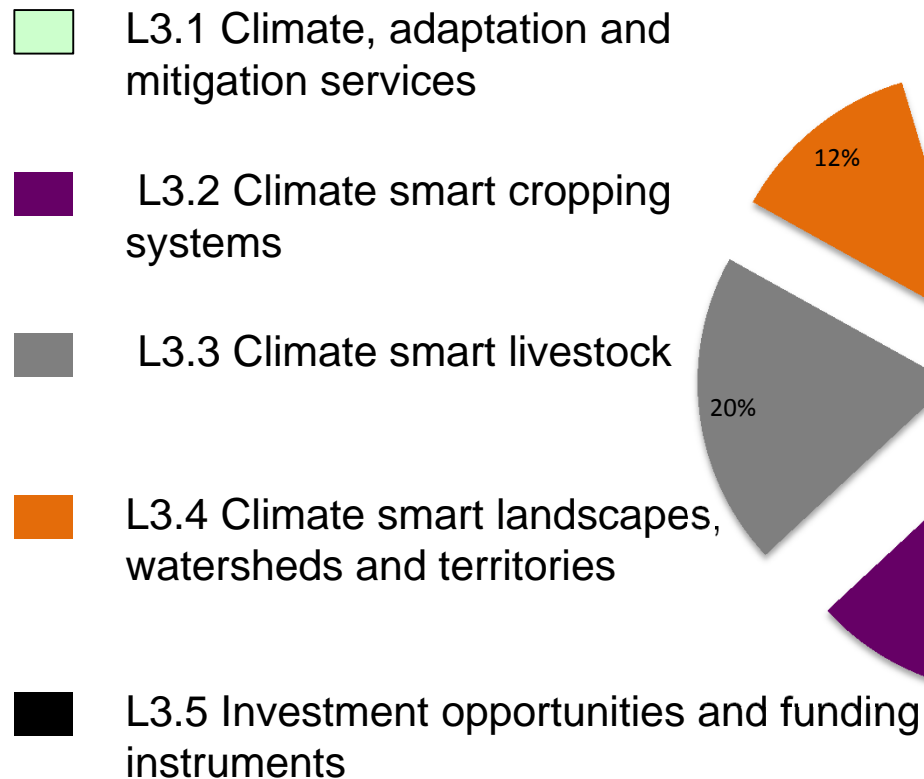
L3.5 Investment opportunities and funding instruments

Leslie Lipper

Posters for Session L3 “Towards Climate-smart Solutions”

Number of
Posters

*Distribution within the 5 sub-
sessions*

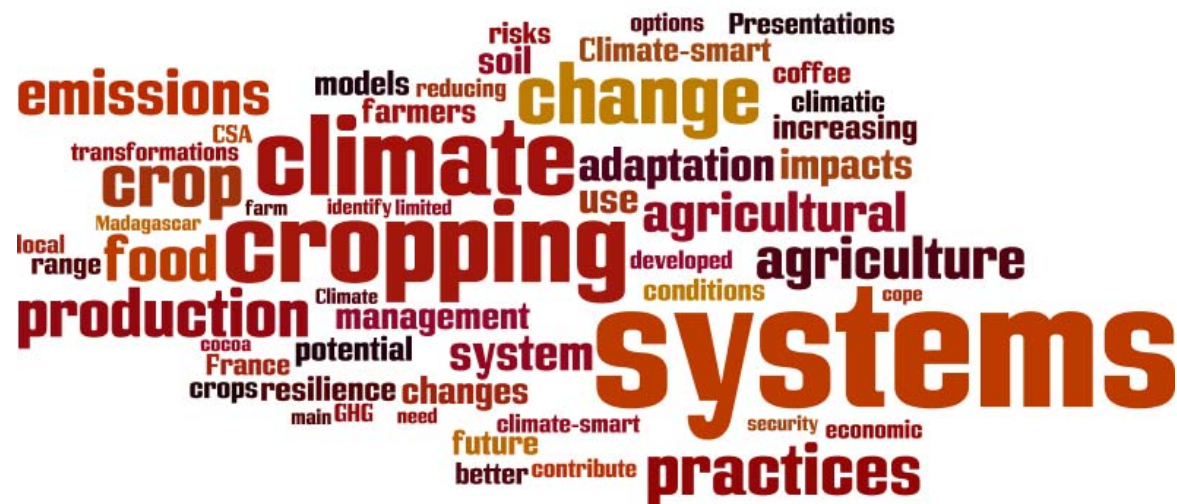


L3.2 Climate-smart cropping systems



- The transformational changes in agricultural production systems for adaptation to climate change could be long-lived, investment-intensive and limited reversibility
- Legume crops have a major role to play, especially in nutrients poor soils
- CSA based adaptation planning requires adequate foresights to avoid maladaptation
- Bundling of CSA options to implement in the wide range of adaptation domains are necessary to achieve triple goals of CSA (adaptation, mitigation and food security).
- Multiple uncertainties (climatic, economic and socio-political) under CSA interventions can be minimized through participatory evaluation and integration of local knowledge.
- For instance, climate-smart village model is an attractive model for scaling-out CSA.

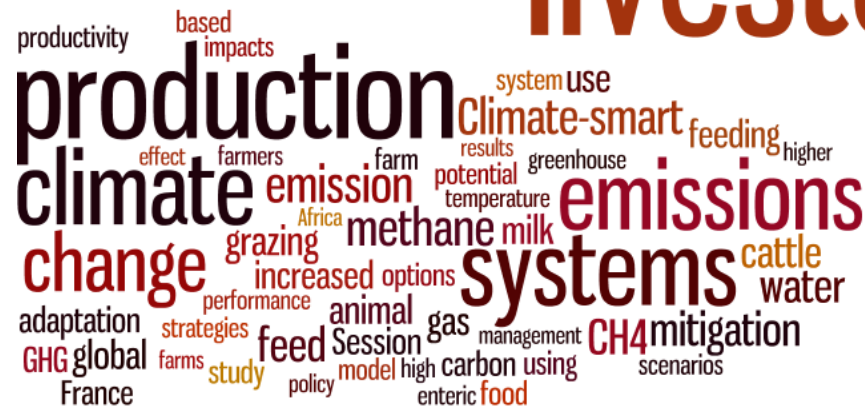
L3.2 Climate-smart cropping systems



- Further research
- Required to generate quantitative evidences of CSA including synergies and trade-off among the CSA options in different adaptation domains.
- Required to provide agro-ecological zone based agriculture development pathways integrating CSA options and investment portfolios (including returns)
- Highlight the importance of provision of climate information and services, value of farmers' local knowledge, capacity building, and communicating knowledge on CSA practices, technologies and services

L3.3 Climate-smart livestock

livestock



Key scientific and societal issues

Climate change is likely to bring significant challenges to many livestock systems through the tropics, sub-tropics and dry temperate zones, resulting in reduced productivity, increased risk and introduction of a range of adaptations.

There are many potential mitigation options covering extensive to intensive livestock systems, most of which have been evaluated on a direct emissions basis mostly.

Knowledge gaps and research needs

Actual integration of adaptation, mitigation and food security in realistic system analyses, leading to a solid body of case studies

Consistent evaluation of mitigation options using life cycle or whole-of-system approaches to guard against perverse options

Economics and funding of adaptation and mitigation and policy packages

Consistent use of combinatorial options using action research methods

L3.5 Investment opportunities and funding instruments



Barriers: lack of capacity of Micro-finance institutions to integrate CC, lack of incentives for private sector participation (including farmers). Need for MRV.

Triple wins? So far financing for each CSA objective separately (e.g. agriculture/food security, adaptation, mitigation)

Research needs? Is it more efficient to have integrated financing or separate streams? Standardized MRV for agricultural mitigation (for public investment as much as carbon markets)

L3. Towards climate smart solutions

- ✓ Please provide an overview of climate smart solutions discussed in your session. **DONE**
- Are solutions triple wins?
Seldom, most work targeting still one or two pillars only. But lot of potential
- If not, please provide examples of possible trade-offs.
Trade-offs are multiple scale and context dependent!
- Which type of knowledge or of research could help overcoming such trade-offs?
Metrics needed, multiple loop innovation processes
- Have these solutions a potential for a large range of systems and world regions?
Transformative solutions still relatively unexplored
- What are the costs and benefits and the side effects for agricultural sustainability?
Global and regional cost estimates which are far away from farmer's perspective. Farmer cost-benefit needed and understanding behaviors.
- At which scale should investments be made to be effective
*Investments are not (yet) bridging adaptation –mitigation – food security
Involve value chains in funding*

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Agriculture
2015



Global Science Conference

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Thank you for your attention!