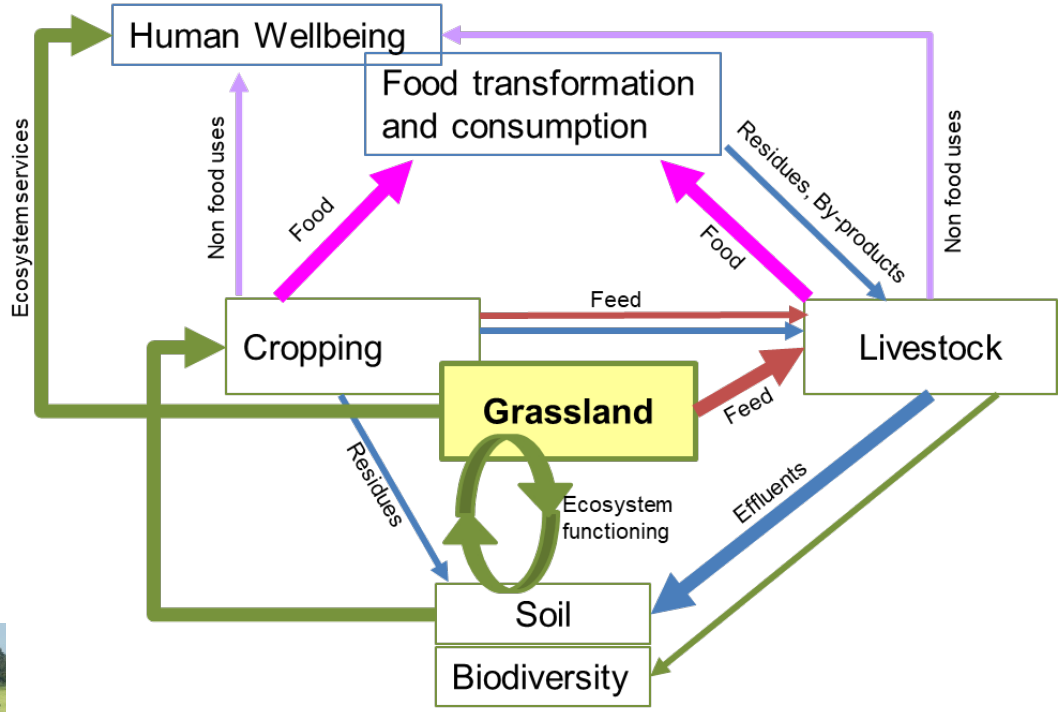
Grassland at the heart of circular and sustainable food systems

Synthesis



EGF 2022 CAEN FRANCE
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Future of grasslands and interactions among stakeholders

- Importance & vulnerability of grasslands in a very changing and uncertain environment (climatic, economic, societal) (Guyomard, Poux)
- Great adaptability potential of the grassland ecosystem (Lüscher, Dumont)
- Solving environmental issues must remain a high priority, even during times of food supply tensions (Guyomard)

Future of grasslands and interactions among stakeholders

- Co-creation
  - Stakeholder attitude and perceptions (Tindale, Tonn, Klaus)
  - Participatory approaches, Citizen science (Fernandez-Habas)
  - “Involve the farmers in the initial stage of the research” & “no one size-fits-all strategies” (panel discussion, Dumont, Fleurance)

- Communicating the benefits of grasslands and grassland-based ruminant systems. “Grasslands are not being supported because they are grasslands (Guyomard)“

Communicating instead of ruminating on ones grief

Researcher working hard to communicate with all stakeholders

Functioning of grassland ecosystems

- Avenues to use plant, animal to system diversity to improve resilience to climate and other changes (Lüscher, Dumont, Geffroy, Spani, Wetrom), as well as to plant and animal invasion (Bouchon, Gaier, Klötzi; Morvan-Bertrand, Titera)

Functioning of grassland ecosystems

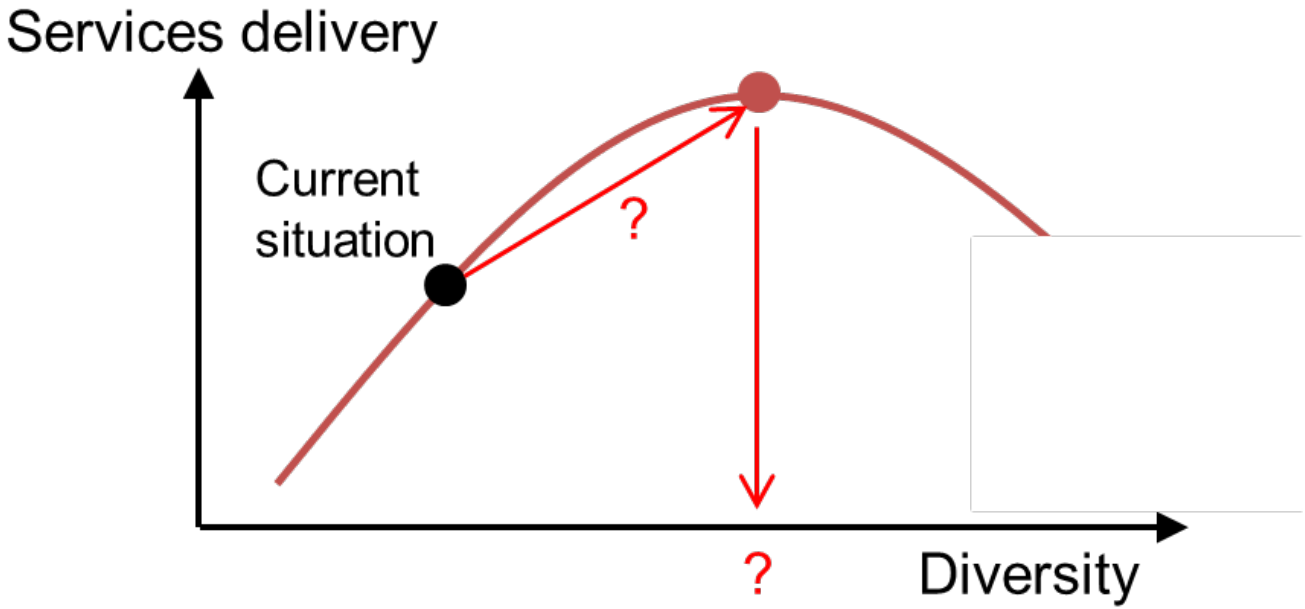
Functioning of grassland ecosystems

- Understand and learning from experience in “marginal conditions” dry, hot, highlands, …. (Fraser, Komainda) and apply in European present and future climate conditions

- How does climate change influences grassland functioning (biodiversity ⇆ climate change) (Ankersmitt, Bandhari, Grange, Luna, Papageorgiou, Plantureux, Shärer, Schuamberger)

Functioning of grassland ecosystems

System scale



Synergies between animal production, grasslands and crops

- Role of grasslands in reconnecting crops and livestock for circularity and environment (Franzluebbers)

Coupling at the farm level is not always possible

Lack and cost of infrastructures

Lack of knowledge and skills

USDA INRAE

Synergies between animal production, grasslands and crops

- New technologies to better manage grasslands (Amputu, Männer, Hamidi), or for traceability (Abou el qassim)

- Microbiota diversity of the soil, of the phyllosphere (Dalmasso, Fox, Meuriot)
  Bacterial diversity of pastures → cheese sensory properties (Manzocchi)

Bundles of services provided by grasslands

- How permanent or temporary grassland diversity help provide a bundle of services (Allart, Baker, Hearn, Patterson, Cummins, Joly, Mesbahi, Patton, Sidlaukatie)

- Tools for assessing services on-farm (Brun-Lafleur, Carrère, Geffroy)

Bundles of services provided by grasslands

- Multifunctionality of grass-based systems in relation to reduced CH_4 emissions (Poux)
- Uncertainties in the quantification of services
  “Available data did not allow for meta-analysis” (Lindborg)

- Convincing the Ruminosceptics requires bulletproof research

So that we can point even more clearly toward our research

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→ **Multifunctionality** of Grasslands *& ruminants* at the heart of circular and sustainable food systems

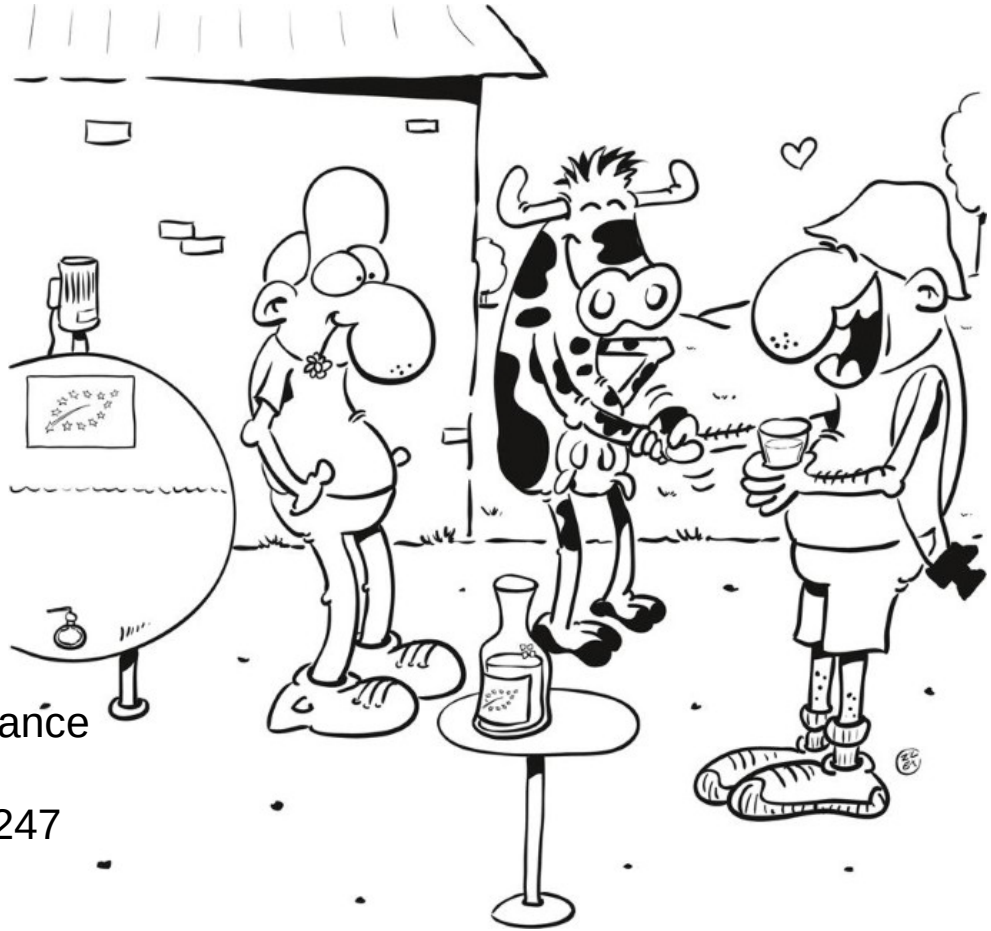

Illustration by Z'Lex for Bouttes et al., 2019. Converting to organic farming as a way to enhance adaptive capacity. Org. Agr. (2019) 9:235–247

Multifunctionality of EGF Meetings:
For Science, Food and Wellbeing

Thank you

Sylvain Plantureux & René Baumont

All the photographs!