Guiding Group, FAO, Rome, February 26th 2019

Action Network 2

Restoring value to Grasslands

BUILDING TOGETHER SUSTAINABLE LIVESTOCK
for people, for the planet
“To maintain, restore and enhance environmental and economic value of grasslands, while promoting their social and cultural functions globally”.

9 SDGs: 1, 2, 3, 5, 6, 8, 13, 15, 17
Key Areas of focus for AN2 over the last year

- **Output 1**: Finalise a data base on grassland management case studies. Lessons learnt.

- **Output 2**: Design and test an integrated assessment framework of multiple benefits from livestock grazing systems.
AN2 : Since 2013. 95 members
Document, standardise and share information on lessons learnt on sustainable grassland management

• Database on the GASL website: share knowledge and lessons (web master)
Output 2: Methodology for multiple functions model development

Design an integrated methodological framework for assessing the contribution of grassland systems to multiple functions and values in relation to the SDGs and test on ground

- Literature review: 2016
- Conceptual model: Participative approach (Montpellier May 2016, IRC Canada July 2016)
- Test and develop with partners on the field using case studies from Brazil, Uruguay, Argentina, Mongolia, Senegal, France, New Zealand, Vietnam
- First synthesis of results: Montpellier WS, nov 2017
From conceptual model to an “Ontology” of the domain of “Multifunctionality of Grazing Systems” : 4 dimensions identified
Ontology with 4 dimensions: Detailed components and processes for each value set
Outputs

- Academic publication (Rangeland paper submitted)
- Indicator library with each indicator mapped to an SDG
- UML diagram for each domain
Use of Ontology

Rich background of knowledge and diverse world views gives confidence in ontology robustness to be used with different objectives:

- Assess impact of livestock in case studies through provision information on the four dimensions (Vietnam, France, Uruguay, Mongolia, New Zeland,...)
- Help design of Policy (Vietnam, Senegal,...)
- Education of students for multidisciplinary work (Brazil, France,...)
- Help to form and strengthened transdisciplinary teams (Argentina, New Zeland,...)
- Simulation models to explore the impact of “what if” strategies and scenarios (Senegal, Brazil, Uruguay, France,...)
Use of Ontology: Diagnosis in Vietnam

Contribution of activities to values:

[Diagram showing the contribution of activities to values with categories like Farm, Agriculture, Ruminant, Monogastique, Production, Home consumption, Sale, Gift & Sacrifice, Others value, and 0%, 20%, 40%, 60%, 80%, 100%]
The simulation model in Senegal: in progress

How to increase the milk collection without negative impact?

Collection points
Herds
Pasture biomass availability

Mini-Farm
Milk production
Traditional and mini-farms
Revenues
traditional and mini-farms
Action Plan 2019-2021 for AN2 (1/2)

- Progress with present pilots to assess robustness and utility of the Ontology and Conceptual Model

- Complete our case studies (diversified evidences, model robustness, other type of on ground applications)

- Co-financed activities: French contribution to GASL and other sources (Pilots, Projects,..)

- Complete Database of Case studies on lessons learnt
Action plan 2019-2021 for AN2 (2/2)

- Collective workshop in Montpellier: 8-12 April 2019
  - AN2 members and cluster representatives: need interactions
  - Share/synthesise case study results. Analyse from pilots how multifunctionality can help stakeholders (Policy, SCO, Farmers,...)
  - Build dissemination products: Guidelines; Videos; Simulation Models; Papers; Synthesis;....

- Present results and outputs at 9th MSP in Kansas. Discuss with clusters how to deliver

- Side event at XIth International Rangeland Congress (IRC) (Kenya, October 2020)

- Next: Capacity building for Grassland Multifunctionality