





# Building the concept of meso : What can we learn about the role of intermediary actors for agroecological transition using functional analysis ?

#### N. Soulé Adam<sup>12</sup>, L. Temple<sup>12</sup>, S. Mathé<sup>123</sup>

<sup>1</sup>Cirad UMR Innovation, <sup>2</sup>Université de Montpellier, <sup>3</sup>CSIR-STEPRI

Contact: nawalyath.soule\_adam@cirad.fr





1. Problematic : how to evaluate the performance of agricultural innovation system

2. Contribution to the concept of meso : Functional services for the performance of innovation process

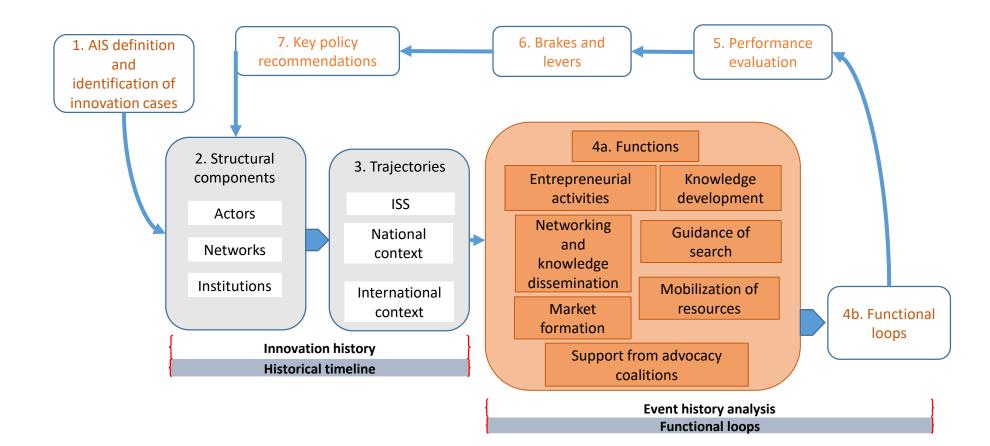
3. Conclusion

### **1. The problematic**

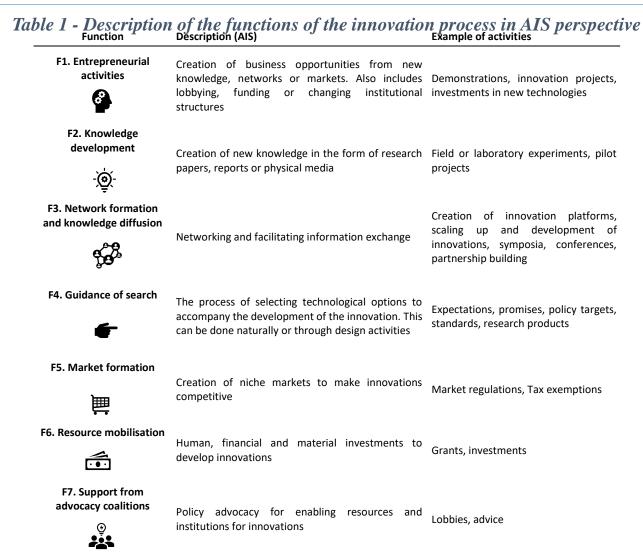
- 1. Since 2015's Comprehensive Africa Agriculture Development Programme (CAADP), a systemic perspective has started to be included in the **innovation policies documents** elaborated by Sub-Saharan African countries as Cameroon.
- 2. The functioning of Agricultural Innovation System is based on **Innovation Support Services** (Mathé et al, 2016; Mathé et al, 2019).

How to evaluate the performance of agricultural innovation system through the analysis of Innovation Support Services ?

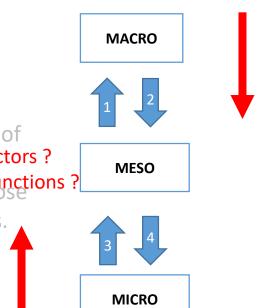
## **2. Functional analysis of the performance of innovation process**



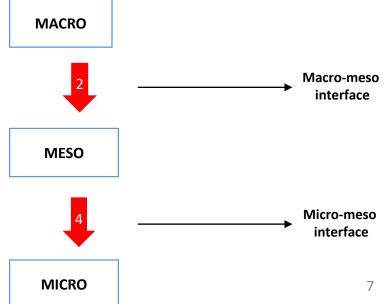
### 2. Functional analysis of the performance of innovation process



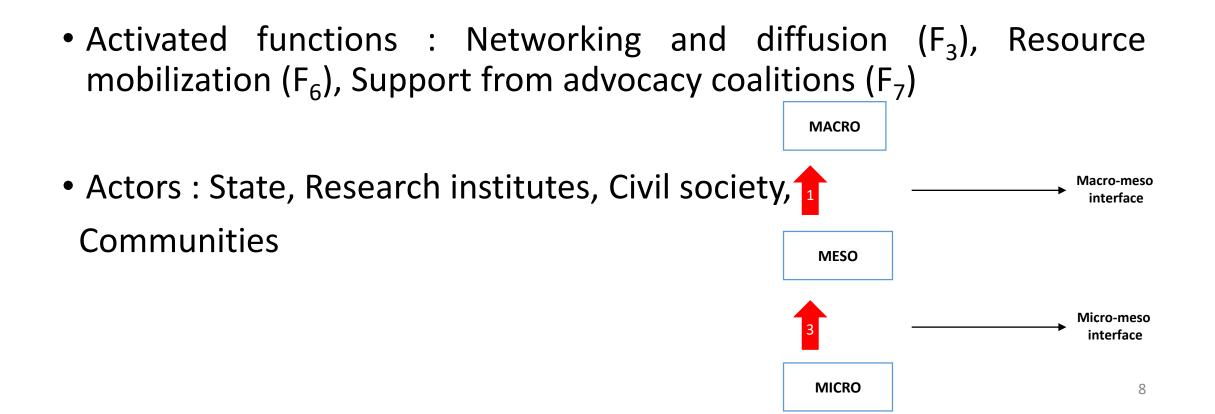
- (2+4) Macro Meso Micro : how the objective of performance in an innovation system can be transmitted to individual actors.
- (1+3) Micro Meso Macro : how the constraints of those actors can be taken into account in the policies.
- Constitution of the meso level
   The set of functions ensuring the repercussion at the level of individual players of the orientations and incent Which actors ? Which functions provided by public policy, and symmetrically, those who help public policy to understand farmers' constraints.



- (2+4) Macro Meso Micro : how the objective of performance in an innovation system can be transmitted to individual actors
- Activated functions : Resource mobilization ( $F_6$ ), Support from advocacy coalitions ( $F_7$ ), Networking and diffusion ( $F_3$ )
- Actors : State, Research institutes



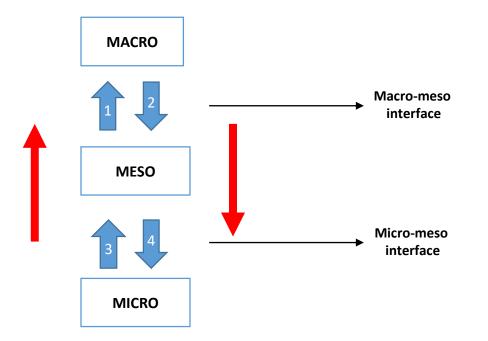
 (1+3) Micro – Meso – Macro : how the constraints of those actors can be taken into account in the policies



- Constitution of the meso level : actors, role
- Classical actors : State, Private companies, Farmers
- New actors : Civil society, Communities

A tool for analysing the role of intermediary actors

Functional approach gives a simultaneous perspective on the macromeso-micro and the micro-meso-macro interactions.



### **3. Conclusion**

- The functional analysis of AIS through ISS highlights the constitution, the role, and the place of the meso level through functions activated.
- The functional analysis highlights the importance of neglected actors at a meso level such as **communities and civil society** which need to be reinforced.
- Also, the meso level on its own can have hindrances that call for policies to influence them. It is not only an "intermediary" or a leverer.

#### **3. Perspectives**

- Our work opens a field of research on specific functions constituting the meso level in influencing the agroecological transition.
- It thus challenges the ability of research to contribute to the creation of relevant services for the development of agroecological innovation.

#### References

- Dopfer, Kurt. 2006. : The origins of meso economics: Schumpeter's legacy, *Papers on economics and evolution*, No. 0610, Max-Planck-Inst. für Ökonomik, Jena
- Nawalyath Soulé Adam, Ludovic Temple, Syndhia Mathé, Moïse Kwa 2023. Strengthen an Agroecological Technological Innovation Process in a Developing Country *Journal of Innovation Economics & Management*, Issue, n° 42, 2023-3 on the topic ''Sustainable Agrifood Systems. Markets, Value Chains and Innovation'', https://www.cairn.info/revue-journal-of-innovation-economics-2023-3-page-103.htm
- Nawalyath Soulé Adam, Ludovic Temple, Syndhia Mathé, Genowefa Blundo Canto 2023. Trajectoires et servicessupports d'innovations agroécologiques dans un pays en développement *Economie Rurale*, 2023/4 (n° 386), pages45 à 66, https://www.cairn.info/revue-economie-rurale-2023-4-page-45.htm
- Nawalyath Soulé Adam 2024. Gouvernance des mécanismes fonctionnels d'une innovation agroécologique : cas dela production de biopesticides au Cameroun *Cahiers Agricultures* , 2024, 33, 5, https://www.cahiersagricultures.fr/articles/cagri/full\_html/2024/01/cagri230055/cagri230055.html



Contact: nawalyath.soule\_adam@cirad.fr

#### Thanks for your kind attention.

#### Any questions and suggestions ?

#### References

#### •Cas d'innovation étudiés



Tableau 4 : Présentation des caractéristiques des cas d'innovation

Caractéristiques des cas Cas étudiés	Nature de l'innovation	Acteur(s) porteur(s)	Temporalité
Agroforesterie cacaoyère sur savanes	Technique	Recherche internationale	> 50 ans
Production de biopesticides	Produit	Entreprise privée	< 5 ans
SPG Etso Mbong	Organisationnel le	ONG nationale	< 10 ans
Technique PIF	Procédé	Recherche nationale	> 40 ans

Source: Auteurs, 2023