

# Farming, Systems and Research:

## Knowledge, uncertainty and politics

IFSA, Chania, July 2018

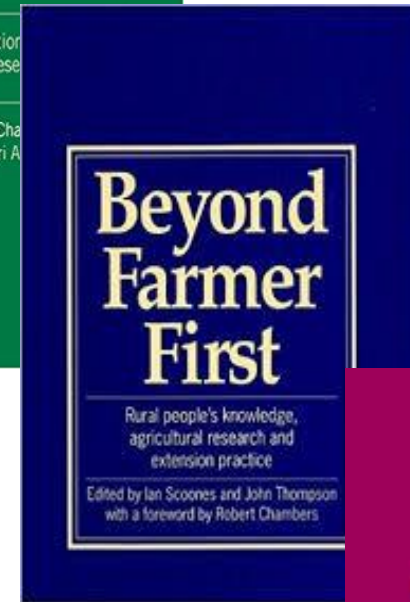
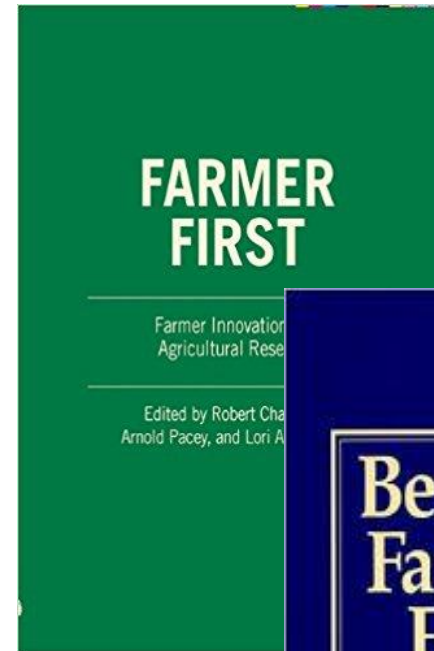
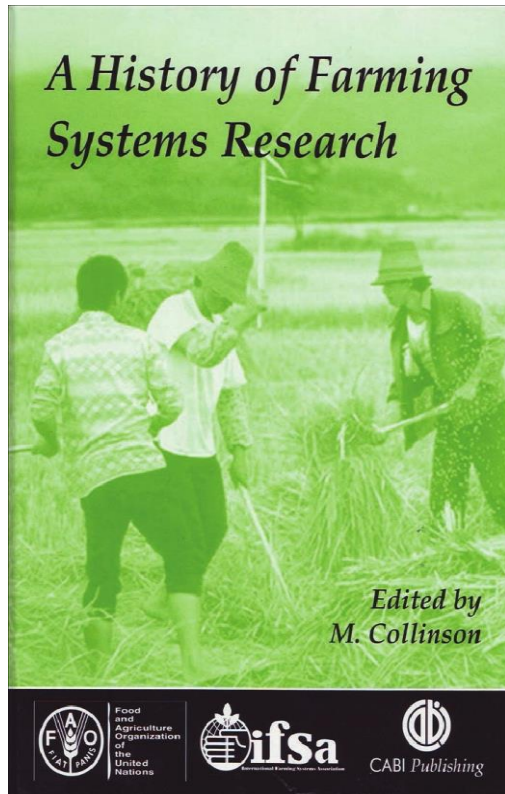
*Ian Scoones*

ESRC STEPS Centre, Institute of Development Studies

University of Sussex

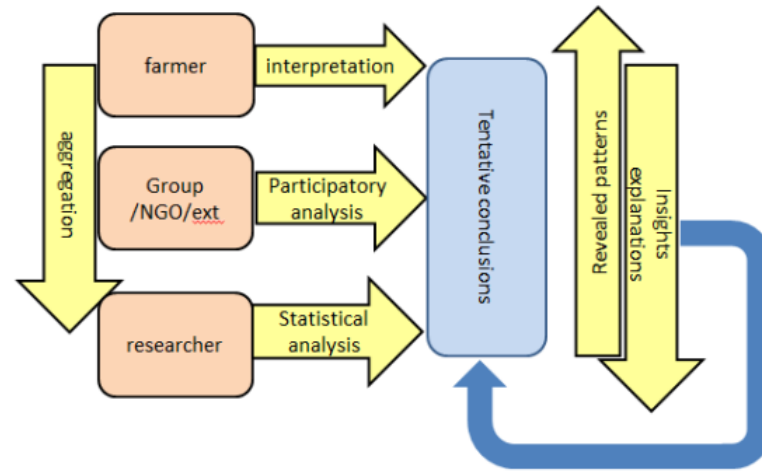


# 40 + years of FSR.....





# Farming



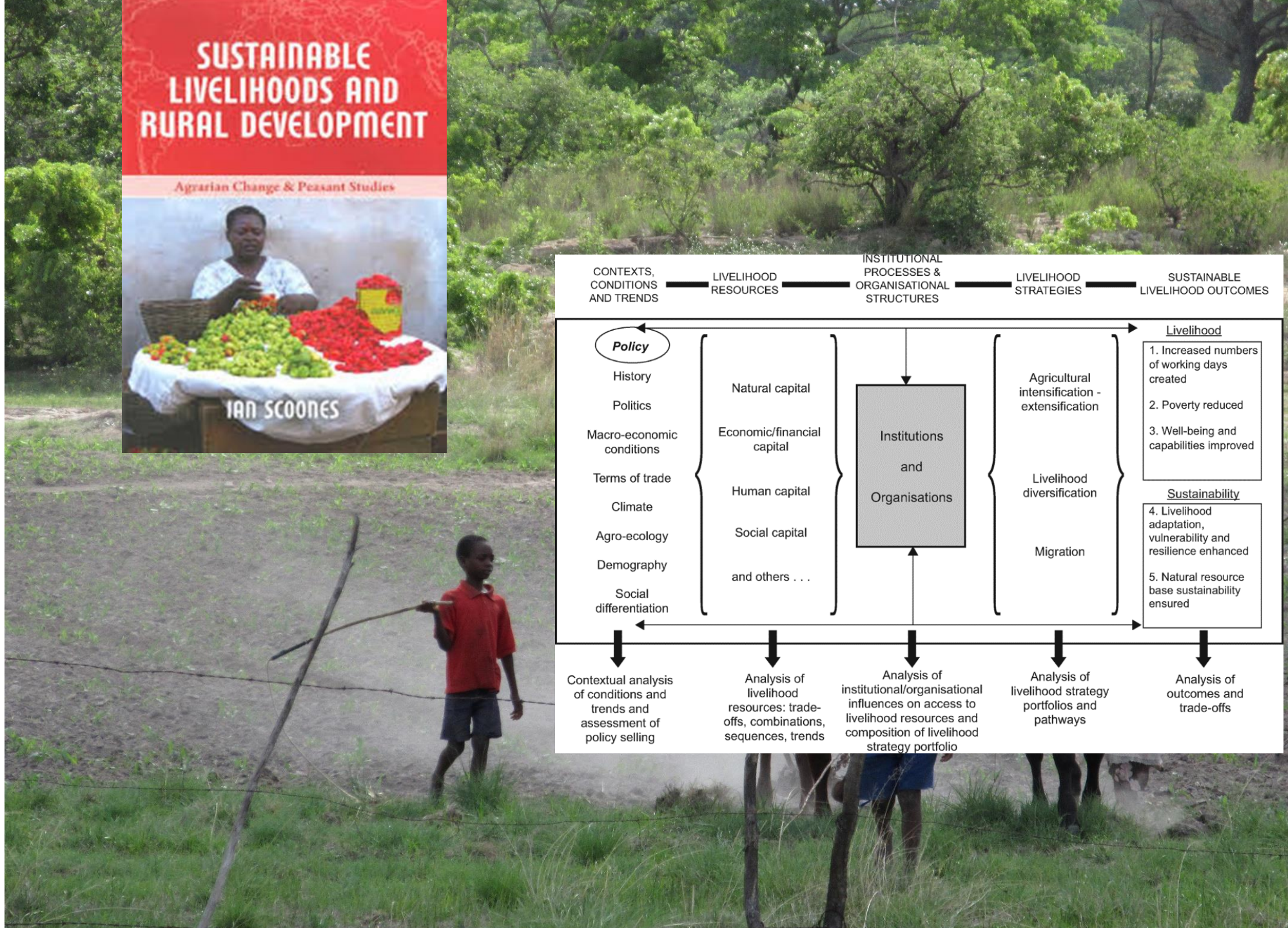
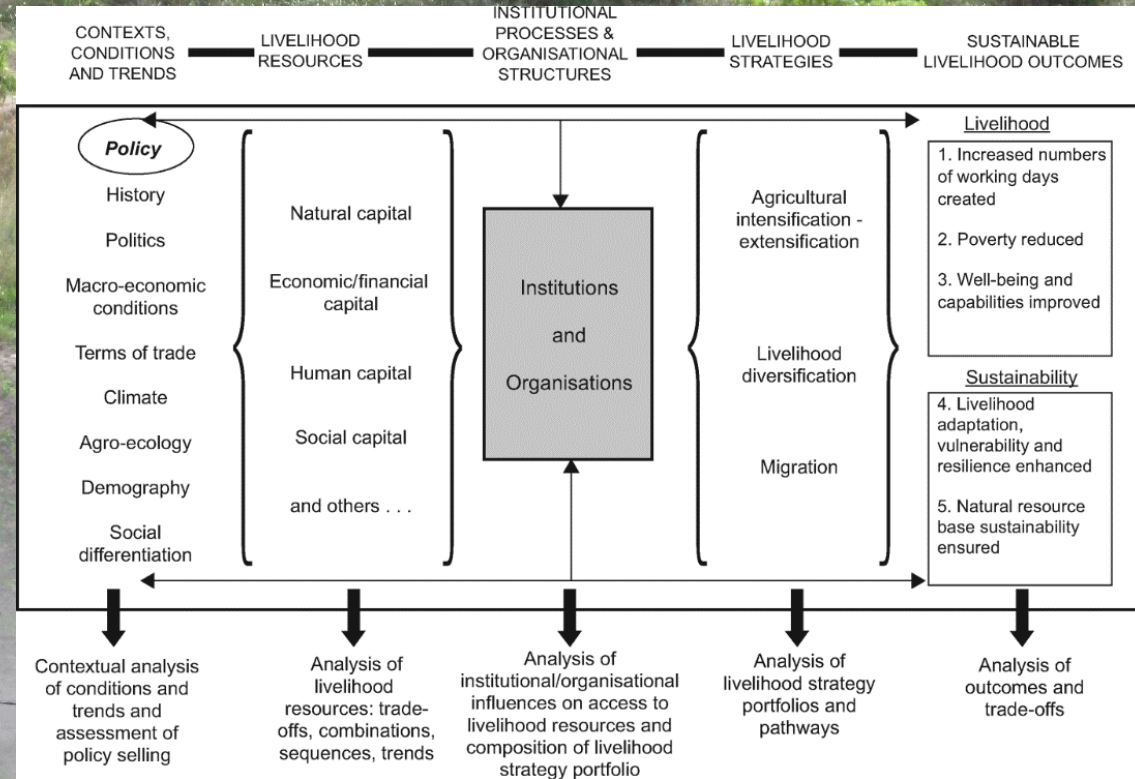
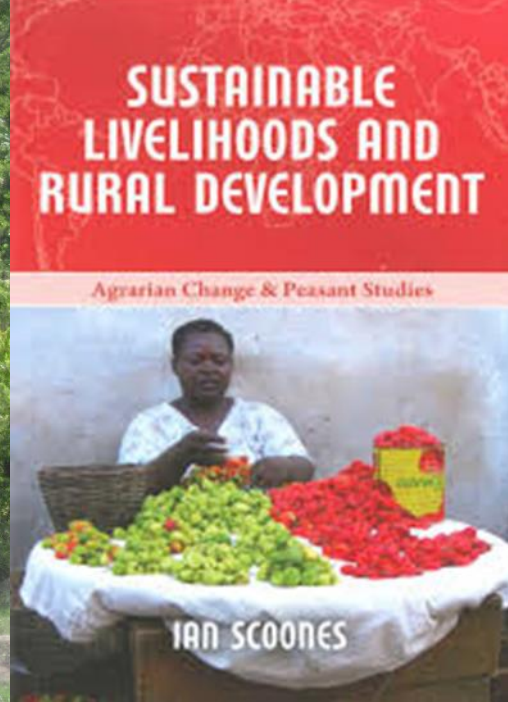
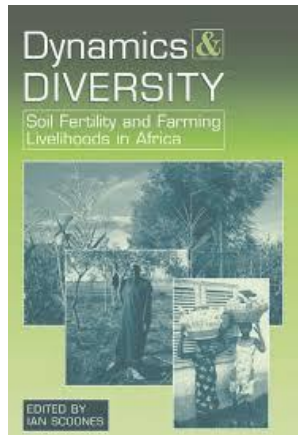
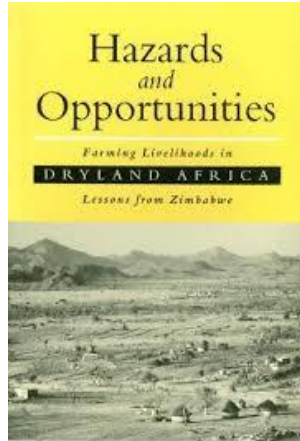
**Mother-Baby Trial results comparing**

1. Yields from Mother Trials
2. Yields from Baby Trials
3. Farmers' assessment

Pedigree	Rank		
	Mother	Baby	Farmer
SC501	5	7	10
SC513	4	8	9
SC515	8	5	7
SC405	11	11	12
PAN5	9	9	11
PAN67	12	11	6
CG4141	10	12	8
C3631	7	6	5
CIMMYT1	1	4	4
CIMMYT2	2	1	1
CIMMYT3	6	3	3
CIMMYT4	3	2	2

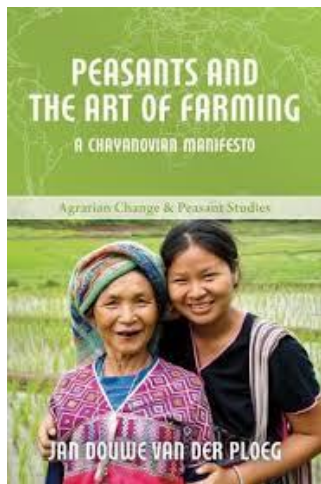
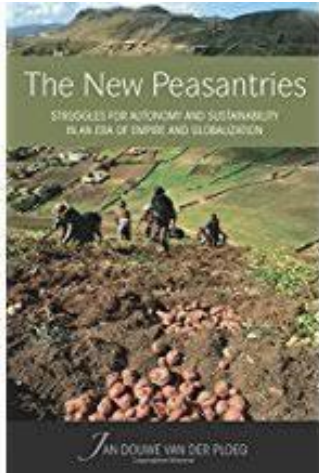


# Farming



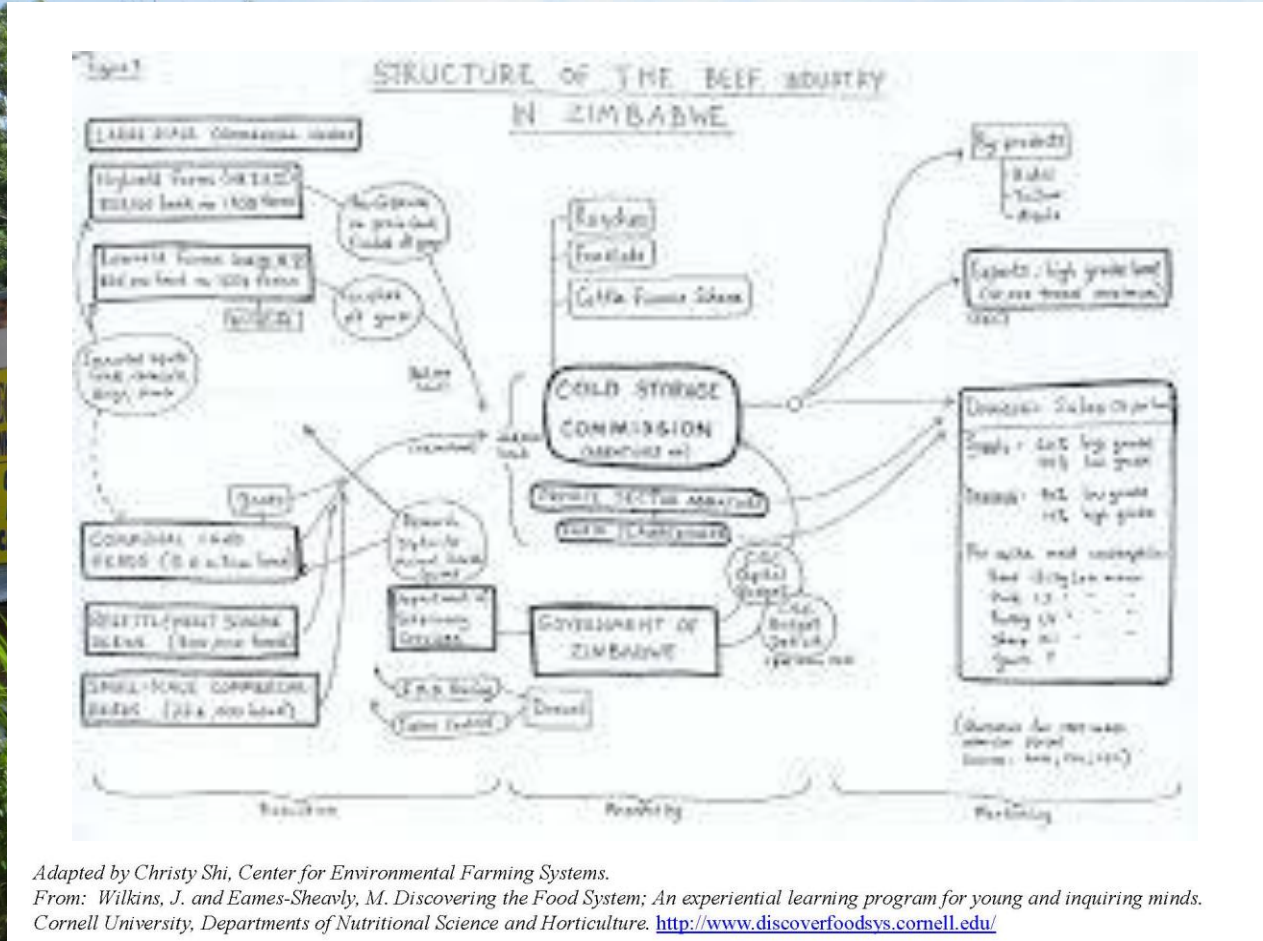


# Farming





# Farming



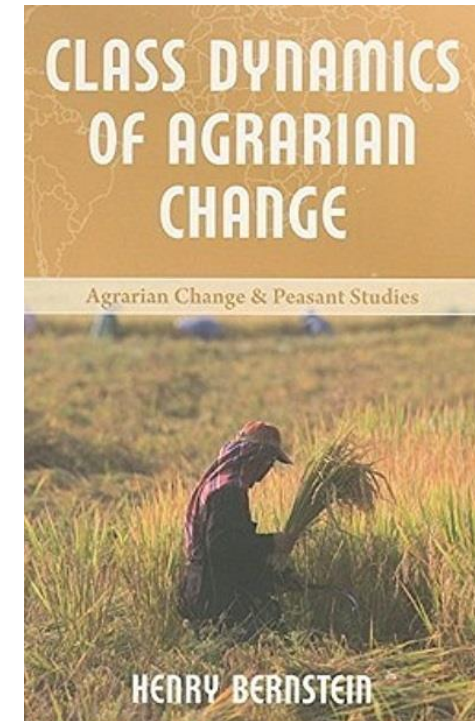
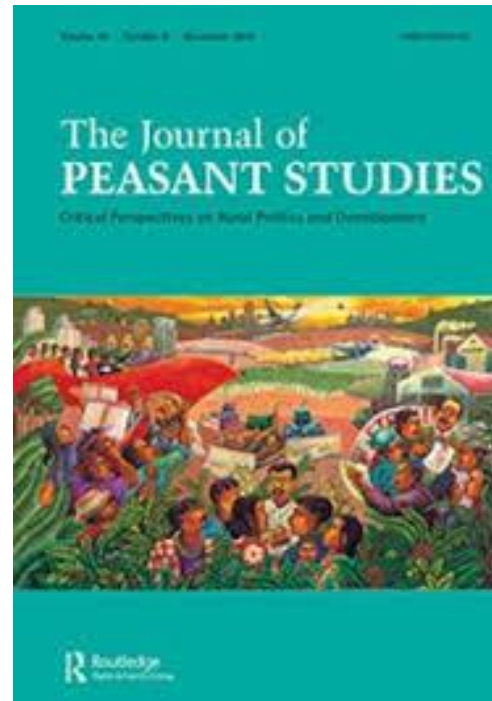
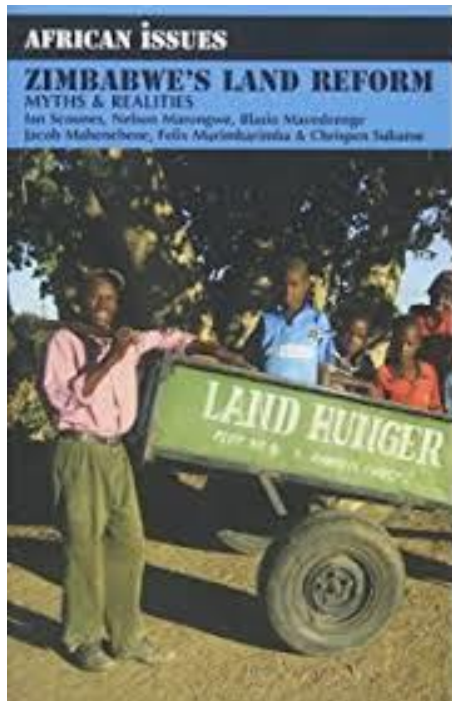
Adapted by Christy Shi, Center for Environmental Farming Systems.

From: Wilkins, J. and Eames-Sheavly, M. *Discovering the Food System; An experiential learning program for young and inquiring minds.* Cornell University, Departments of Nutritional Science and Horticulture. <http://www.discoverfoodsys.cornell.edu/>

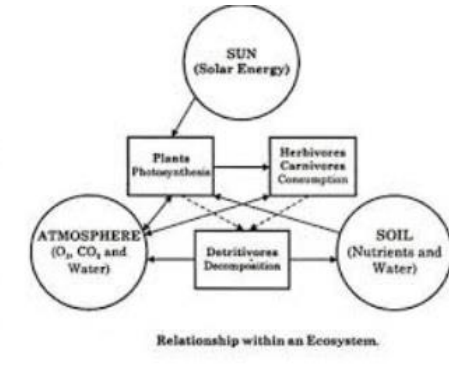
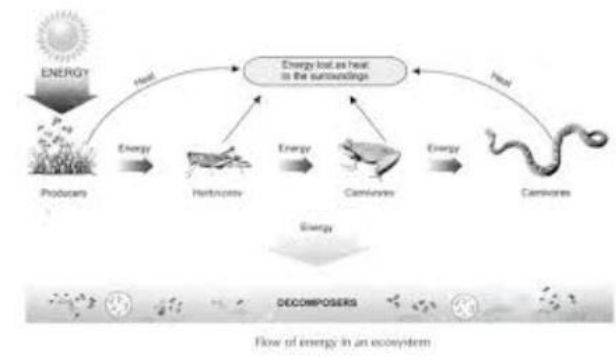
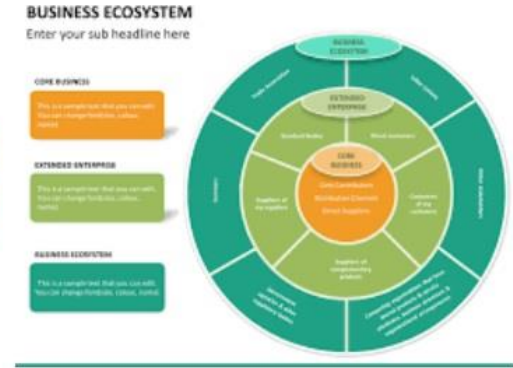
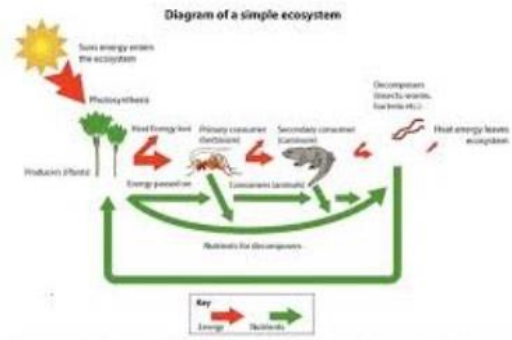


# Farming

agrarian political economy

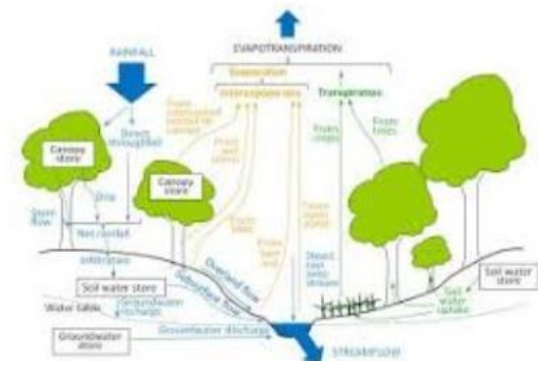
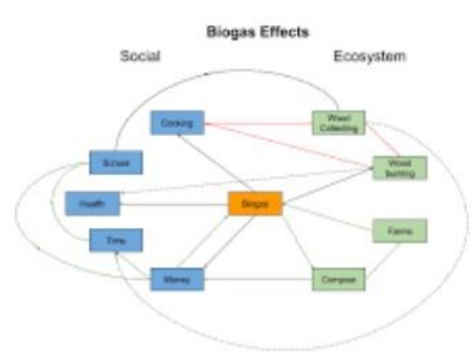
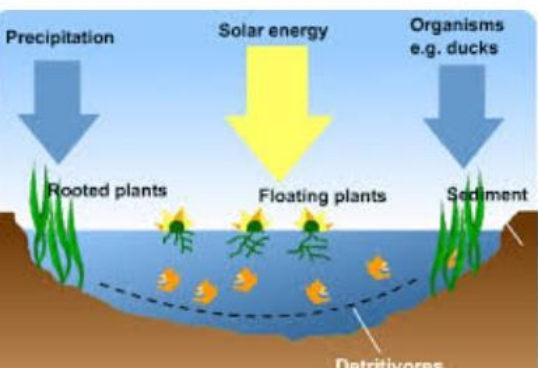
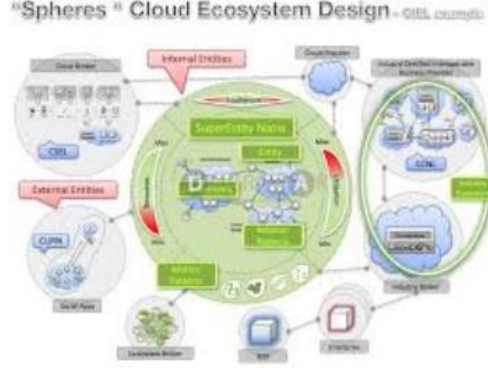
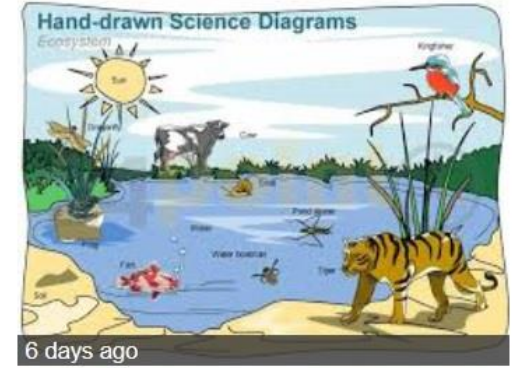
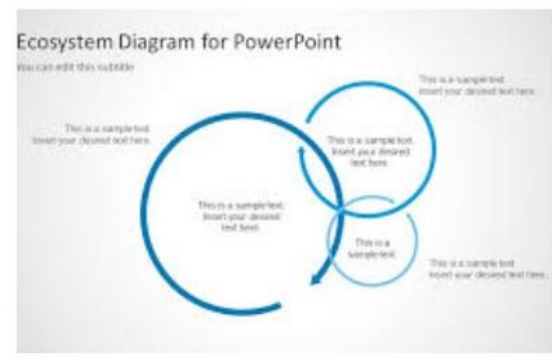
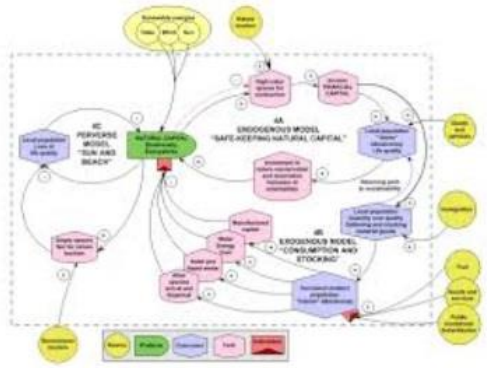


# Systems



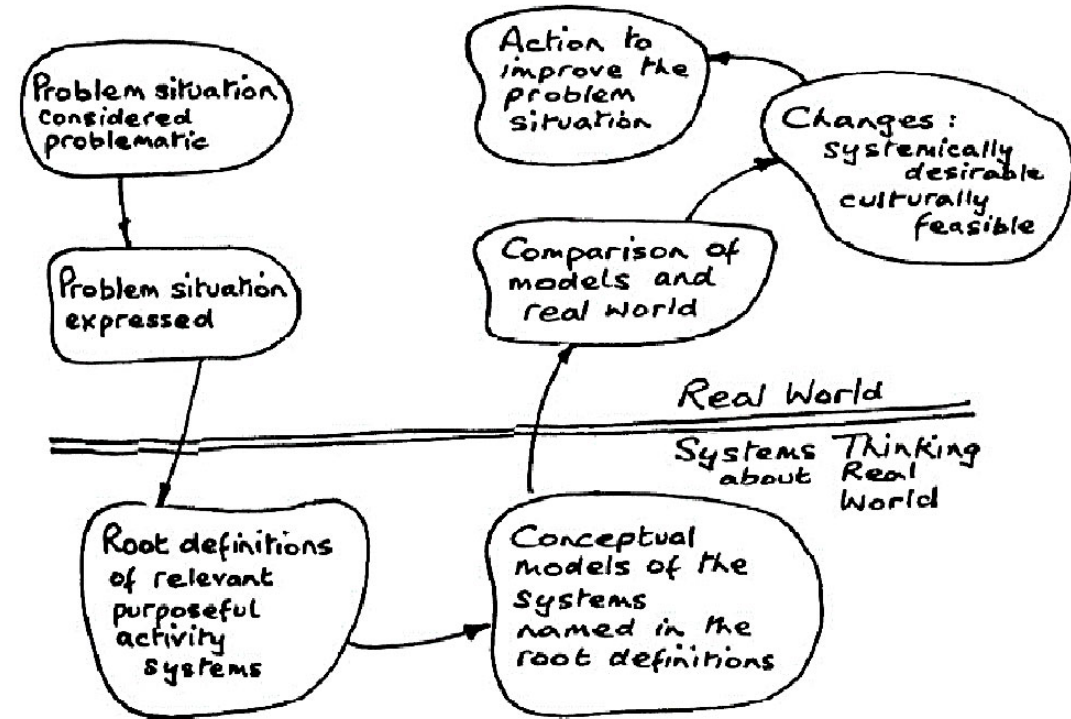
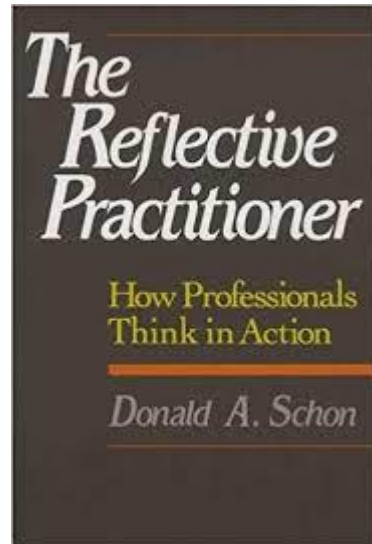
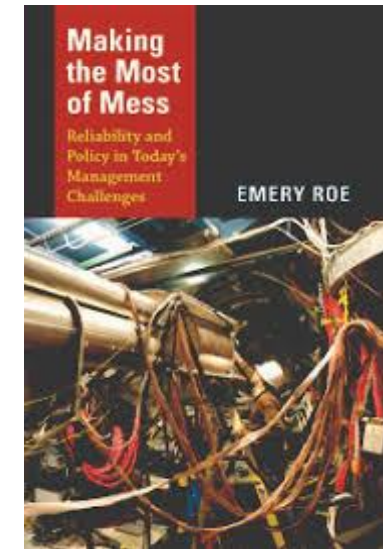
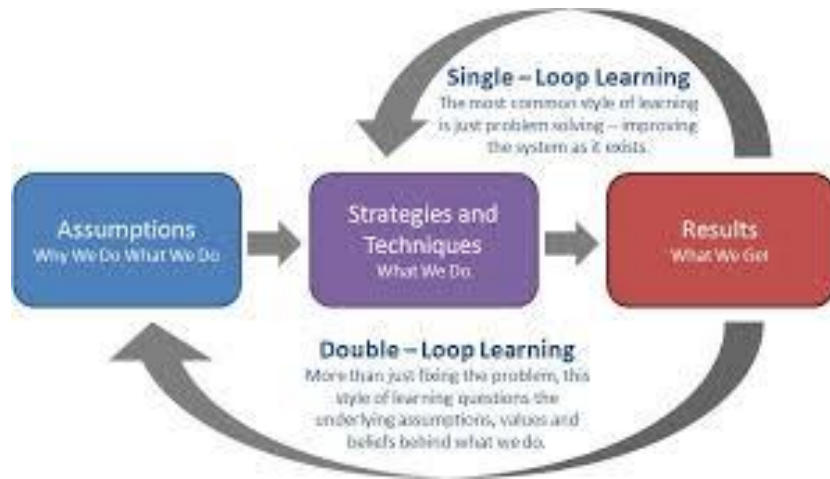
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**Ecosystem** = an Ecological system; = A community and its physical environment treated together as a functional system.



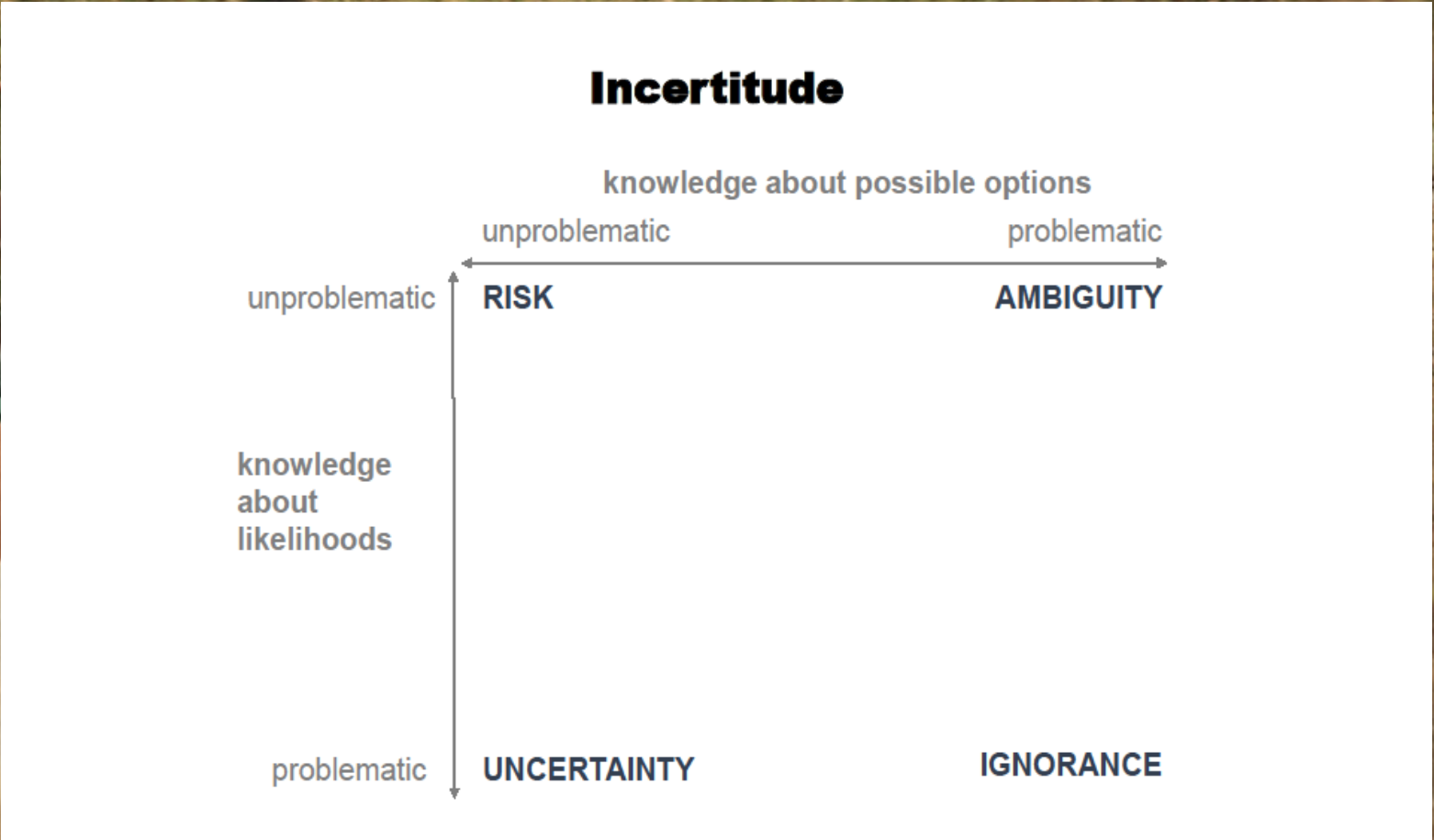
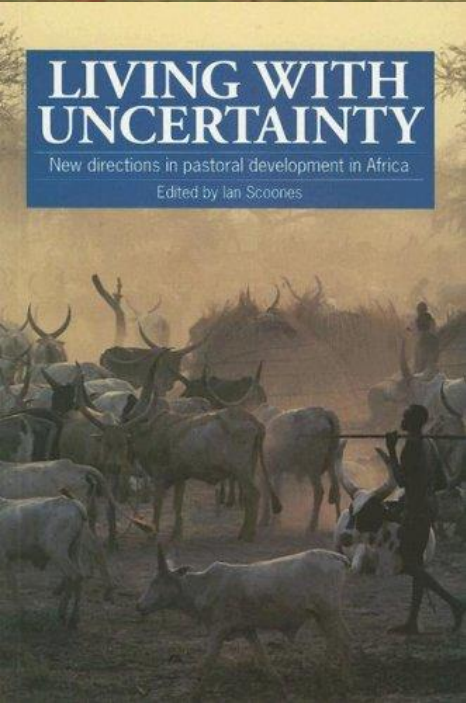


# Systems





# Systems



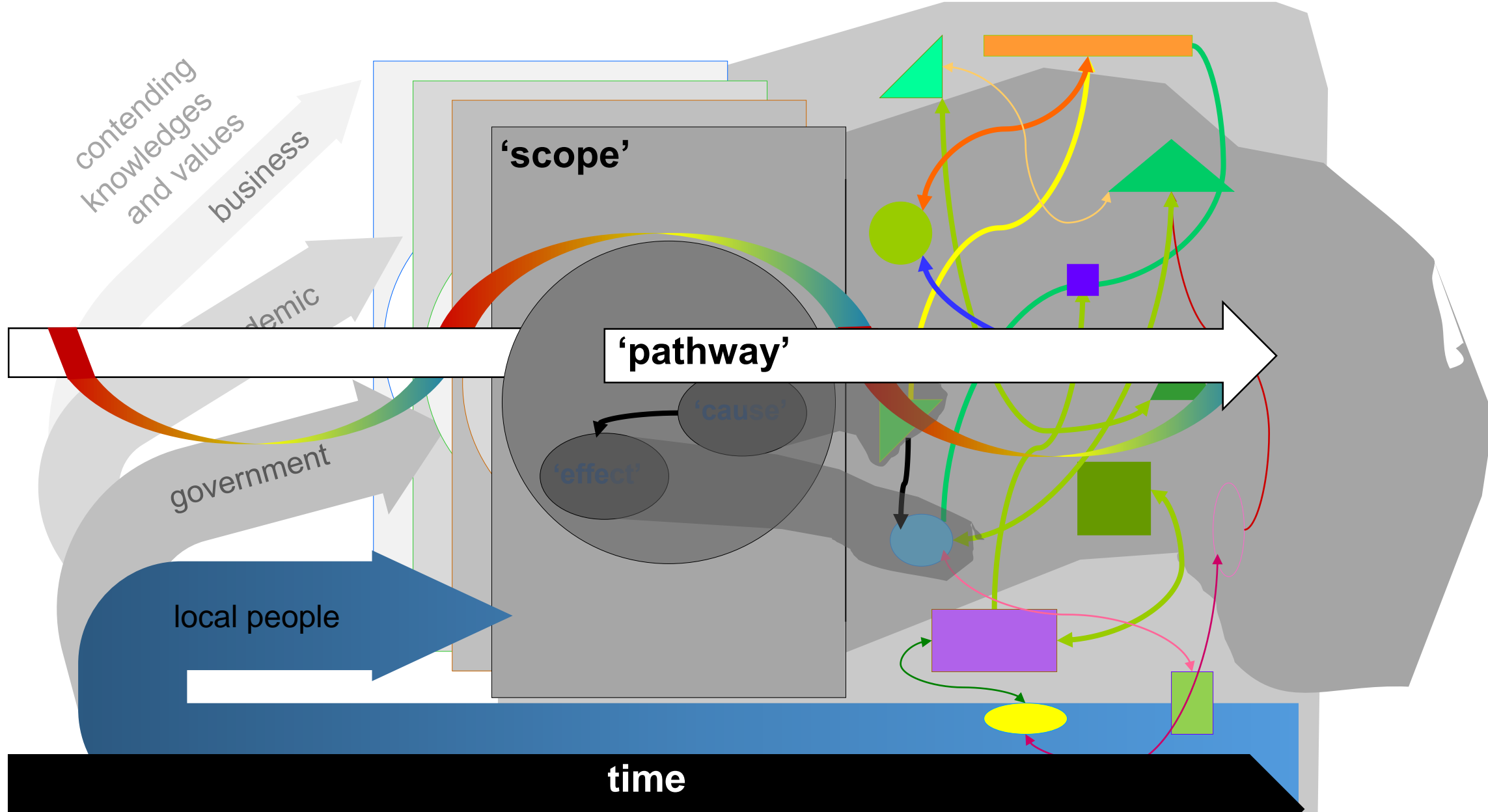


# Systems: knowledges and pathways.....

plural frames

diverse pictures

under-determined realities



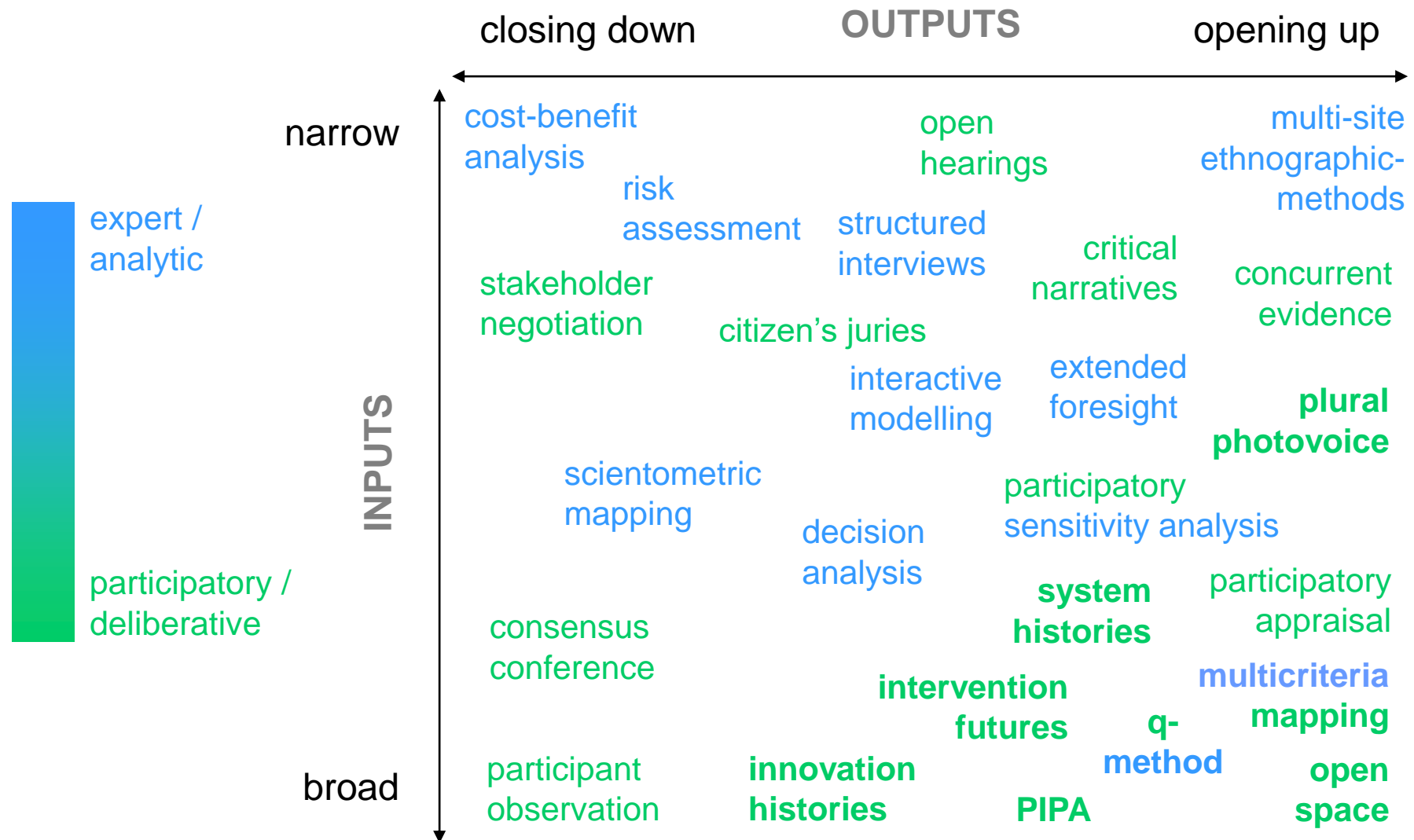


# Research



# Research

*METHODS for opening up, broadening out*



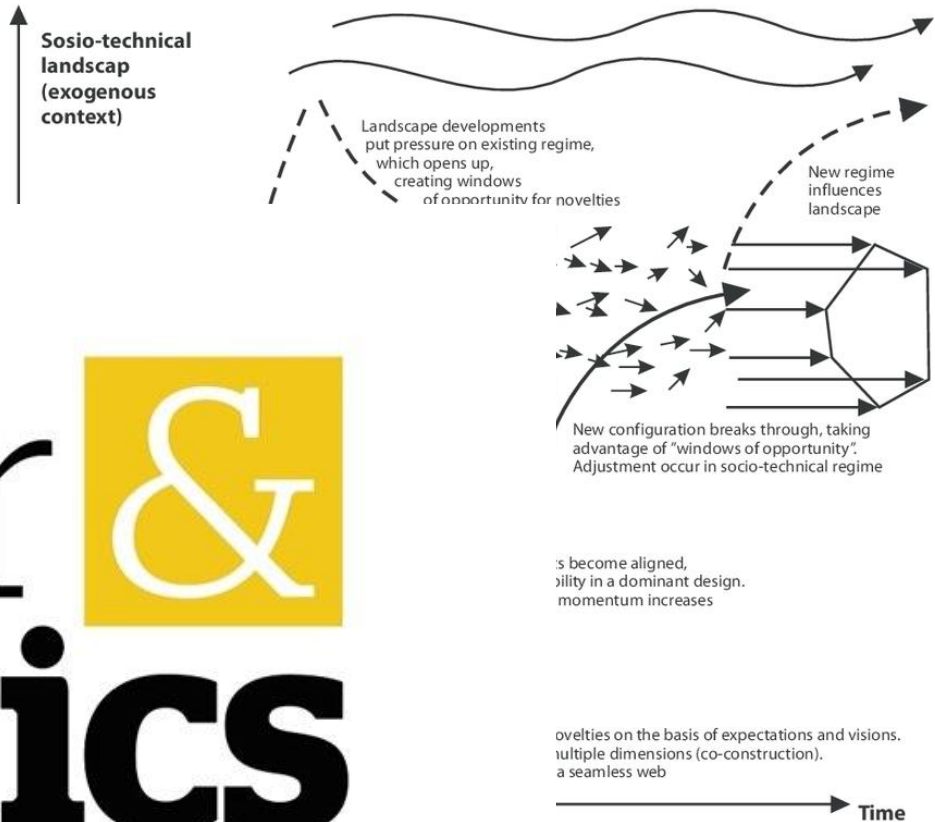


# Research.... for change



# Power & Politics

Increased structuration of activities in local practises



# Research



## TRANSFORMATIONS





# FSR: the next 40 years?

- **Beyond farming and farmers:** political economies of livelihoods and agrarian change
- **Framing systems:** uncertainty and the politics of knowledge and innovation
- **Research for transformation:** transdisciplinarity alliances for change