

**Agroecology Europe
Forum 2017
Lyon, France**



**Workshop 11: Agroecology
and Agroforestry
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Transition to agroforestry

*Current challenges and opportunities for the adoption of
agroforestry as carbon sequestration strategy*

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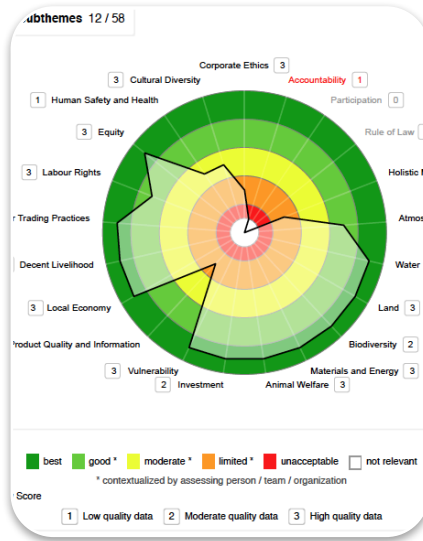
**EXCELLENCE
WITH IMPACT**

**Coventry
University** 

Transition to agroforestry to promote carbon sequestration



Current Knowledge



Challenges



The Way Forward

Current Knowledge

The benefits of agroforestry

Multi-functional landscape → Ecosystem services:

- Supporting: soil enrichment, nutrient cycling
- Provisioning: biodiversity, biomass (food, timber)
- Regulating: air/water quality, land degradation, climate change

→ **Carbon sequestration:**

- Aboveground biomass
- Belowground biomass
- Soil properties, quality, SOM
- Saturation...

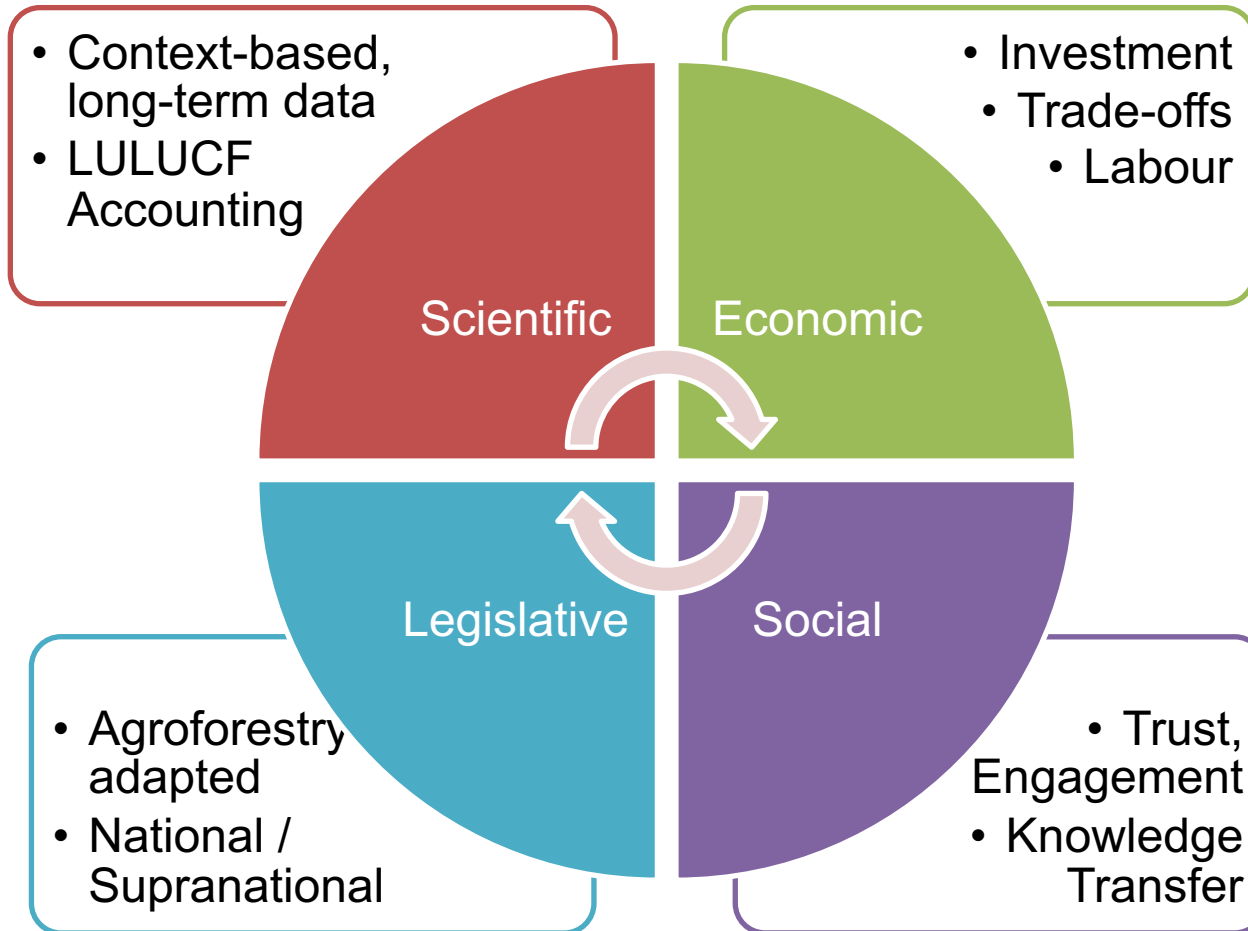
Woodland ≠ Silvopasture ≠ Grassland

Long-term land management strategies



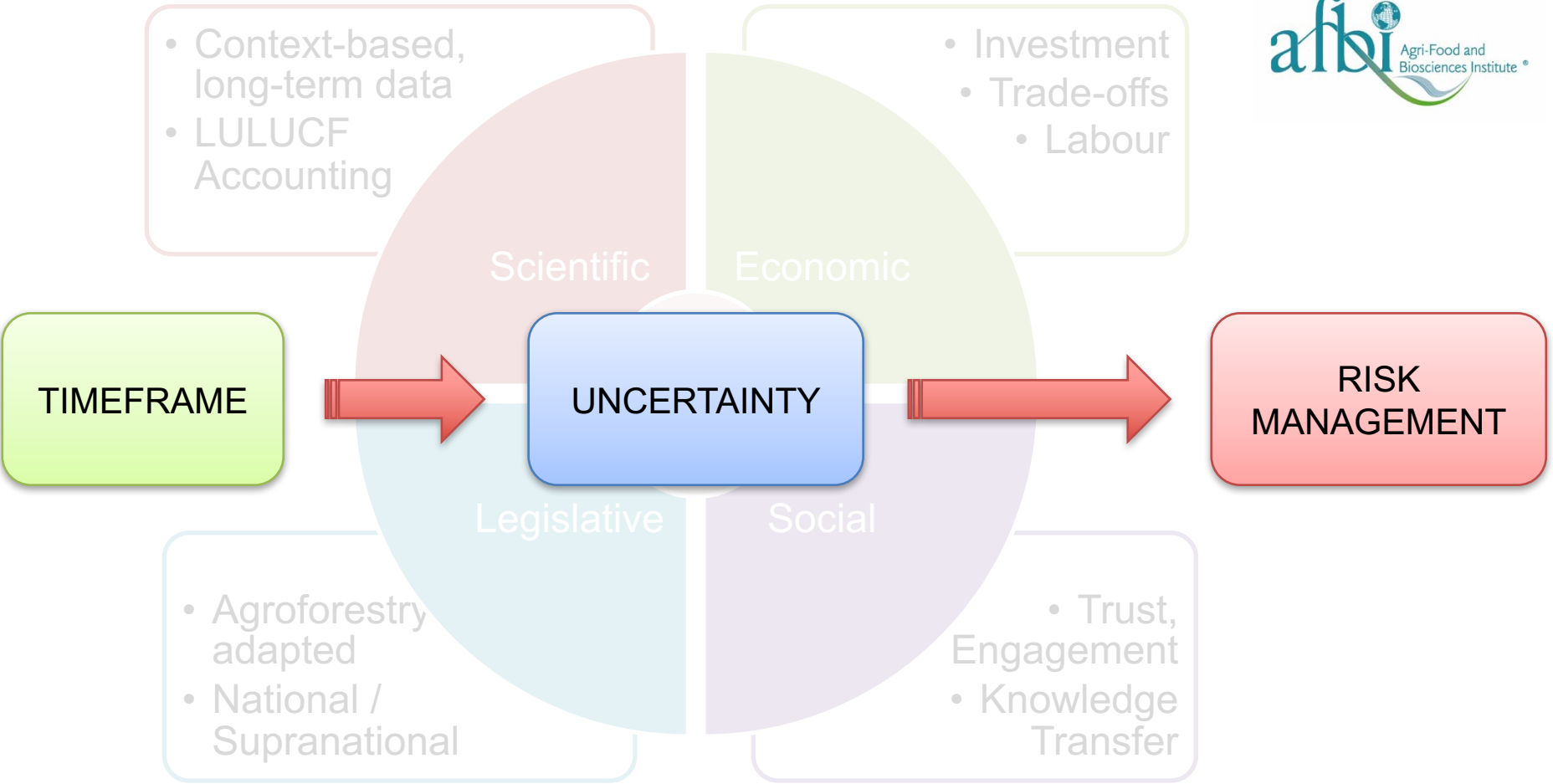
Challenges

Need to address **complexity** in agroecological transition!



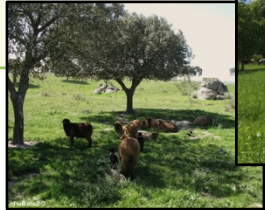
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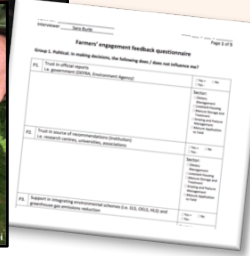


The Way Forward

Long-term data
Modelling LUC
Economics



Knowledge
integration



Indicator-based Decision Support Tool

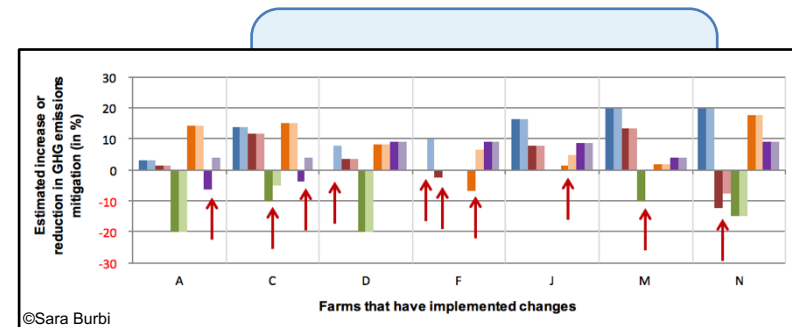
- ✓ User-friendly
- ✓ Context-based
- ✓ Focus on practices (e.g. soil health indicators)
- ✓ Socio-economic impact
- ✓ Recommendations, options, trade-offs

**PARTICIPATORY
PRACTICAL
LONG-TERM
STRATEGY**

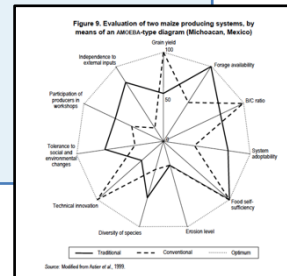
The Way Forward

Long-term benefits

- ✓ Integration of scientific, empirical, and traditional knowledges → Greater engagement → **Innovation**
- ✓ Improved **economic assessment**
- ✓ Application **at any scale**
- ✓ Self-assessment for compliance with **environmental schemes**
- ✓ Support **policy changes**
 - Evidence-informed
 - Transdisciplinary



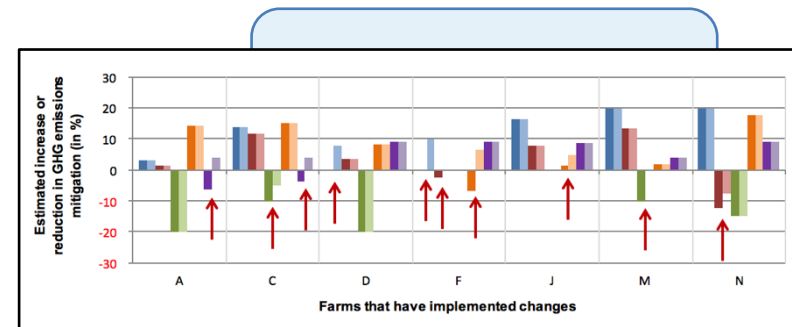
Monitor transition



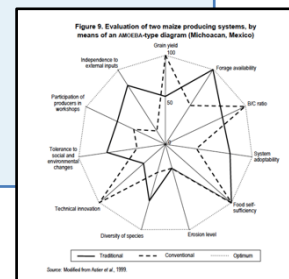
The Way Forward

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Monitor transition



Thank you!

Some reading...

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