

Synthesis in LEGATO

by the

LEGATO consortium

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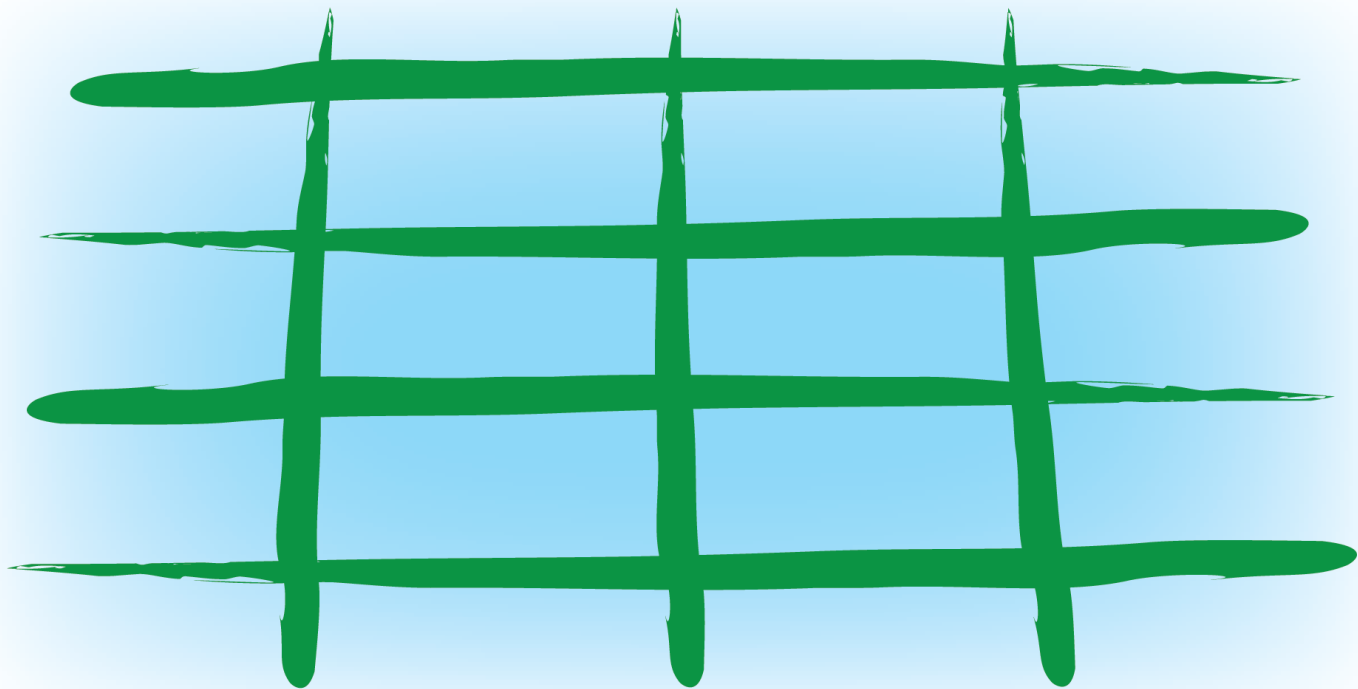


Universität
Marburg

Department of Ecology

LEGATO

RICE ECOSYSTEM SERVICES





Why synthesis?



How to synthesize?



And for whom?

Sustainable land management needs to integrate variability
in socio-ecological systems
across space and time



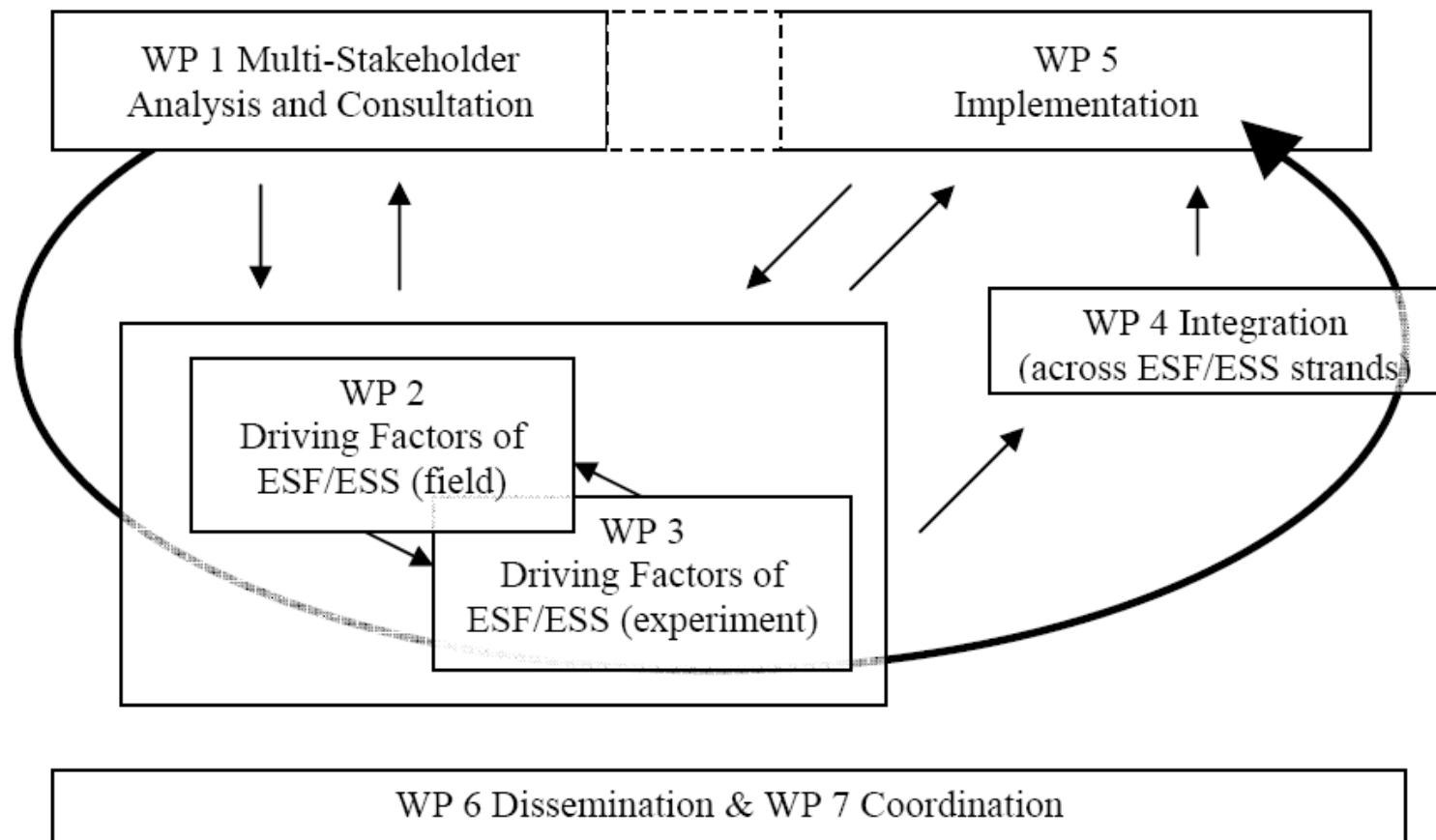
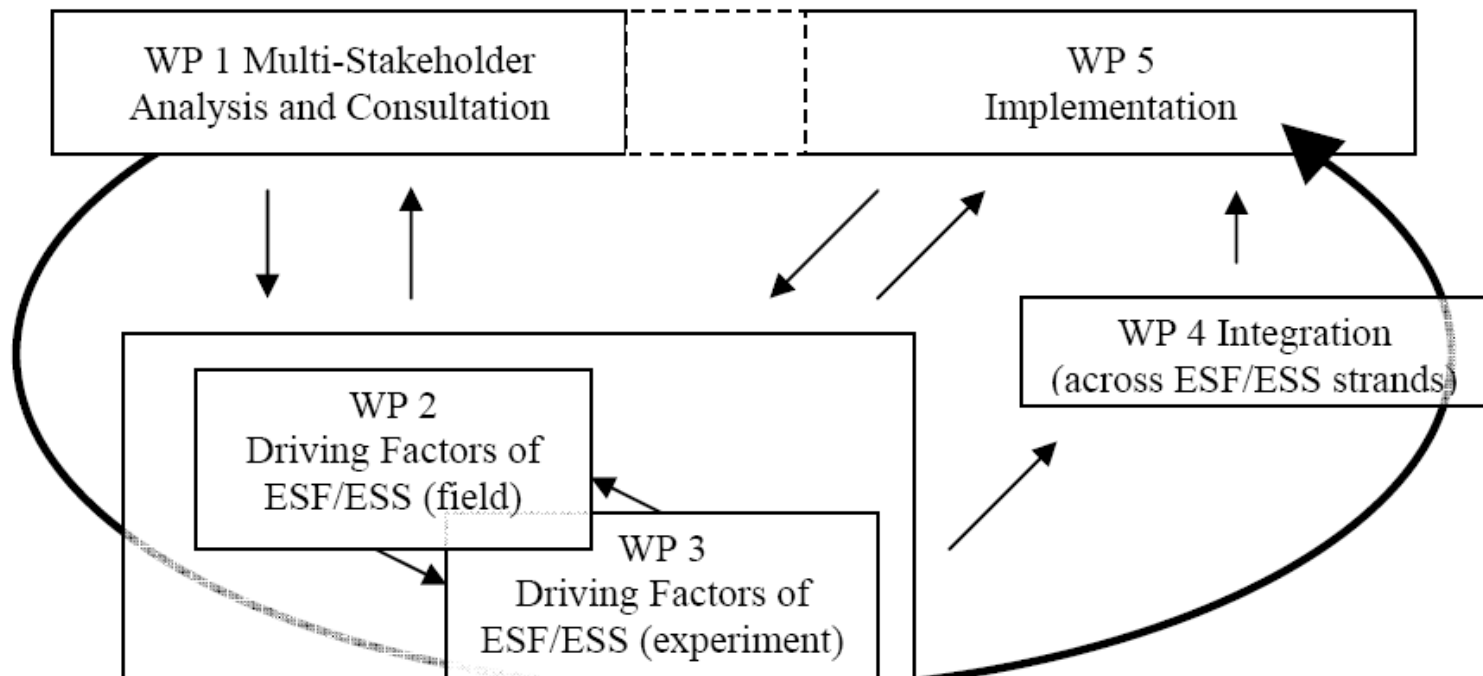


Figure 7.1: LEGATO overview structure and work flow



**Synthesis through
project design**

The Ecosystem Service Cascade: The influence of purpose and application characteristics like scale and beneficiaries

Spangenberg et al. (subm.)

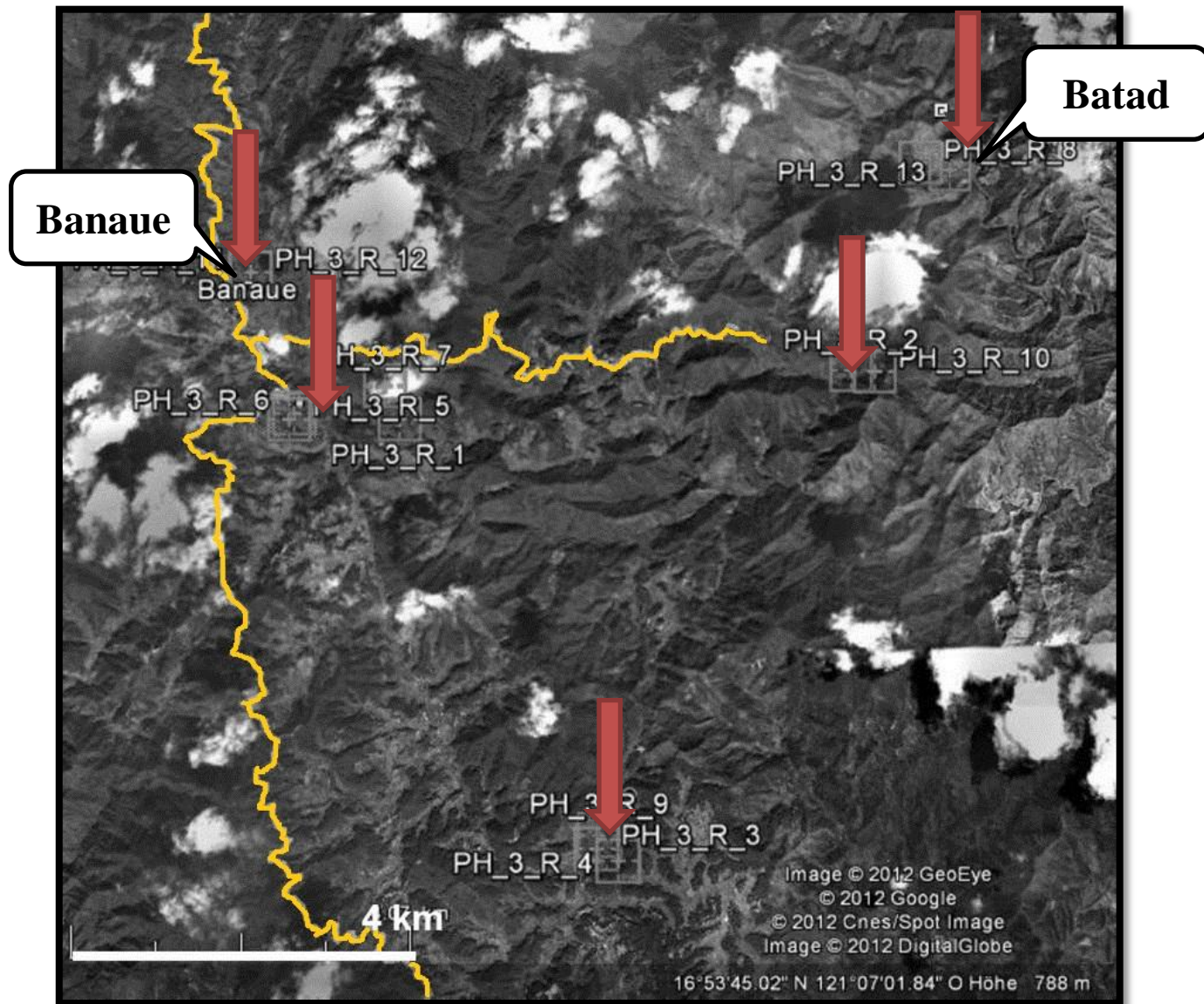
The Ecosystem Service Cascade: The influence of purpose and application characteristics like scale and beneficiaries

Span

Synthesis through joint
concepts & philosophies



LEGATO Ifugao (PH_3) research sites



Tappiya Falls Trail

Structurally
rich

PH_3_R_8

Structurally
poor

PH_3_R_13

149 m

149 m

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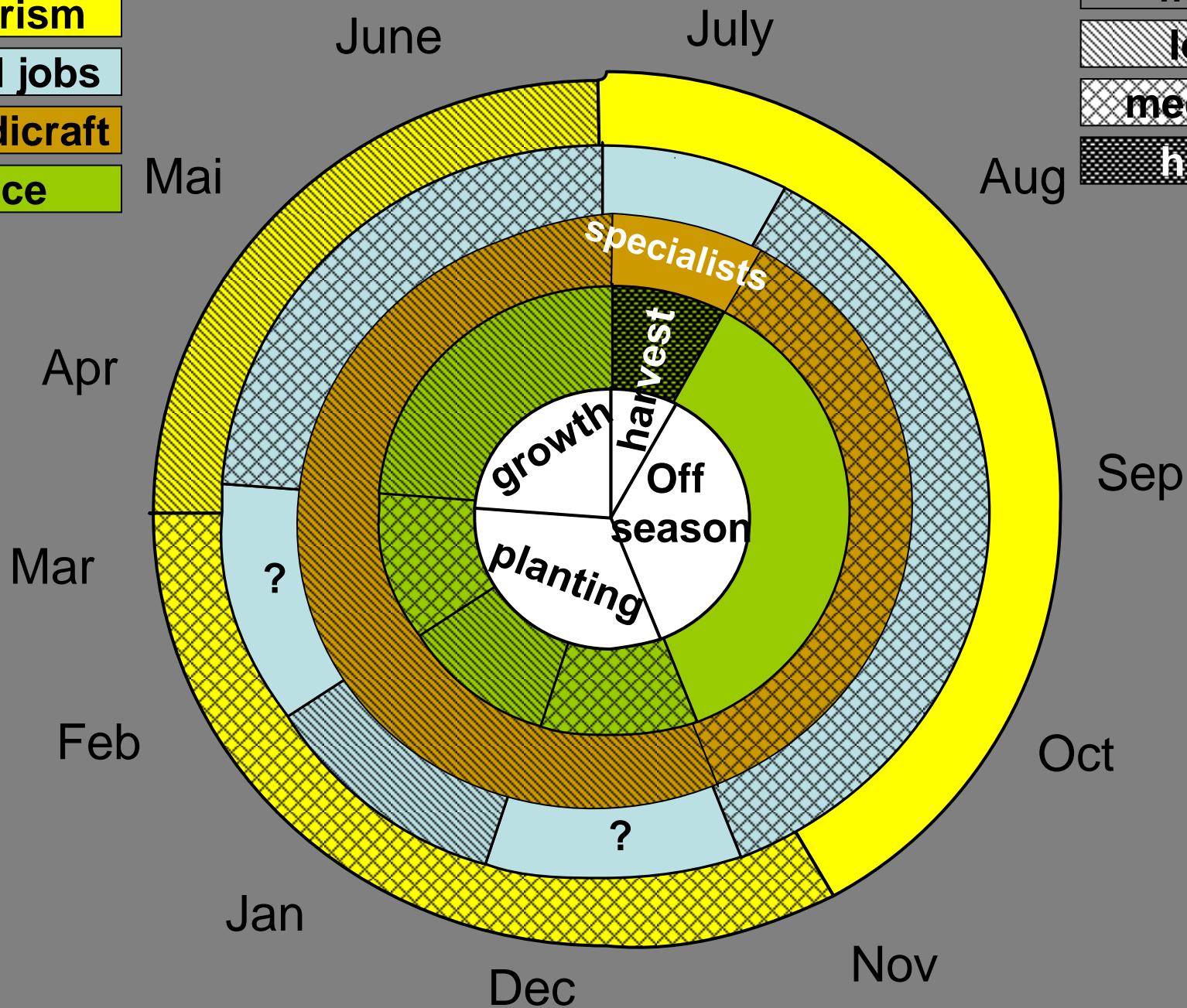
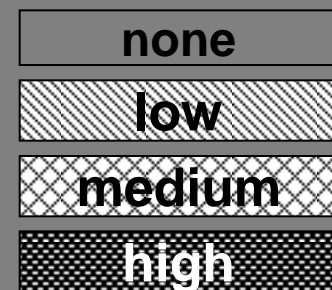
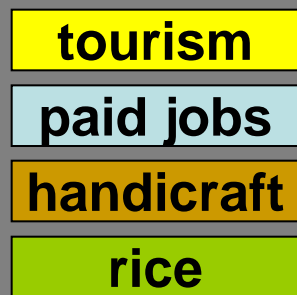
PLEASE
ORDER
DINNER
BEFORE
7:00 PM

PLEASE RETURN
YOUR KEY UPON
CHECK-OUT

ERN



Synthesis through
co-design & citizen
science

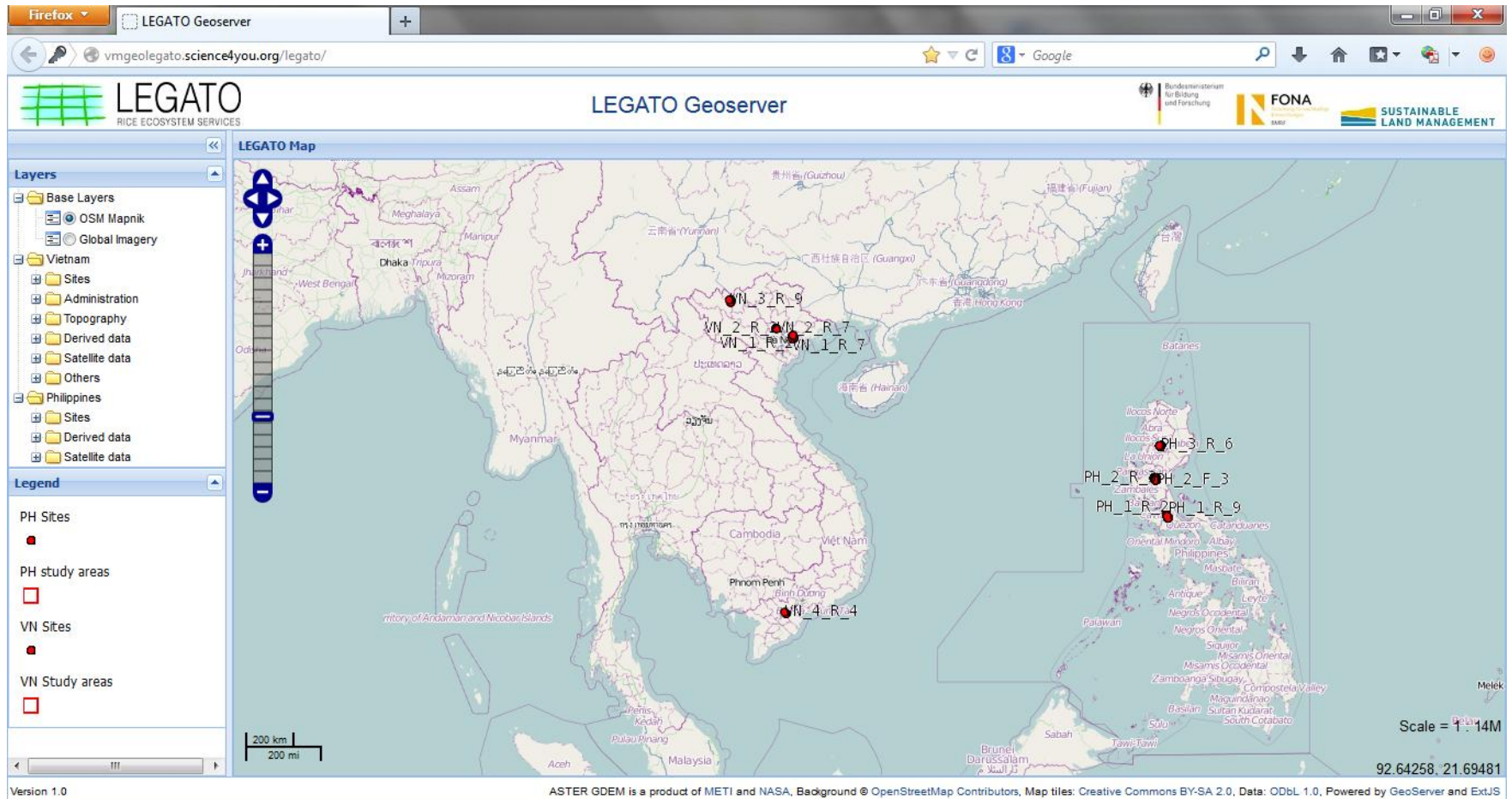


Interdisciplinary questions

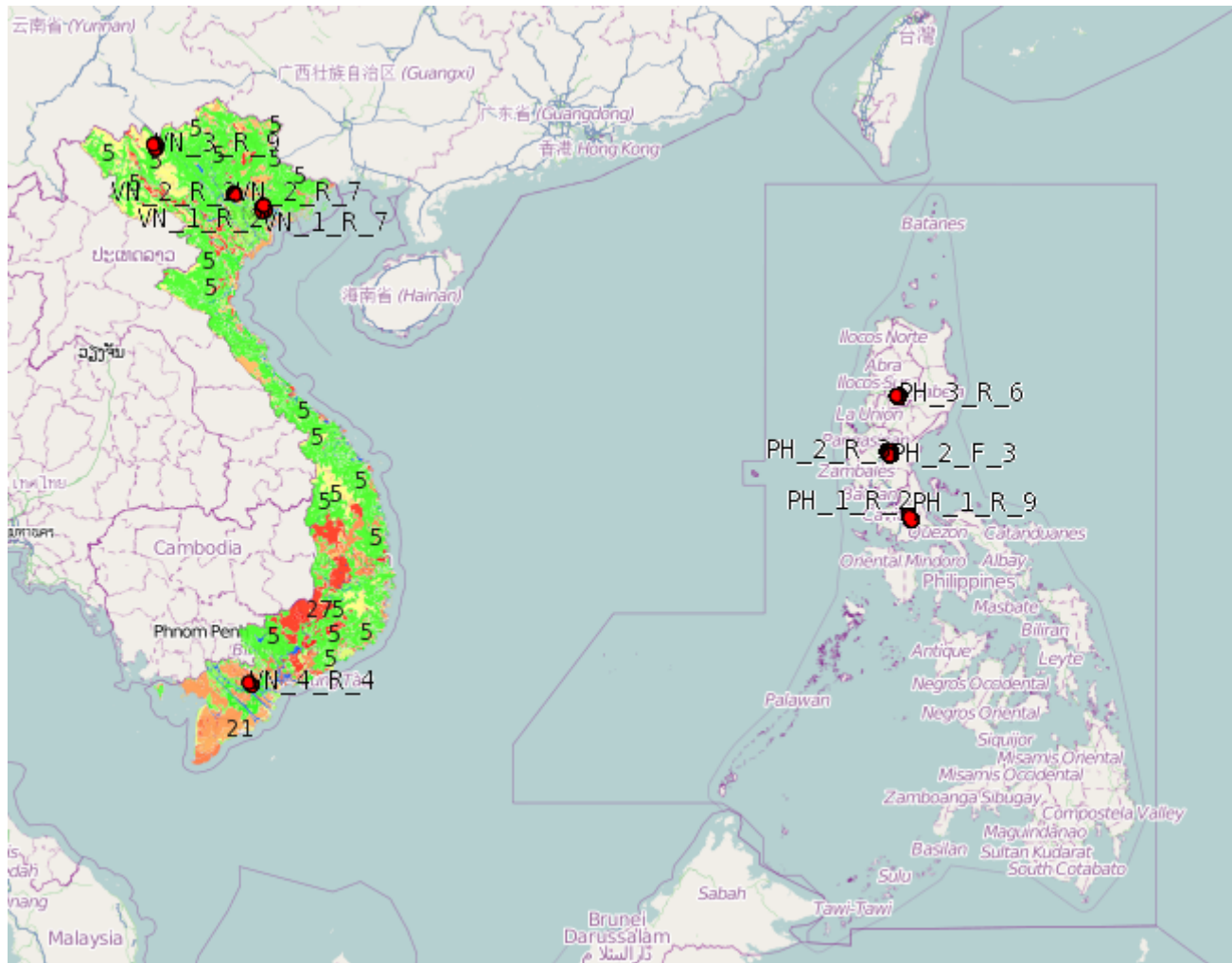
- Influence of rice Si concentration on nutrient cycling, pests and productivity ?
- Which socio-economic factors determine the crop residue management?
- Economic feasibility of Si fertilization?

**Synthesis through
inter-disciplinary
approaches**

Data integration – the LEGATO Geoserver



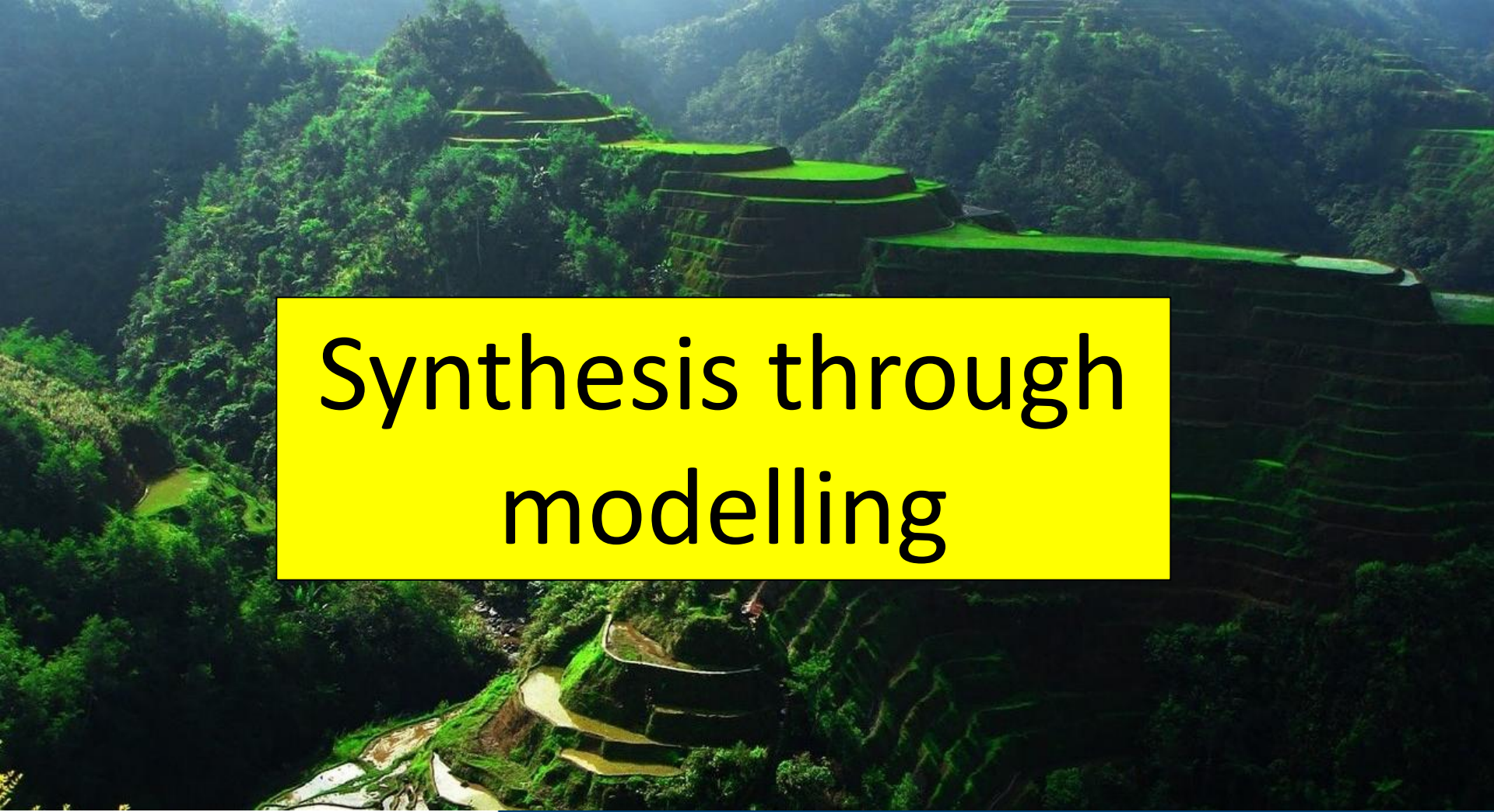
The (usual) challenges: terminology, classification, data availability





The effects of surrounding landscapes on the biocontrol-production function in rice dominated agroecosystems

Christophe Dominik



Synthesis through modelling

**The effects of surrounding landscapes on the biocontrol-production
function in rice dominated agroecosystems**

Christophe Dominik



Synthesis through
valuation

Synthesis 2.0?

Common International Classification of Ecosystem Services (CICES): Consultation on Version 4, August-December 2012

Report to the European Environment Agency



Where do we go from here?

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