

DEI MEAS - ដីមាស

“Golden soil”



04th April 2025
Venue: Online

FINANCING FARMERS TRANSITION TO AGROECOLOGY IN CAMBODIA

Short presentation

Mr. Vernet Pierre-Antoine (Swisscontact/CIRAD)
Mr. Phy Chhin (DALRM/GDA)

Dei Meas pilot



Agroecology and
Safe Food System
Transitions

<https://www.asset-project.org/>





DEI MEAS (Golden Soil)

3 YEARS PILOT (2022-2025)

Explore financial mechanisms for a sustainable transition of smallholder farmers toward agroecological practices.

Pillar 1:
Farmer
Transition

Pillar 2:
Impact
Quantification

Pillar 3:
Financial
Mechanism

Update (Jan 2025):

191

HOUSEHOLDS
IMPACTED

601

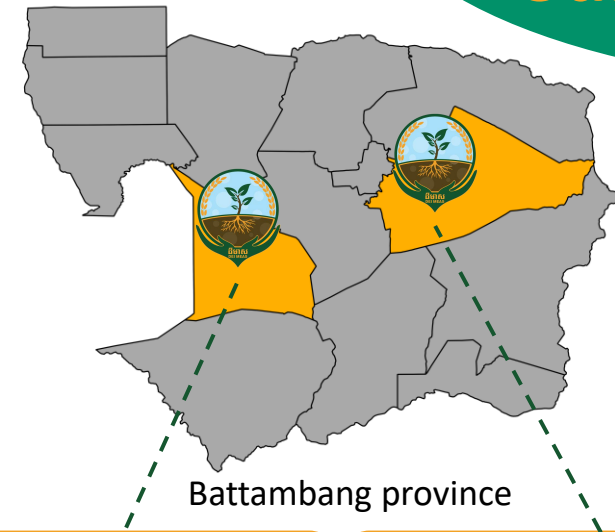
HECTARES UNDER
AGROECOLOGICAL
TRANSITION

3

INNOVATIVE
TECHNOLOGIES
CALIBRATED (MRV)

\$40,000+

OF INCENTIVE
DISTRIBUTED TO
EA FARMERS



Battambang province



Upland
Rainfed
conditions
• 2 villages



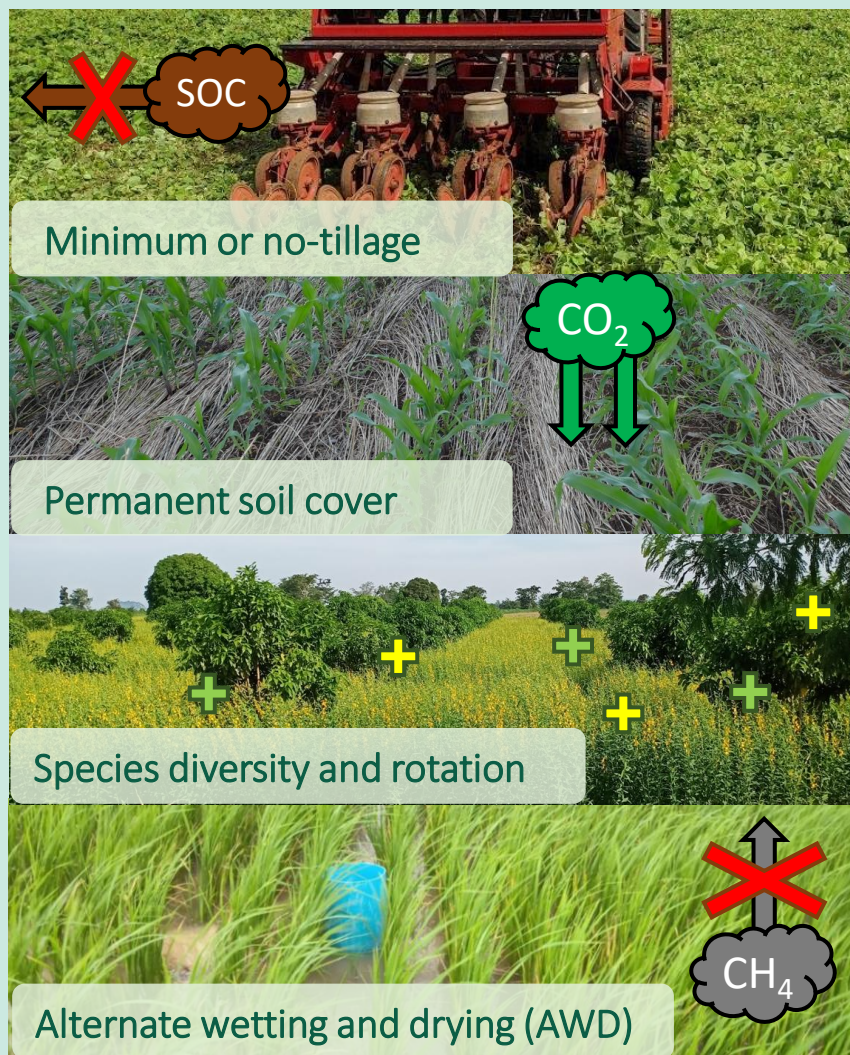
Lowland
Irrigated
conditions
• 3 villages

Co-financed by:



Dei Meas pilot summary

Pillar 1: Transition



Pillar 2: MRV

Soil analysis & MIR

farm assessment
(ground-proof)

Biofunctool (soil
health indicators)

SOC and GHG
emissions model

Remote sensing
monitoring

Pillar 3: Finance

Product certification
(RegenAgri, Organic, SRP...)

Carbon finance
(insetting/Offsetting)

Impact certification
(outcome-based payment,
eco-certificate, ESG...)

Increased **yield**
Better product **quality**



Under the DALRM, General
Directorate of Agriculture
(GDA-MAFF Cambodia)

- Hok et al., 2015, 2018, 2021
- Le et al., 2018abc
- Pheap et al., 2019
- Suong et al., 2019
- Masson et al., 2022
- Koun et al., 2023
- Leng et al., 2024

Long-term experiment: 15 years of
research on no-tillage,
cover crops and crop diversification



Bos Khnor research and training center,
Kampong Cham province, Cambodia
















Dei Meas Pillar 2 :
Calibration of the
MRV system
(Mid-infrared (MIR)
spectrometer)

PhD of Dr. Vira Leng: Reverting the trend of soil
fertility depletion through Carbon farming

Increase in Soil Carbon stocks with RegenAg: **+ 0.65 tons** to **+ 1.47**
tons of Carbon per ha and per year (2.4 to 5.4 tCO₂eq/ha/y)

Leng et al., 2024

Pillar 3: Exploring financial mechanisms

Model	Main actors	Remark	Main crop	Avoidance	Removal	Social Bio-diversity
Certification standard	RegenAgri	Insetting/Offsetting model	All			
	SRP	Insetting model soon	Rice			
Carbon project developer	CarbonFarm	Satellite-based MRV	Rice			
	GreenCarbon	Strong JCM link	Rice			
	ACORN	Focus on Agro-forestry	Agro-forestry			
Outcome based payment	Regen Network	Practice-based certificate	All			
	Shamba Center	Outcome-based payment	All			
Micro-finance	Agrig8	Reduced-interest loan for RegenAg	Rice, Mungbean			

 regenagri



SRP



 green carbon



 AgriG8