

LAND-CRAFT: a decision support system for climate-resilient abaca agroforestry in Catanduanes

PHILIPPINES · Catanduanes · selected municipalities

CATEGORY

NATURAL SYSTEMS

TERRESTRIAL ECOSYSTEMS

RICD RISK TIER

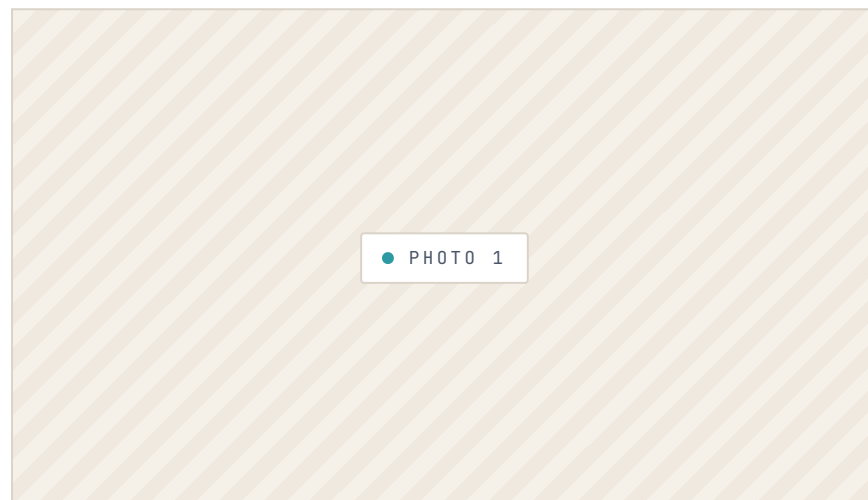
High

PRIMARY HAZARDS

Water stress

MOBILITY DIMENSION

Avoided displacement



● PHOTO 1

GRANT RECIPIENT

PARTNERS

Catanduanes State University · DA
Catanduanes · PhilFIDA Catanduanes

TOTAL PROJECT VALUE

45,676 USD 12 months

50% CCF GRANT 22,838 USD

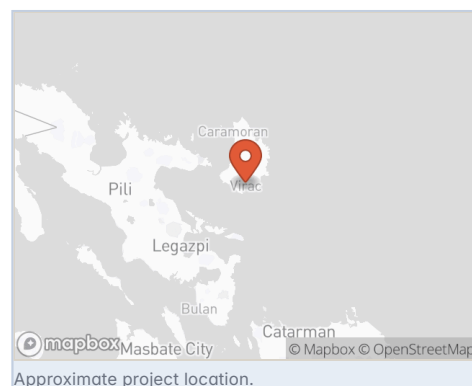
50% MATCHING FUNDS 22,838 USD

Matching partner being sought

Context and approach

Abaca is the economic backbone of Catanduanes and is highly exposed to typhoons, landslides and shifting rainfall. Livelihood interventions can have counter-intuitive effects in such complex farming systems.

With Catanduanes State University, the Department of Agriculture and PhilFIDA, the project builds a map-based decision support system using agent-based, GIS and system dynamics modelling to guide climate-resilient agroforestry in selected municipalities.



Project outputs

- Draft a landscape-scale decision support system
- Collect quantitative and qualitative data from abaca farming households
- Finalise the system and evaluate intervention scenarios and policies
- Turn the tool over to local governments and partner agencies
- Communities and planners see where agroforestry will strengthen resilience
- Policies for abaca livelihoods are tested before they are rolled out
- Local institutions can keep using the tool for participatory planning

Reach & deliverables

41,500

ESTIMATED
POPULATION
IMPACTED

abaca
farming,
Catanduanes

1

DECISION
SUPPORT
TOOL

landscape-
scale

3

MODELLING
METHODS

agent-based,
GIS, system
dynamics

Milestones

12 MONTHS TOTAL

M.01 2 months	M.02 3 months	M.03 1 month	M.04 1 month	M.05 1 month
Draft decision support system	Quantitative and qualitative primary data collection	Final decision support system	Evaluated policies	Turnover of final decision support system