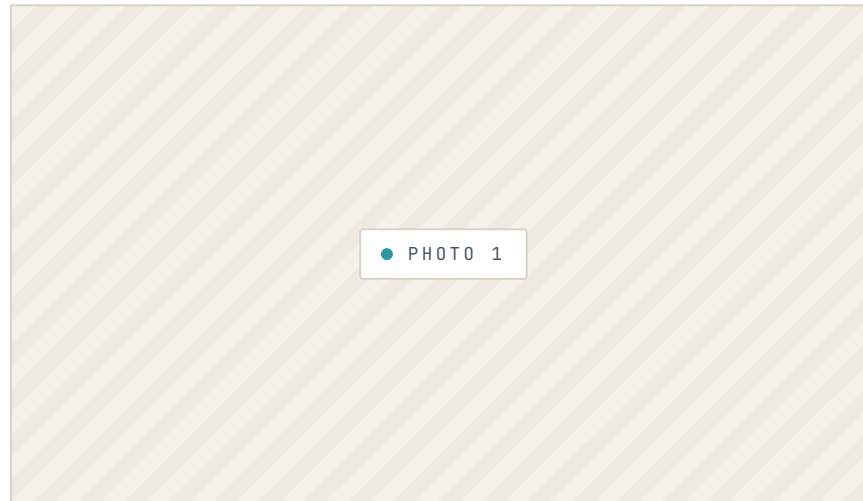


Climate data-based adaptation model for rice fields in Bandung and West Bandung Regencies

INDONESIA · West Java · Bandung Regency

CATEGORY **AGRI-FOOD SYSTEMS** **CROP PRODUCTION**PRIMARY HAZARDS
Heat stress · Water stressMOBILITY DIMENSION
Avoided displacement

RICD RISK TIER

Very high

GRANT RECIPIENT

BRIN

PARTNERS

Bandung and West Bandung agriculture offices

TOTAL PROJECT VALUE

14,014 USD 12 months**50%** CCF GRANT **7,007 USD****50%** MATCHING FUNDS **7,007 USD**
BRIN (cash)

Context and approach

Rice farming in Bandung and West Bandung is increasingly disrupted by water stress and extreme heat, with erratic rainfall shifting where and when rice can be grown. Farmers lack forward-looking information on which fields remain suitable and how to adjust planting.

BRIN, Indonesia's national research agency, will use MaxEnt modelling to map future rice suitability under climate scenarios and translate results into adaptive planting calendars, water management and farmer training across the two regencies.



Project outputs

- Model future rice suitability under climate change using MaxEnt
- Produce adaptive planting and water management guidance for farmers
- Train farmer groups on climate-informed cultivation practices
- Share suitability maps with regency agriculture offices
- Farmers plan cropping around evidence of where rice will remain viable
- Regency planners hold a climate-informed map of rice suitability
- Rice livelihoods remain productive, reducing pressure to migrate for work

Reach & deliverables

73,210	1	2
ESTIMATED POPULATION IMPACTED	RICE SUITABILITY MODEL	REGENCIES
farming households in two regencies	MaxEnt, climate data-based	Bandung and West Bandung

Milestones

12 MONTHS TOTAL

M.01 3 months Data Collection & Initial Modeling	M.02 2 months Field Validation & Public Consultation	M.03 4 months Implementation of Agricultural Adaptation Pilot	M.04 3 months Monitoring, Evaluation, Integration & Dissemination of Results
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