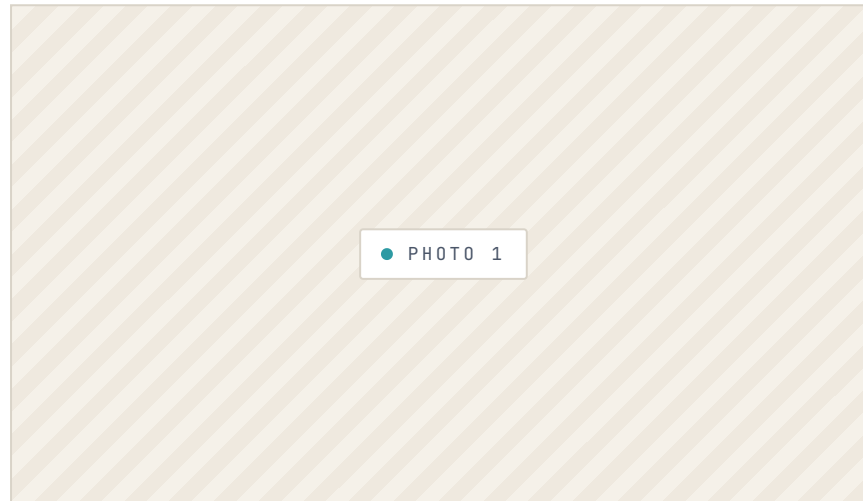


Farmer-led reduction of food loss and waste for climate resilience in Desa Mekarwangi, West Bandung

INDONESIA · West Java · Mekarwangi

CATEGORY **AGRI-FOOD SYSTEMS** **MANUFACTURE OF FOOD & BEVERAGE PRODUCTS**PRIMARY HAZARDS
Heat stress · Water stressMOBILITY DIMENSION
Avoided displacement

RICD RISK TIER

High

GRANT RECIPIENT

PT Berkah Inovasi Kreatif Indonesia (BIKI)

PARTNERS

BIKI Point network · PT PLN TSJL programme

TOTAL PROJECT VALUE

39,238 USD 12 months**50%** CCF GRANT **19,619 USD****50%** MATCHING FUNDS **19,619 USD**
PT BIKI (cash)

Context and approach

Vegetable farmers in Mekarwangi face rising temperatures, shifting rainfall, floods affecting half of households and worsening pest outbreaks. Post-harvest losses reach 25 to 50 per cent, and 44 per cent of residents remain in poverty with little capacity to adapt.

Building on the existing BIKI Point food-rescue network, PT BIKI delivers pre-harvest support (good agricultural practice training, Kito-B bio-immuniser, AI pest detection on WhatsApp) and post-harvest measures (handling training for women, Chitasil coating, QR traceability).



Project outputs

- Develop a greenhouse and train farmers in good agricultural practices
- Introduce Kito-B bio-immuniser and an AI WhatsApp pest detection tool
- Train women's groups in good handling practices with Chitasil edible coating
- Set up QR-based traceability and share results through a guidebook and video
- Pre-harvest losses fall from 8 to 10 per cent to 3 to 5 per cent
- Post-harvest spoilage drops below 5 per cent and incomes rise by at least 10 per cent
- Healthier soils and stable incomes keep farming families in Mekarwangi

Reach & deliverables

1,055 ESTIMATED POPULATION IMPACTED Desa Mekarwangi	+20% CROP YIELDS targeted on 10 plots	<5% POST- HARVEST LOSS down from 25- 50%
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Milestones

12 MONTHS TOTAL

M.01 2 months Greenhouse development	M.02 2 months Training on good agricultural and handling practices	M.03 3 months Pre-harvest intervention (Kito-b, AI WhatsApp tool)	M.04 3 months Post-harvest intervention (Chitasil, traceability)	M.05 2 months Dissemination: report, guidebook, video and outreach event
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