

# Drainage master plan for flood and landslide risk reduction in the Municipality of Rodriguez, Rizal

PHILIPPINES · Rizal · Rodriguez

CATEGORY

SOCIAL SYSTEMS

DISASTER RISK REDUCTION

RICD RISK TIER

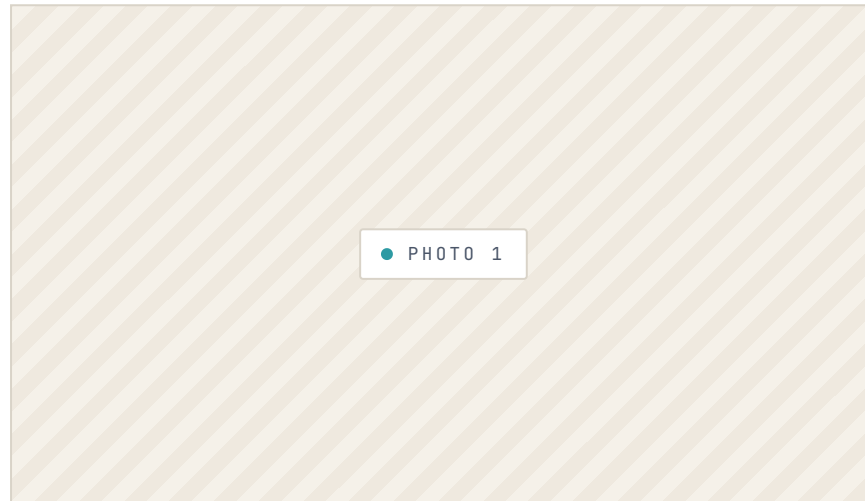
High

PRIMARY HAZARDS

Flood damage · Storm damage · Changes to marine conditions

MOBILITY DIMENSION

Avoided displacement



● PHOTO 1

GRANT RECIPIENT

PARTNERS

IOM · Barangays · DILG · DPWH · DENR

TOTAL PROJECT VALUE

45,676 USD

12 months

50%

CCF GRANT

22,838 USD

50%

MATCHING FUNDS

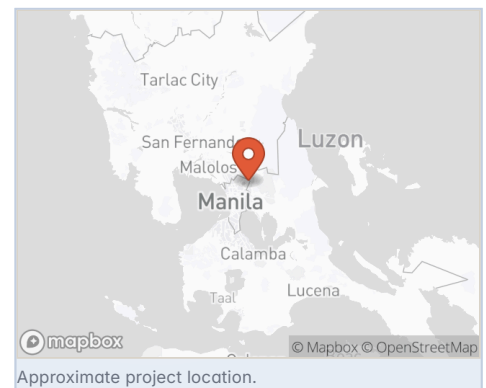
22,838 USD

Matching partner being sought

## Context and approach

Rodriguez sits at the foot of the Sierra Madre, where intense rainfall, silted rivers, deforestation and undersized drains turn storms into floods and landslides that displace households in low-lying barangays.

The municipality will prepare a municipality-wide drainage master plan using hydrological and GIS assessment, mapping hotspots, prioritising stormwater improvements and restoring natural waterways, developed with communities and national agencies.



## Project outputs

- Conduct hydrological and hydraulic assessment of the municipal drainage system
- Map flood and landslide hotspots using GIS
- Prioritise stormwater improvements and natural waterway restoration
- Consult barangays and coordinate with DPWH, DENR and DILG
- Rodriguez has an integrated, climate-informed plan for stormwater management
- Flood control investment is targeted where displacement risk is highest
- Agencies and communities coordinate on drainage and watershed protection

### Reach & deliverables

120,000

ESTIMATED  
POPULATION  
IMPACTEDMunicipality of  
Rodriguez

1

DRAINAGE  
MASTER  
PLAN  
municipality-  
wide

1

GIS  
HOTSPOT  
MAP  
flood and  
landslide

## Milestones

12 MONTHS TOTAL

M.01

3 months

Climate Risk Assessment, GIS Mapping, and  
Drainage System Analysis

M.02

3 months

Drainage Master Plan Development and  
Stakeholder Consultation

M.03

3 months

Finalization, Adoption, and Capacity Building  
for Implementation