

Climate-resilient seawall protecting fishing households on Kodingareng Lompo Island, Makassar

INDONESIA · South Sulawesi · Kodingareng Lompo

CATEGORY **INFRASTRUCTURE** **FLOOD MANAGEMENT**

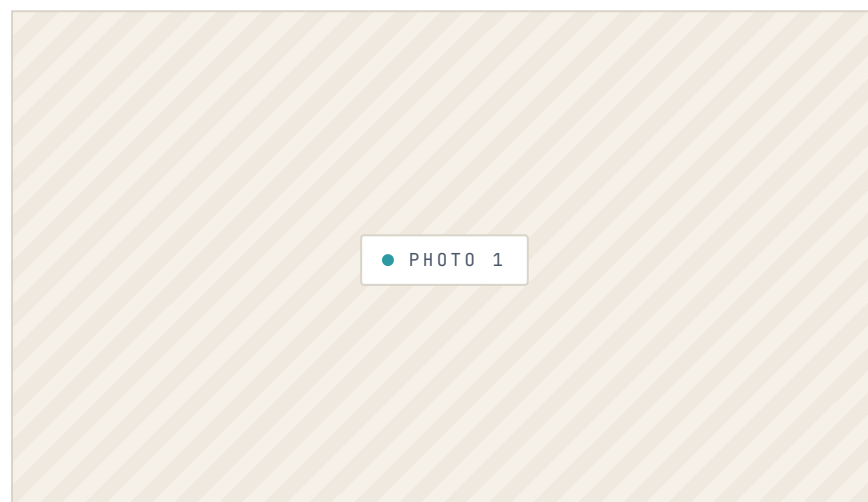
PRIMARY HAZARDS

Flood damage · Storm damage · Changes to marine conditions

MOBILITY DIMENSION

Avoided displacement

RICD RISK TIER

Medium

GRANT RECIPIENT

D4C Indonesia

PARTNERS

PT KIMA · Kodingareng Lompo village

TOTAL PROJECT VALUE

44,844 USD 8 months**50%** CCF GRANT **22,422 USD****50%** MATCHING FUNDS **22,422 USD**

Matching partner being sought

Context and approach

Kodingareng Lompo, in Makassar's Sangkarrang Archipelago, is losing shoreline to wave abrasion intensified by storms and rising seas. Marine sand mining has degraded reefs that once broke waves, and earlier seawalls have failed for lack of durability and maintenance.

D4C Indonesia will build a climate-resilient seawall designed with the community to withstand extreme weather, protecting homes, public facilities and fishing grounds, alongside livelihood adaptation so that low-income and women-headed households are not forced to leave the island.



Project outputs

- Assess erosion and design a durable seawall with community input
- Construct the seawall in two phases with quality assurance
- Train residents in maintenance and hand over to local management
- Integrate the structure into village development plans
- Coastal homes and public facilities are protected from wave damage and flooding
- Fishing households keep access to their landing sites and livelihoods
- The community owns a maintained defence that earlier seawalls failed to provide

Reach & deliverables

10,286	1	1
ESTIMATED POPULATION IMPACTED	CLIMATE-RESILIENT SEAWALL	COMMUNITY OVERSIGHT COMMITTEE
Kodingareng Lompo Island	protecting homes and fishing grounds	monitoring and maintenance

Milestones

8 MONTHS TOTAL

M.01 2 months	M.02 2 months	M.03 2 months	M.04 1 month	M.05 1 month
Project initiation and technical assessment	Community consultation and design finalisation	Procurement and seawall construction phase I	Construction phase II and quality assurance	Community training, handover and integration into local plan