




CLIMATE RESILIENCE **Safeguarding Rural Communities and Their Physical Assets from Climate-Induced Disaster in Timor-Leste**

The UNDP Timor-Leste in partnership with the Government of Timor-Leste and funding from the Green Climate Fund (GCF) is implementing the project “Safeguarding Rural Communities and their Physical Assets from Climate Induced Disasters in Timor-Leste”. The main objective of the project is to safeguard vulnerable communities and their physical assets from climate-induced disasters mainly floods, landslides, erosion, and droughts. It aims to address existing institutional, financial, and legislative barriers, increasing the climate resilience of vulnerable small-scale rural infrastructure. The main activities of the project include climate risk information system development, construction/rehabilitation of 130 units of climate-smart small-scale rural infrastructure (rural roads, irrigation systems, water supply, and flood protection), and catchment management through an eco-based approach. All the activities are complemented by strengthening policies & regulations and through capacity building. The project targets 175,840 direct beneficiaries, an estimated 15% of the total population in six disaster-prone municipalities of Liquica, Aileu, Ermera, Baucau, Lautem, and Viqueque.

National Priorities

 National priorities from Timor-Leste Strategic Development Plan 2011-2030

- Environment and Climate Change
- Infrastructure Development
- Economic Development

 Timor-Leste’s National Adaptation Programme of Action (NAPA)-2010

- Climate disaster risk reduction

Project Main Activities



Output 1: Climate risk information is developed, monitored and integrated into policies, regulations and institutions to inform climate resilient small-scale rural infrastructure planning and management.

- Develop and deliver climate risk information services and vulnerability mapping to all sectoral institutions
- Establish a database system for monitoring, recording and accounting climate induced damages in order to inform climate risk reduction planning and budgeting.
- Refine ordinances, regulations, and associated codes and standard to enable climate proofing small-scale rural infrastructure.



Output 2: Climate risk reduction and climate-proofing measures for small-scale rural infrastructure are implemented to build the resilience of vulnerable communities in six priority districts.

- Climate risk reduction measures for small-scale rural infrastructure are fully integrated into the planning and budgeting cycles of village and municipal development plans.
- Implementation of climate proofing measures for 130 units of small-scale rural infrastructure.
- Supporting catchment management and rehabilitation measures to enhance climate resilient infrastructure and communities through plantation of 1500 Hectares.

Quick Facts

Project Title

Safeguarding Rural Communities and Their Physical Assets from Climate Induced Disaster in Timor-Leste

Duration

March 2020- March 2026

Beneficiaries

175,840 direct beneficiaries

Total Budget

US\$59,443,867

Government Counterparts

SEA, MSA, MI-SSCP, MAF, Ministry of Public Works

Project Municipality

Liquica, Aileu, Ermera, Baucau, Lautem and Viqueque.

Funded by



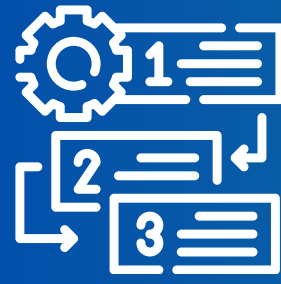
SDG alignment



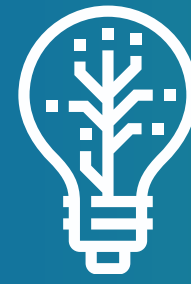
Key Development Challenges



Incomplete policies, standards and regulations that limit the implementation of infrastructure.



Weak capacity of municipal and village level institutions to plan, implement, and maintain network rural infrastructure.



Limited technical capacity to engineer climate proofing measures to infrastructure.



Limited options for financing climate resilient decentralized small-scale rural infrastructure at sub-national level.

Key Results

Climate Risk Information System Development



A Timor Emergency Response System (TERS) has been established.



Developed 4 sets of national hazard maps covering Timor-Leste for floods, landslide, erosion, and drought.



Established & handed over Spatial Data Infrastructure (SDI) Laboratory in Civil Protection Authority department of Secretary state of Civil Protection.

Capacity Building



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Government staff received training in climate and disaster proofing of small-scale infrastructure, catchment management, drone, hazard mapping, and engineering.

Climate Risk Reduction & Proofing Measures for Small Scale Rural Infrastructure

Type of Infrastructure to be Rehabilitated	Total	GCF Target	Achievements till 2023/ 2024	Co-financing Target	Achievements till 2023/ 2024
Rural Roads	47	32	10	15	8
Irrigation systems	25	12	6	13	3
Water Supply	38	20	2	18	18
Flood Protection	20	2	0	18	2
Total	130	66	18	64	31

40,955
Direct Beneficiaries



8191HH



20540



20414

Supporting Catchment Management and Rehabilitation

Type of catchment Management Intervention	Total	GCF Target	Achievements till 2023	Co-financing Target	Achievements till 2023
Agroforestry	1500 ha	200	70	1200 ha	850
Reforestation/ Afforestation		100	0		
Total		300	70	1200 ha	850

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Target beneficiaries



288 Landlorads

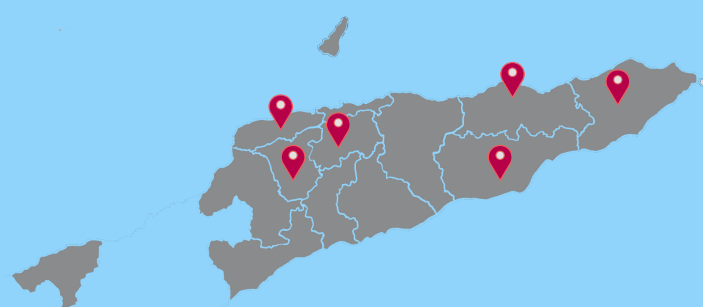


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Project Map



Voices



"We planted the trees supplied to us on my 0.74 hectares of land to safeguard our new road from landslides. These trees will benefit both us and our grandchildren in the future. I am also glad since this new road allows us to more easily access the local market."

Maria Yasinta Naibou - Beneficiary-Landlord



"Our irrigation channels have been hand-built since the Indonesian era. When it rains and the volume of water is high, the channels break and water flows everywhere. The canals are now being improved as part of a UNDP irrigation project. Hopefully, 500 households will benefit from this irrigation."

Edvijas da Costa Gusmão-Chief of Aldeia of Bahadatu



REZILÉNSIA KLIMÁTICA Salvaguarda Komunidade Rural no Sira-Nia Patrimóniu Fíziku husi Dezastre Kauza husi Klima iha Timor-Leste

PNUD Timor-Leste iha parseria ho Governu Timor-Leste no finansiamentu husi Fundu Klima Verde (FKG) implementa hela projetu "Safeguarding Rural Communities" no sira-nia Asset Fíziku husi Dezastre Klimatika ne'ebé kauza iha Timor-Leste." Objetivu prinsipál husi projetu ne'e mak atu proteje komunidade vulneravel sira no sira-nia rikusoin fíziku husi dezastre sira ne'ebé kauza husi klima, liu-liu inundasaun, rai-slide, erozaun no rai-rahun. Objetivu husi programa ne'e mak atu responde ba obstákulu institusionál, finanseiru no lejizlativu sira ne'ebé eziste, hodi hasa'e reziliensia klimátika ba infraestrutur rurál sira ne'ebé vulneravel ho eskala ki'ik. Atividade prinsipál sira husi projetu ne'e inklui dezenvolvimentu sistema informasaun kona-ba risku klimátiku, konstrusaun/rehabilitasaun ba unidade 130 husi infraestrutur rurál eskala ki'ik ne'ebé matenek liu (estrada rurál, sistema irrigasaun, forneseimentu bee, no protesaun ba inundasaun), no jestaun kapturasaun liuhusi aprosimsaun bazeia ba ekolojia. Atividade hotu-hotu komplementa ho reforsu polísia no regulamentu no kapasitasaun. Projetu ne'e alvu benefisiáriu diretu 175,840, estimativa katak 15% hosi total populasaun iha munisípiu sira neen iha Liquica, Aileu, Ermera, Baucau, Lautem no Viqueque.

Prioridade Nasionál



Prioridade nasional sira husi Timor-Leste nia Planu Estratéjiku Dezenvolvimentu 2011-2030

- Ambiente no Alterasaun Klimátika
- Dezenvolvimentu
- Infraestrutur Dezenvolvimentu Ekonómiku



Timor-Leste nia Programa Asaun Nasionál ba Adaptasaun (PANA)-2010

- Redusaun risku dezastre kilmátika

Projetu nia Atividade Prinsipál



Output 1. Informasaun risku klimátika dezenvolidu, monitorizadu no integradu iha polítika sira, regulamentu sira no instituisaun sira hodi informa planeamentu no jestaun infraestrutur rurál eskala ki'ik ne'ebé reziliente ba alterasaun klimátika.

- Dezenvolve no fornese servisu sira ba informasaun risku klimátika sira no mapeamentu vulnerabilidade sira ba instituisaun setorál sira.
- Estabelese sistema baze dados ba monitoriza, rejista no kontabiliza estragu sira-ne'ebé kauza husi klima atu informa planeamentu no orsamentasaun.
- Halo di'ak liután dekretu sira, regulamentu sira, no kódigu no padraun asociadu sira hodi permite protesaun kontra alterasaun klimátika ba infraestrutur rurál eskala ki'ik sira.



Output 2. Medida sira husi redusaun risku klimátika no protesaun kontra alterasaun klimátika ba infraestrutur rurál eskala ki'ik implementadu hodi harii reziliensia husi komunidade vulneravel sira iha distritu prioritáriu neen.

- Medida sira husi redusaun risku klimátika sira ba infraestrutur rurál eskala ki'ik integrada kompletamente ba iha siklu planeamentu no orsamentasaun sira husi planu dezenvolvimentu suku no munisípiu.
- Implementasaun medida protesaun kontra alterasaun klimátika sira ba unidade 130 husi infraestrur rurál eskala ki'ik sira.
- Apoiu jestaun basia hidrográfika no medida reabilitasaun sira hodi hasae reziliensia klimátika husi infraestrutur no komunidade sira liuhusi plantasaun ektár 1500.

Fatus badak

Titulu Projetu

Salvaguarda Komunidade Rural no Sira-nia Patrimóniu Fíziku husi Dezastre Kauza husi Klima iha Timor-Leste

Durasaun

Marsu 2020- Marsu 2026

Benefisiáriu

175,840 benefisiáriu direta

Total Orsamentu

US\$59,443,867

Parseiru

SEA, MSA, MI-SSCP, MAF, Ministeir Obras Publiku

Projetu iha Munisípiu

Liquica, Aileu, Ermera, Baucau, Lautem no Viqueque.

Finansia husi



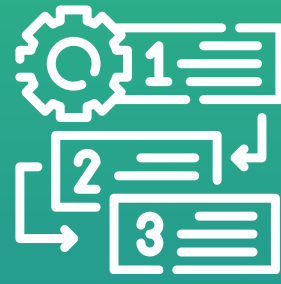
Aliñamentu ODS



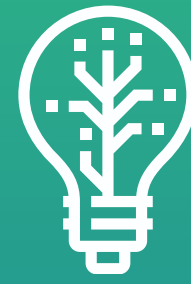
Dezafiu Prinsipál Dezenvolvimentu



Polítika, padraun no regulamentu la kompletu ne'ebé limita implementasaun infraestrutura.



Kapasidade fraka husi instituisaun nível munisipál no suku sira hodi planu, implementa, no mantein rede infraestrutura rural.



Kapasidade tékniku limitadu atu projeta medidada protesaun kontra alterasaun klimátika sira ba infraestrutura.



Opsaun limitada sira ba finansiamentu ba protesaun kontra alterasaun klimátika ba infraestrutura rural eskala ki'ik desentralizadu.

Rezultadu Prinsipál

Dezenvolvimentu Sistema informasaun risku klimátika



Timor nia Sistema Resposta Emerjénsia (TSRE) estabesele tiha ona.



Dezenvolve no entrega konjuntu 4 husi mapa pergiu nasonál sira kobre Timor-Leste ba inundasaun sira, rai-halai sira, erozaun, no bailoro naruk.



Estabesele tiha ona Laboratóriu Dadus Espasiál Infraestrutura (DEI) iha departamentu Autoridade Protesaun Sivíl husi Sekretártiu Estadu ba Protesaun Sivíl



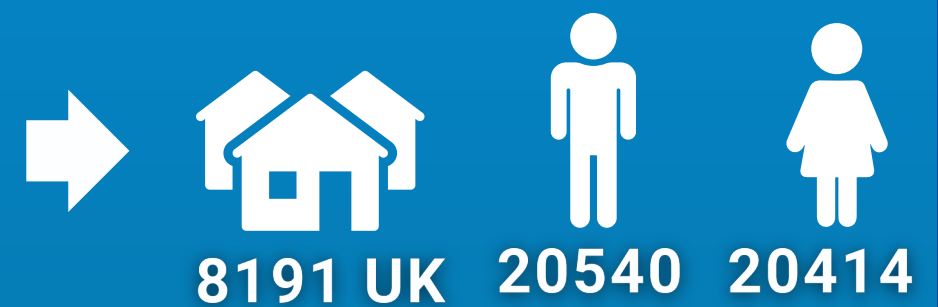
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Funsióriu governu simu ona formasaun iha protesaun kontra alterasaun klimátika no dezastre husi infraestrutura eskala ki'ik, jestaun basia idrográfika, dreno, mapeamentu perigu, no enjeñaria.

Redusaun risku klimátiku & medida provasaun ba infraestrutura rural eskala ki'ik

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Benefisiariu direta

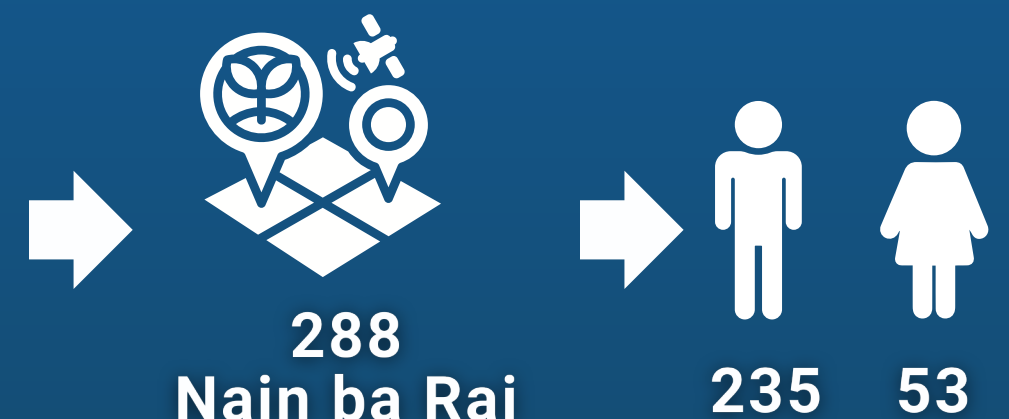


Kapasitasaun

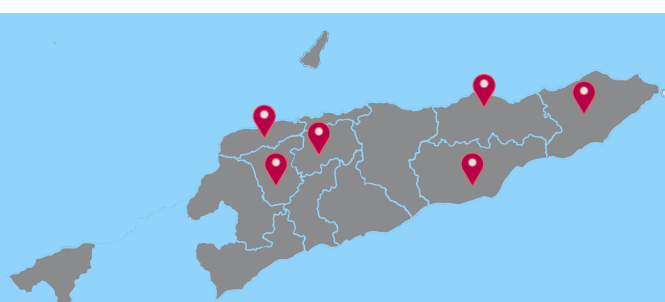
Apoiu jestaun basia idrográfika no rehabilitasaun

Type of catchment Management Intervention	Total	GCF Target	Achievements till 2023	Co-financing Target	Achievements till 2023
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Terjetu Benefisiariu



Mapa Projetu



Lian



"Ami kuda ai-huun sira ne'ebé fornese ba ami iha ha'u-nia rai ektare 0.74 hodi proteje ami-nia estrada foun husi rai-monu. Ai-huun sira-ne'e sei fó benefísiu ba ami no mós ba ami-nia bei-oan sira iha futuru. Ha'u mós kontente tanba estrada foun ne'e permite fasil liu atu asesu ba merkadu lokál."

Maria Yasinta Naibou - Benefisiaria-Nain ba Rai



"Ami-nia kanál irrigasaun harii ona ho liman dezde tempu Indonesia. Bainhira udan no volume bee aas, kanál sira-ne'e nakfera no bee suli iha fatin hotu. Kanál sira-ne'e agora dadaun hadi'a hela hanesan parte ida husi projetu irrigasaun UNDP nian. Hein katak uma-kain 500 sei hetan benefísiu husi irrigasaun ne'e."

Edvijes da Costa Gusmão - Xefe Aldeia Bahadatu