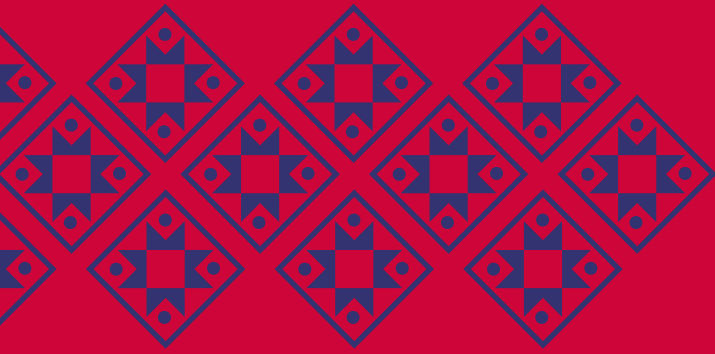




**GCF**  
task force



Collaboration Pitchbook

# Central Kalimantan

Sustainable Peatland Management &  
Municipal Waste



# Overview

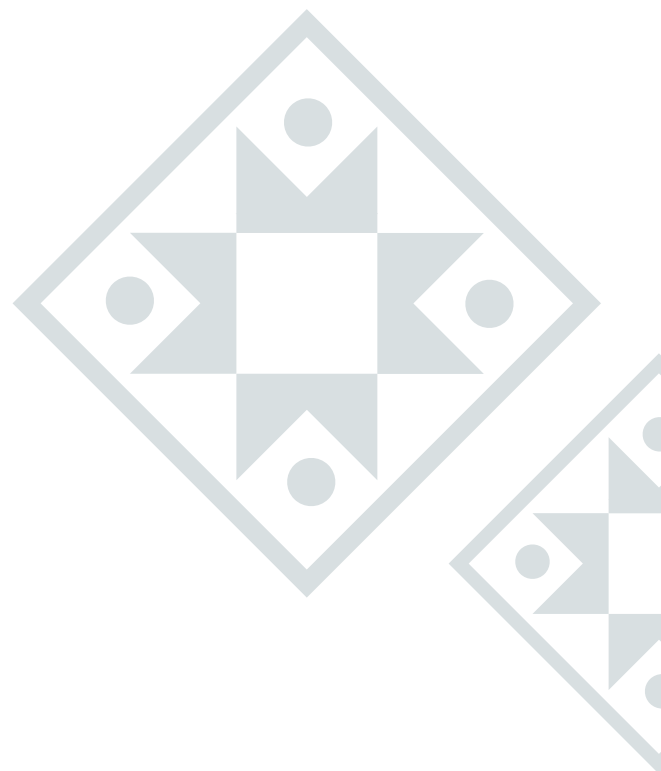
In order to advance the climate & nature agenda globally, private and public collaboration at scale is needed. The present Jurisdictional Collaborational pitchbook is the result of a collaborative effort from the provincial government of Central Kalimantan, the Governor's Climate and Forests Task Force (GCF-TF) and CDP. The document represents an initial step to present a consolidated set of target initiatives that are key to advance Central Kalimantan's jurisdictional strategy. The initiatives are aimed to support local sustainable alternative livelihoods, biodiversity, climate change, and sustainable landscape/seascapes.

Each province in Indonesia, is unique in its context, strengths, and challenges on the journey for sustainability. The methodology to develop this pitchbook included the information disclosed from the Central Kalimantan province through the 2023 CDP States and Regions questionnaire, a focus group discussion at the provincial level involving relevant local stakeholders to collect and validate the information, expert interviews, and desk research.

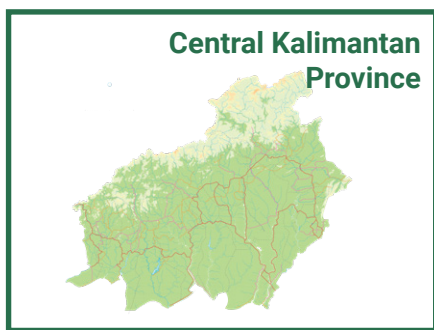
It is expected that this pitchbook will incentivize and focus investors and donors from private sector, financial institutions, development partners and any other funders to support nature initiatives that contribute to Central Kalimantan's jurisdictional vision of sustainability. Additional significant initiatives for the province that are not presented in this pitchbook might be equally relevant to support, so we welcome and encourage partners and investors to get in touch.

**Funding and collaboration is welcome and needed for the future we all want!**

**Key words:** innovative finance, place based actions, collective goals, transparency, landscape approaches, jurisdictional approaches, nature at scale.



# Foreword



Sustainable peatland management is a key focus in various initiatives and programs underway in Central Kalimantan. Due to its vast peatland area, Central Kalimantan also has high risk of forest and land fire. Thus, district governments in the province have prepared Forest and Land Fire Contingency Plans for 2023-2027 together with the Central Kalimantan Regional Disaster Management Agency (BPBD). In addition, the regional Environment Agency has a Peat Ecosystem Protection and Management Plan (RPPEG), as well as a Climate Village Program (ProKlim). This Climate Village Program is registered in the National Registry System (SRN).

To encourage sustainable economy and resource utilization, Central Kalimantan launched the Purun Business Incubation Program in Tumbang Nusa Village and surrounding areas. The province identified the potential of the Purun commodity, which is a Non-Timber Forest Product (NTFP) that grows across the the region. Through responsible

utilization of peatland resources, the program aims to maximize economic opportunities from NTFPs. In addition to strengthening the local economy, the program also empowers communities to address the risks and challenges posed by climate change.

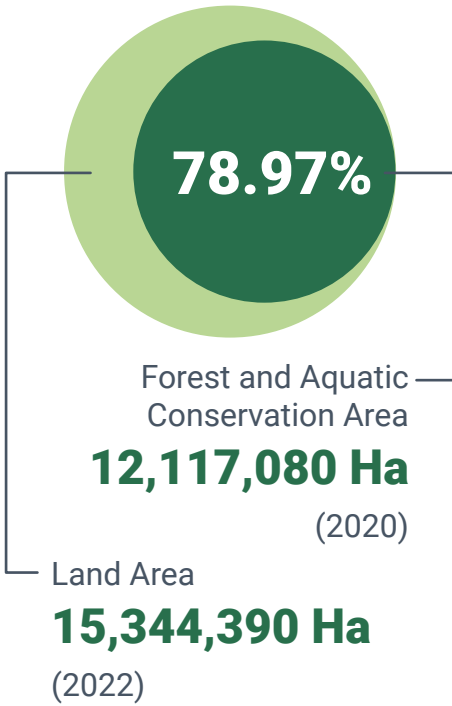
Optimizing waste management in 3R temporary disposal sites (TPS) also plays an important role in environmental management in Central Kalimantan by encouraging the use of recycled products in everyday life. Central Kalimantan applies the principles of Reduction, Reuse, and Reutilization (3R) as a guide to help manage its TPS. The successful implementation of this program depends on the cooperation of all stakeholders, who need to collaborate in building capacity and providing the necessary infrastructure and facilities.

## List of Initiatives


1. Sustainable Peatland Management
2. Mapping of Plantation in Peatland Area
3. Incubation of Purun Business
4. 3R Waste Management in Palangka Raya City



# Central Kalimantan Province in Figures




Peat Hydrological Unit (PHU)  
**4,675,105 Ha**  
(2017)




Number of PHU	35
City boundary	769,751
Cross city boundary	3,829,367
Cross province boundary	75,988

Existing Mangrove Area  
**46,015 Ha**  
(2021)



Sparse Mangrove (Ha)	783
Medium Mangrove (Ha)	13,823
Dense Mangrove (Ha)	31,409

Potential Mangrove Area  
**15,869 Ha**  
(2021)



Opened area (Ha)	3,585
Mangrove Abrasion (Ha)	357
Pond (Ha)	11,197
Soil arises (Ha)	730

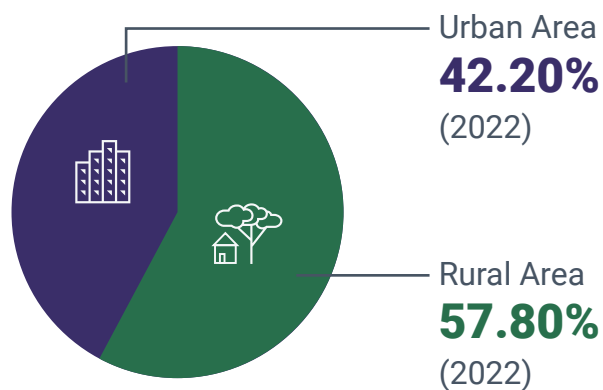
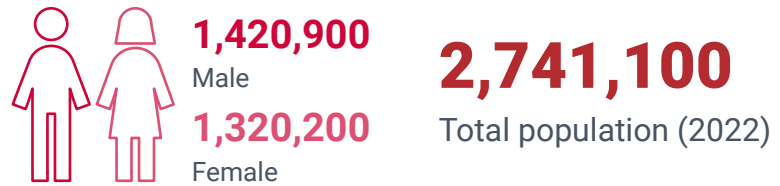
## Forest Protection Enablers

Forest governance & policy	✓
Forest risk assessment	🔄
Forest protection target	✓
Landscape or jurisdictional approaches (LA/JA)	✓
Collective monitoring	✓




## Climate Action Enablers

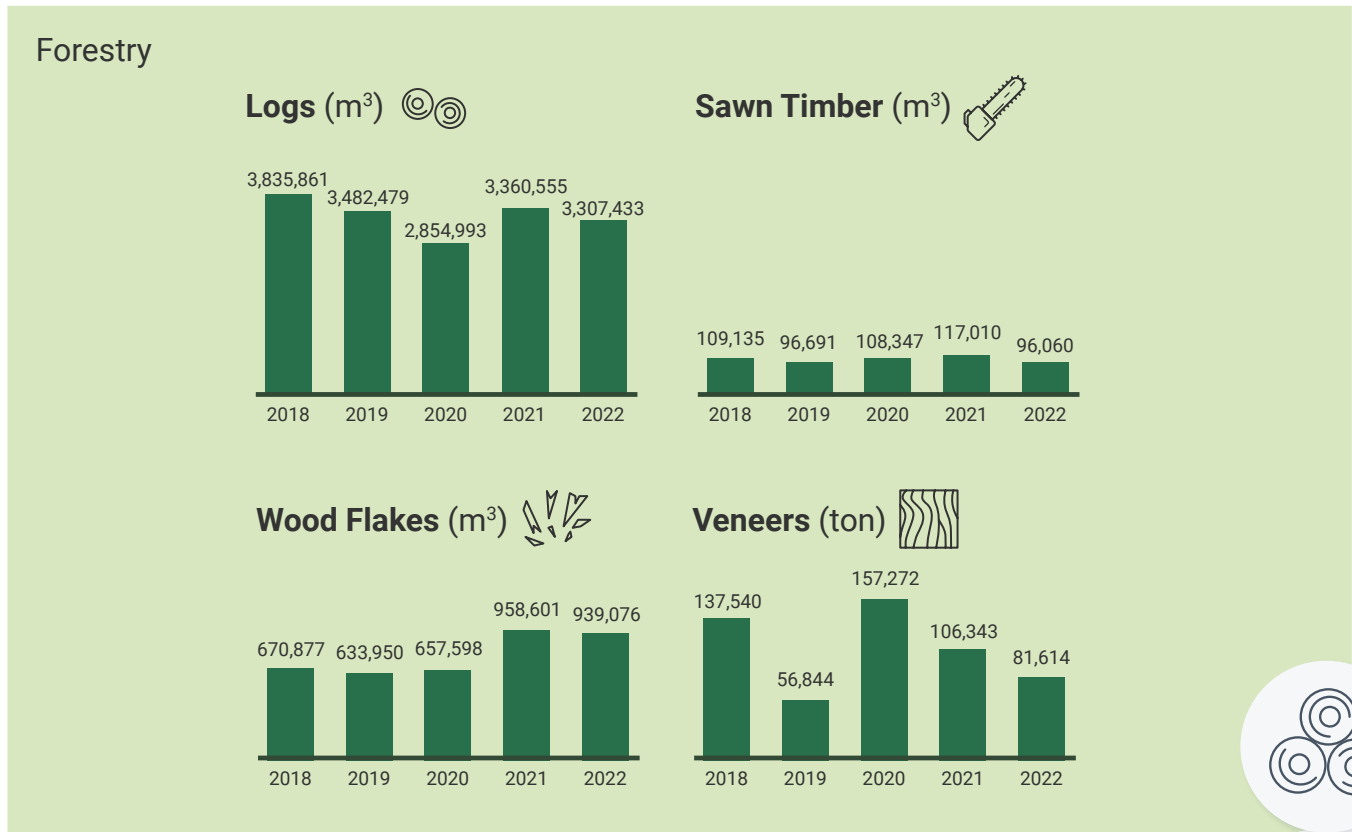
Climate governance & policy	✓
Climate risk and vulnerability assessments (CRVA)	✓
GHG inventory	✓
Mitigation target	✓
Adaptation target	✗
Climate action plan	✓
Multi-stakeholder engagement	✓

## Demographic Data



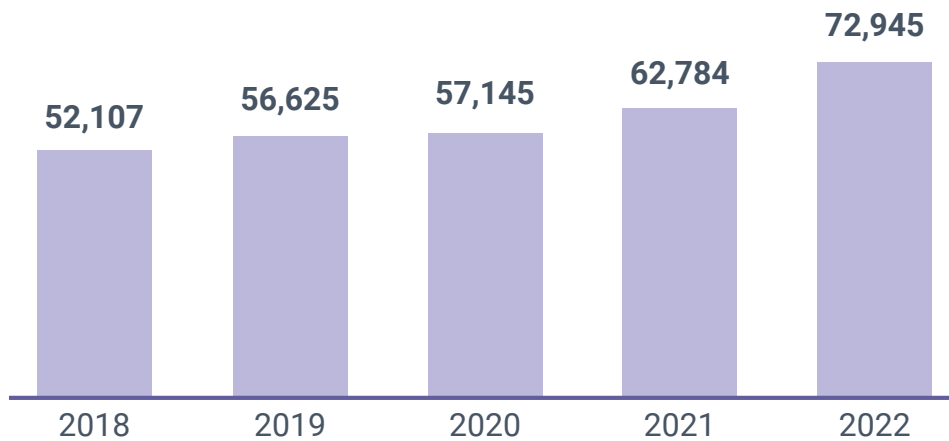
# Key Commodities

<p>Food Crops (2021)</p> <p>Rice</p> <p><b>381,189</b> tons</p> 	<p>Plantation (2022)</p> <p>Palm Oil</p> <p><b>6,506,724</b> tons</p> 	<p>Fisheries (2021)</p> <p>Capture fisheries</p> <p><b>151,510</b> tons</p> 
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# Regional Gross Domestic Product

\*in billion rupiah



References:

1. BPS. 2023. Central Kalimantan in Figures
2. MoEF. 2017. National Peat Hydrological Unit (scale of 1:250,000)
3. MoEF. 2021. Mangrove Map of Indonesia / PMN





# Fire Management in Peatland Area

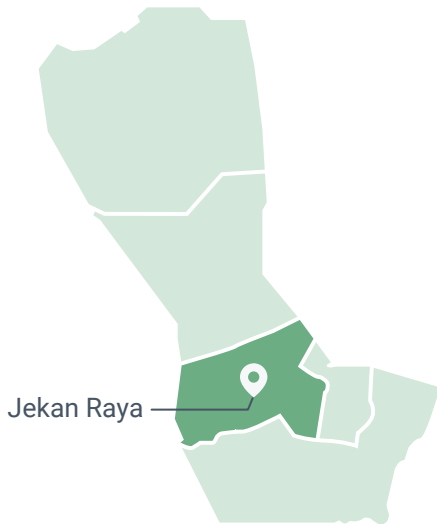
Peatland management in Central Kalimantan continues to be carried out to minimize damage in peat areas from year to year. Due to its vast peat area, Central Kalimantan has a high risk of forest and land fire incident. In 2019, fire affected 2.6 million people living in the province as well as people in the neighboring Kalimantan provinces. The risk is associated with conversion of peatland into agricultural land, industrial forests, and plantations. Therefore, sustainable peat management is one of Central Kalimantan's priority programs, this is reflected by the issuance of Governor Regulation No.1/2020 on the establishment of Fire Care Communities (MPA) as a collaborative and participatory approach in peat fire control. This regulation aims to build capacity, provide assistance, and a strategic approach to using peatlands sustainably. Protecting


and restoring peatlands is essential in the transition to a net-zero society and to address climate change.


There are various new initiatives related to peatland management, such as the Regional Mangrove Working Group (KMMD), Regional Peatland Restoration Team, Social Forestry Team, Watershed Management Forum, and Certificate of Disaster Responsibility. Collaboration with various partners such as Kalimantan Forest Initiative - UNDP, WWF, USAID SEGAR, and USAID LESTARI is also carried out to implement various programs and initiatives that focus on peatland conservation. All these efforts aim to manage peatlands sustainably, protect unique peat ecosystems, and maintain environmental balance in Central Kalimantan.



## Initiative Information



 Location: Jekan Raya Subdistrict, Palangka Raya (4 Villages in Jekan Raya subdistricts in Palangka Raya: Menteng, Bukit Tunggul, Palangka, and Petuk Katimpun)

 Area: 38,754 hectares, approximately 13.16 percent of the total area of Palangka Raya City

 Initiative period: 5 years

 Status: Preparation phase

## Collective Social and Environmental Goals

- ▼ Lower risk of peat fire incidents
- ▼ Increase capacity of MPA in the 4 villages

## Initiative Management

The activity will be led by Regional Environmental Agency (DLH), in collaboration with community in 4 villages.

## Collaboration Opportunities

- ▼ Constructing facilities and infrastructure for peat fire preparedness.
- ▼ Enhancing the institutional and technical capacity of Community-Based Firefighters (MPA) in carrying out peat fire prevention and mitigation, as well as calculating the carbon emissions that can be prevented from being released in the absence of peat fires.

## Relevant International/National/Regional Targets

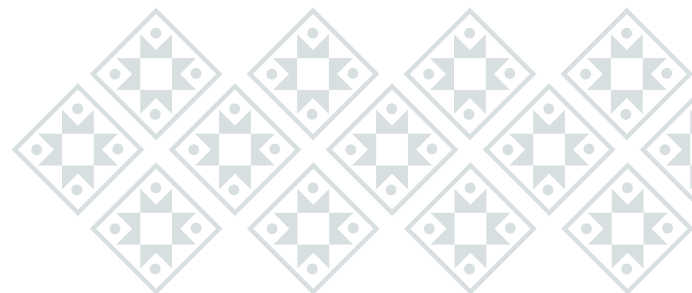
- ▼ Regional Medium-Term Development Plan (RPJMD) Central Kalimantan 2021-2026
- ▼ Regional Long-Term Development Plan (RPJPD) Central Kalimantan 2006-2025

## Related Sustainable Development Goals (SDGs)



## Cost and Funding

The initiative is estimated to cost around USD 670,000 for over 5 years period. Government is allocating a total budget of USD 330,000.





# Mapping of Plantation in Peatland Area

In 2020, Central Kalimantan, with support from the GCF Task Force, have started mapping the distribution of plantation area for their five main commodities, i.e.: palm oil, cacao, coconut, rubber, and coffee. The data was then used to update Central Kalimantan's Spatial Plan. At the time, the mapping did not include information on ownership of the plantations, which will be the focus of the proposed initiative.

The initiative will cover seven districts, namely Palangka Raya, Pulang Pisau, Kapuas,



Barito Selatan, Katingan, Kotawaringin Timur and Seruyan. The land status is mostly categorized as other land use (APL) plantation, including community-owned land located within the forest area. Results of the initiative are intended to assist further efforts in improving climate-based agricultural governance, community-based management, and increase resilience and adaptation in the area.





## Initiative Information



-  Location: 7 Districts (Palangka Raya, Pulang Pisau, Kapuas, Barito Selatan, Katingan, Kotawaringin Timur, Seruyan)
-  Status: In progress

## Collective Social and Environmental Goals



### Social

- Community empowerment
- Job creation
- Increased income



### Environmental

- Peatland preservation
- Better soil management
- Reduction of environmental impacts

## Collaboration Opportunities

- Development of mapping technology and database
- Development potential for sustainable plantation management and innovations in agricultural practices.

## Initiative Management

The initiative will be coordinated by Central Kalimantan Plantation Agency, in collaboration with partners such as WWF, KEHATI, and KALEKA, who have previously been involved in similar mapping activities in Katingan and Kotawaringin Timur. Support such as funding, research

and technological resources are needed to ensure the implementation of this initiative. To monitor the progress of the initiative, regular reporting will be conducted by the Provincial Plantation Agency and partners.

## Relevant International/National/Regional Targets

- Strategic Plan of the Plantation Agency (*Dinas Perkebunan*) Central Kalimantan 2021-2026
- Indonesia's FOLU Net Sink (IFNET) 2030

## Related Sustainable Development Goals (SDGs)



## Cost and Funding

The initiative is estimated to cost around USD 130,000. Government is allocating a total budget of USD 30,000.





# Incubation of Purun Business

Purun grass (*Lepironia articulata*), is a hollowed weed commonly found in peatlands in Central Kalimantan. Its presence may increase the risk of fire. Most of the time, the grass is made into woven crafts. However, in recent years, FMU in Central Kalimantan is starting to develop organic straw from Purun.

The Purun Business Incubation Program is a promising initiative to develop potential non-timber forest products (NTFPs) in Central Kalimantan. The Purun commodity has the potential to become a significant business and resource for community groups. Over the past several years, FMU Gerbang Barito has been developing Purun in collaboration with communities through social forestry programs. Therefore, the development of Purun will be extended to other locations. The program is implemented in Tumbang Nusa Village, Pulang Pisau Regency, and is located within a forest area or other land use (APL). Currently, the program is in the planning stage, with initial work coordinated by the province's

Environmental Agency, in collaboration with FMUs. Aspects of the program are, among others in business development, product QA/QC, and market research.

The program was started as a community group effort to maximize the utilization of available NTFPs. With support from the provincial government and various stakeholders, this pilot program is expected to improve the economy of local communities.

The business incubation program aims to achieve several important objectives, including optimizing the utilization of abundant NTFPs, increasing the capacity of local community, supporting MSMEs, improving quality of local products, and increasing their market network.

The program will also contribute toward women empowerment in the area as most of the craftsman are woman and they will be the ones who work on this program.



## Initiative Information



- Location: Tumbang Nusa Village, Pulang Pisau Regency
- Area: 20,000 ha (Tumbang Nusa)
- Initiative Period: 5 years
- Status: Planning phase

## Collective Social and Environmental Goals

- ▼ Reduction of fire risk
- ▼ Improved quality of local craft products
- ▼ Improved capacity of local community in business development, especially women.
- ▼ Wider market outreach

## Initiative Management

The program is coordinated by the Central Kalimantan's Forestry Agency, and in its implementation, will involve local communities and FMUs on-site. Monitoring and evaluation of this program will be carried out by the Central Kalimantan Provincial Forestry Agency, as well as involving the person in charge of the budget. The monitoring mechanism will include human resources, funding, and the establishment of monitoring indicators that will help ensure the success and positive impact of this program.

## Collaboration Opportunities

- ▼ Capacity building in local crafts' business development
- ▼ Design and material development.
- ▼ Engagement/outreach to potential market, buyer, and/or investor

## Relevant International/National/Regional Targets

- ▼ Regional Medium-Term Development Plan (RPJMD) Central Kalimantan 2021-2026
- ▼ Strategic Plan of the Forestry Agency (*Dinas Kehutanan*) Central Kalimantan 2021-2026

## Related Sustainable Development Goals (SDGs)



## Cost and Funding

Total cost required for this program for five years is estimated at around USD 130,000. Government is allocating some budget for assistance with stakeholder engagement.





# 3R Waste Management in Palangka Raya City

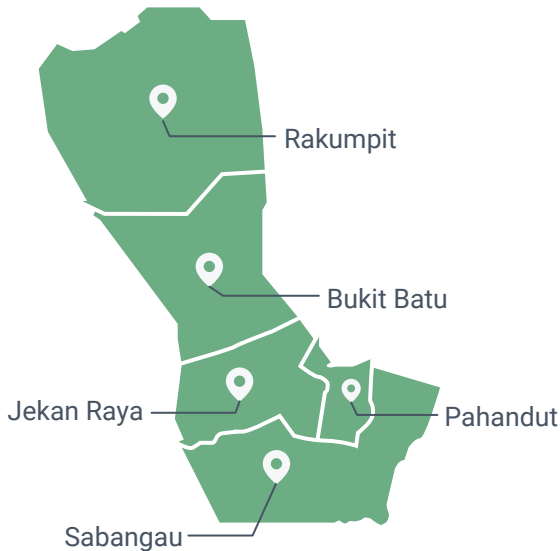
Optimizing waste management in 3R temporary disposal sites is still a challenge for many provinces in Indonesia. Optimized 3R waste management can make a great contribution in protecting land and increasing the use of recycled products in daily life.

Palangka Raya city generates around 151.91 tons/day of municipal waste, 42% of this waste is food waste and 19% is plastic

from household activities. Implementation of this program could assist in managing the non-decomposed waste and creating job opportunities. Unfortunately, capacity and resources to implement the program are still limited, thus the city requires support in capacity building and installation of relevant facilities.



## Initiative Information



- Location: Sub districts of Rakumpit, Bukit Batu, Jekan Raya, Pahandut, and Sabangau (303,825 residents)
- Area: 285,312 hectares
- Initiative period: 5 years
- Status: In progress

## Collective Social and Environmental Goals

- Waste Minimization
- Improved awareness on waste management
- Expansion of waste processing facilities

## Initiative Management

Initiative will be managed by Environmental Agency of Palangka Raya City (DLH) in collaboration with community in the targeted sub-districts. Other partners or external actors who can contribute to this initiative: Relevant local government agencies (OPD), academics, NGOs, donors.

## Collaboration Opportunities

- Capacity building in 3R
- Installation of recycling facility.

## Relevant International/National/Regional Targets

- Palangka Raya City Regional Regulation No. 1/2017 on Waste Management and Sanitation;
- Regulation No. 2/2019 on the Medium-Term Regional Development Plan (RPJMD) of Palangka Raya City 2018-2023;

- Palangka Raya City Regional Regulation No. 3/2022 on the Reduction of Plastic Bag Usage;
- Mayor's Regulation No. 43/2017 on Waste Management and Environmental Sanitation
- Mayor's Regulation No. 20/2019 on the Waste Management Strategic Plan (Jakstrada)

## Related Sustainable Development Goals (SDGs)



## Cost and Funding

The initiative is estimated to cost around USD 3,300,000 for over 5 years period, this covers installment of facilities. Government is allocating a total budget of USD 350,000.



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### About GCF - Task Force

The Governors' Climate and Forests (GCF) Task Force was initiated by former California Governor Arnold Schwarzenegger on November 18, 2008. It currently stands as a formidable subnational alliance of 43 states and provinces in 11 countries. United by a common mission, the task force is dedicated to the achieving the goal of reducing deforestation, bolster sustainable economic development, and create livelihood opportunities that safeguard both forests and the communities dependent upon them. Operating at every tier of government, from Governors to dedicated civil servants, the GCF Task Force champions policy innovation in forest conservation and low-emissions development.

Integral to their impact is a comprehensive network that bridges individuals with processes, advocating for good environmental governance, green financing, and the protection of territorial rights, Indigenous Peoples, and local communities. The task force's commitment extends to forging partnerships across public and private sectors, engaging stakeholders from business leaders to Indigenous Peoples, with a focus on establishing effective pathways and strategies for subnational, national, and international action.

Find out more at [www.gcftf.org](http://www.gcftf.org)

### About CDP

CDP is a global non-profit that runs the world's environmental disclosure system for companies, cities, states and regions. Founded in 2000 and working with more than 740 financial institutions with over \$136 trillion in assets, CDP pioneered using capital markets and corporate procurement to motivate companies to disclose their environmental impacts, and to reduce greenhouse gas emissions, safeguard water resources and protect forests. Over 24,000 organizations around the world disclosed data through CDP in 2023, with more than 23,000 companies – including listed companies worth two thirds global market capitalization - and over 1,100 cities, states and regions. Fully TCFD aligned, CDP holds the largest environmental database in the world, and CDP scores are widely used to drive investment and procurement decisions towards a zero carbon, sustainable and resilient economy. CDP is a founding member of the Science Based Targets initiative, We Mean Business Coalition, The Investor Agenda and the Net Zero Asset Managers initiative. Visit [cdp.net](http://cdp.net) or follow us @CDP to find out more.

