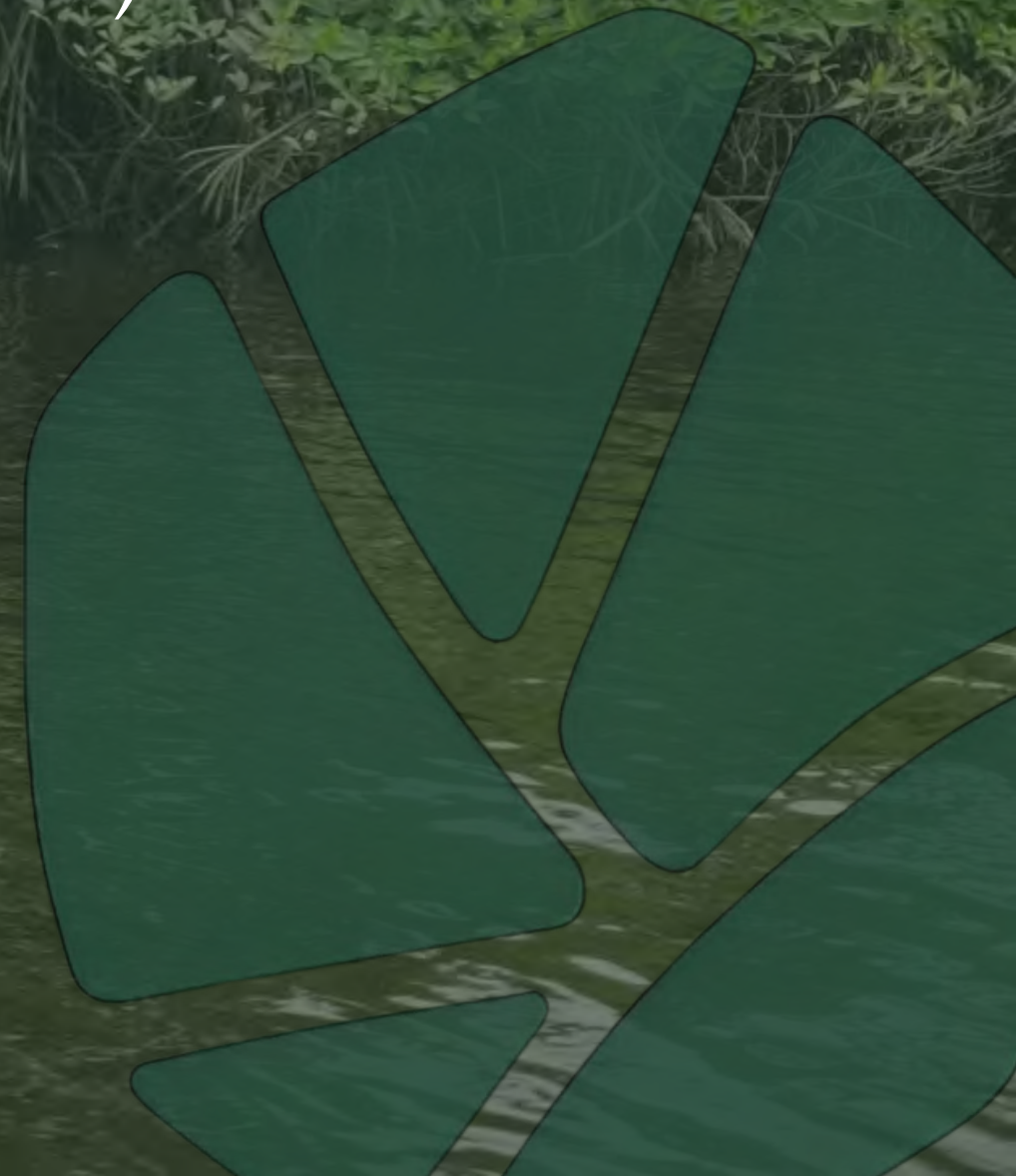


Riau Coastal, Peatland & Mangrove (RCPM) Conservation Project

Riau, Sumatra, Indonesia

2025



The Riau Coastal Peatland & Mangrove Conservation Project

- The Riau Coastal, Peatland & Mangrove Conservation Project (RCPM) is a 30-year initiative aiming to conserve and restore 21,099 hectares of mangrove and peatland ecosystems in Indonesia's Riau coastline
- Expected to generate over 1.358 million annual carbon credits on average, the project combines ecological protection, climate change mitigation, and community engagement for long-term environmental and social benefits
- The project aims for Climate mitigation, Biodiversity, Coastal resilience and Sustainable livelihoods of communities
- The project will be executed in three phases



RCPM Will Solve a Major Issue

- The RCPM project area is prone to slash-and-burn activities deriving from illegal logging



Harvard John A. Paulson
School of Engineering
and Applied Sciences

NEWS

Smoke from 2015 Indonesian fires may have caused 100,000 premature deaths

Research quantifies effects of fires in Equatorial Asia, offers new approach to inform fire management efforts

By [Leah Burrows](#) | [Press contact](#)
September 19, 2016

The Haze Problem

- In 2015, a protracted haze episode lasting nine weeks cost Singapore between SGD700 million and SGD1.83 billion. The World Bank estimated that the 2015 haze cost Indonesia US\$16 billion; a more recent haze event in 2019 cost the country USD5.2 billion¹

Peatland fires in Sumatra result in

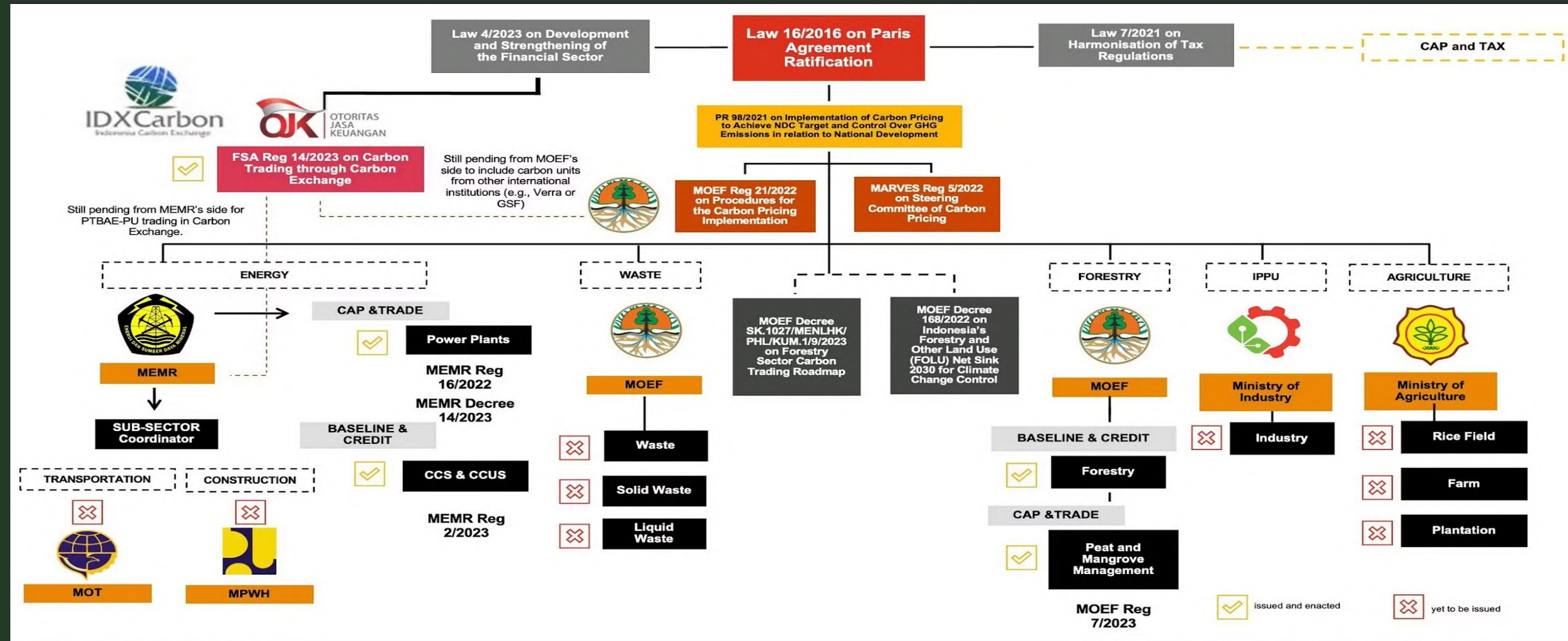
**Economic loss due to
closures and shutdowns**

**Biodiversity loss, increase
in GHG emissions, altering
water regime, soil
degradation, erosion**

**Severe and far-reaching
health impacts -
cardiovascular diseases,
COPD, cancer risk**

Source1: Transboundary haze in Southeast Asia: What's peat got to do with it?

Indonesia's Regulatory Framework Overview



- Carbon credits based on forestry and land-use will be available from March, 2025.
- Plans to raise \$65 billion by 2028 from selling carbon credits accrued from restoring and protecting its forests and peatlands
- Target between 500,000 and 750,000 tons of CO₂e by end of 2025.
- SRN the regulatory arm for listing carbon projects, but methodologies to be drawn from Verra, creating a streamlined carbon development pathway.

PROJECT OVERVIEW



Environmental & Community Challenges

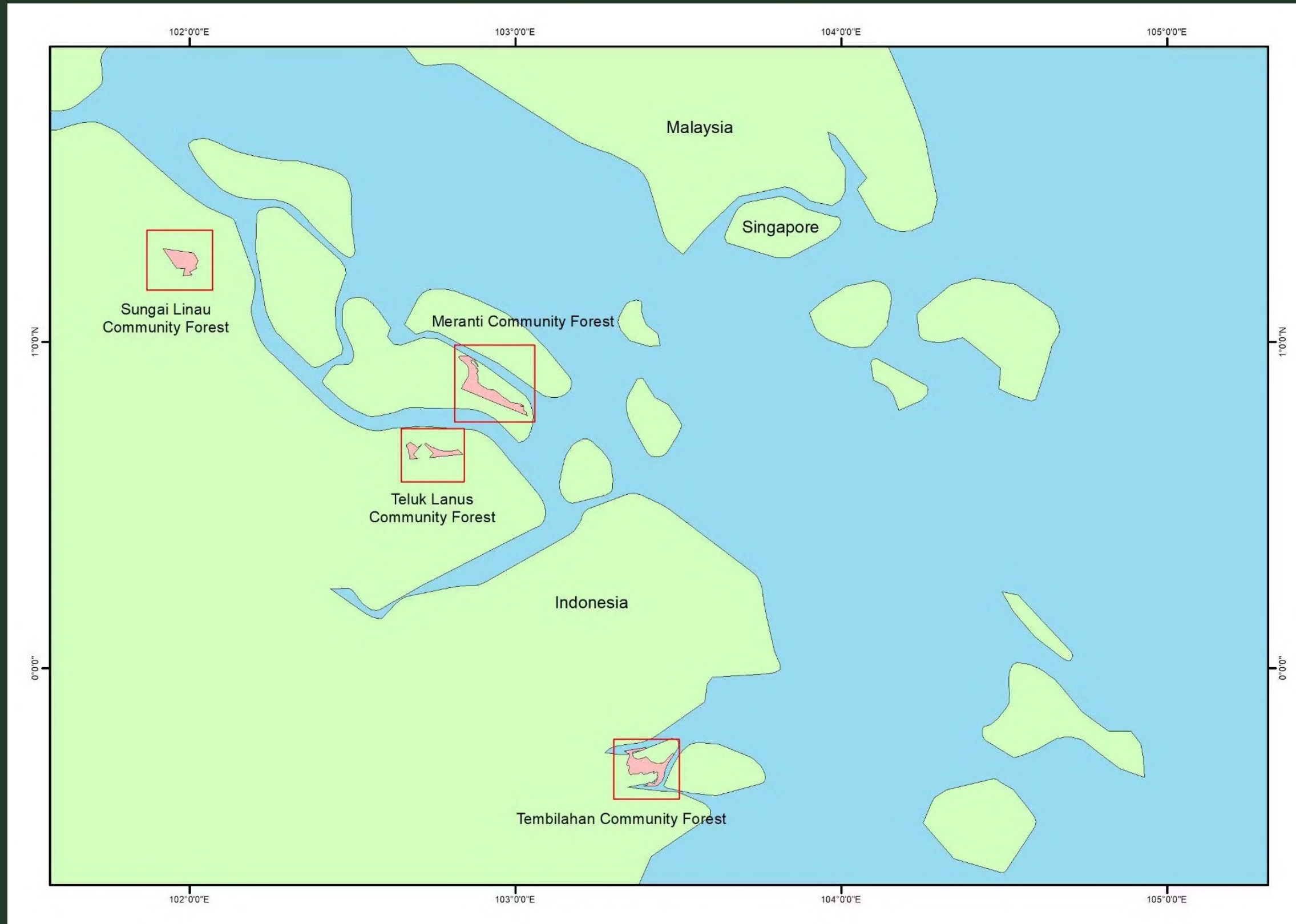
- Mangrove degradation due to excessive logging for charcoal and nypa sticks and conversion to coconut, areca nut & oil palm plantations
- Peatland degradation due to draining for plantation and aquaculture
- Communities lacking access to safe drinking water, sanitation
- Malnourishment leading to stunted growth
- Lack of employment and livelihood options



The Project is Divided in 4 Distinct Areas

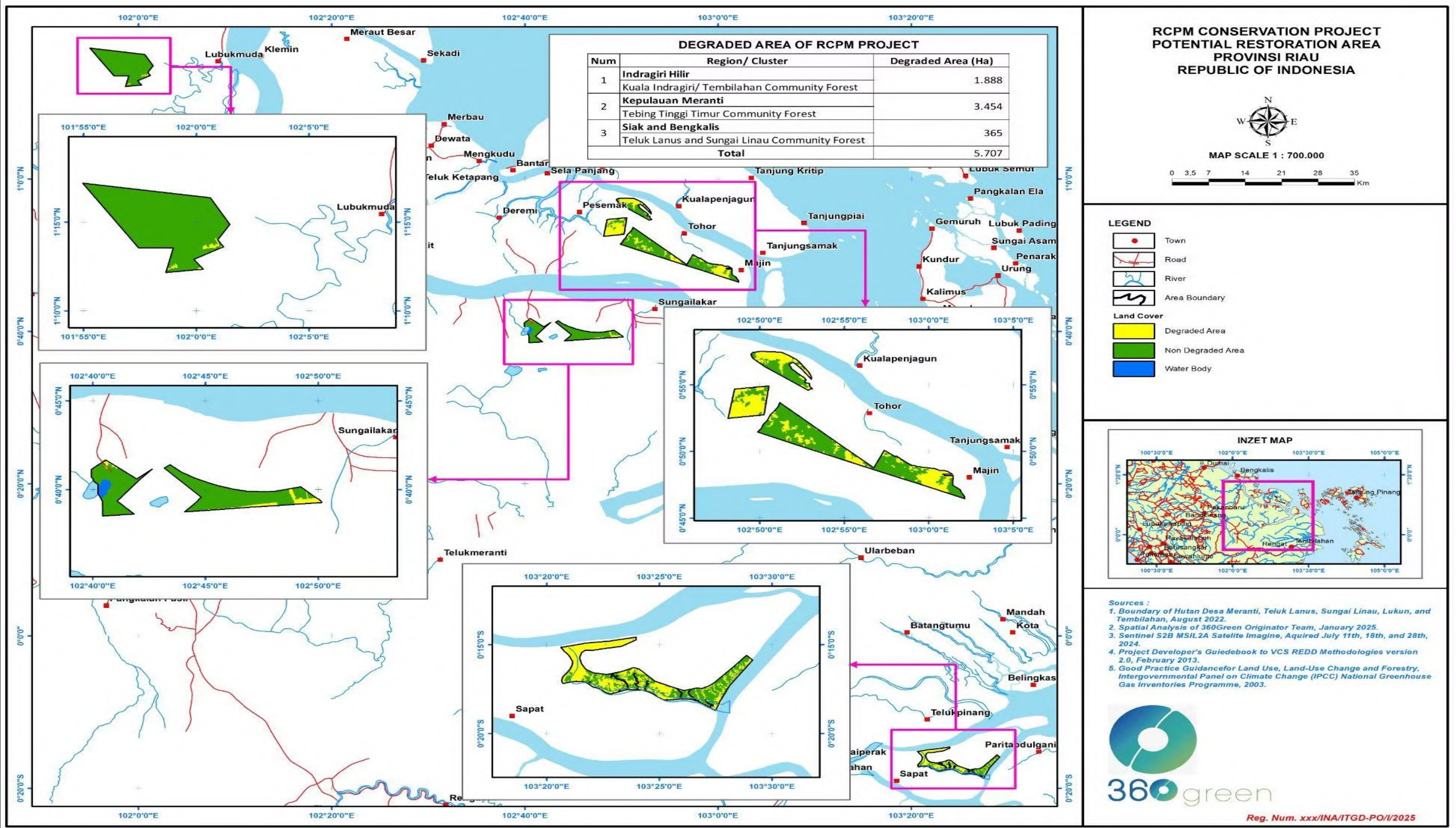
	Area	Type	Size (Hectares)
1.	Tembilahan Community Forest	Mangrove	3,080
2.	Meranti Community Forest	Peatland	8,678
3.	Sungai Linau Community Forest	Peatland	5,863
4.	Teluk Lanus Community Forest	Peatland	3,478
			21,099

Overview of Project Areas



Project located amongst 3 countries consists of Singapore, Malaysia and Indonesia. Malacca strait is the most important migratory habitat, economic and transportation line in the SEA region

Overview of Project Areas



Endangered Fauna in RCPM



Rusa Timorensis: VU



Scleropages Formosus: EN



Orcaella brevirostris: EN



Helarctos Malayanus: VU



Tapirus indicus: EN



Panthera tigris sumatrae: CR



Rhyticeros undulatus : VU

Carbon Tide Proposes VM0033 as the Project Methodology



VM0033 - Methodology for Tidal Wetland and Seagrass Restoration, v2.1
SRN Indonesia Registry Methodology (SRN-PPI)
CCB Standards V3.1CCB

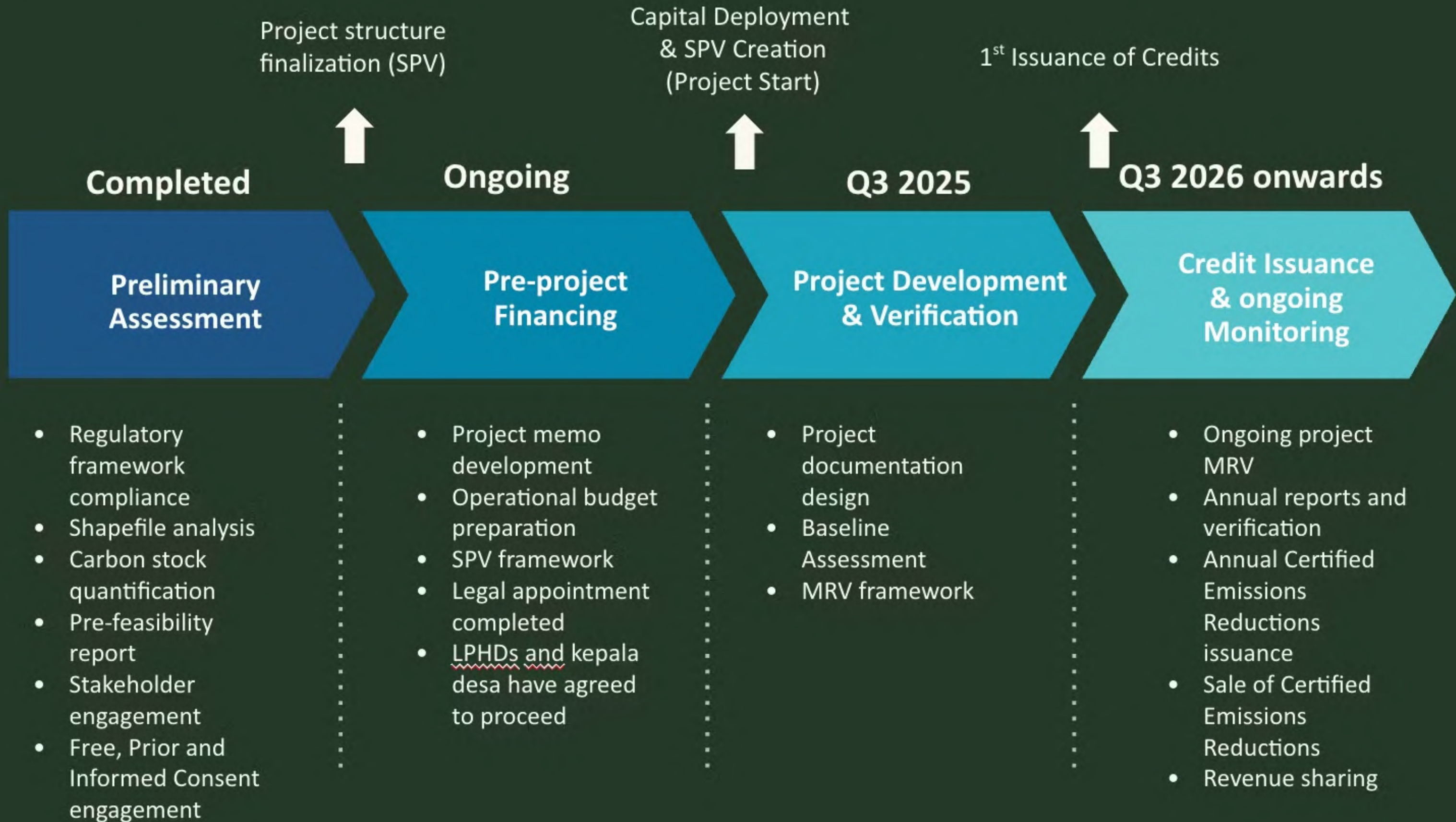
With RCPM we aim to achieve:

- Approximately 21,000 hectares of peatlands and mangroves to be rewetted, conserved and restored
- Over 40 million carbon credits (1.35 million credits annually over 30 years)
- Impact the livelihoods of over 4,000 households in the project area

THE IMPACT



Progress Has Already Started



Positive Environmental Impact

- Tembilahan (Mangrove)

Conservation = 88,075.00 tCO₂e/Year

Restoration (Removal Credit) = 77,293.38 tCO₂e/Year

- Meranti (Peatland 1)

Conservation = 350,159.18 tCO₂e/Year

Restoration (Removal Credit) = 328,680.75 tCO₂e/Year

- Siak Bengkalis (Peatland 2)

Conservation = 550,980.19 tCO₂e/Year

Restoration (Removal Credit) = 34,806.48 tCO₂e/Year

Total 8.5 million trees planted in the project area



Estimated 1,358,495 tCO₂e/year

Positive Impact Goals for Communities



Food Security

Provisioning of the basic needs of the local community on food security and health to reduce expense on health and food



Upskilling

Create a work skill improvement program to increase the employability of community



Poverty-alleviation

Addressing poverty through livelihood and employment creation



Infrastructure

Support development of the local infrastructure to reduce expense of community and improve quality of life

United Nations Sustainable Development Goals for RCPM



2,100 of households are ensured food security and increased nutrition



Women in senior positions within project SPV



20 spots with access to safe drinking water & adequate sanitation



>30 million tCO2e to be sequestered/avoided in 30 years



> 3000 ha of mangroves conserved and restored/enriched. 4.7 million mangrove trees replanted



18,019 hectares in peatland restoration and rehabilitation. 3.8 mil trees replanted

Timeline

United Nations Sustainable Development Goals for RCPM



Accelerated Project Co-Benefits Initiative

- The accelerated project co-benefits initiative aims to promote solutions for immediate and broader impact enhancement



**Kitchen gardens for
food security and
nutrition**



**Access to safe
drinking water
through water-
purifiers and rain-
water harvesting**



**Livelihood generation
through
establishment of
biochar production
(covered by 360green)**

PROJECT FINANCIAL OVERVIEW



Project Budget Overview

No.	Component	USD	Percentage of Overall Budget
A.	Legal & Compliance	\$325,984.93	5.32%
B.	Project Development (Verra Onboarding)	\$79,456.98	1.30%
C.	Project Development (CCB)	\$82,456.98	1.35%
D.	Project Development (Ground Operations)	\$3,133,106.89	51.18%
E.	Project SPV Operational Overheads	\$919,093.19	15.01%
F.	Project Expenses Incurred till Date	\$76,775.01	1.25%
G.	Overhead & Admin	\$183,303.75	2.99%
H.	Project Management Cost	\$49,000.99	0.80%
I.	Contingency Budget (10%)	\$484,917.88	7.92%
J.	Financing Cost (3%)	\$160,022.90	2.61%
K.	Insurance (3 Years)	\$628,000.00	10.26%

Tangible Benefits for Investors



RCPM'S Estimates Benchmarked With Similar Projects

Project	Project ID	Project Name	Project Inception Date	Hectares	VCU/ha/Year	Estimated Annual Emission Reductions
A	1477	Katingan Peatland Restoration and Conservation Project	06/04/2020	14,980	497.45	7,451,846
B	1493	Mangrove Restoration and Coastal Greenbelt Protection in the East Coast of Aceh and North Sumatra Province, Indonesia	06/04/2020	1,000	124.71	124,706
C	1498	Preserving Peat Swamp Forest Ecosystem Through REDD+ Activity In Kampar Peninsula Riau-Indonesia	Under Validation	14,723	110.37	1,624,961
RCPM		Riau Coastal Peatland Mangrove Conservation Project		21,099	64.39	1,358,495
D	1899	Sumatra Merang Peatland Project (SMPP)	01/04/2020	22,922	58.40	1,338,569
E	2403	Riau Ecosystem Restoration Carbon Project	20/10/2021	130,090	52.81	6,870,411
F	674	Rimba Raya Biodiversity Reserve Project	06/04/2020	91,215	38.67	3,527,171

TEAM, STRUCTURE & GOVERNANCE

PEMERINTAH DESA SUNGAI TOHOR
KECAMATAN TEBINGTINGGI TIMUR
SANGGAR SENI
LINAU KUNING
ALAMAT: JL. ABDUL JALIL RT. 04 / RW. 02 DUSUN PARIH PUSAT

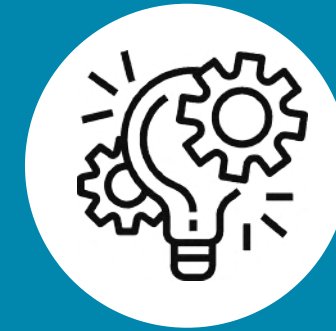
Carbon Tide's 4 Pillars of Governance



**Community-impact
Oriented**



**Transparency &
Accountability**



**Mitigating &
Managing
Risks**



**Measurement,
Reporting &
Verification &
Market
Compliance**

SPV Stakeholders & Partners



Carbon Tide is responsible for overseeing the development of the Riau Meranti forest carbon project and securing the funding necessary for the project execution.



ARMA Law is our Indonesian legal partner. ARMA has advised many forest carbon projects in Indonesia and is well advised on the regulations and compliance requirements in Indonesia.



PT Green Bomas Indonesia establish at 2023 as Joint Venture Company between Aavish and 360green Singapore worked in the Carbon Development Consultancy



PT GEOGREEN AERO SOLUSI Is the local company established in Riau focusing on the helping community in developing carbon project. on this collaboration the Geogreen will oversee the day to day project operation to ensure the forest protection meets the conservation target.

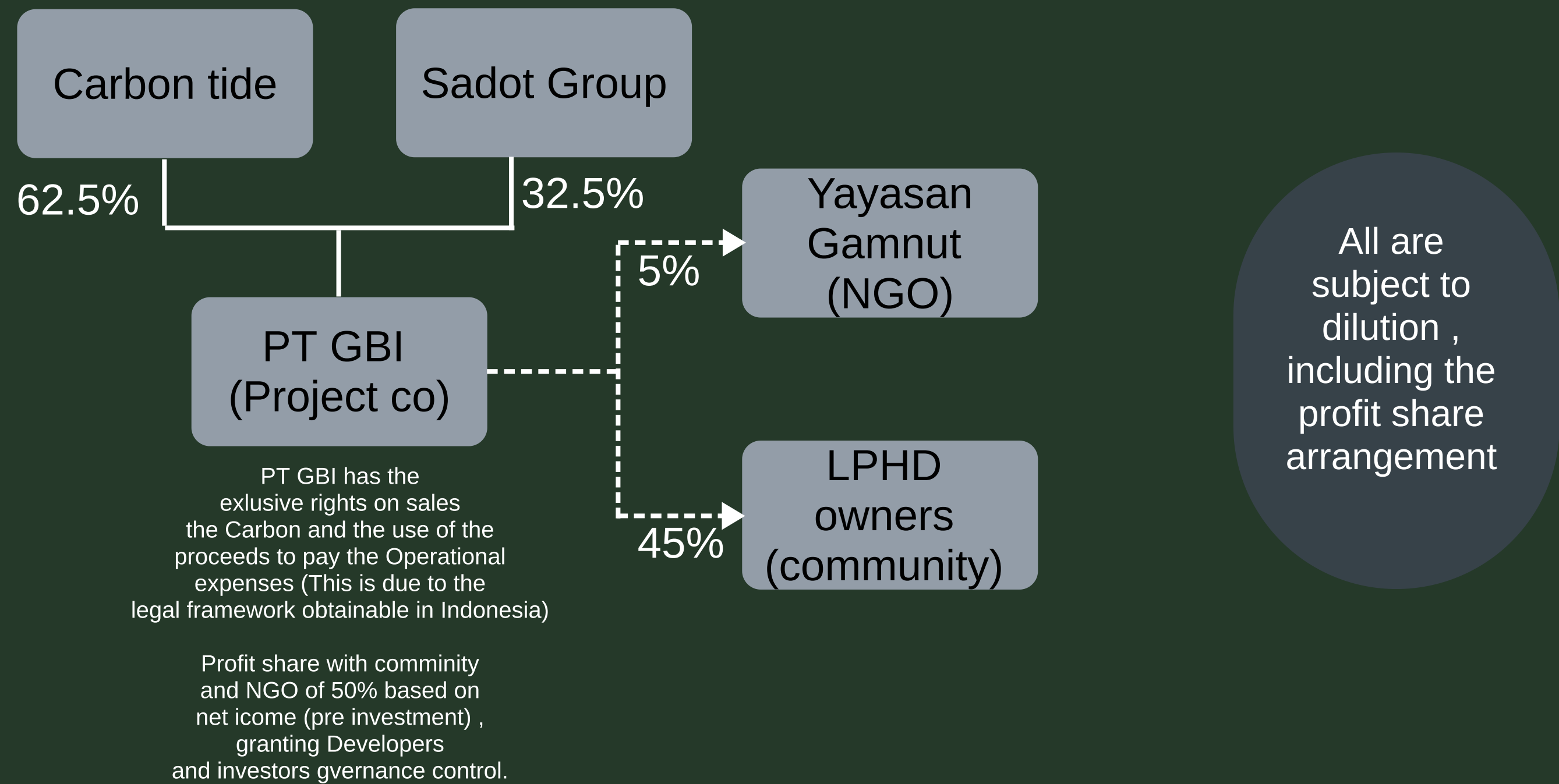


The Peat Foundation or Yayasan Gambut is a Non-Governmental Organization that has been concerned with the peatland and swampy area operated in Riau Province since the year of 2000s.



Social forestry license (LPHD) provides an opportunity for forest village communities to improve their welfare. By granting licenses of 35 years or more, these communities can manage existing resources and maximize benefit sharing

SPV Structure



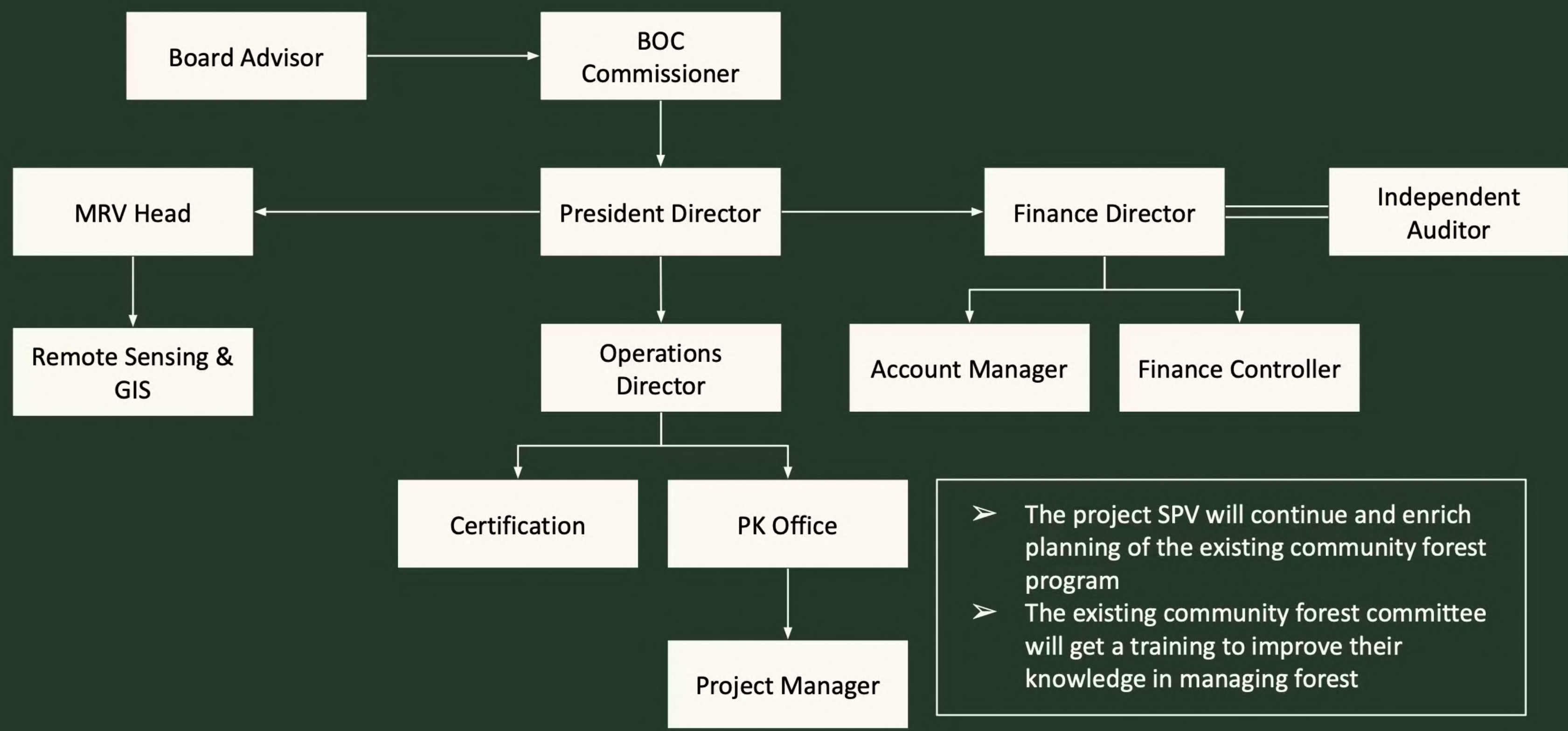
The Investment

Based on 20% net profit rights on carbon sales over project lifecycle

Period	2025-2026	2027-2029	2030-2034	2035-2039	2040-2044	2045-2049
Total Carbon Credits	\$ -	2,617,335	5,170,503	5,404,631	5,640,382	5,880,911
Weigthed Average Est. Sales Price Per Credit	\$ -	\$ 13.15	\$ 14.81	\$ 15.47	\$ 16.19	\$ 16.96
Total Revenue from Carbon Credit Sales	\$ -	\$ 34,410,446.20	\$ 33,111,528.19	\$ 37,733,180.15	\$ 41,912,017.33	\$ 45,756,044.37
Project Development Costs	\$ 4,908,535.74	\$ 5,579,489.04	\$ 5,588,733.54	\$ 5,598,181.48	\$ 5,607,837.47	\$ 5,617,706.26
Carbon Issuance, Tax & Transaction Costs	\$ -	\$ 9,607,070.93	\$ 10,389,685.24	\$ 12,316,198.17	\$ 13,725,071.68	\$ 14,953,156.72
Net Cashflow (Investor Share)	\$ (4,908,535.74)	\$ 3,844,777.25	\$ 3,426,621.88	\$ 3,963,760.10	\$ 4,515,821.64	\$ 5,037,036.28

Investment Required	\$ 4,908,535.74
IRR	28.82%
Payback Period	5 years

SPV Operational Execution Structure



- The project SPV will continue and enrich planning of the existing community forest program
- The existing community forest committee will get a training to improve their knowledge in managing forest

Carbon Tide's Leadership Team



David Ollech
CEO

- 10 years+ in agriculture and food supply chain, driving over USD 2bn revenue. Co-founder of multiple companies with activities in agriculture, food, supply chain, carbon and management consulting. Expertise in business development, corporate finance, and strategy.



Joseph Shaw
Head of Operations

- 5+ years in operations management.
- Experienced in Fintech, blockchain and environmental sustainability.
- Involved in a pre-IPO exercise with Hong Leong Finance as the Main Sponsor.



Ron Salzberg
CIO

- Over 10 years in APAC real estate, managing USD 2 billion in equity and debt.
- Former VP at BHIP Singapore and Investment Manager at Prudential, overseeing EUR 1 billion+ fund investments.



Alexander Linton
CFO

- Seasoned entrepreneur and finance professional with 10+ years running SMEs and family investment offices in the UK and Singapore.
- Qualified Chartered Accountant (ACCA)
- EMBA Candidate (NUS-SG)

Carbon Tide's Technical Team



Tantra Wardhana
Lead Carbon Originator

- 10+ years of experience in originating carbon projects..
- Collaborated with private international banks on project syndication and a multilateral engagement



Wahyu Pramonosidi
Senior GIS Specialist

- 15+ years of experience in Geographic Information Systems, Remote Sensing and Spatial Planning.
- Previously worked on spatial planning in Liberia & Indonesia



Shinu Jose
Carbon Specialist

- 16 years experience in the carbon markets.
- Experience carbon project evaluation, consultancy and management.
- Expert on Biochar, CDR and Blue Carbon projects.



Dilveer Singh
Advisor

- Entire career spent in environmental consultancy and audit experience for various industries and the carbon markets.
- Prior experience of managing the world's largest environmental verification company in the entire Southeast Asian region.

Thank You!

Visit our website at:
carbontide.co

Or write to us at:
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