



# PROTECTING THE MAGICAL LEUSER ECOSYSTEM, INDONESIA

LEUSER CONSERVATION FORUM (FKL)

<https://leuser.or.id>



Kuwait  
United Arab Emirates  
Oman  
Yemen  
Somalia  
India  
Mumbai  
Hyderabad  
Bengaluru  
Sri Lanka  
Laccadive Sea

Myanmar (Burma)  
Laos  
Thailand  
Vietnam  
Cambodia  
Hanoi  
Ho Chi Minh City  
Bangkok  
Gulf of Thailand

Taiwan  
Luzon  
Manila  
Philippines  
Panay  
Negros  
Mindanao  
Basilan Island  
Palawan

Malaysia  
Singapore  
Kuala Lumpur  
Indonesia  
Jakarta  
Surabaya  
Java Sea

Papua New Guinea  
Jayapura  
Port Moresby  
Solomon Islands  
Bismarck Sea  
Arafura Sea

Australia  
NORTHERN TERRITORY  
QUEENSLAND  
WESTERN

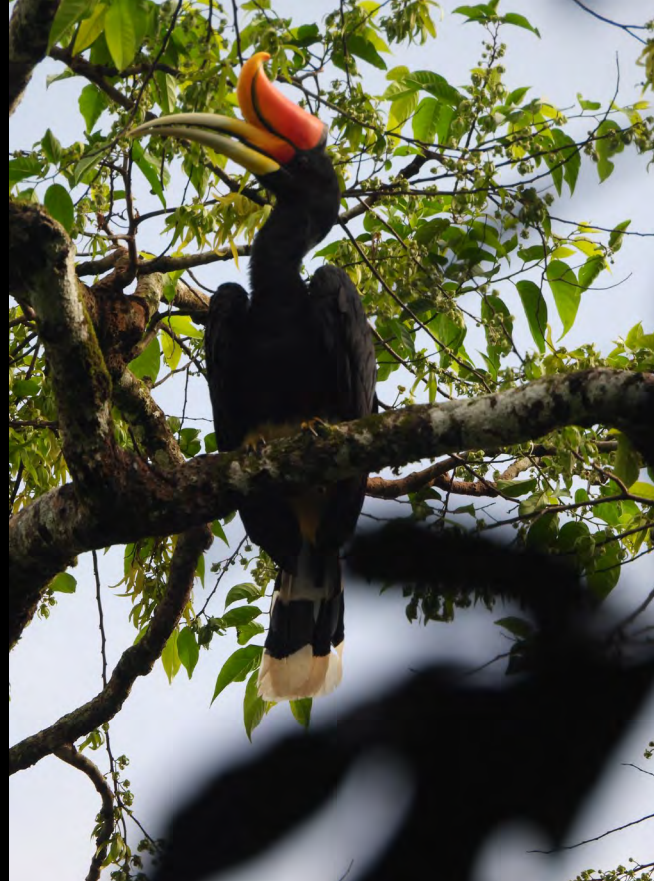




# Ecological services for 4 million people







**One of the highest biodiversity hotspots in the world**

- **382 bird species**
- **174 mammal species**
- **192 reptile species**
- **52 amphibian species**
- **> 4500 plant species**



CORE\_CAM398

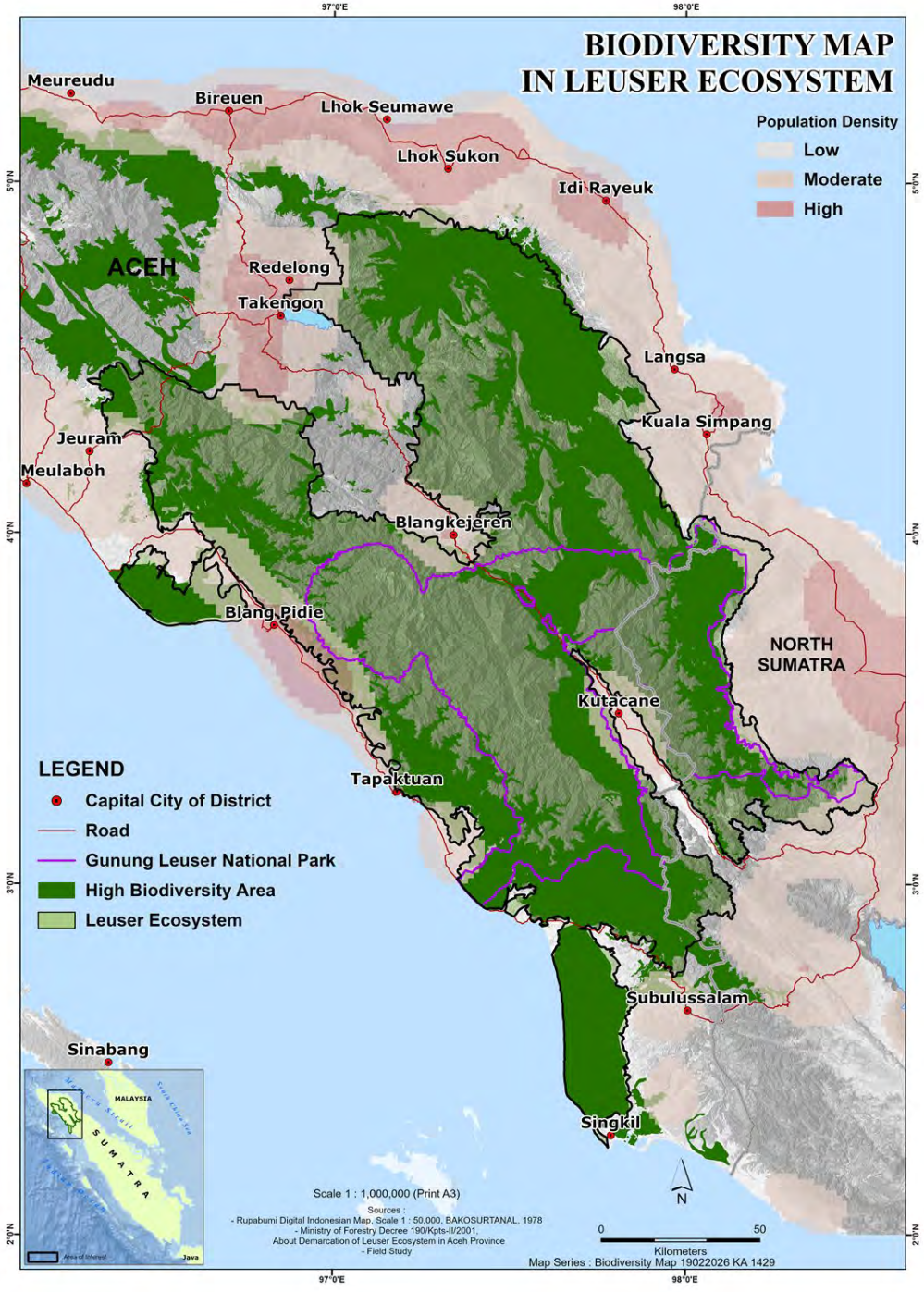
62°F 16°C



12-17-2025

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# BIODIVERSITY MAP IN LEUSER ECOSYSTEM



Population Density  
 Low  
 Moderate  
 High

**LEGEND**

- Capital City of District
- Road
- Gunung Leuser National Park
- High Biodiversity Area
- Leuser Ecosystem



Scale 1 : 1,000,000 (Print A3)

Sources  
 - Rupabumi Digital Indonesian Map, Scale 1 : 50,000, BAKOSURTANAL, 1978  
 - Ministry of Forestry Decree 190/Kpts-II/2001,  
 About Demarcation of Leuser Ecosystem in Aceh Province  
 - Field Study

0 50  
 Kilometers  
 Map Series : Biodiversity Map 19022026 KA 1429

# Deforestation





**Illegal Logging**





# Habitat fragmentation



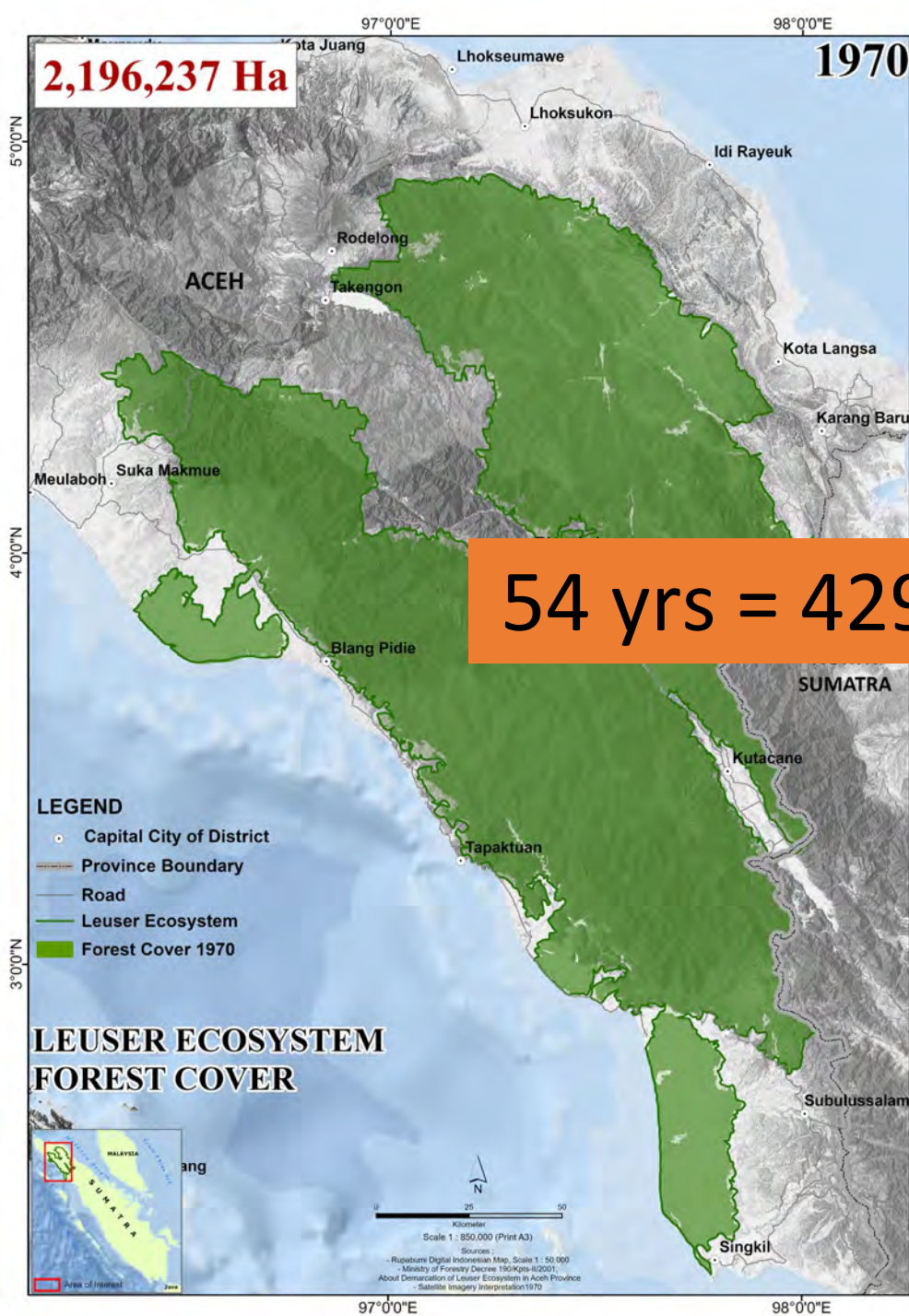
Wildlife  
poaching and  
human-wildlife  
conflict



Deforestation impacts on community







**54 yrs = 429,224 ha loss**



80% (Magical Forest)

20% (Destroyed)



# ABOUT FKL

The Leuser Conservation Forum (Forum Konservasi Leuser; FKL) is recognized as one of the leading organizations operating today to protect and restore the Leuser Ecosystem in Aceh - with the largest coverage on state forest and the largest wildlife protection teams spread across any one landscape in Indonesia.





# OUR VISION AND MISSION

## Vision

The conservation of the Leuser Ecosystem that benefits the community in a sustainable manner

## Mission

- 1. Protect the Leuser Ecosystem and the biodiversity in a sustainable and long-lasting manner.
- 2. Restore the Leuser Ecosystem.
- 3. Build synergy with the government and stakeholders to ensure the protection of the Leuser Ecosystem.
- 4. Enhance community capacity in the sustainable use and management of natural resources.
- 5. Strengthen collaboration in advocating for policies that support the protection of the Leuser Ecosystem.



**4**

**OFFICES**

**450**

**STAFF**

**\$4,000,000**

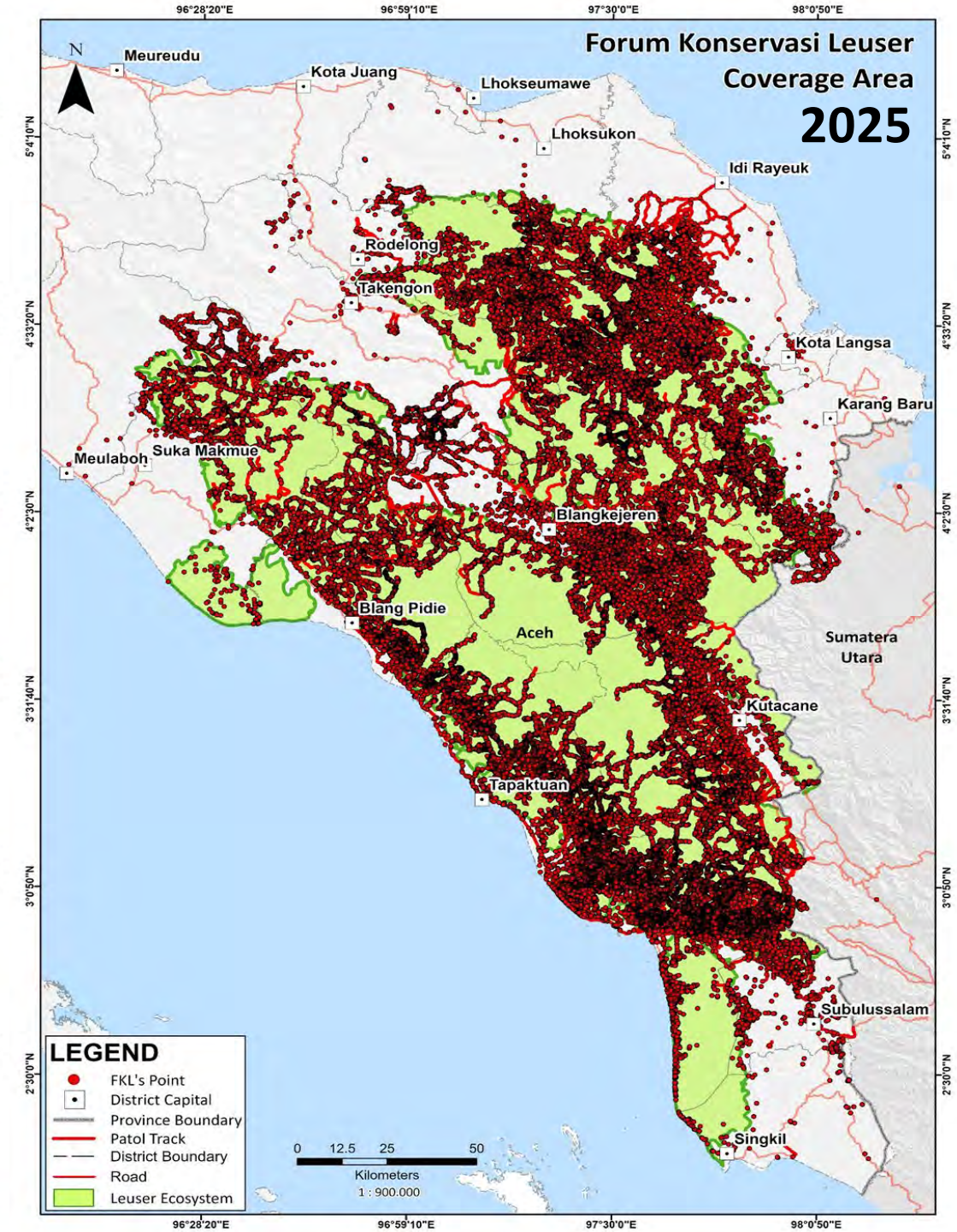
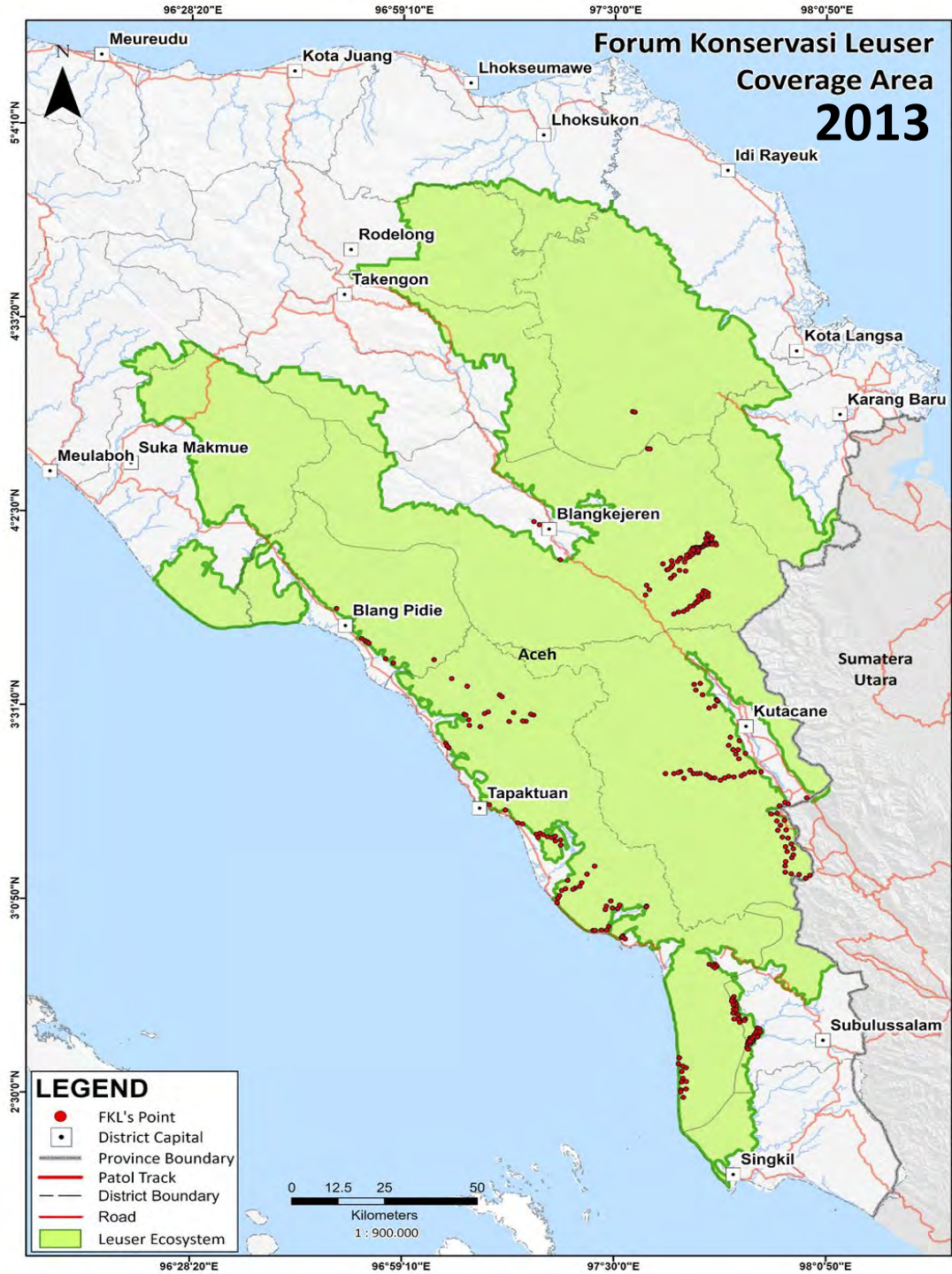
**ANNUAL EXPENDITURES**

LEUSER  
CONSERVATION  
TRAINING  
CENTER

Forum Konservasi Leuser



Jalan Lingkar Kiri, No. 11  
Desa Parigi, Distrik  
Lecan, Kabupaten  
Banda Aceh  
Kecamatan  
Kuala Tebing Tinggi



# COLLABORATION WITH GOVERNMENT PARTNERS



MINISTRY OF  
FORESTRY  
REPUBLIC OF  
INDONESIA



KPH / ACEH FORESTRY  
AGENCY  
PROVINCIAL  
GOVERNMENT OF  
ACEH

COLLABORATION WITH NGOs, INSTITUTIONS AND UNIVERSITIES

# FKL Strategy



## Protect

FKL safeguards wildlife through dedicated protection teams for general fauna and elephants, operates rapid-response rescue units, maintains strategic guard posts, and manages a Sumatran rhino sanctuary to secure critical habitats and deter poaching.



## Restore

Through both passive and active restoration approaches, FKL rehabilitates degraded landscapes—promoting natural forest regeneration while implementing agroforestry systems to accelerate forest recovery and enhance community resilience.



## Develop

FKL fosters long-term conservation by raising public awareness via conservation outreach and educational programs, and by empowering communities with sustainable livelihoods.

Wildlife Protection Team



# WILDLIFE PROTECTION TEAM

The Leuser Conservation Forum Rangers Team is the front guard in fighting threats to biodiversity in the Leuser ecosystem. These brave individuals embark on rigorous expeditions into the wilderness to protect key wildlife habitats, dismantle snares, and collect wildlife presence data, demonstrating an unparalleled commitment to conservation.

PEOPLE PER TEAM

4-5

INCLUDING GOVERNMENT RANGER

38

RANGER TEAMS

8

GUARD POSTS

PATROL EXPEDITION FOR

15

DAYS



FORUM KONSERVASI LEUSER

# LEUSER RESCUE TEAM

Currently, FKL operates 4 Elephant Protection Teams, 1 Elephant Fencing Team and 1 Elephant Biobarrier Team, and 1 Wildlife Rescue Unit. These units are spread throughout the Leuser Ecosystem and are effective in reducing human-wildlife conflict and conflict-related wildlife deaths in the Leuser Ecosystem.



ELECTRIC FENCE

M. J. O'NEILL



# MOBILE MONITORING UNITS

FKL deployed 16 Mobile Monitoring Units throughout the Leuser Ecosystem to collect information and data on illegal forest and wildlife crime. The data is collected and reported to local authorities for further investigation and law enforcement operations.

POLHUT  
BKPH LINGE KPH WIL III

# Sumatran Rhino Sanctuary under construction

BOMA



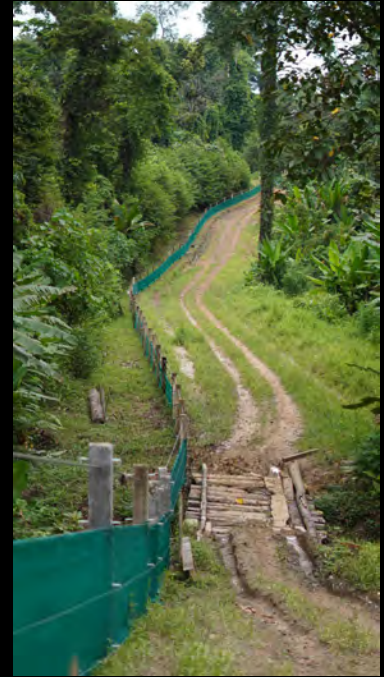
PADDOCK



MATERNITY ENCLOSURE



SRS OFFICE



# PROTECT

38 Wildlife Protection Teams

8 Guard Posts

4 Elephant Patrol Teams

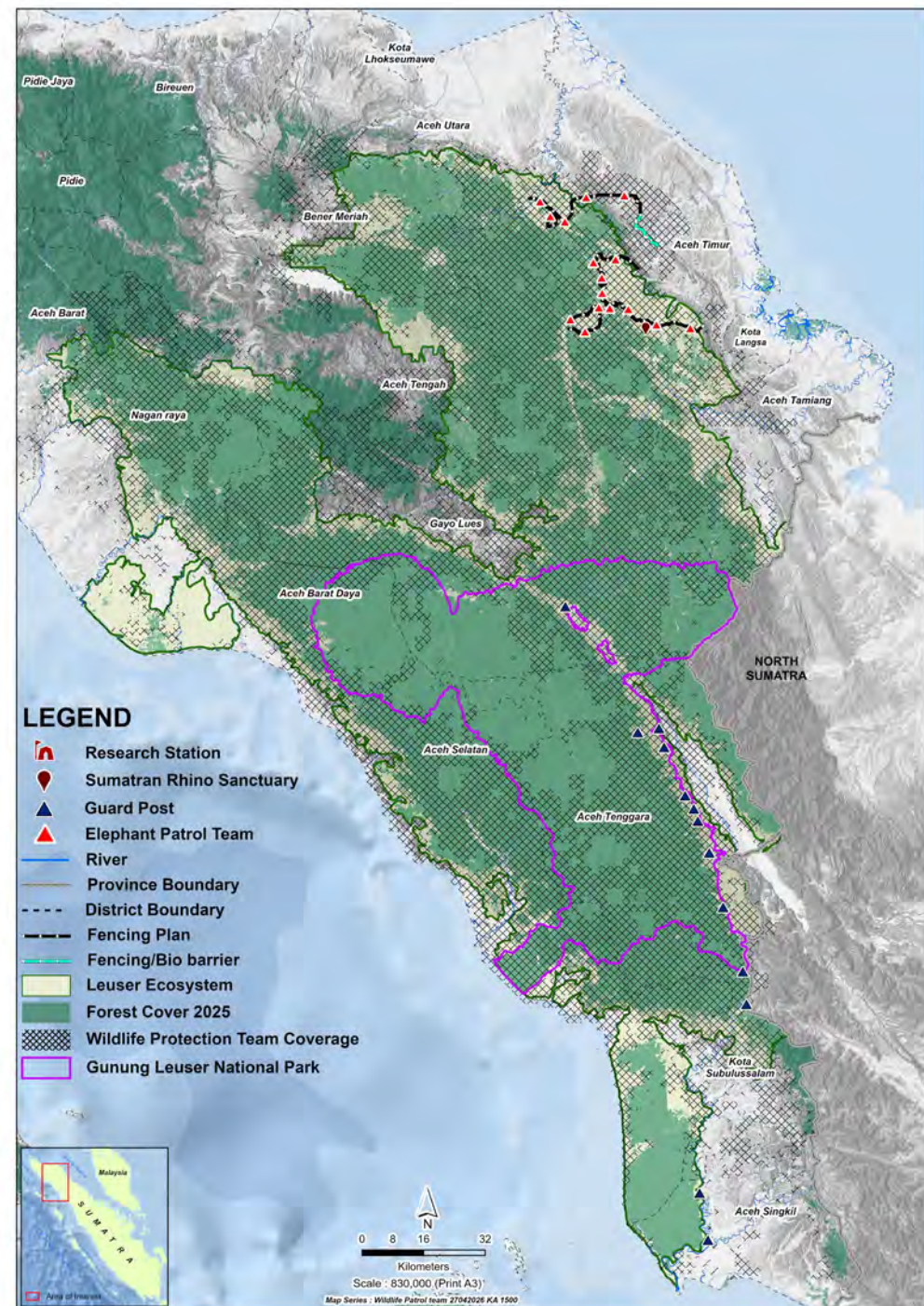
1 Elephant Fencing Team

1 Elephant Biobarrier Team

1 Wildlife Rescue Team

1 Sumatran Rhino Sanctuary

16 Mobile Monitoring Units





# RESTORATION

FKL Restoration Team mission is to restore degraded forests and support community livelihoods through various restoration approaches, namely agroforestry and natural regeneration.

MANAGES

24

RESTORATION  
POSTS

INVOLVES

818

AGROFORESTRY  
FARMERS

RESTORATION AREA

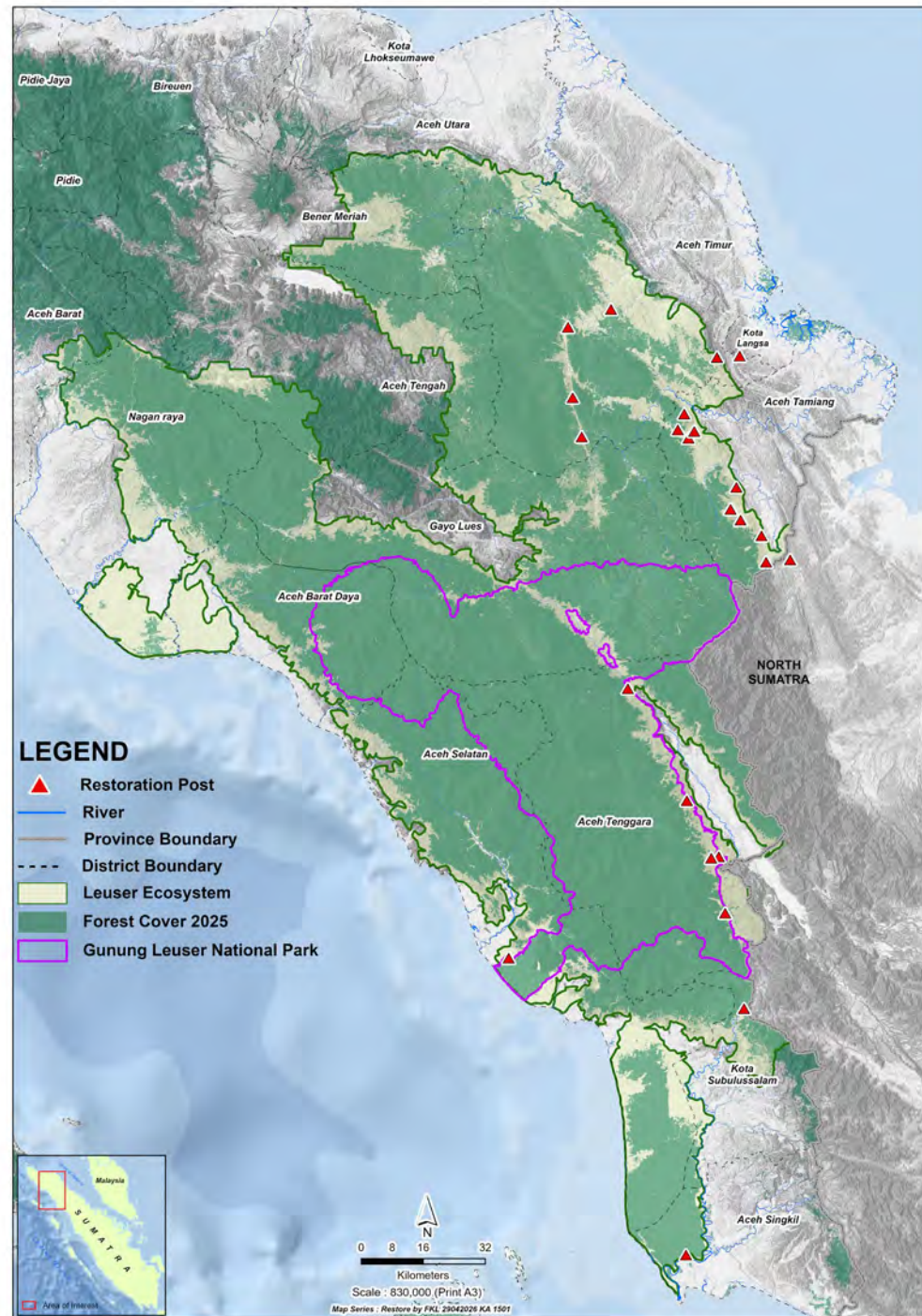
12,000

HECTARES

# RESTORE

24 Restoration Posts

12,000 Hectares





# RESEARCH AND MONITORING STATION

FKL manages 4 research stations, namely the Ketambe, Soraya, Samarkilang, and Sarah Baru Research Station. The research station functions as an education center for students conducting research in the Leuser Ecosystem, and a monitoring post for forest guard teams.

OPERATES

4

RESEARCH AND MONITORING STATIONS



# CONSERVATION OUTREACH

FKL operates 1 education unit to conduct conservation education and outreach to school students and communities in the Leuser Ecosystem.





# SUSTAINABLE LIVELIHOODS

Developing community-based economic alternatives—such as agroforestry, organic farming, and deforestation-free cocoa and palm oil farms—to ensure local people can thrive without harming the ecosystem.

MANAGES

82

FARMER GROUPS

SUPPORTING

>12,000

FARMERS

ESTABLISHED

2

SUSTAINABLE PRODUCTION CENTERS OF EXCELLENCE

ESTABLISHED

2

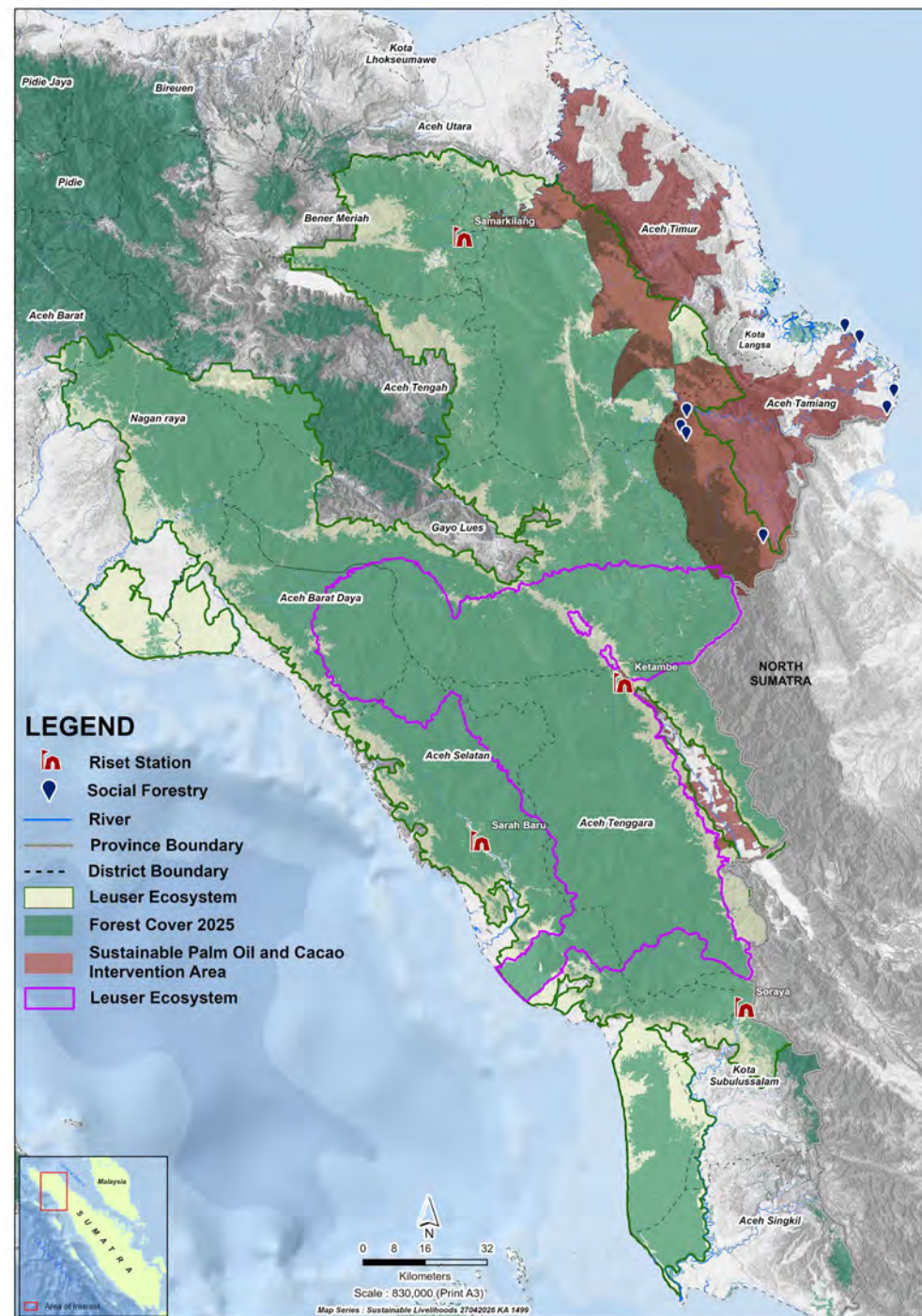
SUSTAINABLE AGRICULTURE TRAINING CENTER

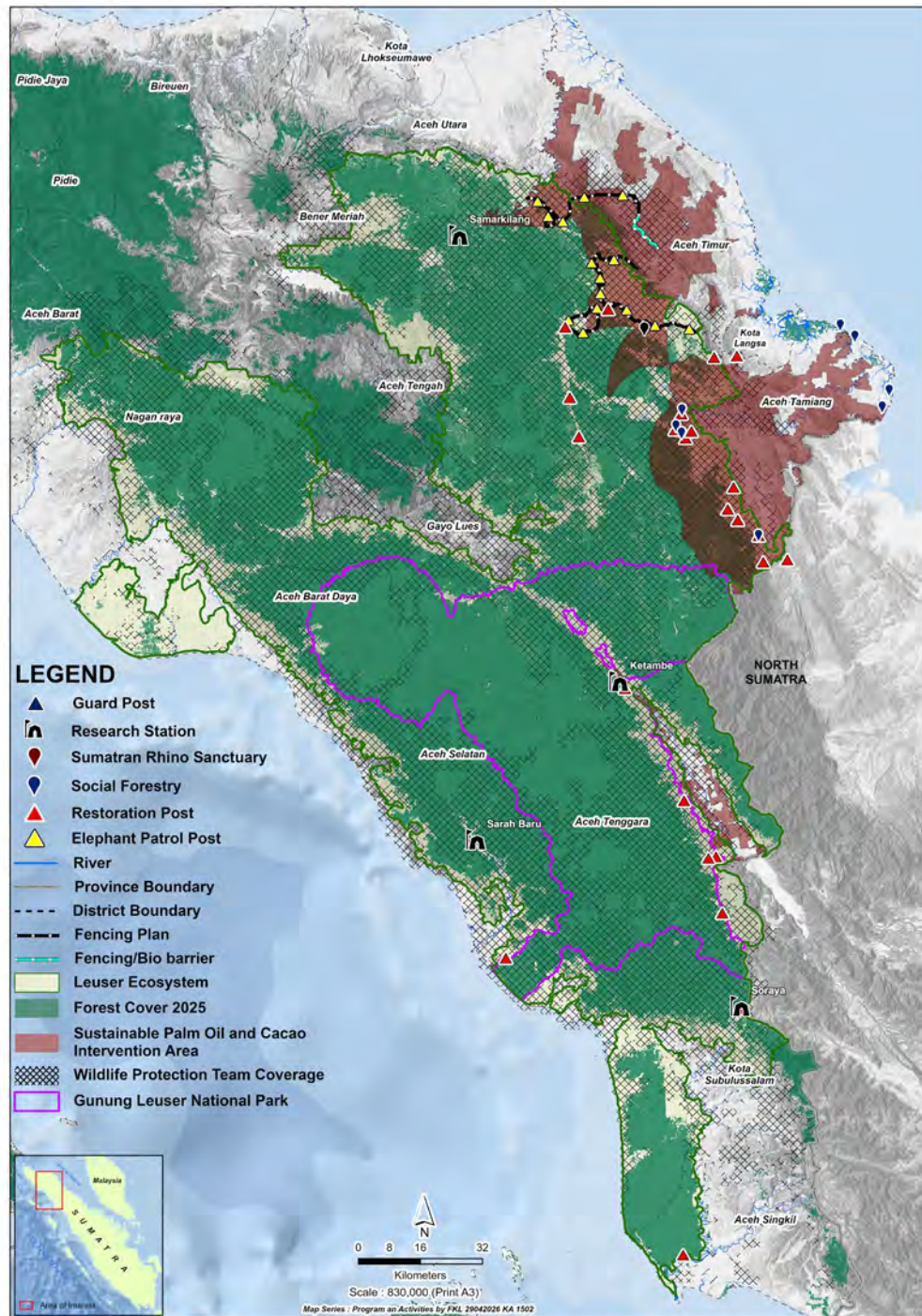
# DEVELOP

4 Research Stations

1 Conservation Education and Outreach Unit

12,000 Sustainable Smallholder Farmers





**LEGEND**

- ▲ Guard Post
- 🏠 Research Station
- 📍 Sumatran Rhino Sanctuary
- 📍 Social Forestry
- ▲ Restoration Post
- ▲ Elephant Patrol Post
- River
- Province Boundary
- - - District Boundary
- - - Fencing Plan
- Fencing/Bio barrier
- 🟡 Leuser Ecosystem
- 🟢 Forest Cover 2025
- 🟤 Sustainable Palm Oil and Cacao Intervention Area
- 🟩 Wildlife Protection Team Coverage
- 🟪 Gunung Leuser National Park



Map Series : Program an Activities by PKL 20042026 KA 1502

# Conservation outcomes

Improvement of wildlife population through protection



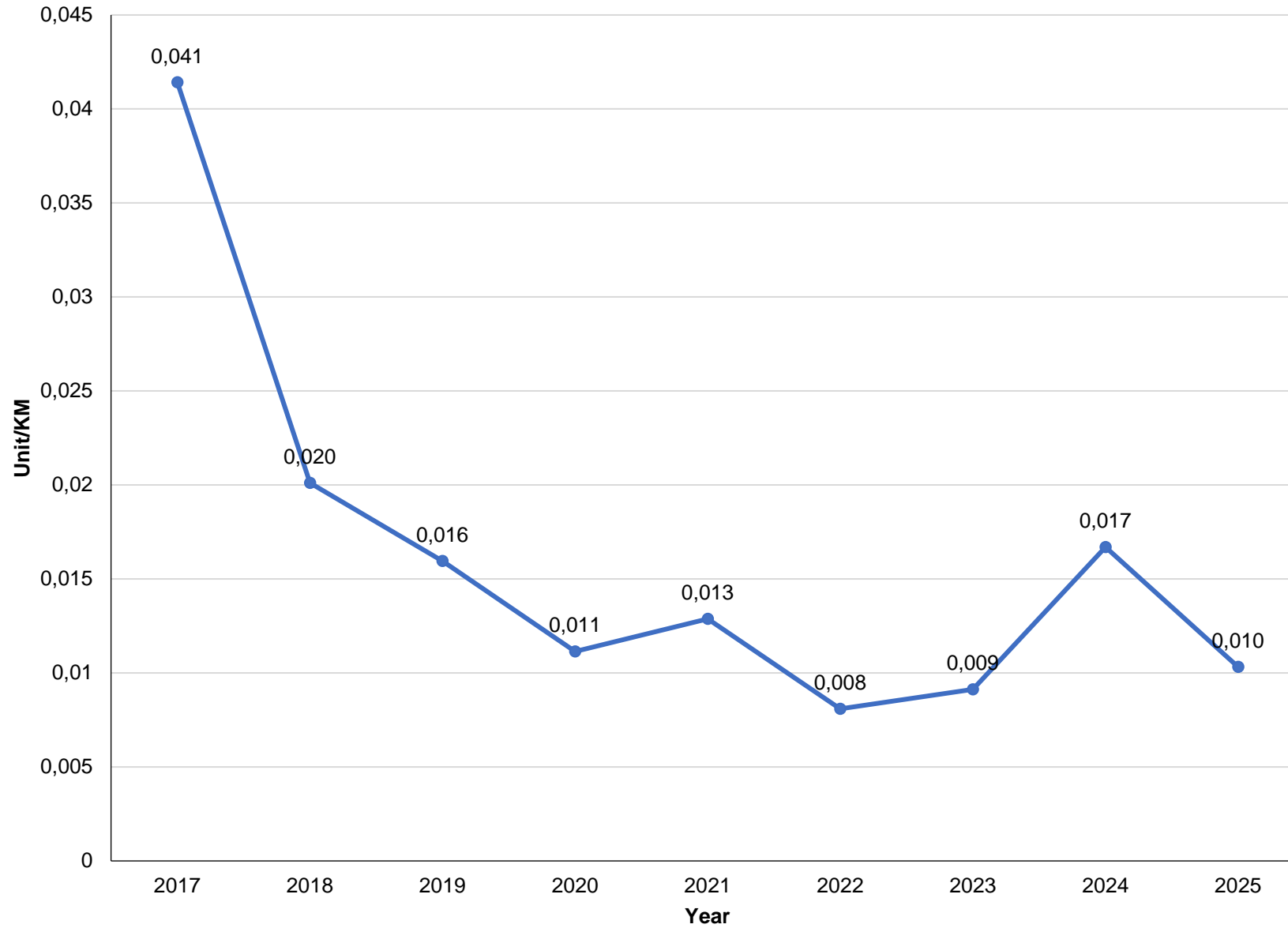
**Ratio of Wildlife Snare Found per Km Patrol in Leuser Ecosystem  
(2017-2025)**





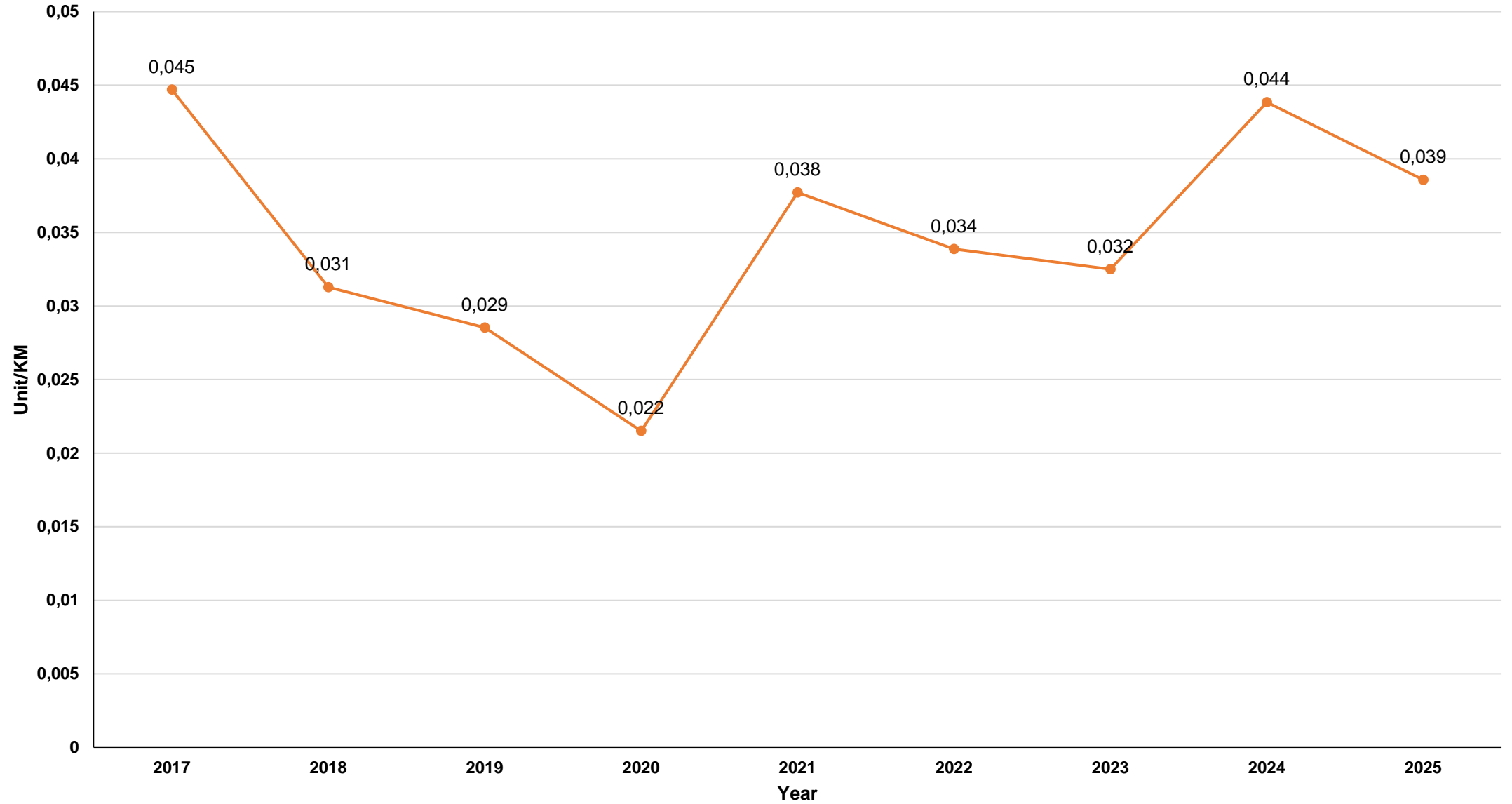


**Ratio of Forest Encroachment (case per km patrol)  
2017-2025**

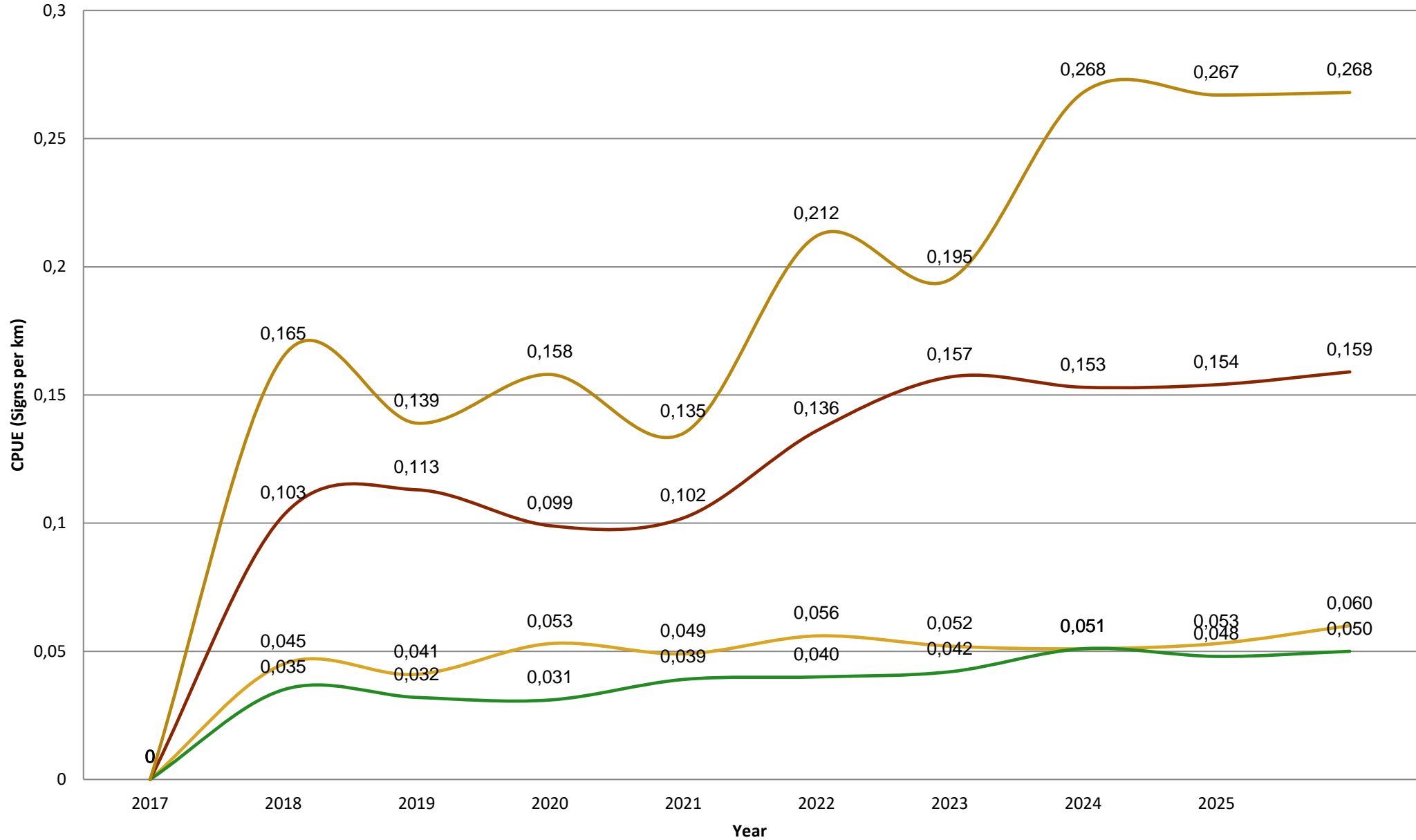




Ratio of Illegal Logging Case Found per Kilometer Patrol  
2017-2025



# Ratio of Key Species Signs per Km of Patrol (CPUE) — Leuser Ecosystem 2017–2025



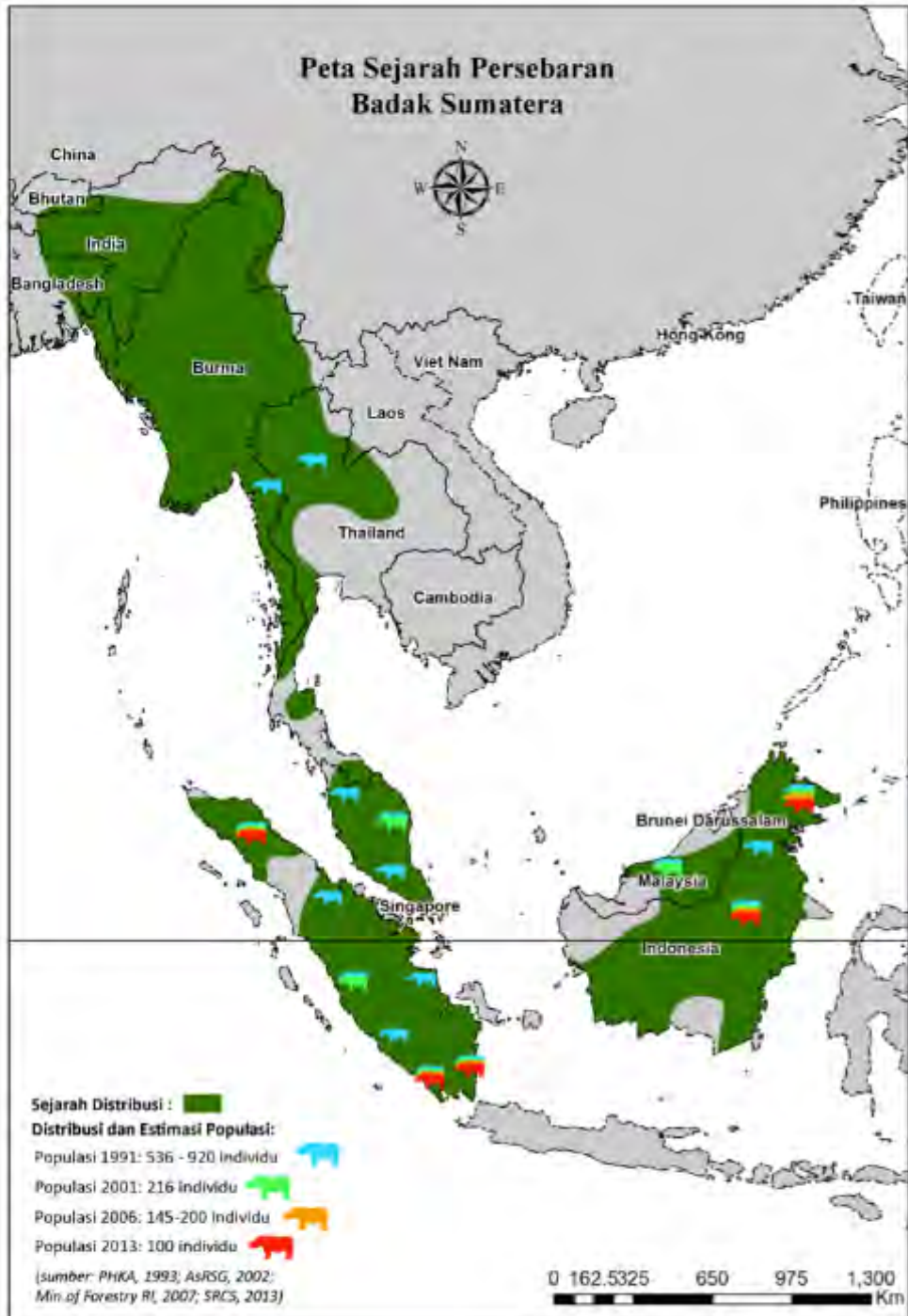
Badak Sumatera (Rhino)

Gajah Sumatera (Elephant)

Harimau Sumatera (Tiger)

Orangutan Sumatera

# SUMATRAN RHINO DISTRIBUTION



1974: still live in all 8 provinces of Sumatra, Sabah, peninsular Malaysia, Kalimantan and Burma

1991: Estimated 536 – 920 ind remaining

1994-2007: Peninsular Malaysian population no longer confirmed

2006: Still breeding sign in Danum & Tabin, Sabah (Borneo Malaysia)

2013: Estimated 100 individuals

2019: Declared extinct in Malaysia

2024: 34-47 Individuals – Only in Leuser (Aceh), Lampung and East Kalimantan



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# Conservation outcomes

Prevention of wildlife death from human-wildlife conflict



RANGER

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Protect-Conserve-Restore

2019- 2025

8

Sumatran  
elephants

9

Sumatran  
tigers

2

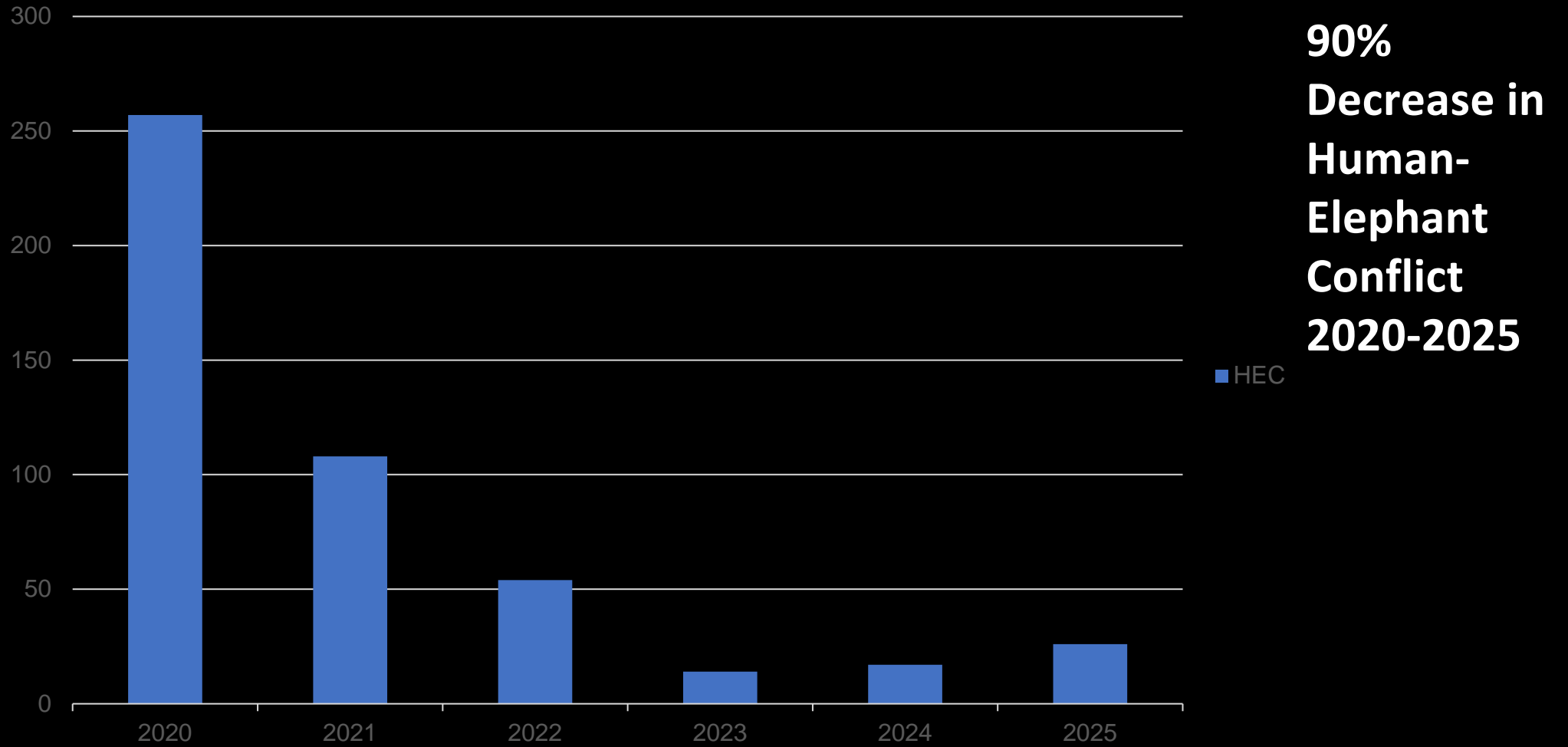
Malayan  
sunbears

6

Sumatran  
tigers  
released back  
to the wild



# Human-Elephant Conflict Incidents and Elephant Death Cases in East Leuser



# Conservation outcomes

Natural regeneration and agroforestry

**Forest Restoration**



26/02/2009



17/06/2009

2010



2011



2017



2020



2023









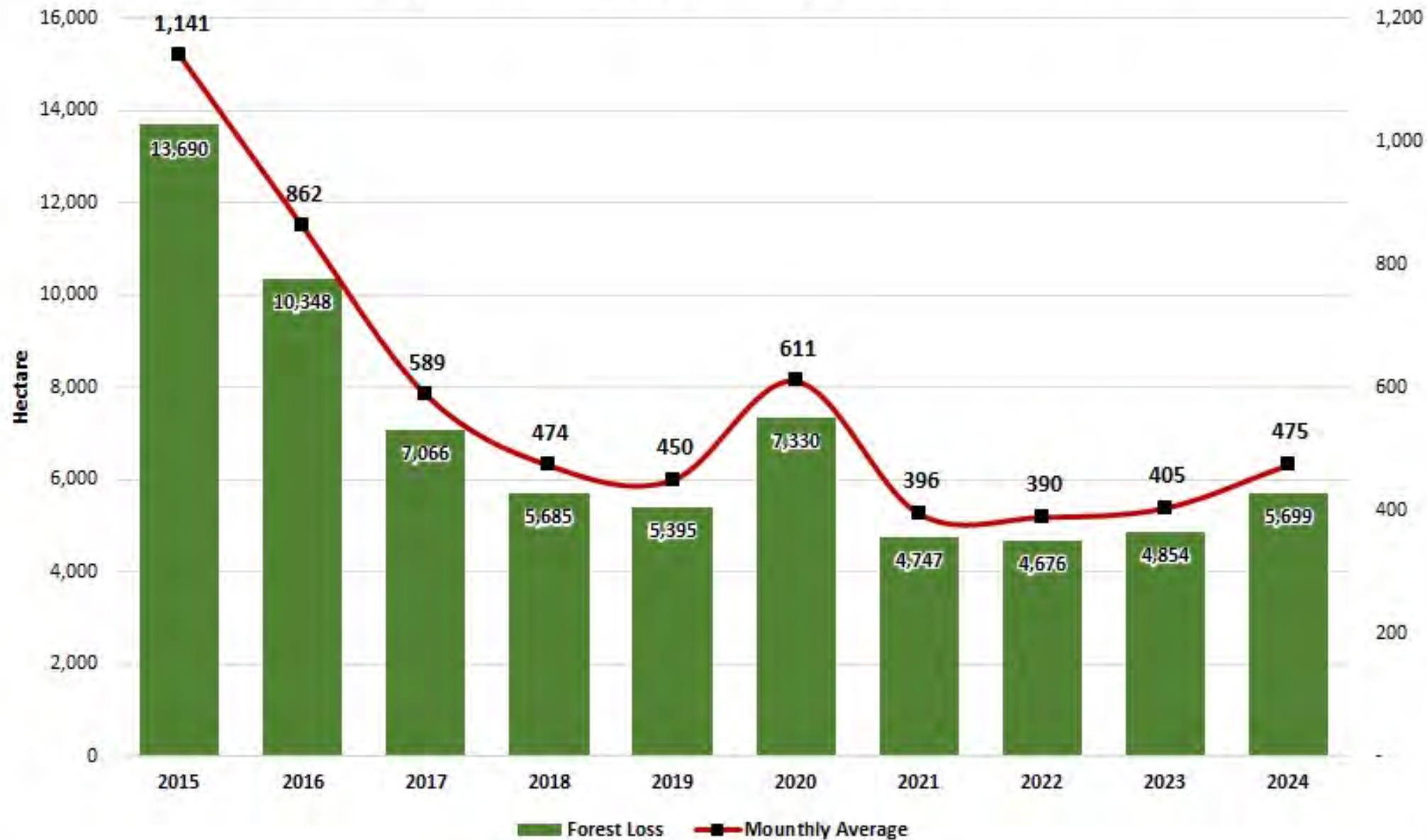




17.12.2024 09:46



Forest Loss in Leuser Ecosystem (Aceh) at 2015 - 2024



# Community Development

**Aceh, with 5.5 million population, is the poorest province Sumatra**

**15% of people live in poverty, far above the national poverty rate of 9%**



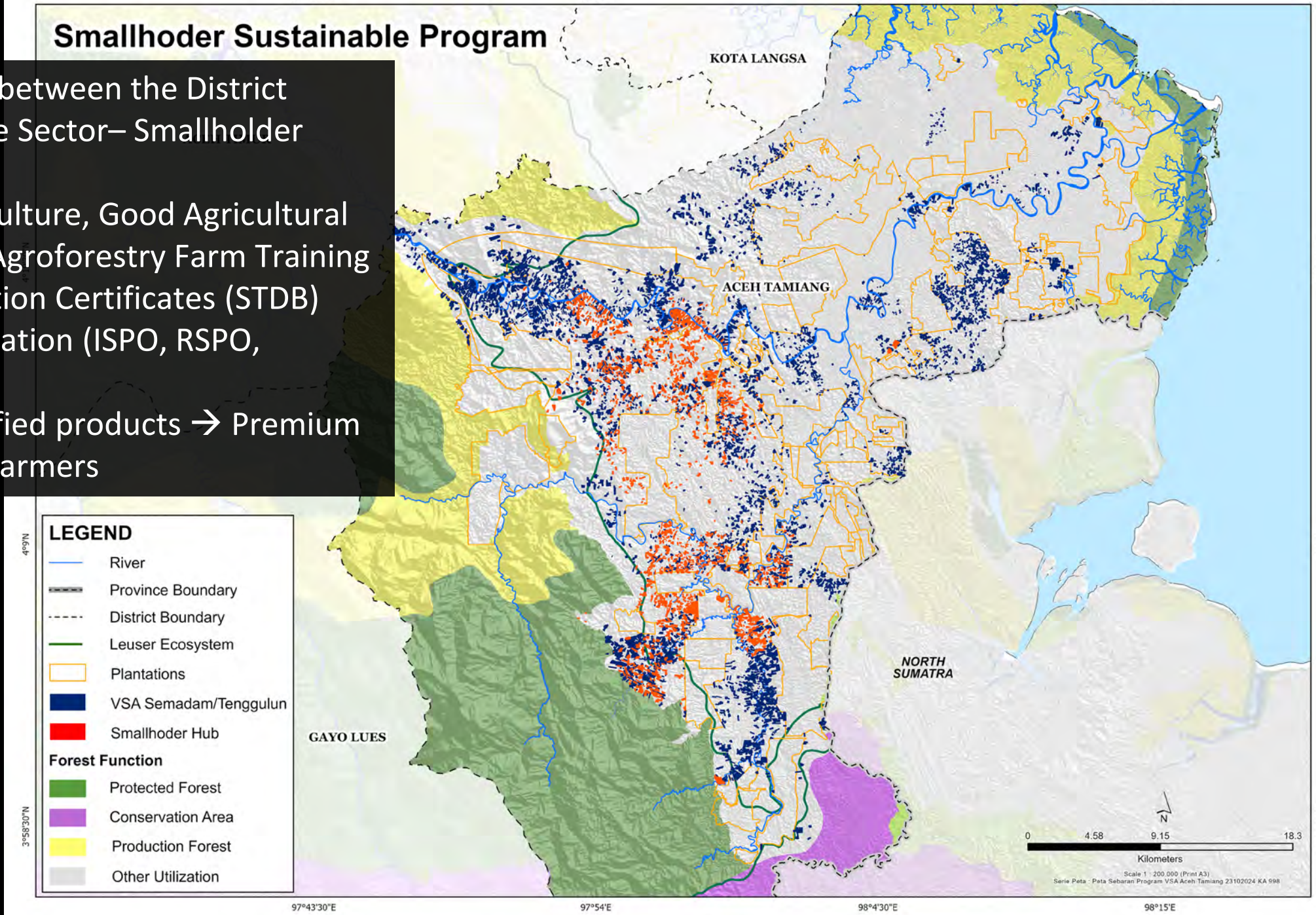


**Agriculture is the dominant livelihood  
(25% of the population)**

**Palm oil is Aceh's single largest  
contributor to regional GDP, with  
approximately 471,000 hectares of  
plantation across the province**

# Smallholder Sustainable Program

1. PPI Compact MoU between the District Government – Private Sector– Smallholder Farmer – NGO
2. Regenerative agriculture, Good Agricultural Practice, Diversified Agroforestry Farm Training
3. Tenure and Cultivation Certificates (STDB)
4. Sustainable certification (ISPO, RSPO, Rainforest Alliance)
5. Traceable and verified products → Premium fees for smallholder farmers





## YOUTH AGRIPRENEUR CAMP

**I. AKTIVITAS PENGEMBANGAN DAN MINAT KEWIRUSAHAAN**

**II. STANDART PERTANIAN KAKAO**

**III. PENGENALAN KEGIATAN REHABILITASI KAKAO**

**IV. PENYUSUNAN RENCANA TINDAK LANJUT**

**V. TEAM BUILDING**

**VI. MALAM KEAKRABAN.**

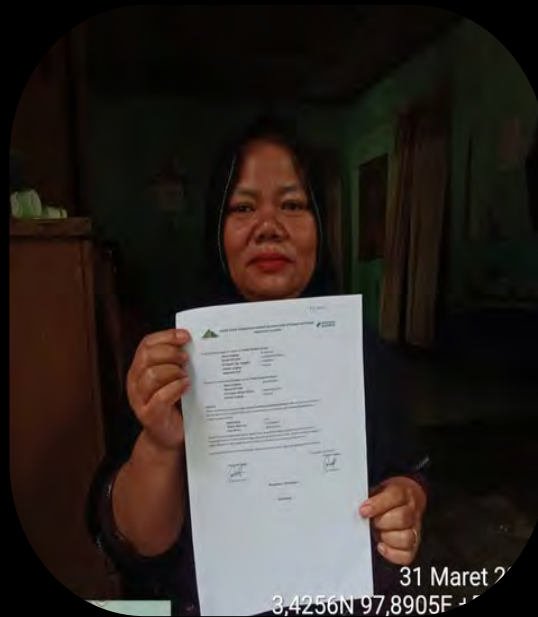
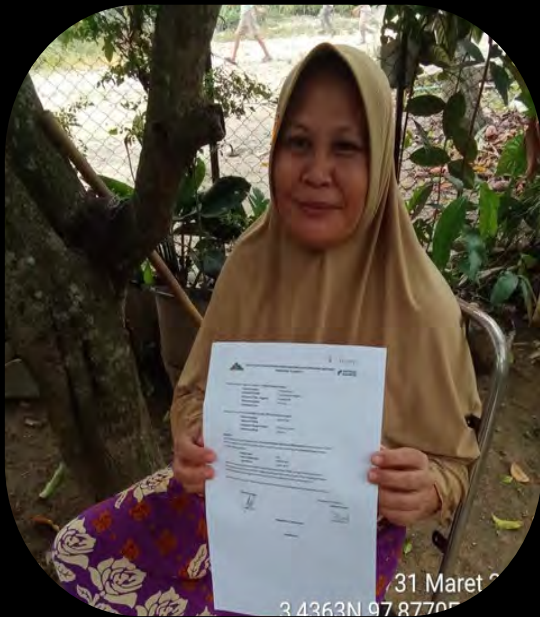


# REGENERATIVE AGRICULTURE TRAINING

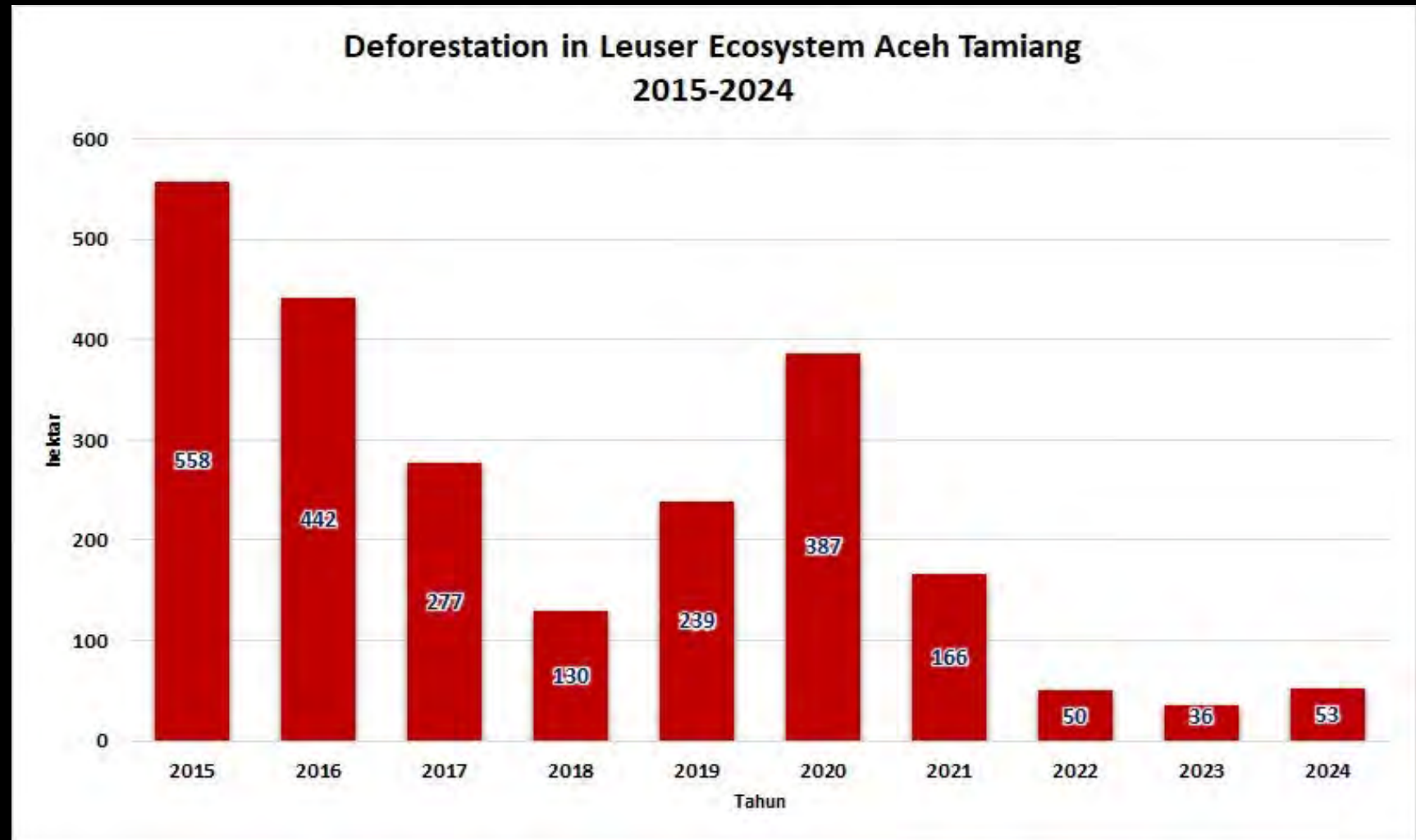


# SUSTAINABLE CACAO RAINFOREST ALLIANCE PREMIUM FEE DISTRIBUTION 2,700 FARMERS

920 dari 2744 (33,5%) petani telah menerima premi



# PROGRAM IMPACT TO DEFORESTATION



# 'The Secret Ingredients'

Lessons learned from conservation programs in the Leuser Ecosystem

2. Focus on humility and respect instead of prohibition and preaching



# Conservation Champions



**3. Do not be afraid of starting small..**

**Lead through example not promises**





## 4. Conservation that cares





A person wearing a blue long-sleeved shirt, dark pants with a red stripe, a wide-brimmed hat, and a backpack is climbing a large, moss-covered tree trunk in a dense, green forest. The person is leaning forward, using their hands to grip the tree. The background is filled with various types of green plants and trees, creating a lush, natural environment.

Thank you



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