

# Challenges and opportunities for the implementation of land-based low carbon development in Merauke



By :

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Regent of Merauke District, Papua Province

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# Regional Profile and Policy Development

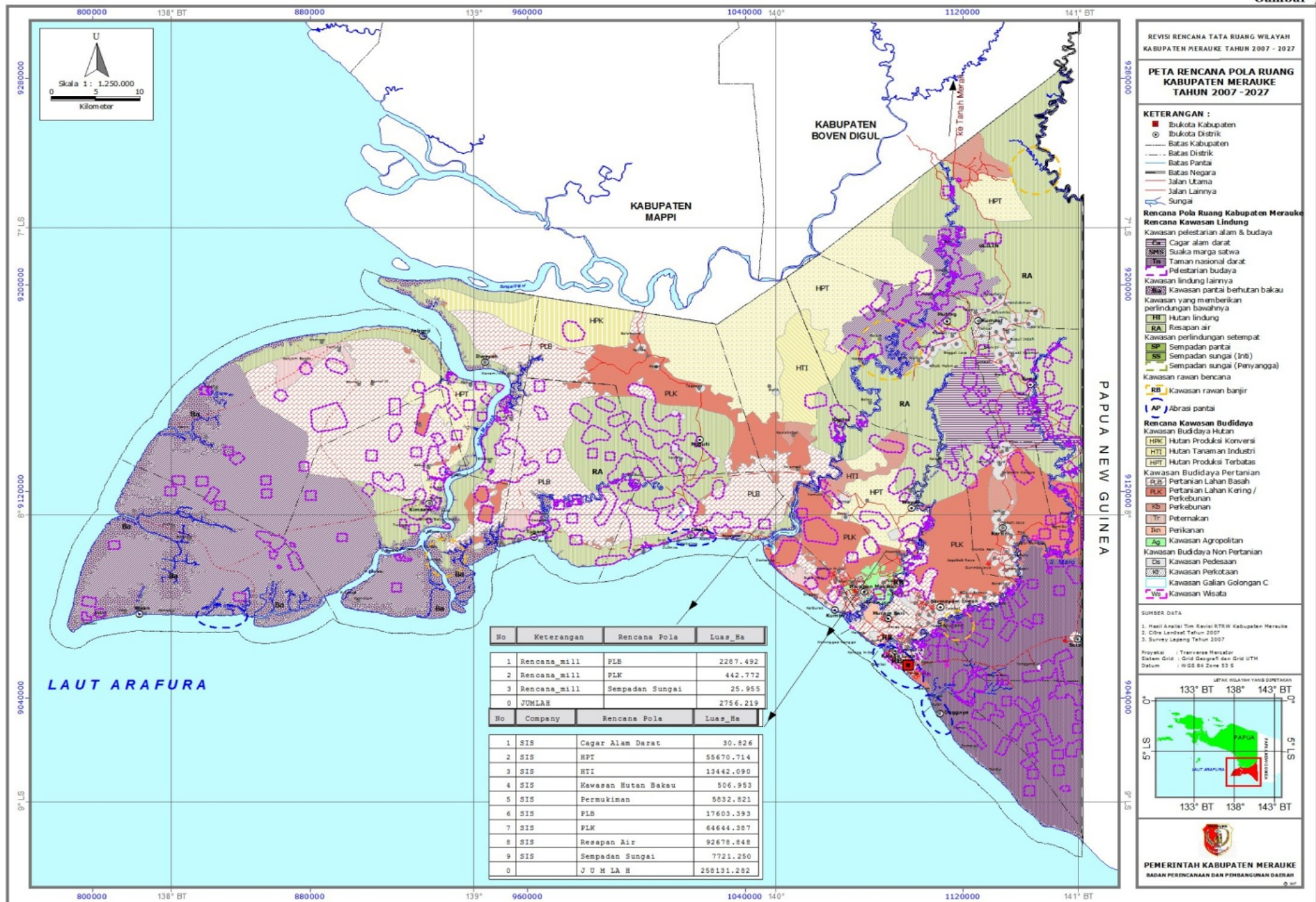
## GEOGRAPHIC AND DEMOGRAPHIC ASPECTS

- Location Merauke of Regency :  
137<sup>0</sup> 00 - 141<sup>0</sup> 00 East longitude (EL) dan 6<sup>0</sup> 00 - 9<sup>0</sup> 00 South latitude (LS)
- Borderline :
  - North : Mappi and Boven Digoel Of Regency
  - east : Papua New Guinea
  - South : Arafura ocean
  - west : Arafura ocean
- An area :
  - Daratan = 4.679.163,26 Ha
  - Perairan = 508.970,50 Ha
- Total population : 209.980 Jiwa
- administrative Governance :
  - 20 District
  - 160 Village
  - 8 Kelurahan

**ISAKOD BEKAI ISAKOD KAI**



# POLA RUANG



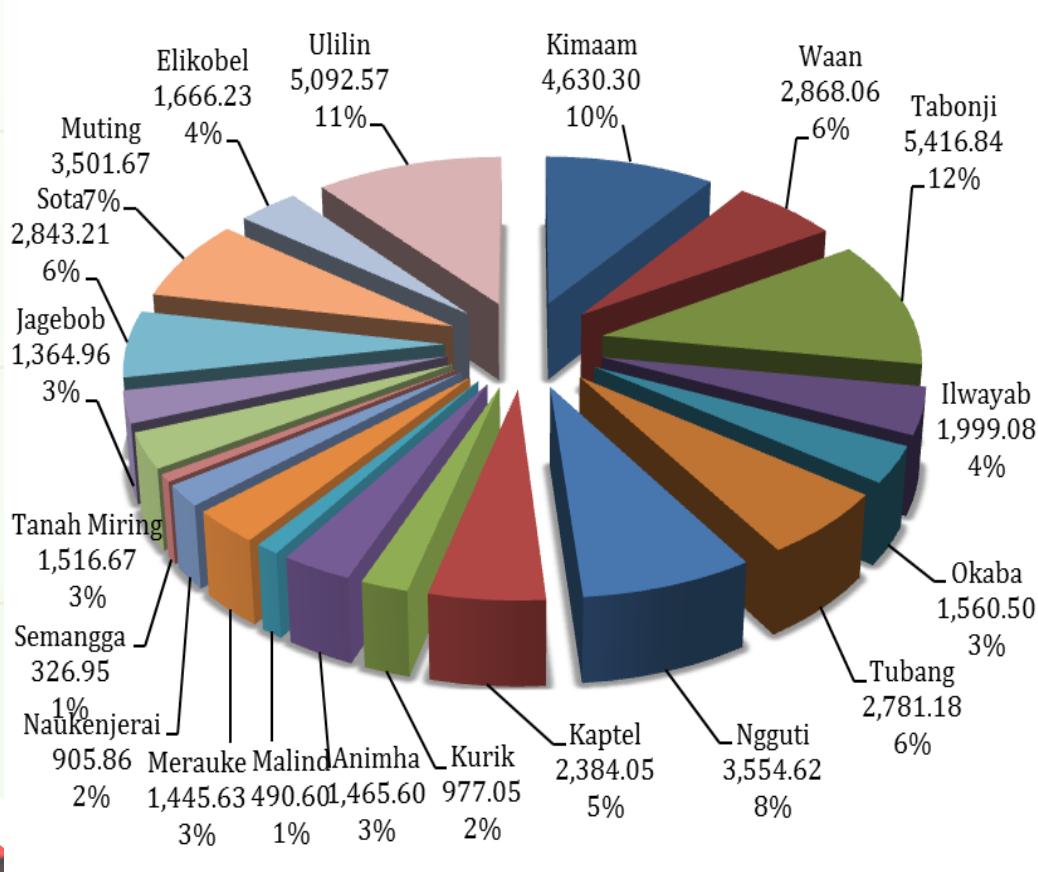
No	Keterangan	Rencana Pola	Luas_Ra
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1	Rencana_mill	PLB	2287.492
2	Rencana_mill	PLK	442.772
3	Rencana_mill	Sempadan Sungai	25.955
0	JUMLAH		2756.219

No	Company	Rencana Pola	Luas_Ra
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1	SIS	Cagar Alam Darat	30.826
2	SIS	SPT	55670.714
3	SIS	HTI	13442.090
4	SIS	Kawasan Hutan Bakau	506.953
5	SIS	Fermukiman	5832.821
6	SIS	PLB	17603.393
7	SIS	PLK	64644.387
8	SIS	Resapan Air	92678.848
9	SIS	Sempadan Sungai	7721.250
0	J U M L A H		258131.282

# The percentage area of Merauke regency By District, 2014



- Merauke district has a tropical climate with two seasons: the rainy season and the dry season each year.
- Merauke district has three Watershed (DAS) that Bikuma DAS, DAS and the DAS Buraka Dolak.
- The population of Merauke in 2014 as many as 213 484 people.

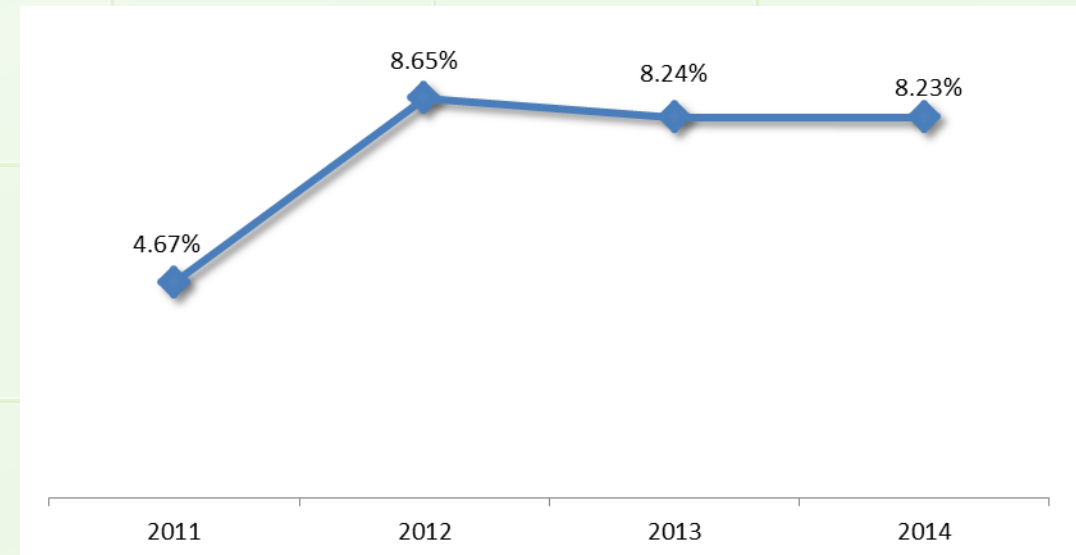
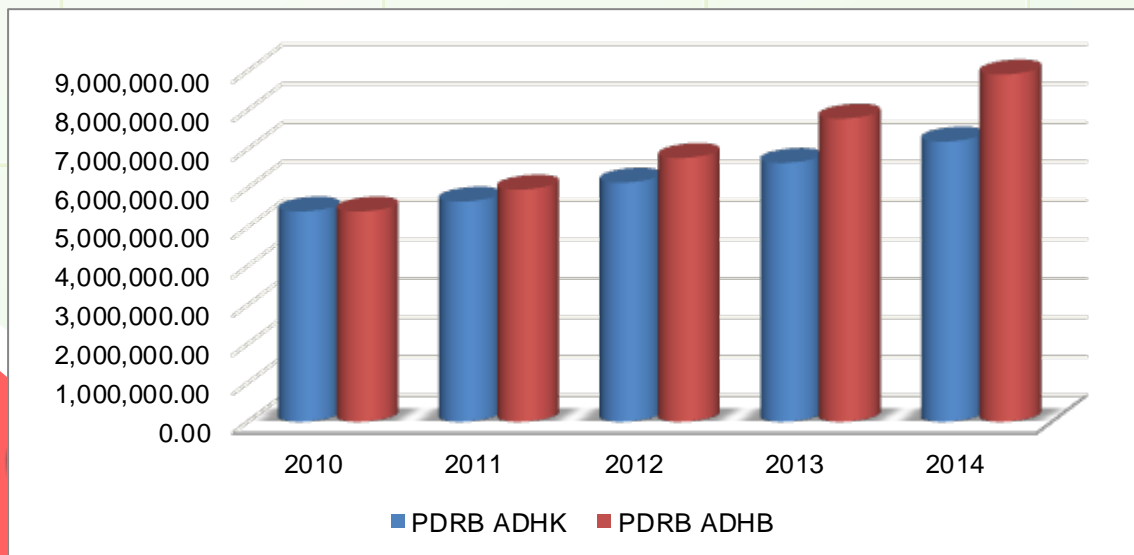
# ASPECTS OF SOCIAL WELFARE

## ***PDRB Merauke of Regency, 2010-2014 (Rp juta)***

- Each year, agriculture, forestry, and fisheries are the sectors that contributed most to the GDP of Merauke

## **Economic Growth Rate of Merauke, 2011-2014**

- In 2011 the economic growth rate of 4.67 percent Merauke of regency and in 2014 increased to 8.23 percent





# Spatial Plan of Merauke Regency

- **The economic function**, among other activities of production, collection and distribution, manufacturing and trade and services;
- **Environmental functions**, including conservation of natural resources, forest protection, disaster-prone, cultural heritage and other;
- Security functions, areas land borders with Papua New Guinea (PNG) and the front porches of Australia; and
- Settlement function among other urban areas merauke, Towns and Integrated Urban District Mandiri (KTM), as well as rural areas.

# strategic areas

1. Border Area Crossing Station in Sota and Elikobel
2. Strategic Area Environmental Conservation
3. Strategic Area Economy

# Development issues

1. Low Human Development Index as the lowest Papua province in Indonesia
2. Still low access to education of indigenous Papuans
3. Unavailability of compliance assurance system of free education costs (operational and personal) for native Papuans
4. Still low access of indigenous people of Papua on the fulfillment of basic health
5. Still high maternal mortality, the death of newborns and infants, toddlers numbers less nutrition, as well as endemic malaria and infectious diseases dangerous
6. The low availability of housing that is livable and affordable environmental sanitation and water quality and the availability of electricity evenly
7. Unequal distribution of income urban and rural communities
8. The low numbers fiscal independence
9. Government spending tends to be inefficient, creating social inequality and political economy provincial government and regency government



# Development issues

10. Neglect of the role of indigenous peoples, including women Papua who have representation by MRP (Majelis Rakyat Papua)
11. The inconsistent implementation of development Papua
12. Strategic infrastructure development that is not sustainable
13. Still the demands of the Papuan community groups to secede from the NKRI
14. Control and reduction act of corruption, collusion and nepotism has not gone well

# Development issues

15. Structuring and utilization of space for development is not performing well
16. Distribution of financing the construction of the special autonomy that has not been proportionally among provinces and districts / cities in the services that are more contextual
17. Low investor confidence due to the lack of constructive efforts in law enforcement, development of information systems that support regional development investment growth-oriented regions in local revenue on an ongoing basis.

# Strategic Issues of Merauke Regency

- Based Economic Development of Low Emission
- Area Development National Food Production Center in Merauke



# Development Vision 5 years (2016-2020)

The realization Merauke as Region-based Border Agricultural Economic Growth Strategic and Productive.

# mission Development

- Increase the stability of the region and the role of the border area;
- Improve infrastructure, public service facilities, and utilization of natural resources is equitable and environmentally sound;
- Improving agricultural development oriented embodiment barns for food sovereignty at regional and national levels;
- Improving the institutional capacity of government and regional development at the level of villages, districts, and counties;

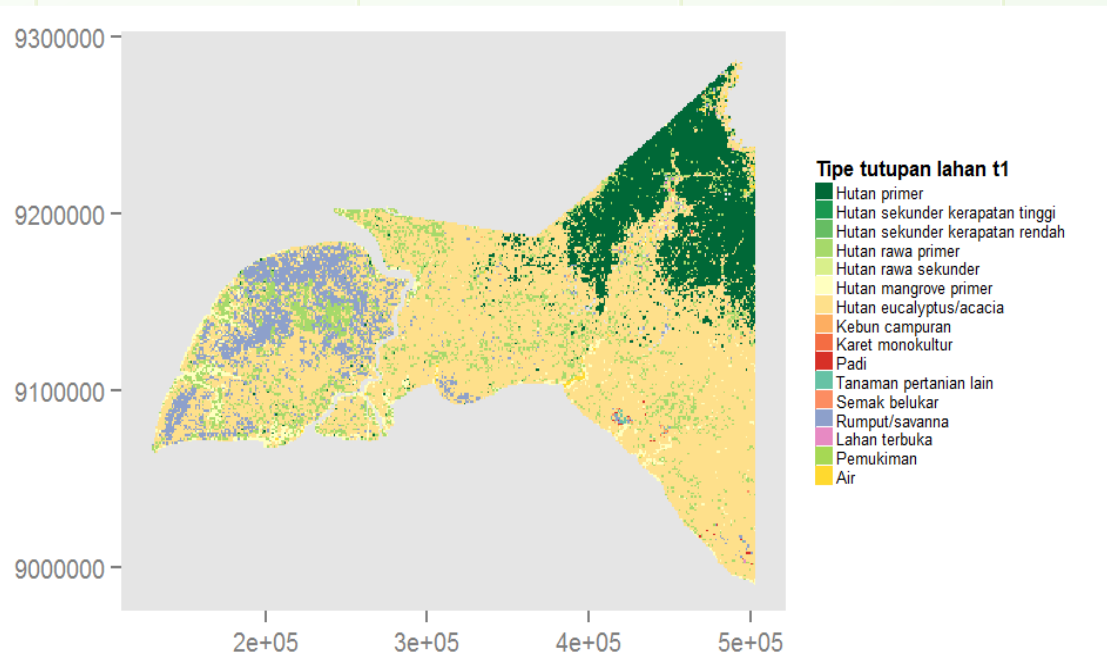
# Mission Development

- Improving strengthening regional economic and investment opportunities;
- Improving the quality of human resources in accordance development potential of the region;
- Improving the quality of health services to the village level;
- Strengthen cultural identity and local wisdom.

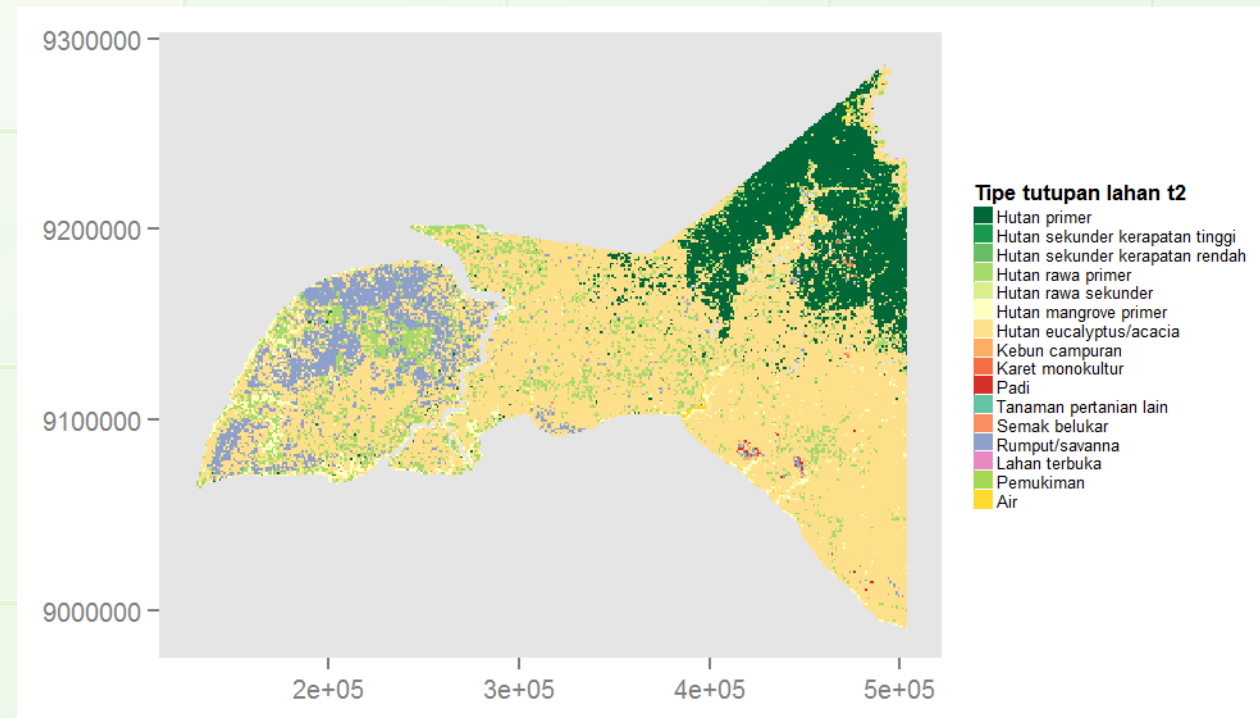


# Land Cover Changes 1990-2000

## Period of 1990

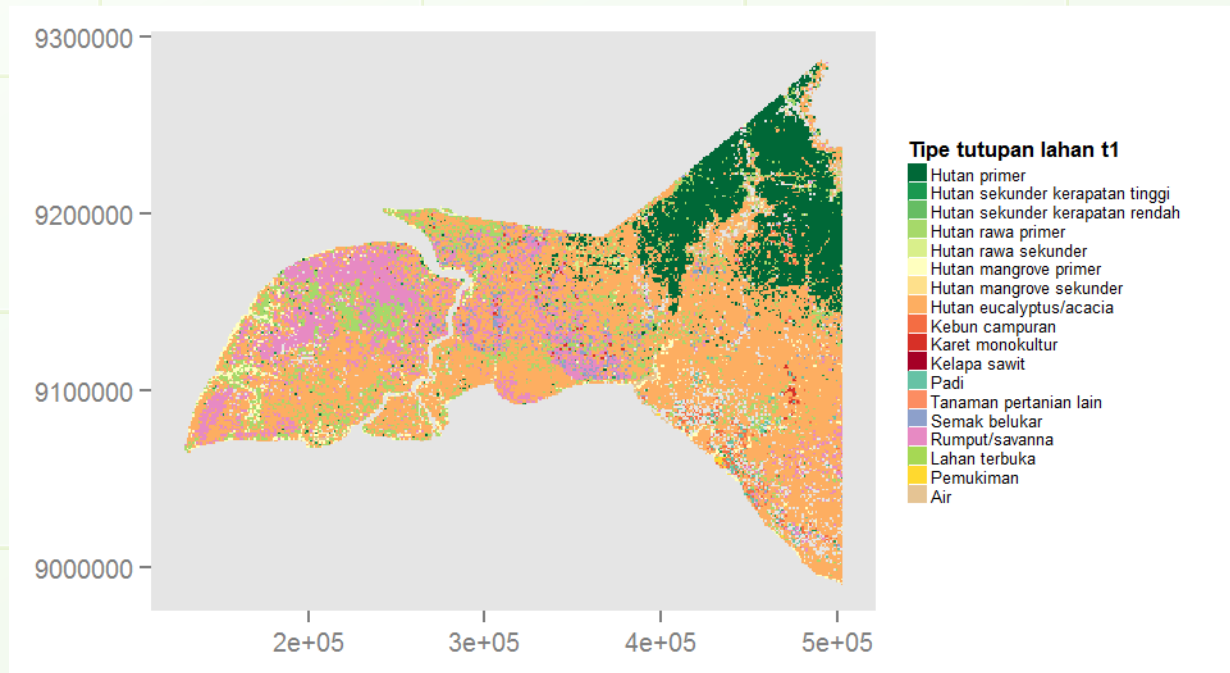


## Periode periode 2000

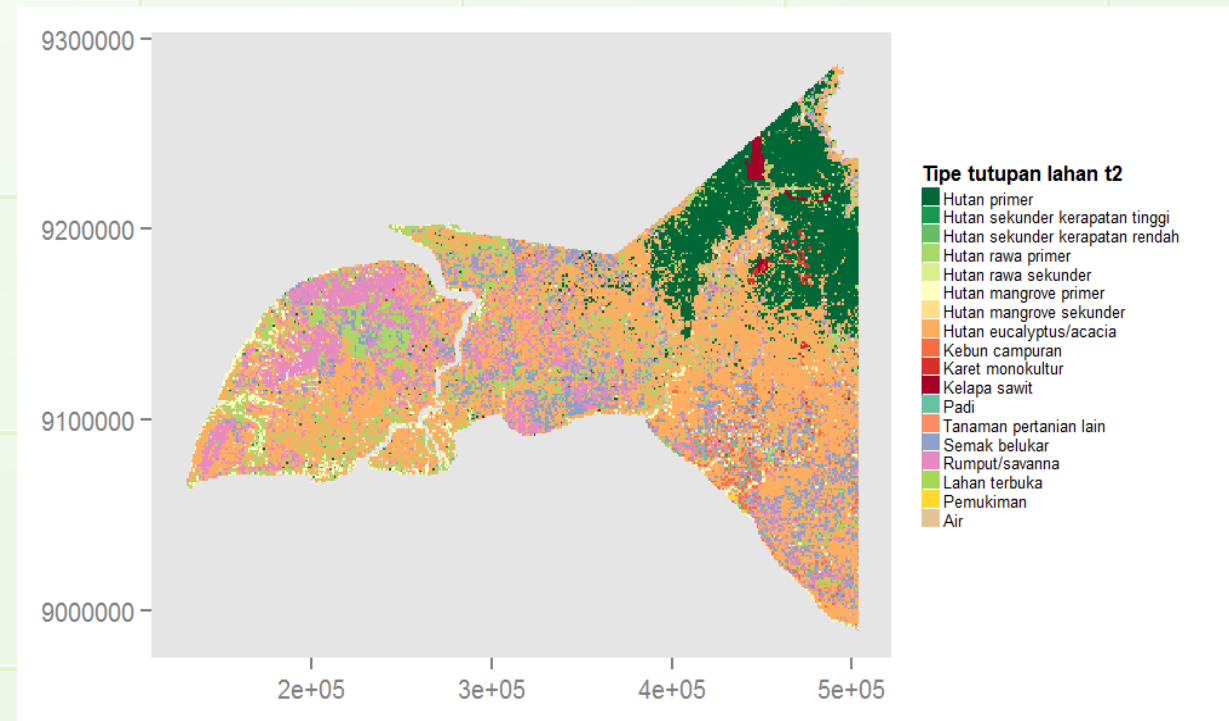


# Land Cover Changes 2010-2014

Tahun 2010



Tahun 2014



# ACTION COMPILATION OF MITIGATION IN THE REGION

- Low Emission Development Action Plan and the Green Economy For Land-Based Sector In Merauke

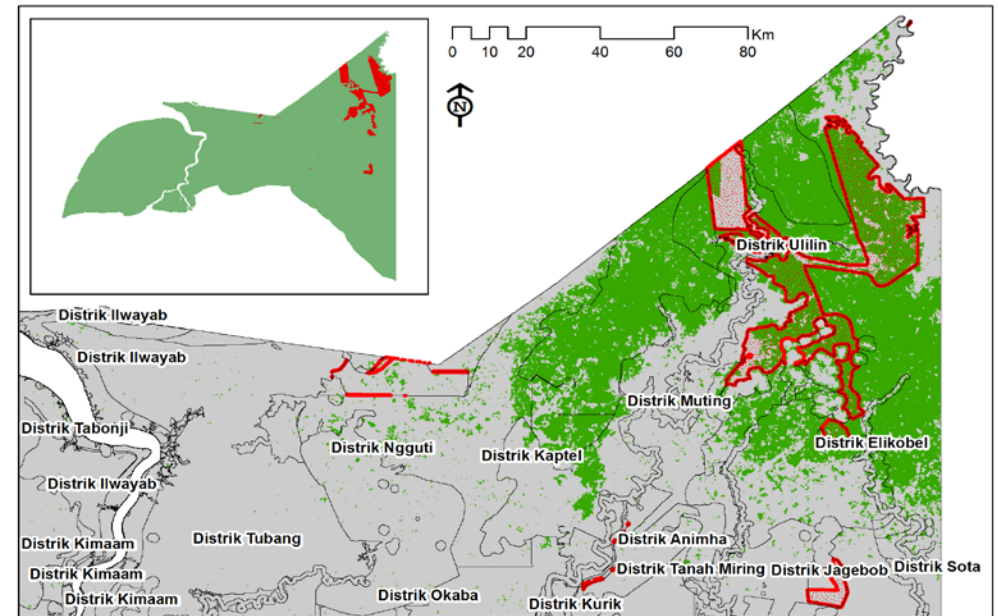
No	Scenario mitigation actions	In %	in Ton CO2 eq/year
1	Reducing emissions in areas with potentially large-scale opening of the can I prevent burning and conversion of forests to prevent local wisdom based on estate planning unit	10,97	2,446,630.86
2	Agroforestry-based implementation of local trees on lands that are not used on a unit of production forest planning.	0,004	784.61
3	Increased uptake of carbon by planting mangroves in the area allocated as mangrove forests and preventing the conversion of forest into other land uses.	0,10	21,731.40
4	Maintain carbon stocks in forests and prevent forest conversion to other uses in the water catchment area planning unit.	2,94	656,843.48
5	Maintain carbon stocks in areas earmarked as a Nature Reserve Army to prevent the conversion of forest into other land uses.	0,89	198,926.11
6	Maintain carbon stocks in the area of Merauke Region Agricultural Production Centers through increased production on productive agricultural land, agricultural land use area of non-productive, the implementation of agroforestry systems	0,50	111,682.89
	<b>Total</b>	<b>15,41</b>	<b>3,436,599.35</b>



# Implementation Mitigation Actions

The location implemented mitigation action that is in District 1 Ulilin

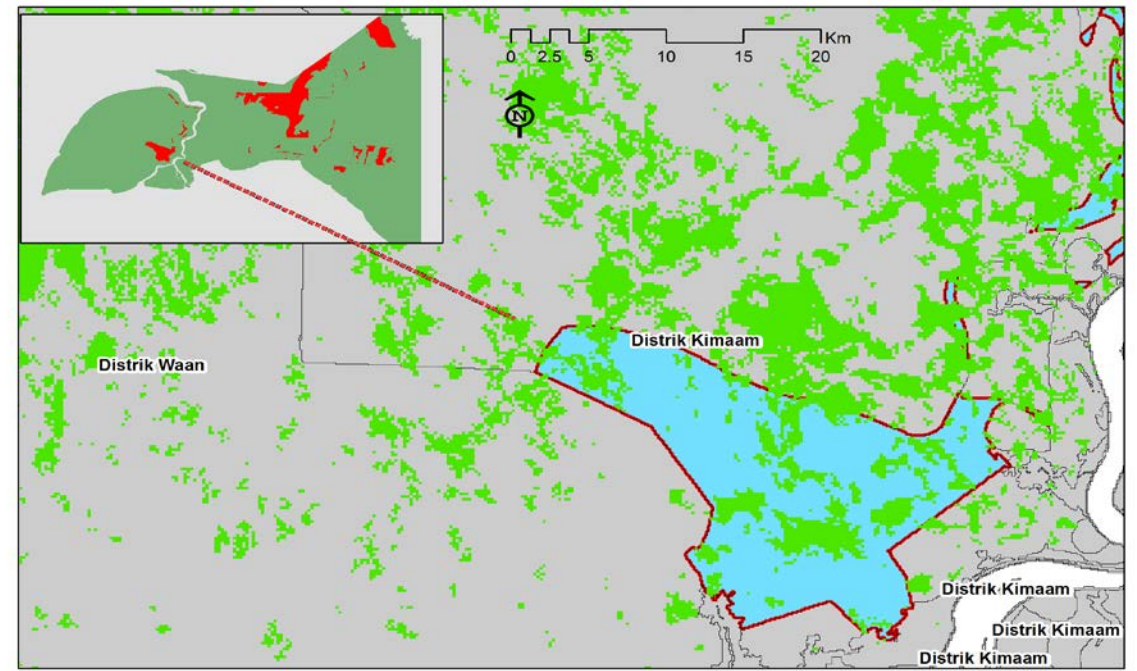
Action 1: Reducing emissions in areas with potentially large-scale opening of the can I prevent burning and preventing forest conversion based on local wisdom on estate planning unit



# Implementation Mitigation Actions

**Location of mitigation actions undertaken both in the District namely Kimaam**

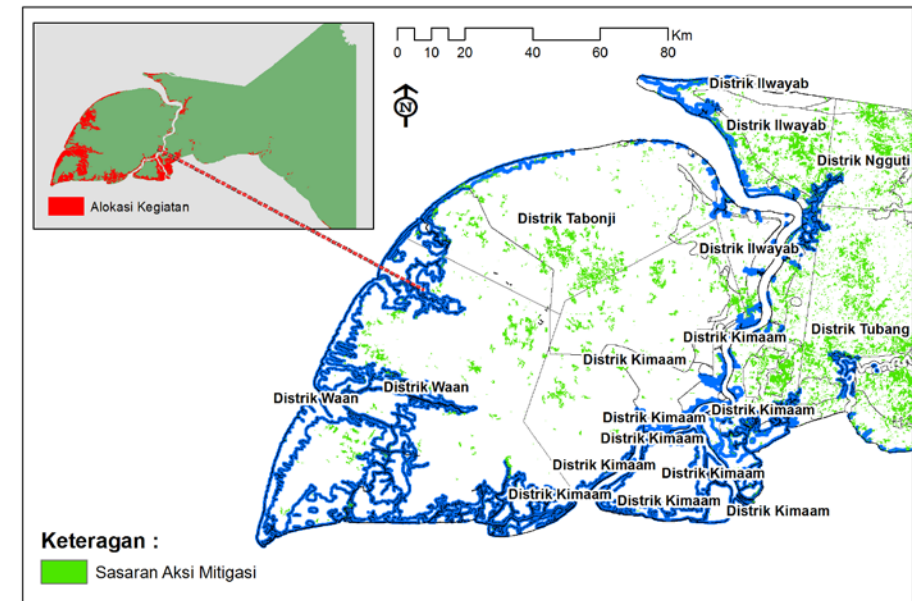
Action 2: Implementation of Agroforestry-based local trees on lands that are not used on a unit of production forest planning.



# Implementation Mitigation Actions

The third location is implemented mitigation action that is in District Waan

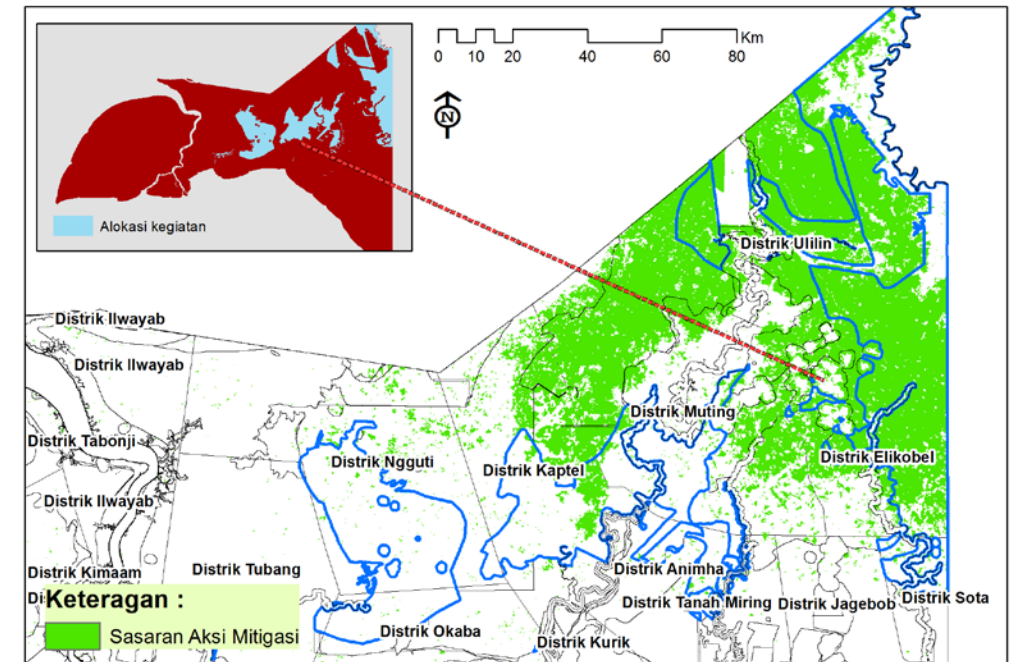
- Action 3: Increased uptake of carbon by planting mangroves in the area allocated as mangrove forests and preventing the conversion of forest into other land uses.



# Implementation Mitigation Actions

The fourth location is implemented mitigation action that is in District Elikobel

- Action 4: Maintaining carbon stocks in forests and prevent forest conversion to other uses in the water catchment area planning unit.

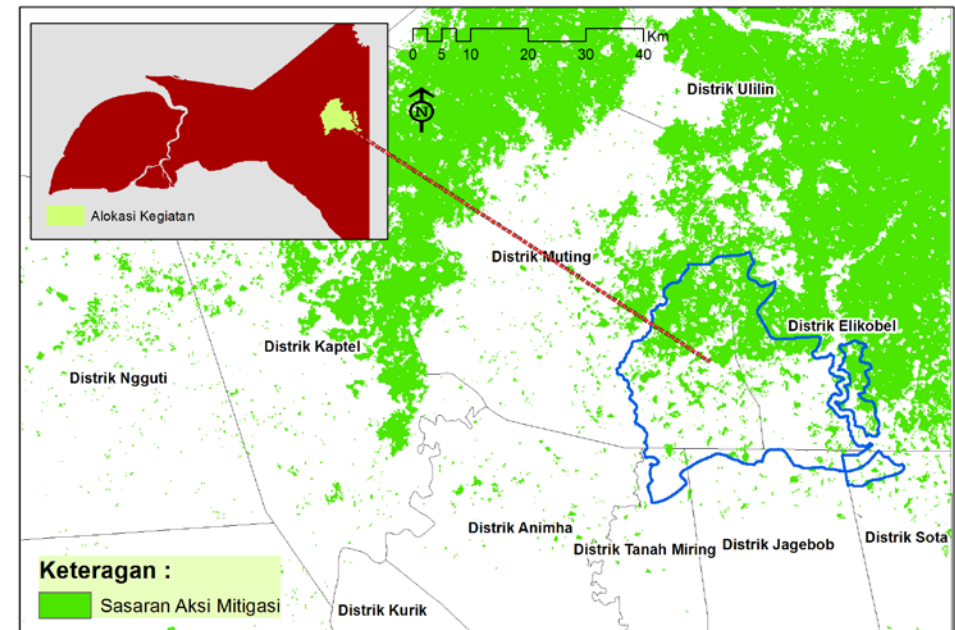




# Implementation Mitigation Actions

Location fifth mitigation actions are implemented in the District Elikobel and Muting

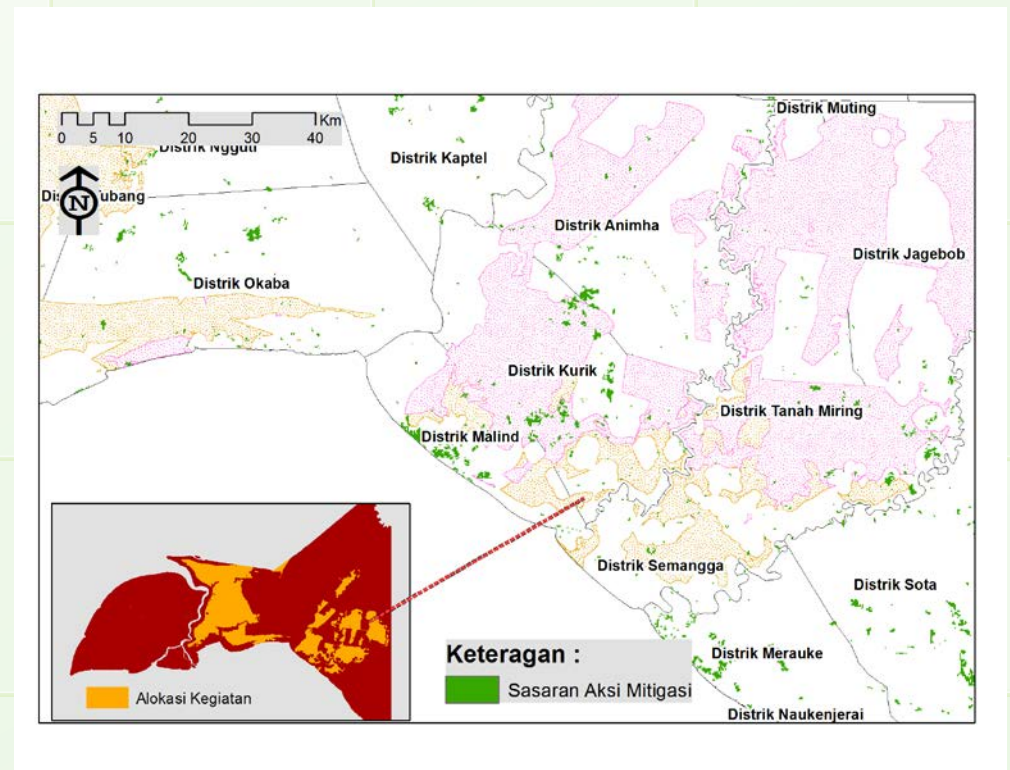
- Action 5: Maintaining carbon stocks in areas earmarked as a Nature Reserve Army to prevent the conversion of forest into other land uses



# Implementation Mitigation Actions

Location sixth mitigation actions are implemented in the District Kurik and Malind

- Action 6: Maintaining carbon stocks in the area of Merauke Region Agricultural Production Centers through increased production on productive agricultural land, agricultural land use area of non-productive, the implementation of agroforestry systems



# Strategi Implementasi LEDs

## Changes in land use planning paradigm of Merauke Regency

1. Alignment of policies related to land use planning;
2. Strengthening local capacity in land use planning policies;
3. Optimization of non-productive land for investment activities;
4. Legality of law related to the presence of indigenous peoples, and the customary land tenure of indigenous peoples.
5. Development of alternative micro-scale economic community;
6. Integration of Mitigation Actions in RPJMD / Strategic Planning / RKPD / working plan on education
7. Monitoring and Evaluation Strategy

# Challenges in Implementation

- Changing the way of thinking (mindset) and creating cultural and structural strategies in decision making and sustainable local economic development
- push political will to integrate environmental issues and sustainable development in decision making at the local level
- Promotions and encourage understanding of the challenges of sustainable development in the region
- Land-based sector development policies of the central government in the regions
- Budget implementation of sustainable development in the region is still low, and most are still absorbed infrastrukt development, education and health.





Thank You Very Much for Your Attention

Green for Life