Use of Rapid Eye data in Technical Cooperation activities in Indonesia

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Program goal:

The implementation of strategies on forest protection and sustainable forest management reduces emissions from the forestry sector that are detrimental to the climate and improves the living conditions of the poor rural population.

FORCLIME Programme Structure

Forests and Climate Change Programme (FORCLIME)

- **Technical Cooperation Module**

Financial Cooperation Module

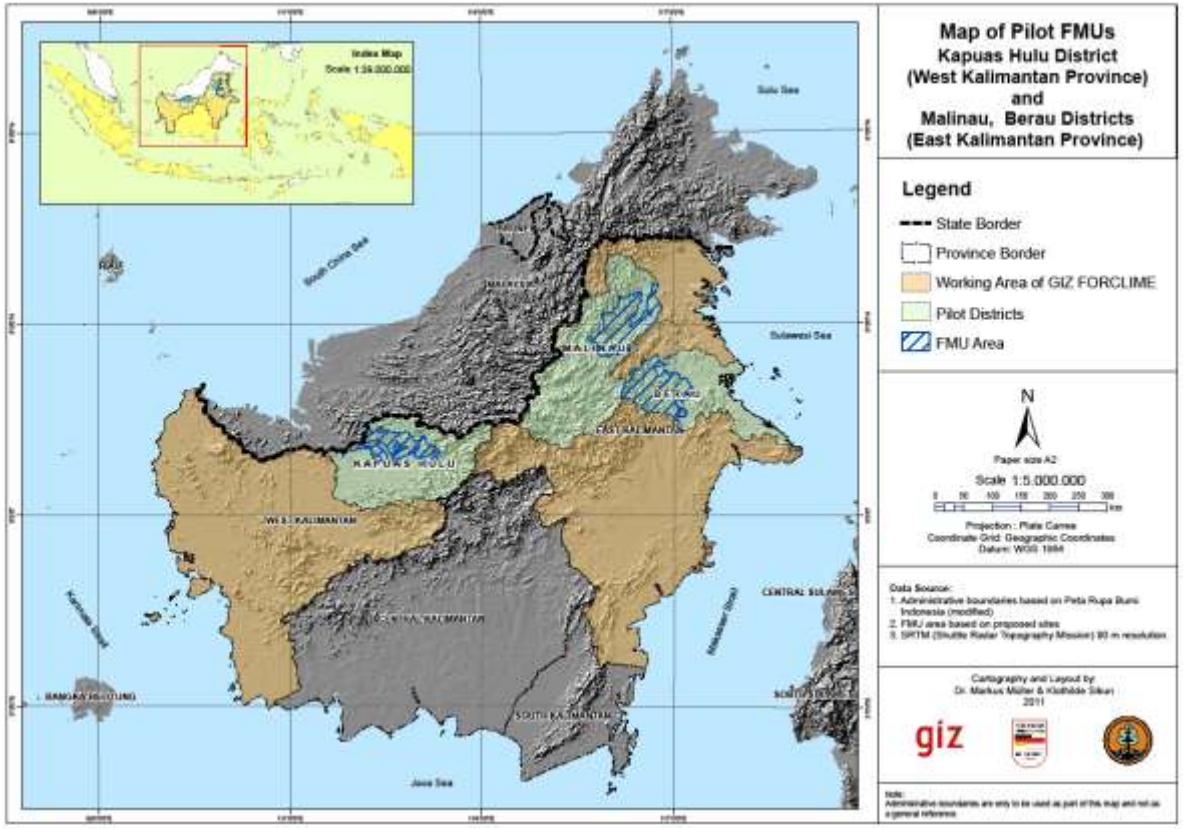
- TC Module: 3 components

Investments + Consulting Services for implementation of district-based REDD demonstration activities

FORCLIME :
Technical module: € 9.3 Million (2009-12)

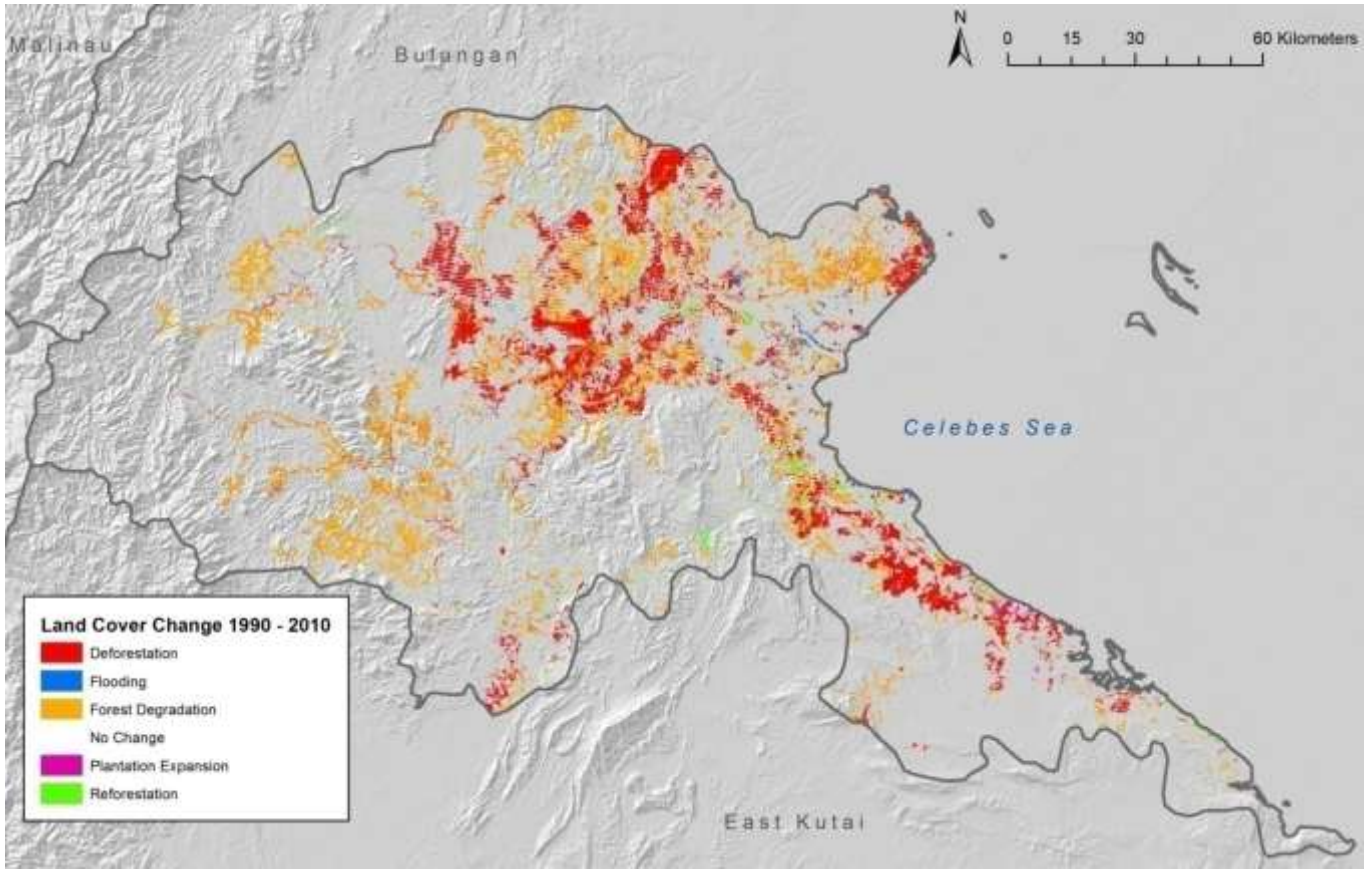
National level Provincial level District level

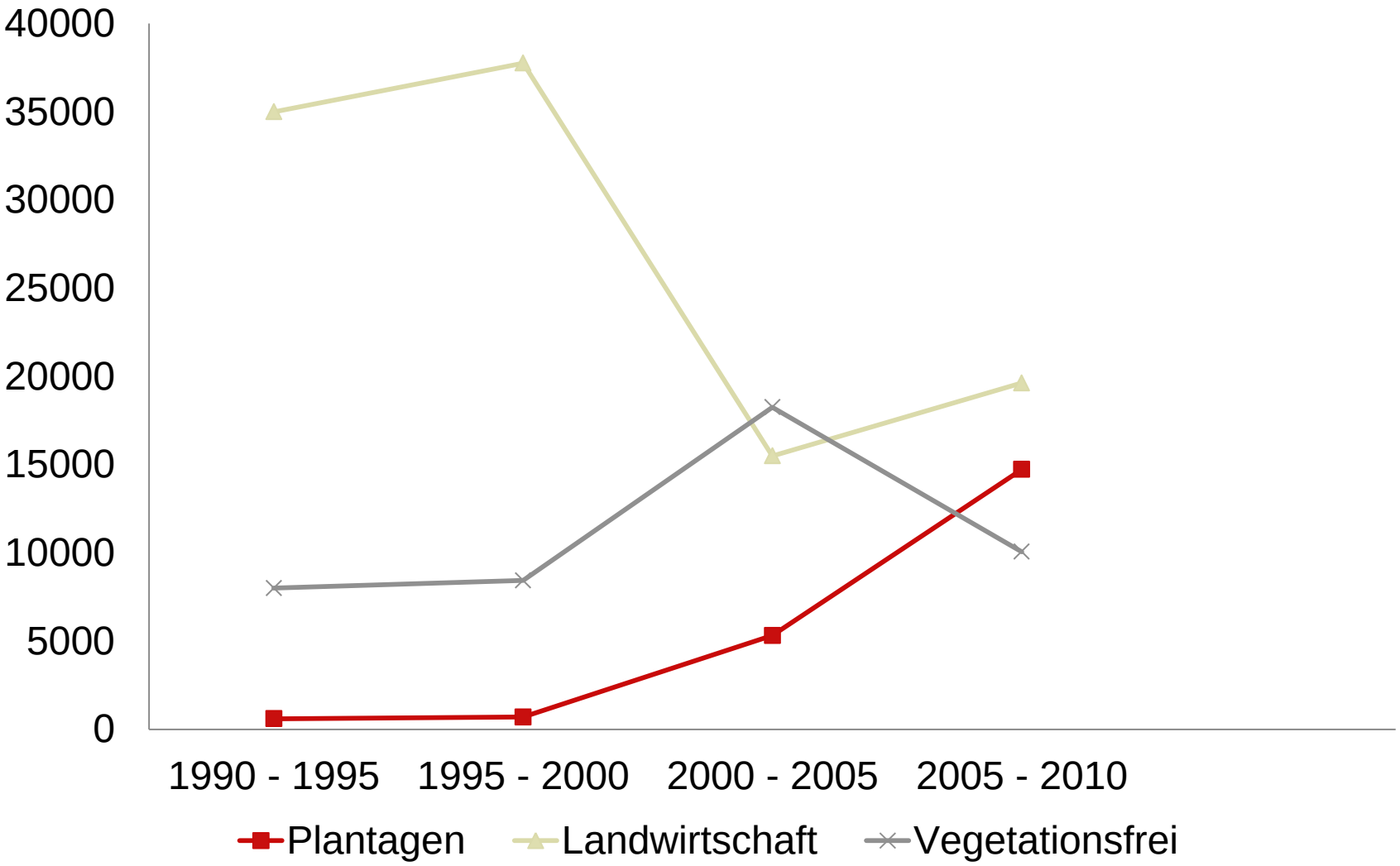
The three “model” Districts

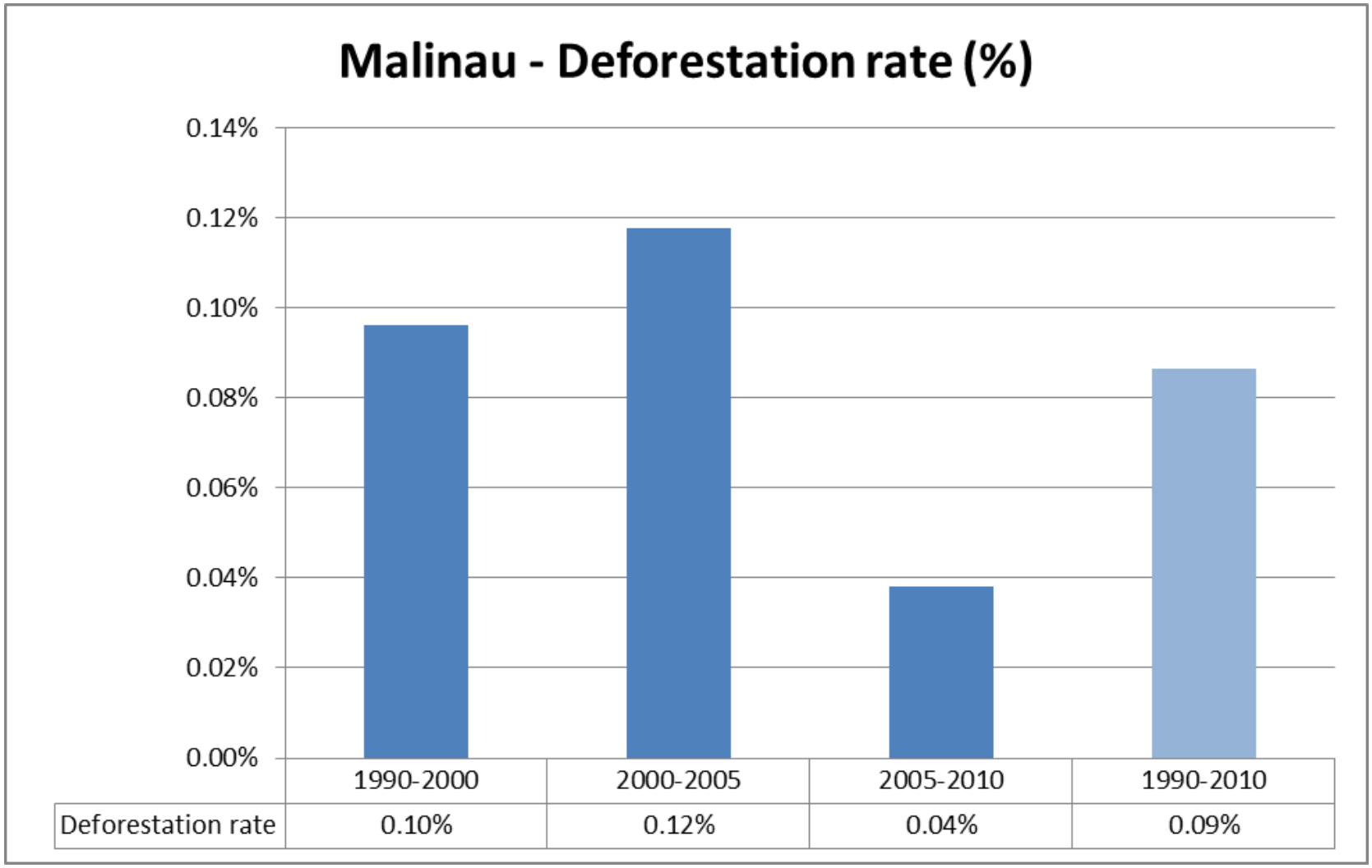


- **Malinau**
  39800 km2
  population
  62500
- **Berau**
  34100 km2
  population
  180000
- **Kapuas Hulu**
  29850 km2
  population
  186000

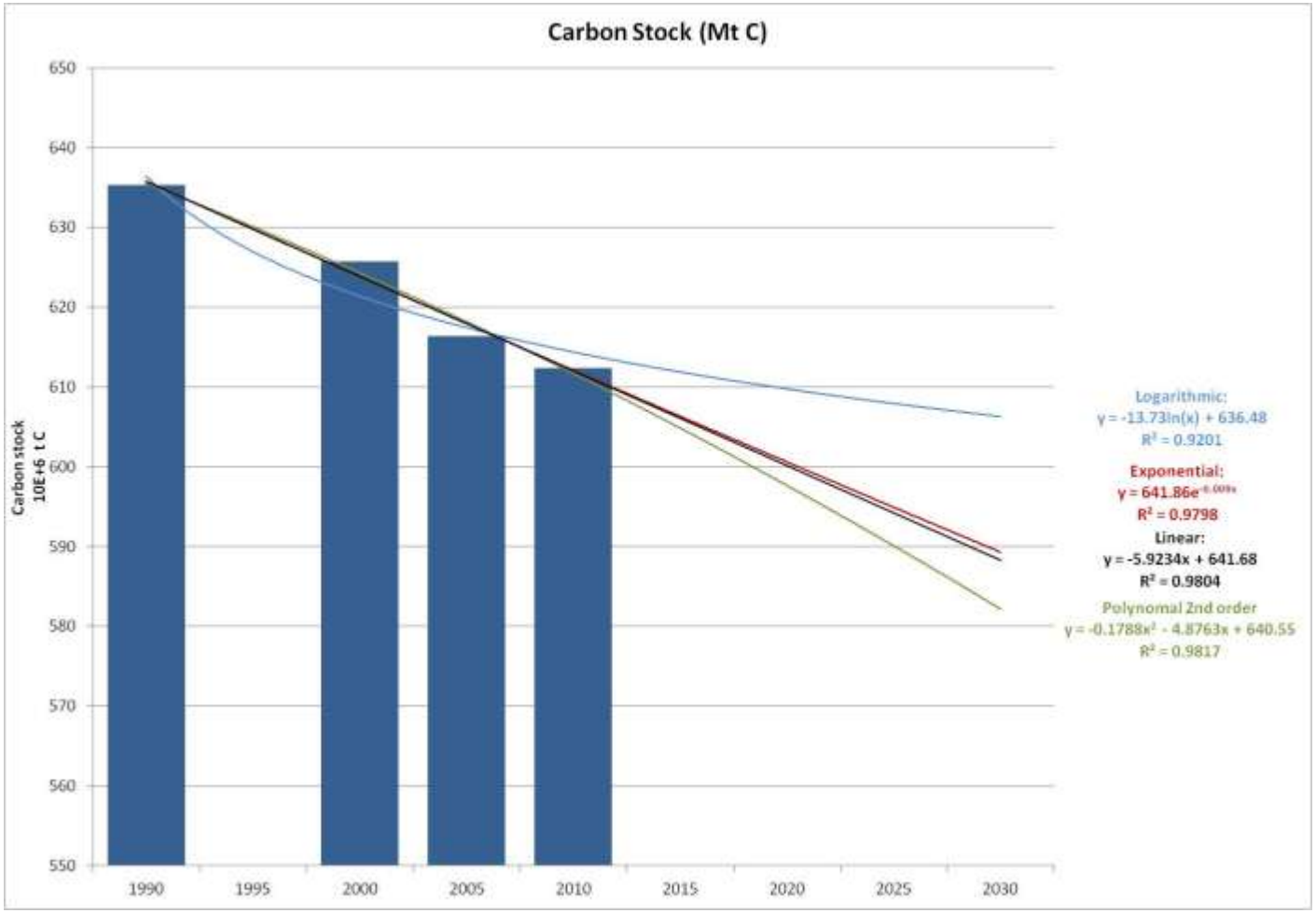
Historical Land-use change 1990 – 2010 in Berau



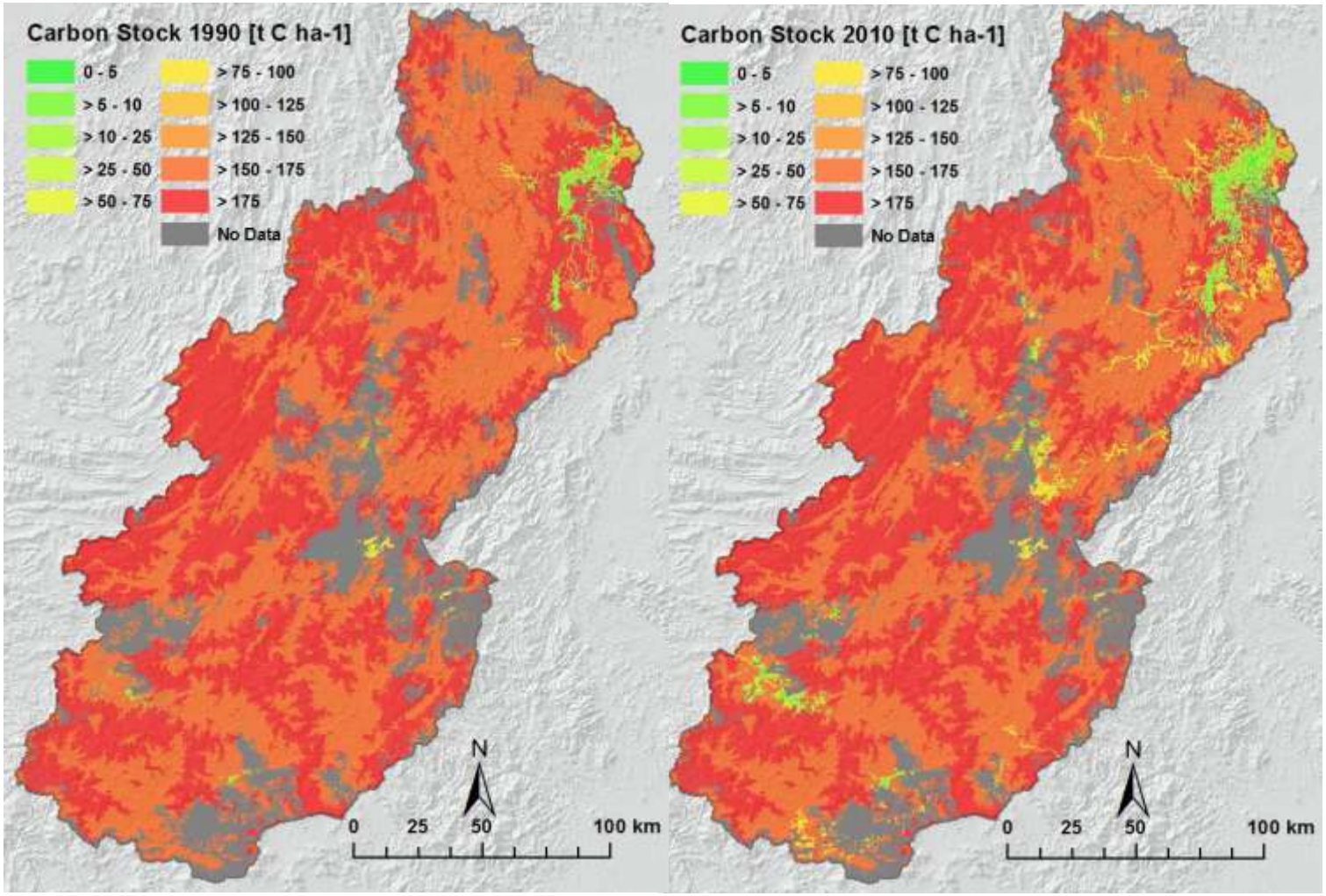

40000
35000
30000
25000
20000
15000
10000
5000
0
1990 - 1995
1995 - 2000
2000 - 2005
2005 - 2010
Plantagen
Landwirtschaft
Vegetationsfrei


Malinau - Deforestation rate (%)
0.14%
0.12%
0.10%
0.08%
0.06%
0.04%
0.02%
0.00%
1990-2000
2000-2005
2005-2010
1990-2010
Deforestation rate
0.10%
0.12%
0.04%
0.09%

Carbon stock development 1990 - 2010 and prediction 1990 – 2030 in Malinau

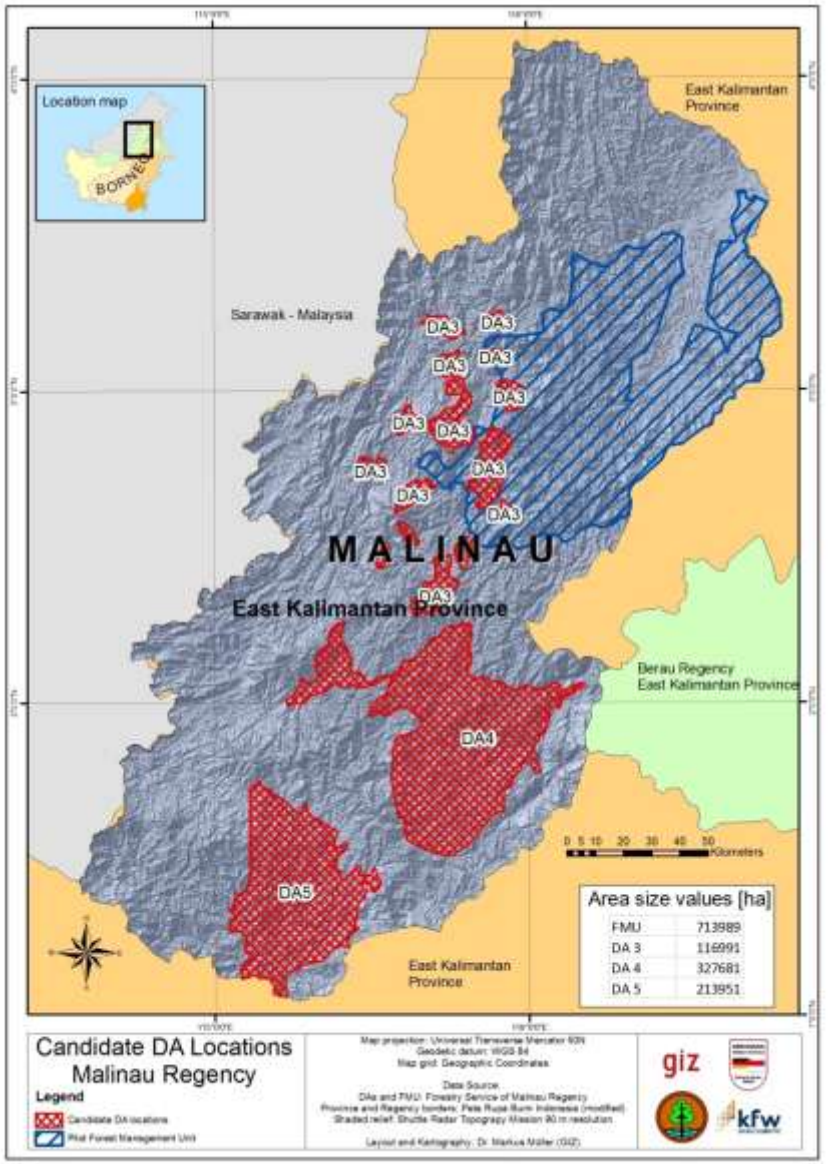


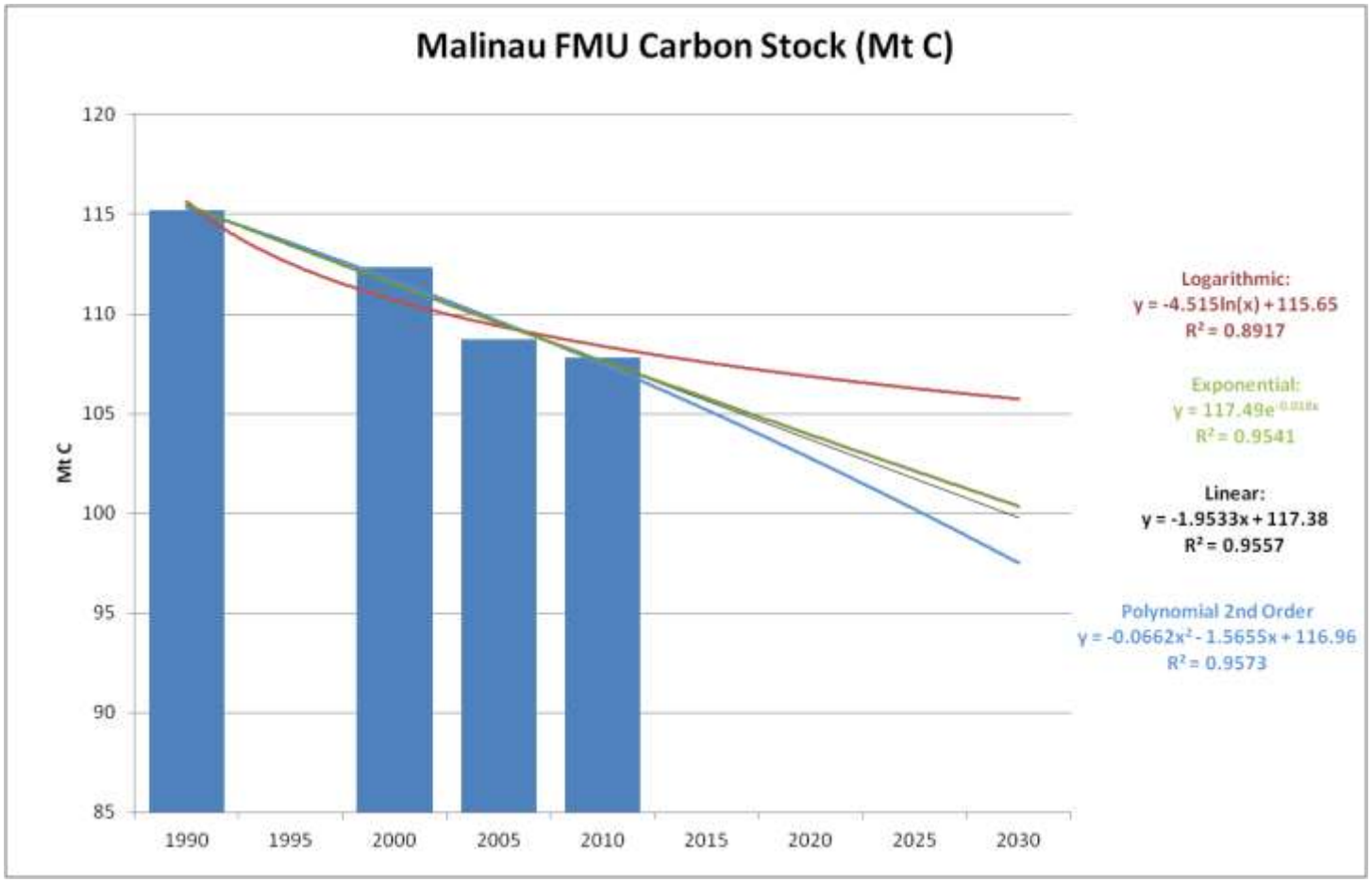
Carbon stock map for Malinau 1990 and 2010



The FMU concept:

- Clearly delineated area
- Independent operational Unit
- Manageable size

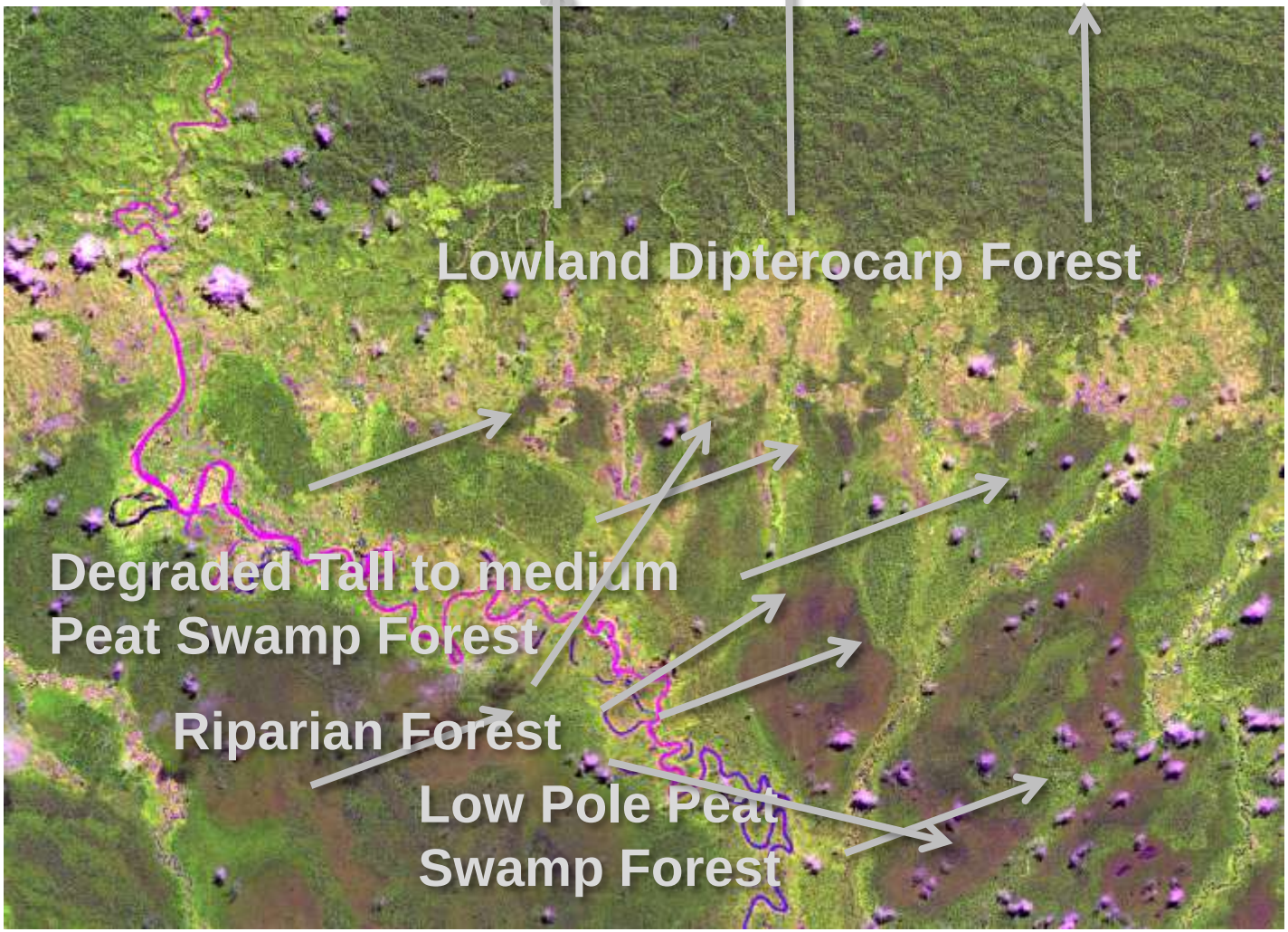




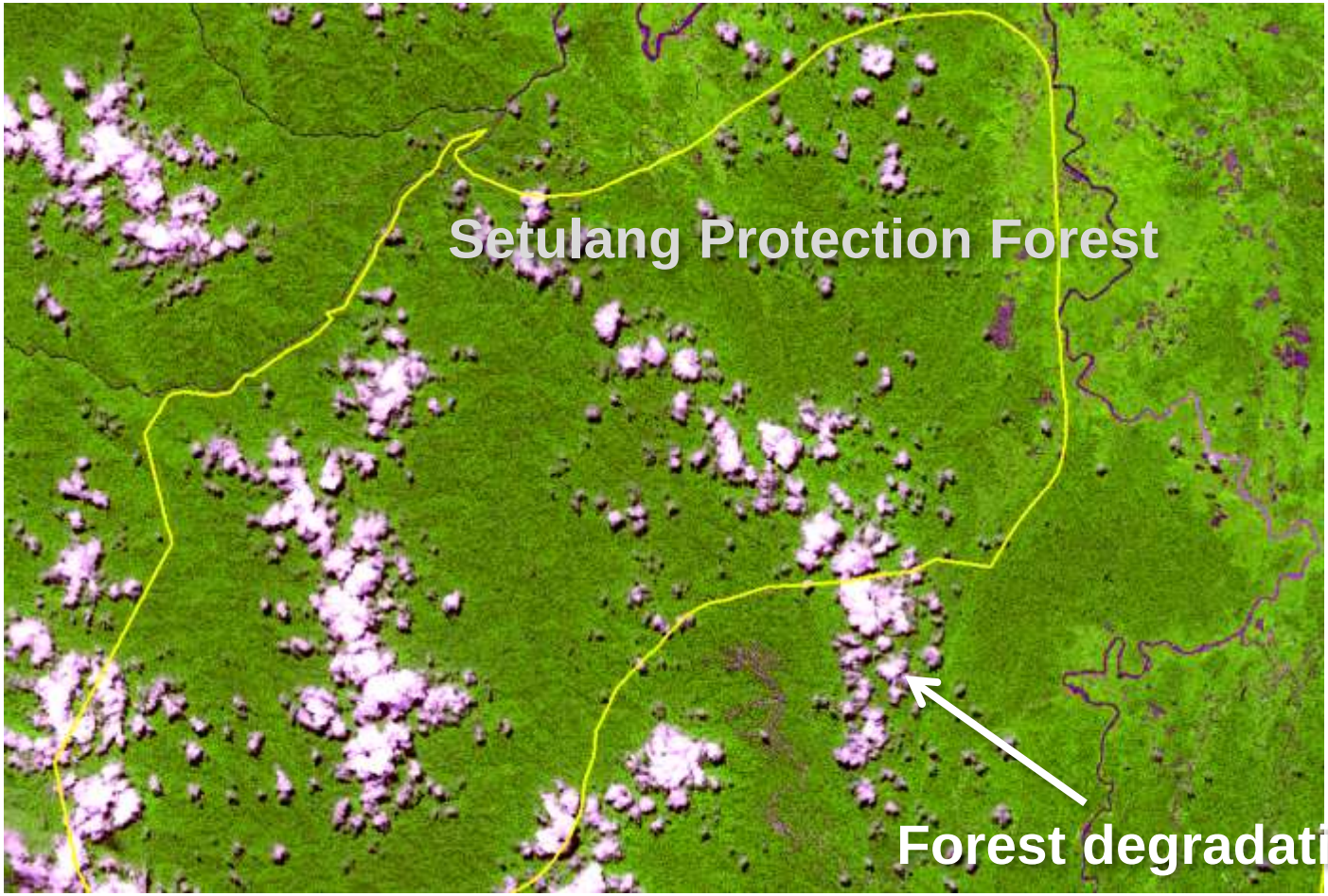
Carbon loss 1990 – 2010: 7,385,137 t C
Projected Carbon loss until 2030 (polynomial): 10,233,145 t C

approx. 10 %

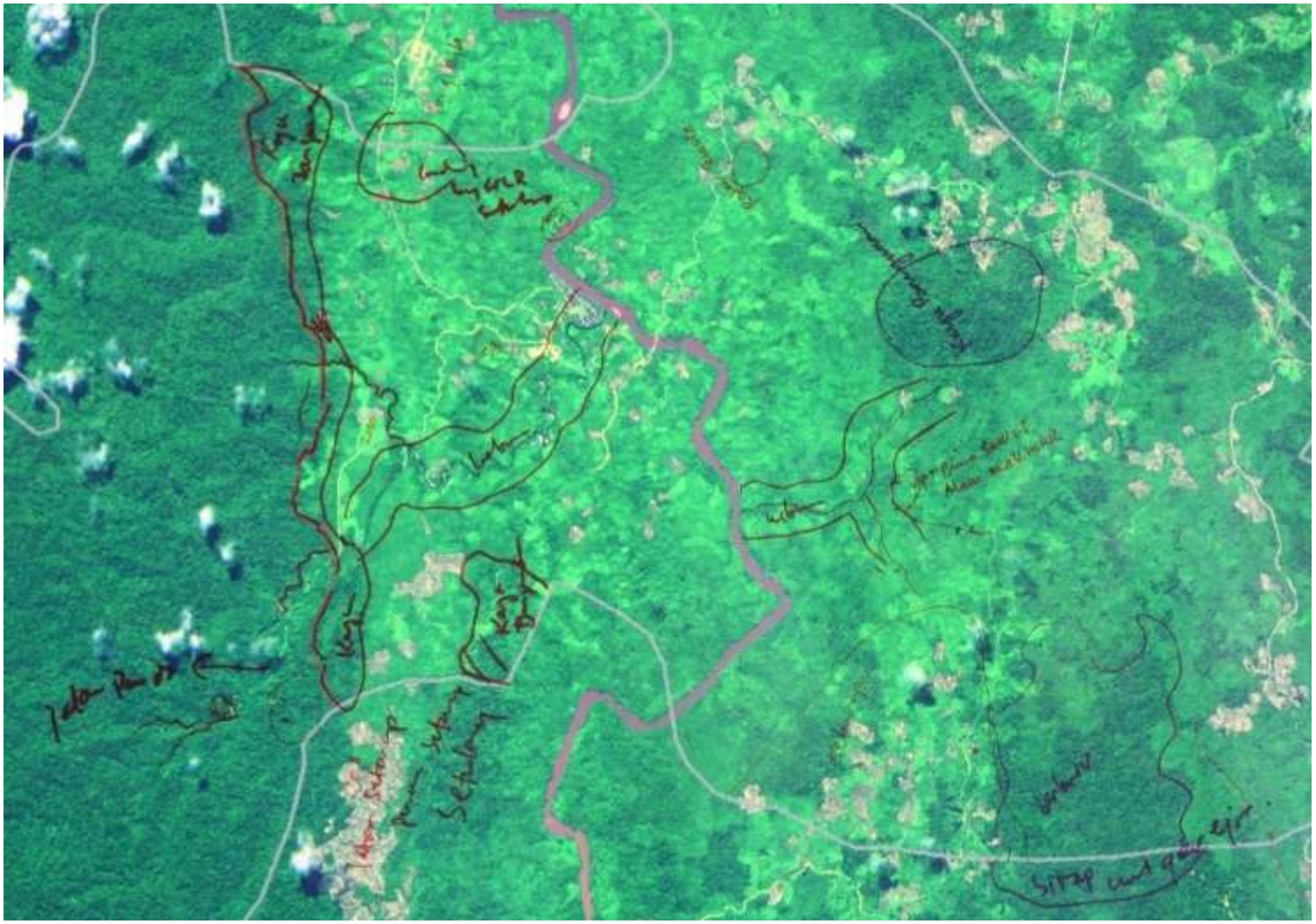
Different tropical forest types in a Rapid Eye image



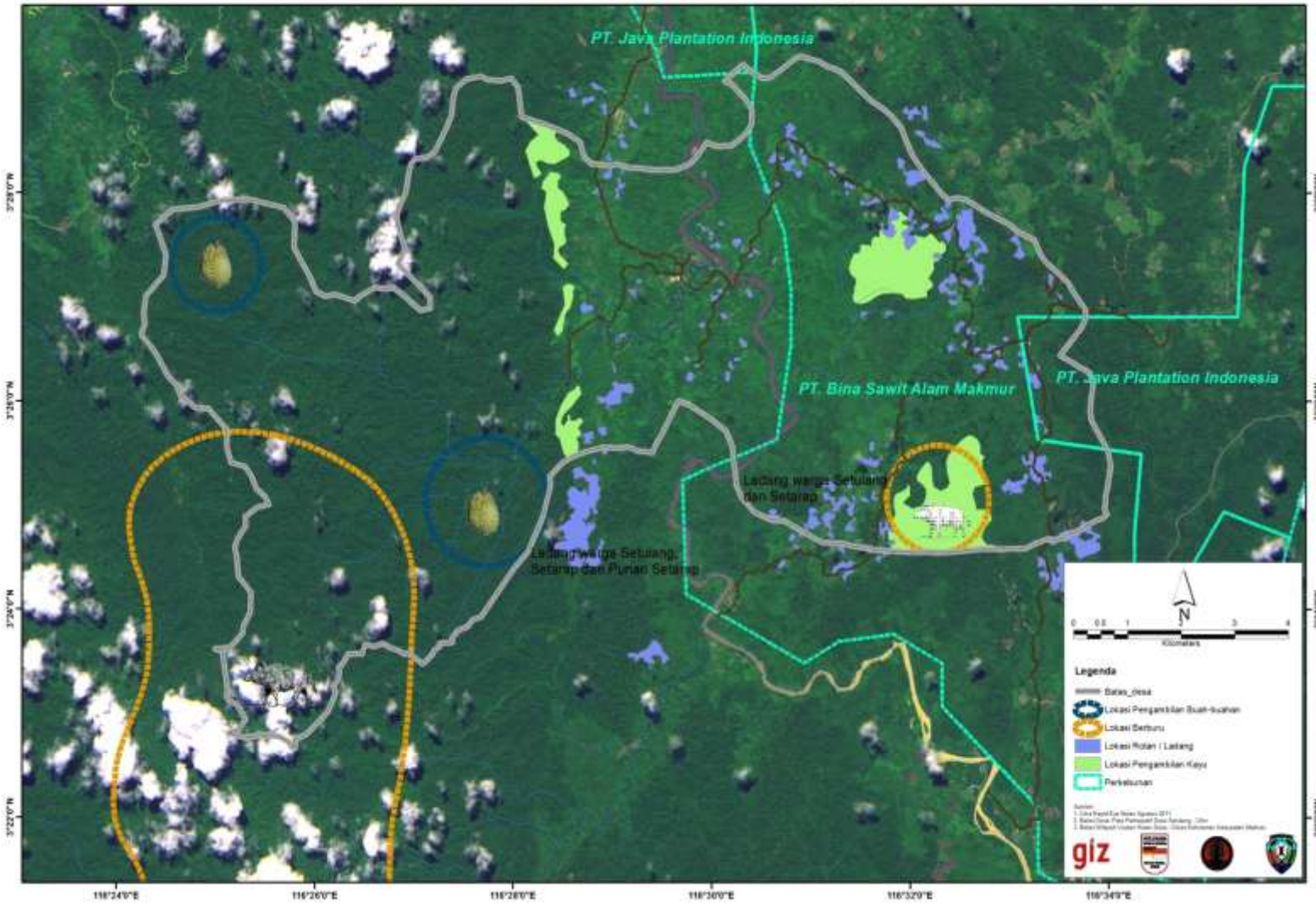
Protected village forest of Setulang and forest degradation close to the protected forest



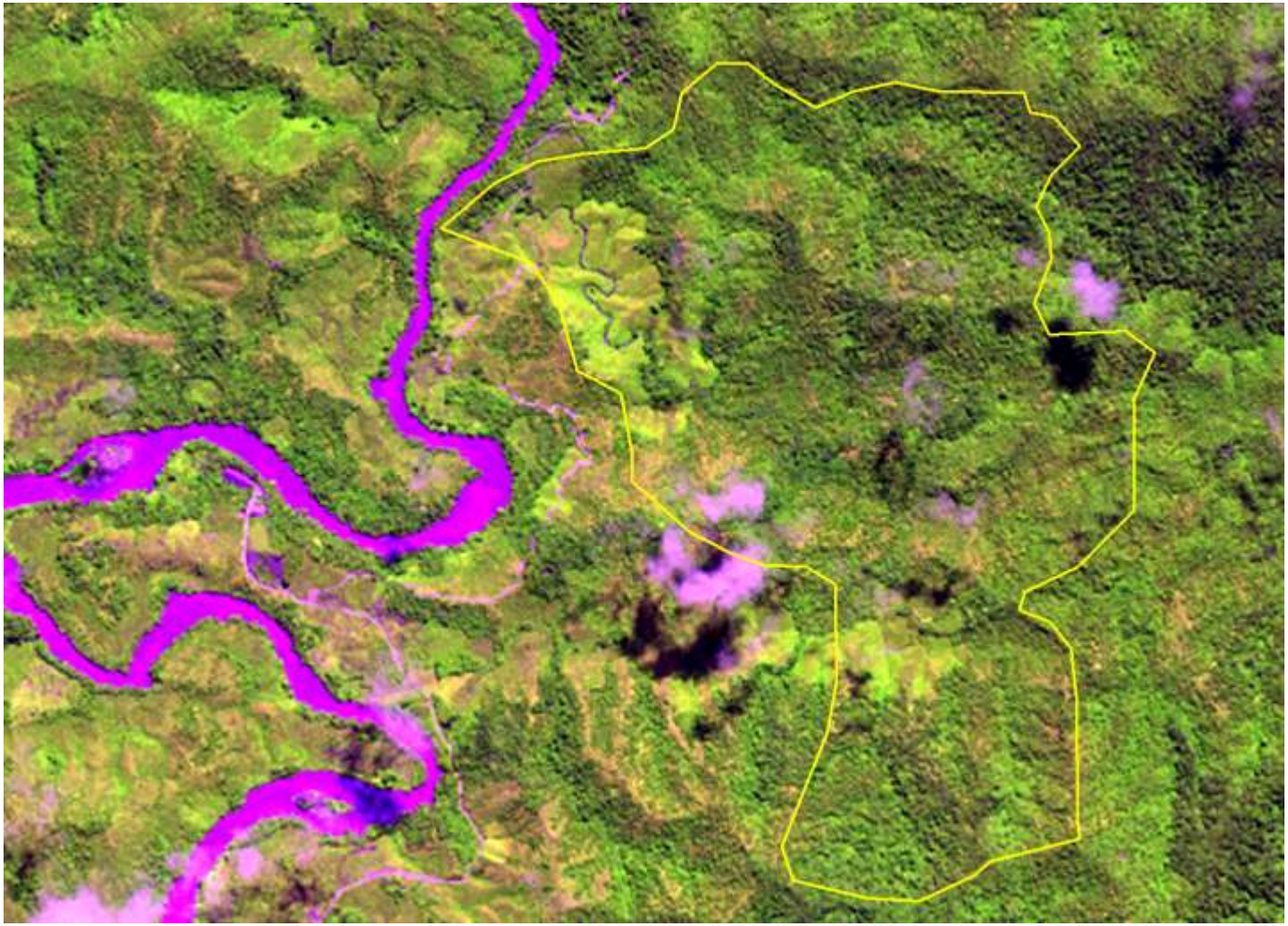
Participatory mapping in the community of Setulang, Malinau



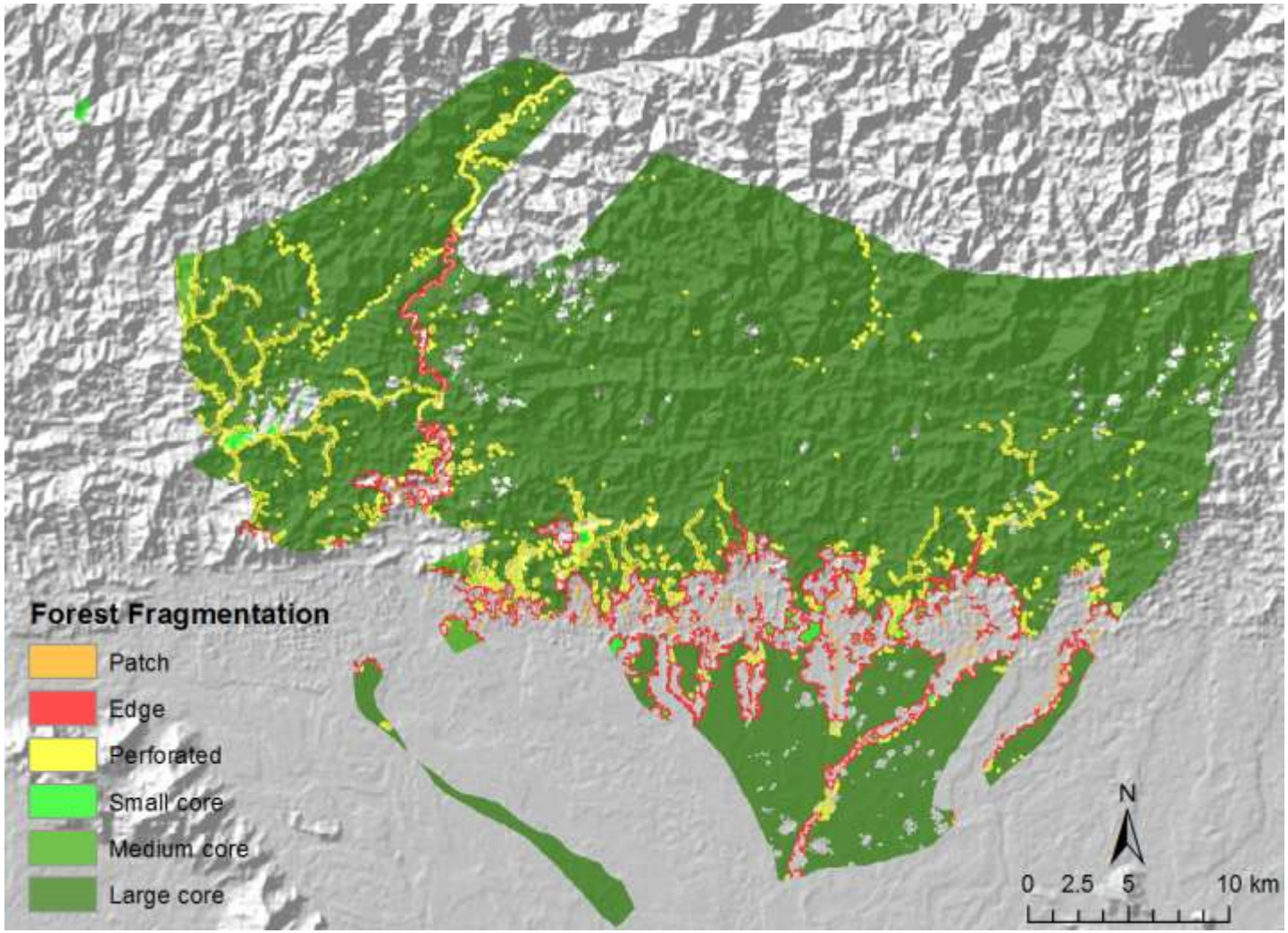
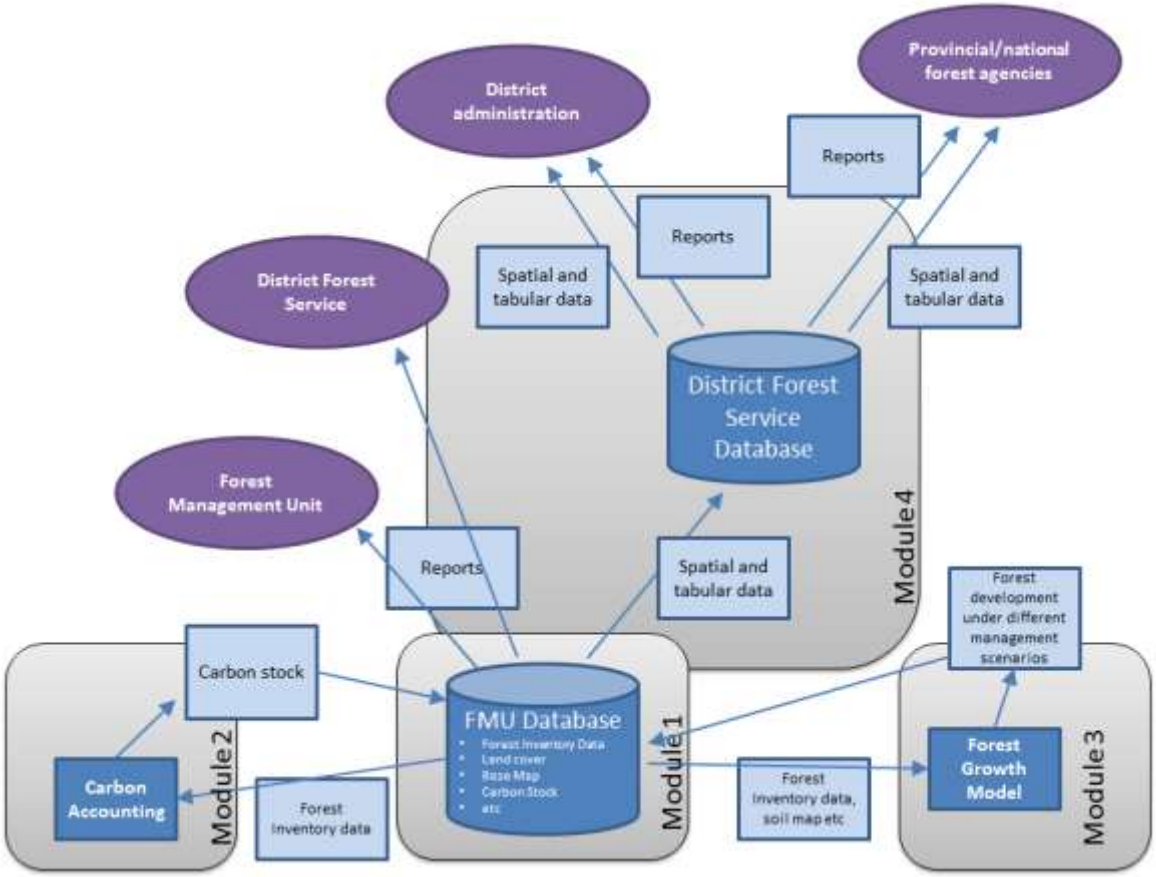
PRA Desa Setulang



Planing of a Micro-Hydro-Power station in Kapuas Hulu



Rapid Eye image showing fragmentation of forests



Data management and decision making system