On the Threshold of Market Transformation

Harnessing new mapping technologies

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AMBITIOUS

...make sustainable palm oil the norm

ACHIEVABLE
What if... new mapping technologies can help trigger market transformation?
Transparency

Information

Together

Ideas → Action

Transformative Impact

Technology

World Resources Institute
Three examples of how technology can provide credible transparent information to support transformative actions
EXAMPLE 1: New accessibility of old data can support customization and common understanding

Where is potentially suitable low carbon “degraded land” for expansion?
This map can be customized to prioritize or promote low carbon oil palm cultivation on “degraded land”
EXAMPLE 2: New monitoring technology can provide alerts and accountability

How can buyers and investors strengthen incentives for maintaining forest cover?
Transparent forest cover monitoring data can “alert” to changes and support accountable incentive mechanisms.
EXAMPLE 3: Locally appropriate technology can benefit companies and communities

How can producers obtain “free prior and informed consent”? 
Community mapping and monitoring using hand-held locally appropriate technologies can help avoid conflicts
What insights or technologies can you share to support market transformation?
Technology can only provide information. You can provide insights. Please share your ideas and help us take action!

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Project POTICO:
Sustainable palm oil on low carbon degraded land
About Project POTICO

- Project POTICO supports **sustainable palm oil production** and **improved forest management** in Indonesia.

- Our pilot project in Kapuas Hulu, West Kalimantan, links the **expansion of oil palm** cultivation on **degraded land** with sustainable forest management while **respecting local rights and interests**.

- Our research and outreach activities support market and policy incentives for sustainable palm oil production and improved forest management in Indonesia.
Pilot project & community mapping in Kapuas Hulu, West Kalimantan

• The pilot aims to divert a planned oil palm plantation from a forested area onto suitable degraded land in accordance with the principles and criteria of the Roundtable on Sustainable Palm Oil.

• After assessing local people’s interest in developing oil palm in their area, Sekala and WRI then began the process of community mapping in the pilot project area.

• Community mapping: identifying boundaries of traditional lands, important cultural locations, and current land uses, serves as a first step toward obtaining the free prior and informed consent of the community.

• For more information on Sekala, please contact Ketut D. Muliastra, Director, at kdeddy@sekala.net or +62 81 23 85 20 01
Our research

- Economics of **sustainable palm oil production** on degraded land
- Technical procedures for **identifying suitable land** for oil palm cultivation
- Legal procedures for **changing land status** in Indonesia
- Legal options for **locally-led sustainable forest management**
- National, provincial, and district **land use planning policies** and procedures
- **Free prior and informed consent** and community engagement
Our products: Forest Cover Analyzer

• Allows users to assess past forest cover change and present forest cover within an area of their choice.

• Three main functions:
  – “Analyze Forest Cover” lets users define an area and assess whether tree cover loss has occurred in that area since 2005, whether those changes occurred in primary forest, and whether it contains forest cover in 2010.
  – “View Maps” allows users to explore the maps included in the application
  – “Explore Field” allows users to view over 190 field verification data points

• The Analyzer was developed in partnership with Rainforest Alliance, South Dakota State University, Sarvision, and Puter Foundation Indonesia.
Our product: Suitability Mapper

• Allows users to identify potentially suitable degraded land for palm oil expansion.

• Based on a set of environmental, economic, social, and legal considerations.

• Users can customize their degraded land maps according to parameters of their choice.

• The results table displays potentially suitable areas for palm oil expansion according to custom user input.

• These maps can be used to guide field assessments to confirm or reject potential sites for a project.