

Summary of approach



- This is the methodology for an analysis of palm ISH driven deforestation and peat conversion in Malaysia and Indonesia to identify administrative areas with minimal independent smallholder driven deforestation (MSD) since the industry cut-off date of 2015
- There is limited farm or plot level data available, especially in the public domain, for existing Palm oil Independent Smallholders data
- Therefore, POCG followed a "filtering approach" to determine whether deforestation was linked to other drivers (Palm oil companies/estates OR any other drivers e.g. mining, cocoa, forest plantations, etc.)
- This filtering relied primarily on combining different publicly available datasets of other land cover types or uses to discount deforestation caused by other drivers. In addition, the GIS technicians conducted some visual checks using high resolution imagery from Planet to interpret and classify deforestation drivers.
- The remaining deforestation was then considered as potentially linked to ISH and for palm, and was then used to rank administrative units based on the amount of potentially ISH linked deforestation

Methodology to identify ISH palm deforestation



Steps followed to identify potentially driven deforestation by PO Independent Smallholders

Step 1

Identify forest & peat presence



Step 2

Prepare deforestation layer (2016 – 2022)



Step 3

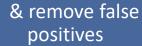
Identify deforestation drivers:

- 1. Other non-palm drivers
- 2. Palm oil companies
- 3.Independent smallholders (ISH)



Step 4

Confirm
deforestation/
peat conversion
linked to
Independent
Smallholders
(ISH)





Step 5

Rank & classify administrative units based on cumulative ISH deforestation (2016 – 2022)



JAMBI AS AN EXAMPLE

- Kota Jambi
- Muaro Jambi
- TanjungJambu Timur

Satellite imagery

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Forest cover (2015) Ministry of Environment and Forestry (MOEF) 1. Undisturbed tropical moist forest 2. Degraded tropical moist forest Esri, HERE, Garmin, USGS

Legend

District boundaries

EU TMF (2015)

JAMBI AS AN EXAMPLE

Identify Forest

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Legend Land cover classification (2015) Ministry of **Environment and** Forestry (MOEF) Primary Dryland Forest Secondary Dryland Forest Primary Mangrove Secondary Mangrove Primary Swamp Forest Secondary Swamp Savanna or Grassland Plantation Forest Dry Land Agriculture Mixed Dry Land Agriculture Ricefield Esri, HERE, Garmin, USGS

JAMBI AS AN EXAMPLE

Identify
already
existing
plantations/
agriculture
land in 2015

(This information allows to identify « false » positives)



Legend

Land cover classification (2015) Ministry of **Environment and** Forestry (MOEF)

Primary Dryland Forest Secondary Dryland

Primary Mangrove

Secondary Mangrove

Primary Swamp Forest Secondary Swamp

Savanna or Grassland Plantation Forest

Dry Land Agriculture Mixed Dry Land

Agriculture

Ricefield

Esri, HERE, Garmin, USGS

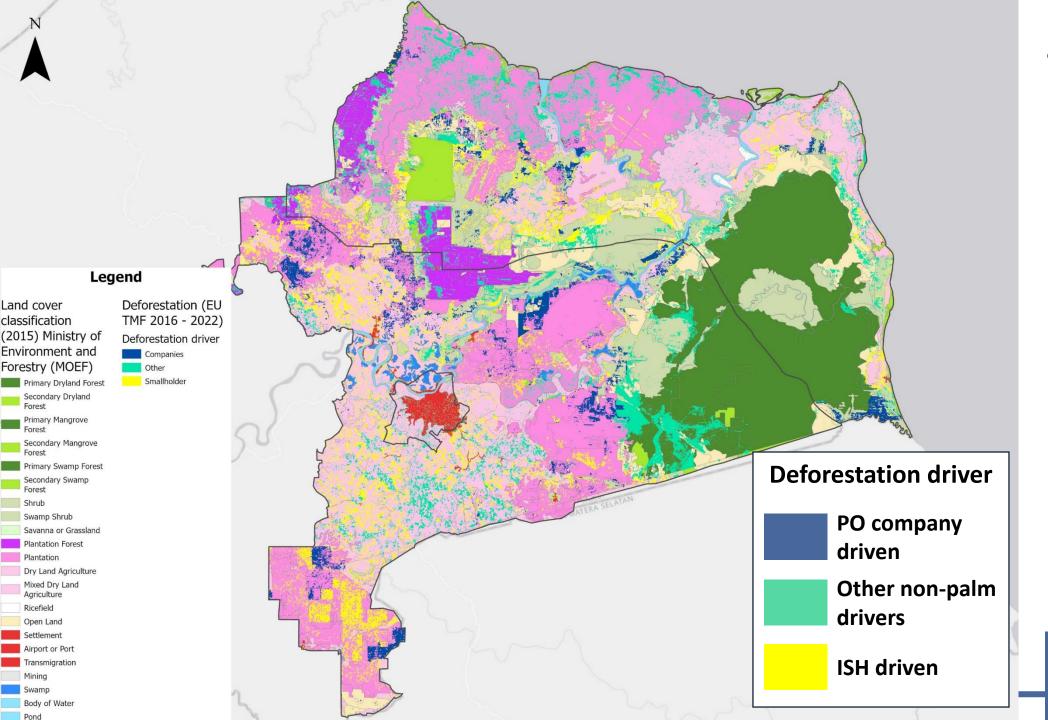
JAMBI AS AN EXAMPLE

Compare raw deforestation/ peat alerts (EU TMF) against the land cover map from 2015 (Ministry of **Environment &** Forestry)



Raw deforestation alerts



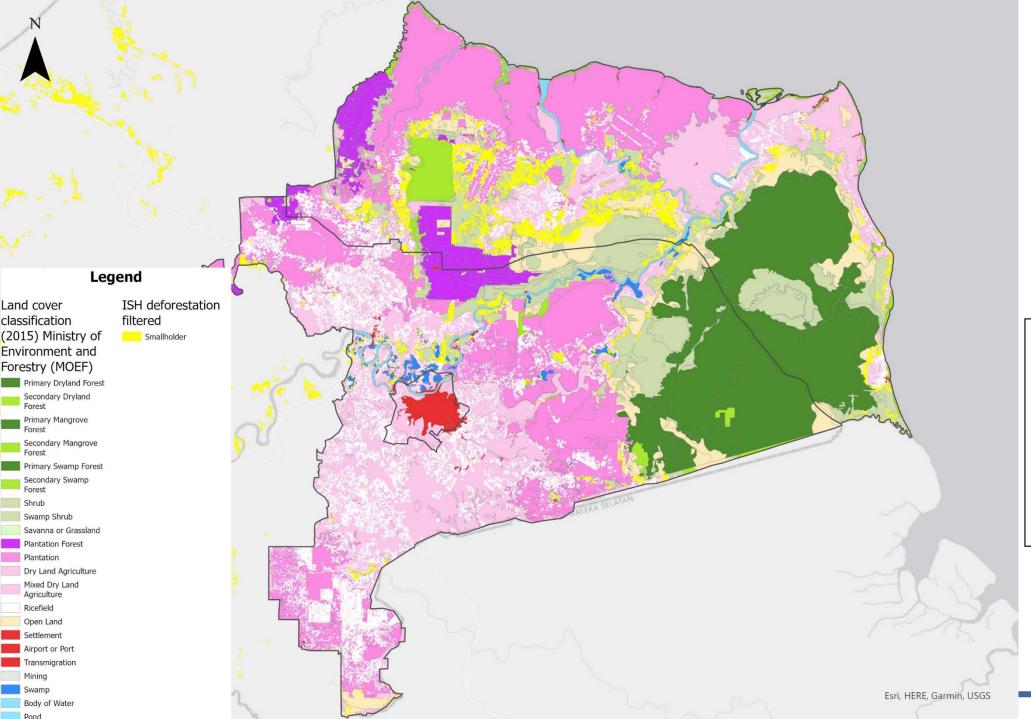


JAMBI AS AN EXAMPLE

Link deforestation/ peat conversion to the 3 main drivers:

- Other nonpalm drivers
- 2. Palm oil companies
- 3. Palm oil Independent Smallholders (ISH)

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JAMBI AS AN EXAMPLE

Final ISH deforestation layer



Confirmed Deforestation



False positives

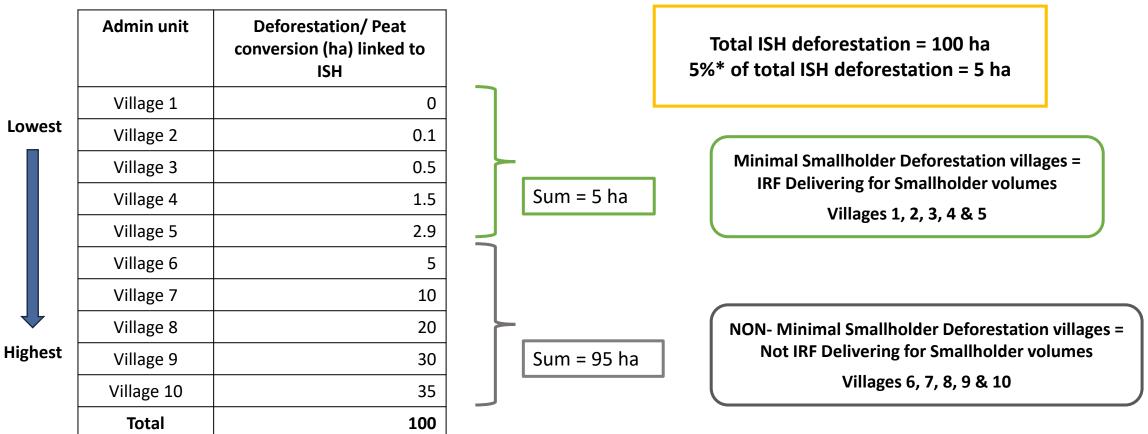
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How to determine « Mininimal smallholder deforestation » administrative units?



Following the <u>subnational risk benchmarking</u> for soy conversion in Brazil led by the Soft Commodities Forum, the POCG technical group followed the methodology below to identify neg risk villages (in Indonesia), mukims (in Peninsular Malaysia) and districts (Sabah and Sarawak). Please note the POCG group used a 5% threshold to identify "Minimal smallholder deforestation" administrative units. **This slide is just showing an example with made up data and 5% threshold to explain the process to external stakeholders:**

Administrative unit Risk Ranking



How did POCG decide on a definition for Minimal Smallholder Deforestation?



- Sourcing areas (defined at the smallest administrative unit) where PO is grown but the cumulative deforestation/conversion linked to Palm Independent Smallholders (ISH) since 2015 is minimal
- The threshold for "minimal" smallholder deforestation was decided by POCG companies, taking into account inputs from an extensive consultative process with technical service providers and external NGOs.
 - The threshold agreed by the companies was that administrative areas accounting for 95% of all ISH deforestation in Malaysia and Indonesia should be classed as "significant", and additional risk mitigation measures will be required.
 - Therefore, only administrative areas accounting for 5% of all ISH deforestation in Malaysia and Indonesia are classified as "minimal" smallholder deforestation areas.