

Inland Fishery

by Mohamad Amin

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International Symposium on Restoration of degraded peatlands: connecting science with policy and practice



13 June 2022 | 10:00 WIB (UTC+7)
Global Forestry Hall, CIFOR-MoEF office, Bogor

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International Symposium on Restoration of degraded peatlands:
connecting science with policy and practice

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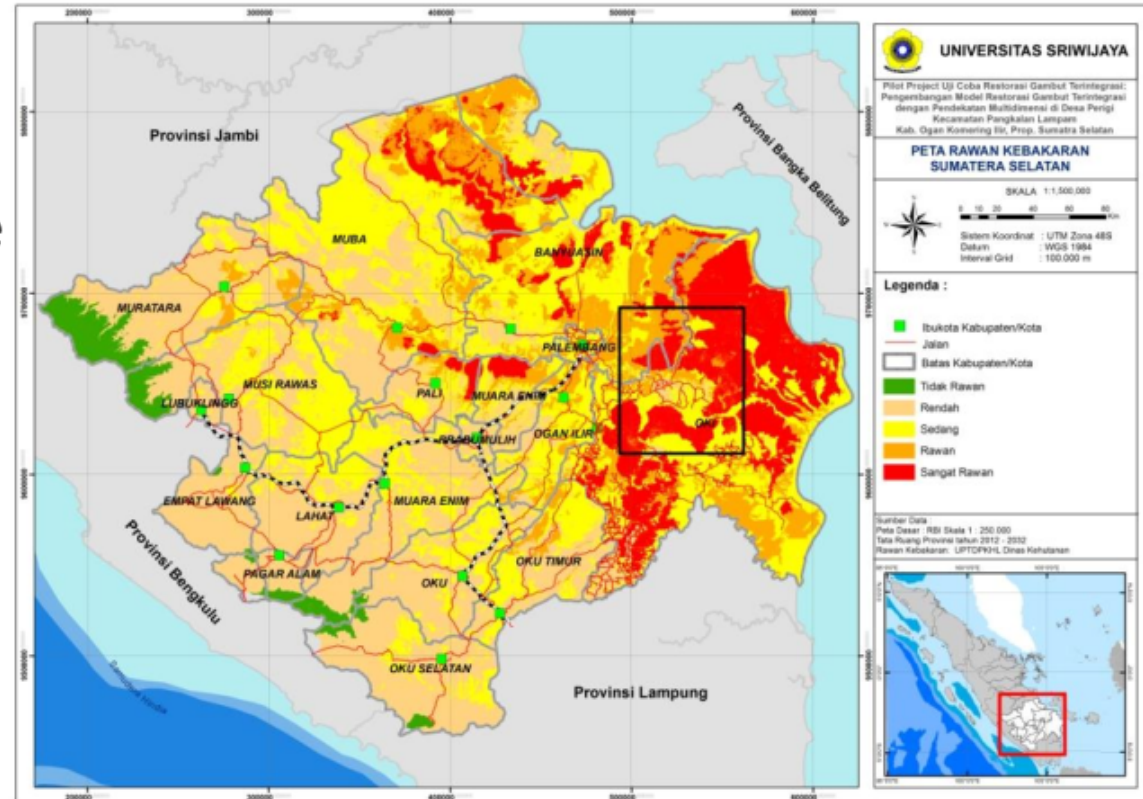
Inland fishery on degraded peatland : lesson from Perigi (Session 2)

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Background

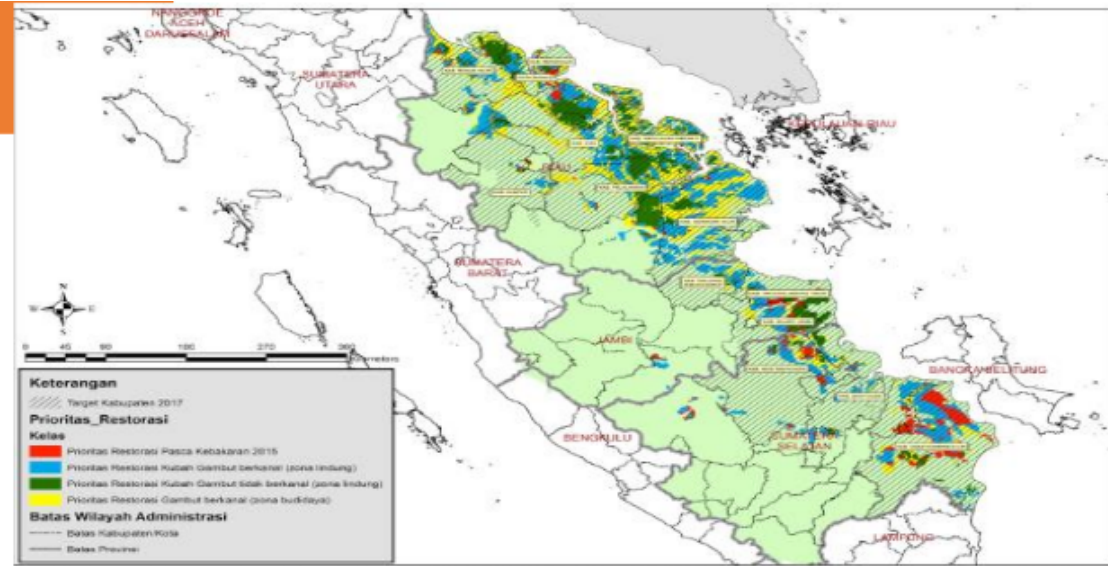
- Peatland is land that, when dry, is prone to fire.
- Rewetting
 - 1. for peat conservation and protecting land from fires,
 - 2. Potential to increase community income by aquaculture



Degradated Peatland

Peatland Restoration

- Revegetation
- **Rewetting**
- Revitalitation

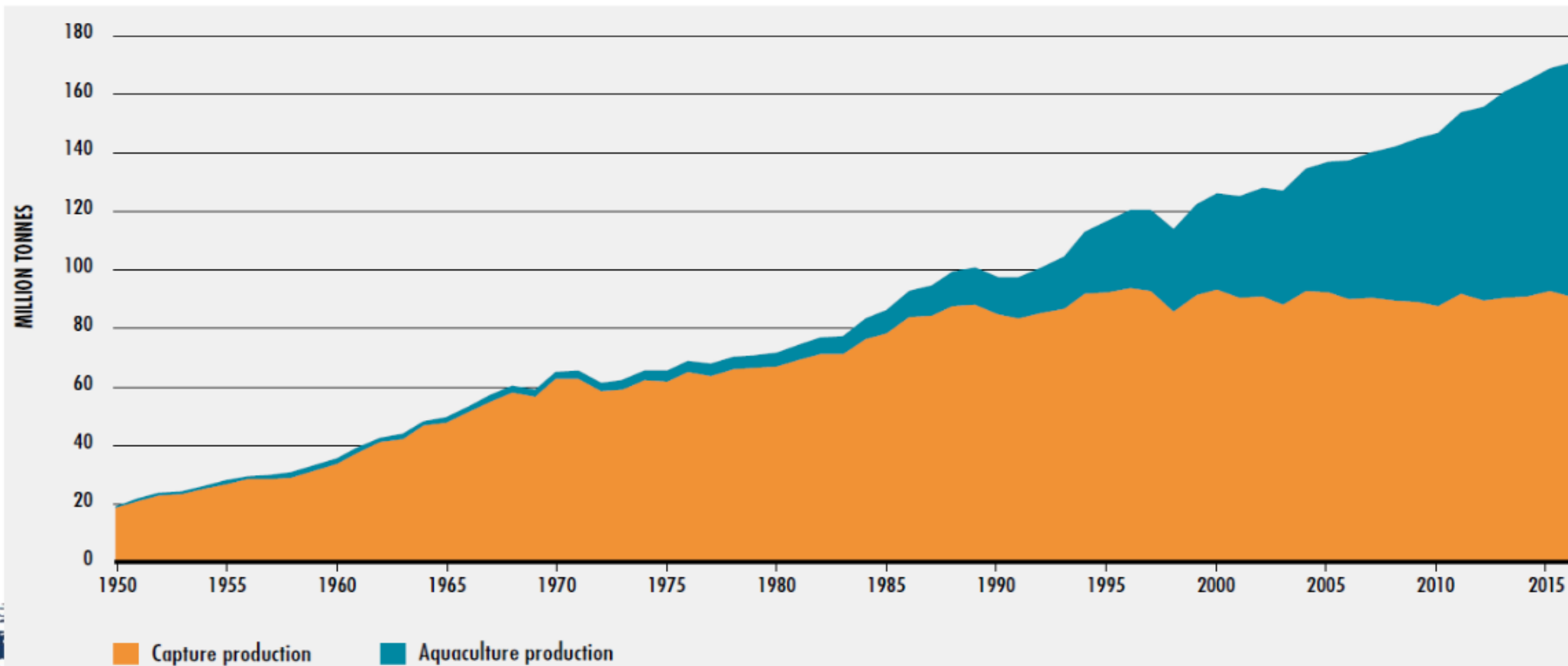


Sumber data: Gambut, Skala 1:250.000-IBISDLP, Kebijakan Hutan dan Lahan 2015-Kementerian Lingkungan Hidup Dan Kehutanan, Indikator Kehutanan Gambut Skala 1:250.000-Kementerian Lingkungan Hidup Dan Kehutanan, Penutup Lahan 2015-Kementerian Lingkungan Hidup Dan Kehutanan, Peta Rupa Bumi Skala 1:250.000-Heden Informasi Geospasial

Gambar 4-2 Lokasi Prioritas Restorasi di Sumatra



capture production VS aquaculture production



Challenges of developing fish farming on peatland

- 1. low pH in the water
- 2. Pyrite concentration
- 3. Transportation and infrastructure are limited.
- 4. People who are unfamiliar with the technique of fish farming

Aquaculture Development Strategy

1. Types of fish according to environment conditions

3. Training and Mentoring

2. Fish farming systems and technology

4. Colaboration

1. Types of fish according to environment conditions

- Native species
 - Betok
 - Gabus
 - Tembakang
 - tomang

- non-native species
 - Lele
 - Patin

2. Fish farming systems and technology

- Base on condition
 1. Cage system
 2. Pond system
 3. Integreted aquaculture

Cage Aquaculture system



- Easy and cheap construction
- 2. access is far from settlements
- 3. fish (catfish, climbing perch, snakehead)
- 4. Changes in hydrology, land status, need to be considered



Ponds system



- Relatively expensive construction
- Location close to settlement
- catfish

**Location : Desa Bukit Batu,
Pangkalan Lampam OKI (BRG dan
BKSDA, 2019)**

Agrosilvofishery system



- Integrated with agriculture, silviculture, and fishery)
- Hydrological conditions must be a concern



- Lokasi desa Perigi, Pangkalan Lampam OKT (CoE dan CIFOR 2020)

Aquaculture Production in Peatland Perigi on Agrosilvofishery system

- Climbing perch (*Anabas testudines*)
- Kissing gouramy (*Helostoma temminckii*)
- Snack head (*Canna striata*)
- Cat fish (*Clarias sp*)



Human resources



- Human resources must be prepared for local communities and field supervisors to develop aquaculture on peatlands successfully
- Training aquaculture system with local communities

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Colaboration

- BRG , Unsri and Local Government
- BKSDA and BRG, CIFOR
- etc



Conclusion

- Peatland have great opportunities for aquaculture activities with various cultivation systems
- Need training and assistance for the success of the activity
- Synergy between related agencies is needed



Thank you

Inland Fishery

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