Food and Agriculture Organization of the United Nations

KEMENTERIAN KELAUTAN DAN PERIKANAN

gef 30 years

IFish Project

GCP/INS/303/GFF
Mainstreaming Biodiversity Conservation and Sustainable Use into Inland Fisheries Practices in Freshwater Ecosystem of High Conservation Value (IFish)

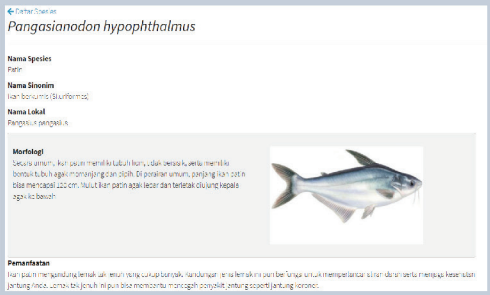
IIFGIS

Integrated Inland Fisheries Geographic Information System

IIFGIS is an inland fisheries information system based on Indonesia 's WPP-PD. The system integrates Geospatial Information Systems and statistical data to support monitoring system and assessment for inland fisheries.

IIFGIS Main Functions

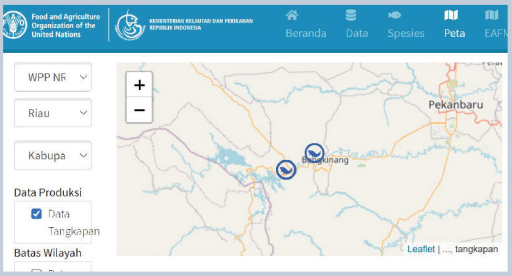
Fish Species Profile



IIFGIS is equipped with the ability to manage fish species databases by displaying identification keys and some general information.

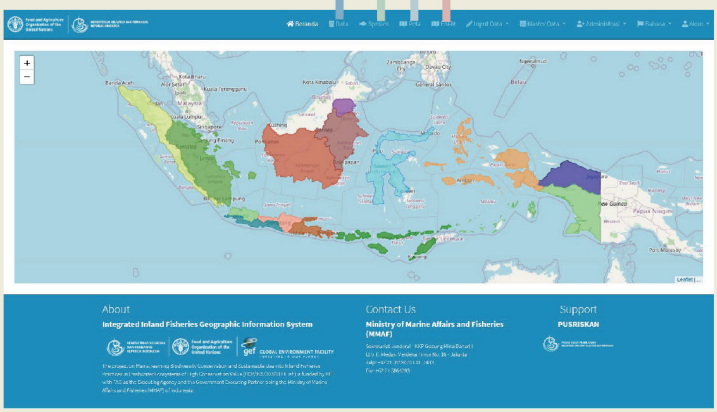
Spatial Data Visualization

IIFGIS is able to process and display fishery location points, administrative boundaries, distribution of cages, distribution of water quality, and various other spatial data.



Species

Map

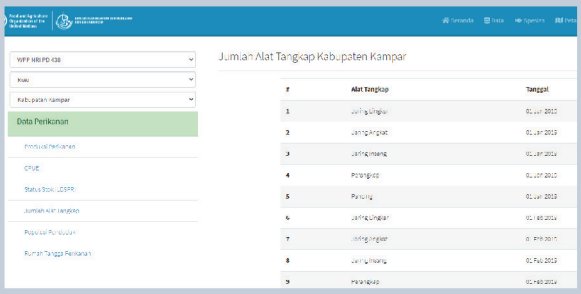


Data

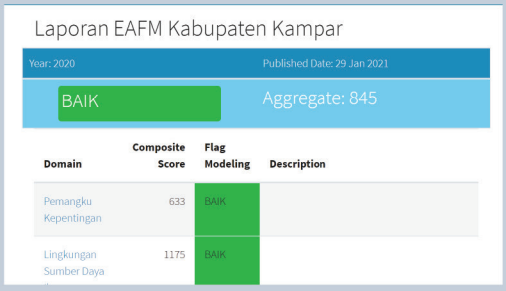
EAFM

Inland Fisheries Statistic

IIFGIS is able to input, store, and visualize various types of inland fisheries statistical data quickly and easily



EAFM Status Assessment



IIFGIS is developed to support assessors in assessing EAFM status in an area efficiently with a semi-automated system

Inland Aquatic Biodiversity Monitoring and Assessment

Challenges

- Production data requirements at the species level
- The lack of formal studies on the value of inland fisheries and ecosystem services provided by inland aquatic ecosystems
- The lack of comprehensive mapping of inland aquatic ecosystem

Strategy

- Strengthening monitoring and assessment to monitor the dynamics of inland fishery resources
- Preparation of Species Identification Guidelines for community and stakeholders
- Calculation of inland aquatic conservation indicators in accordance with National Guidelines
- Regular data collection and participatory mapping
- Development of *Integrated Inland Fisheries Geographic Information System* **(IIFGIS)** to manage inland fisheries data

Capacity Building

In order for the strategy to work well, a series of capacity building activities for stakeholders are planned

1. Training on the use of the Species Identification Guidelines at five demonstration site locations
2. Biodiversity assessment training and inland fisheries data collection at five demonstration site locations
3. Training on spatial data processing, remote sensing, and visualization on thematic maps at the national levels
4. IIFGIS trainings for user and admin in local and national level
5. Inland aquatic EAFM assessment in five IFish project's district locations