KEMENTERIAN KELAUTAN DAN PERIKANAN

EXPECTED

TECHNOLOGY TO DETER IUU-F

EXISTING PLATFORM

The Integrated Maritime Intelligent Platform

Automatic notification to FVs' owners through Whatsapp

Monitoring
Monitoring of vessels movement through VMS and AIS

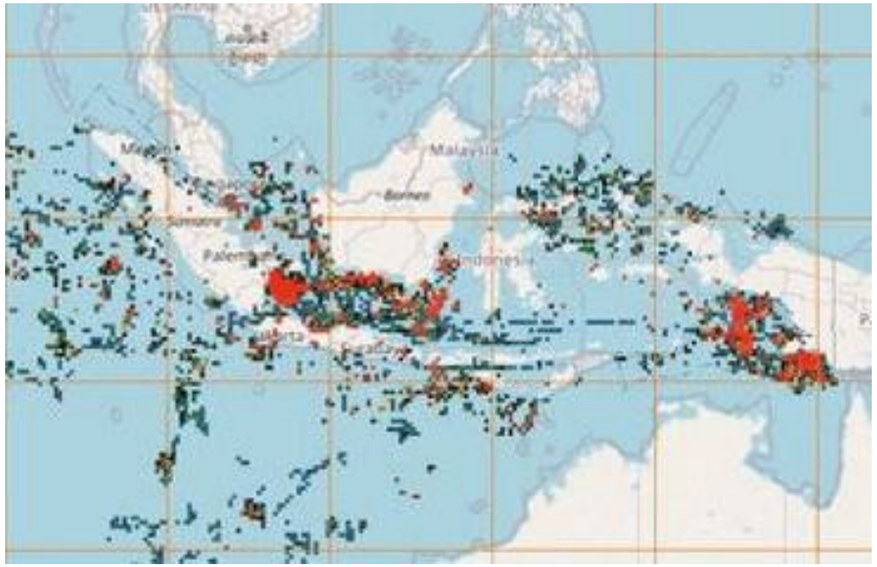
Alert
Automatic violation detection using **geofencing** feature

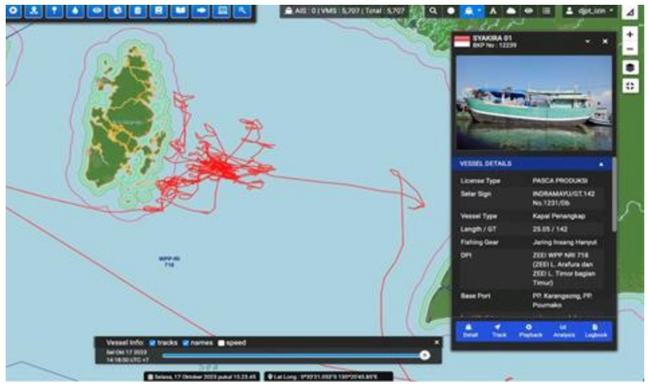
Dashboard
A feature to watch the actual Fishing Productivity

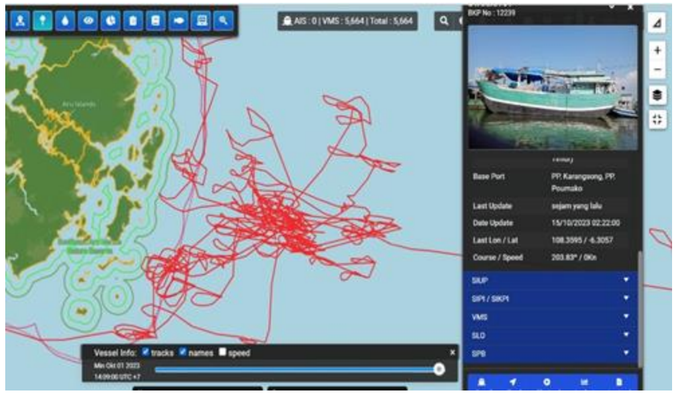
***Monitoring** page*

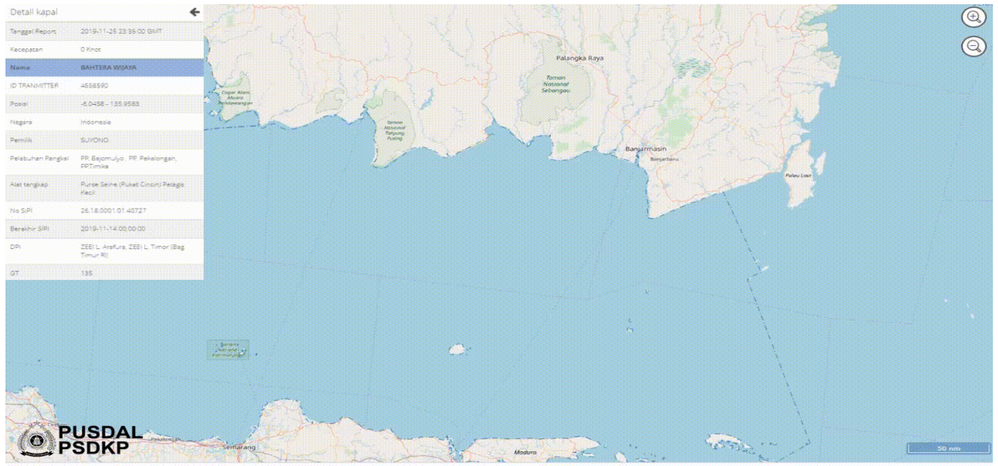
***Alert** page*

***Dashboard** page*



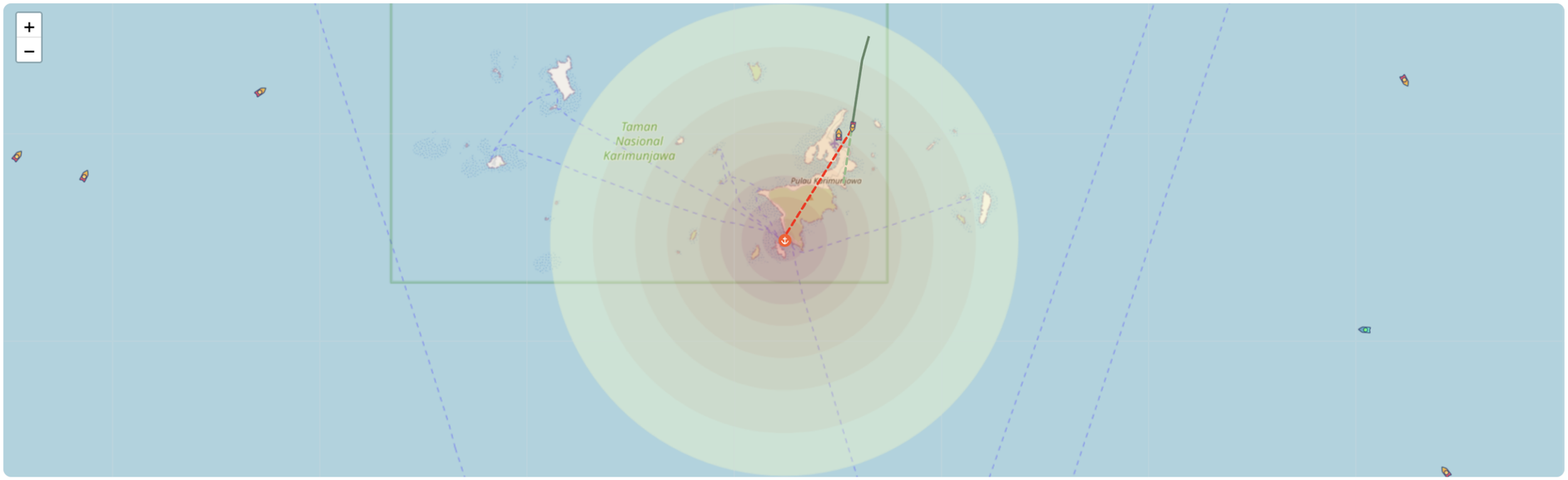






VESSEL TRAFFIC CONTROL

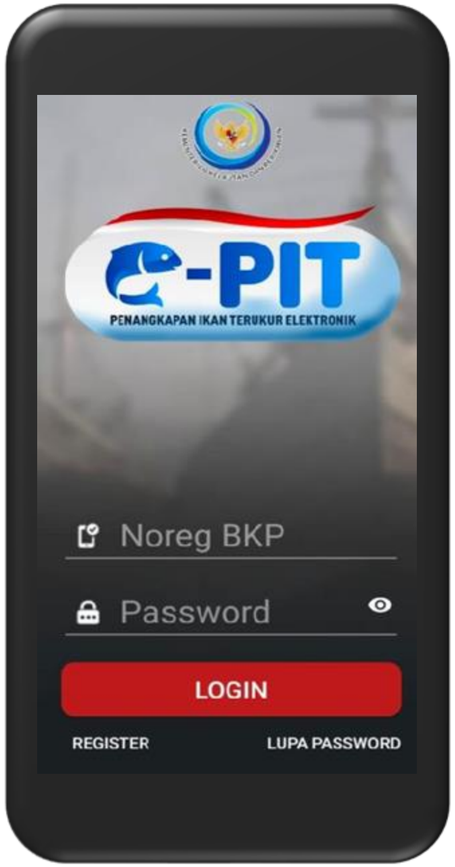
KKP - PPP. Karimunjawa - 04/09/2024

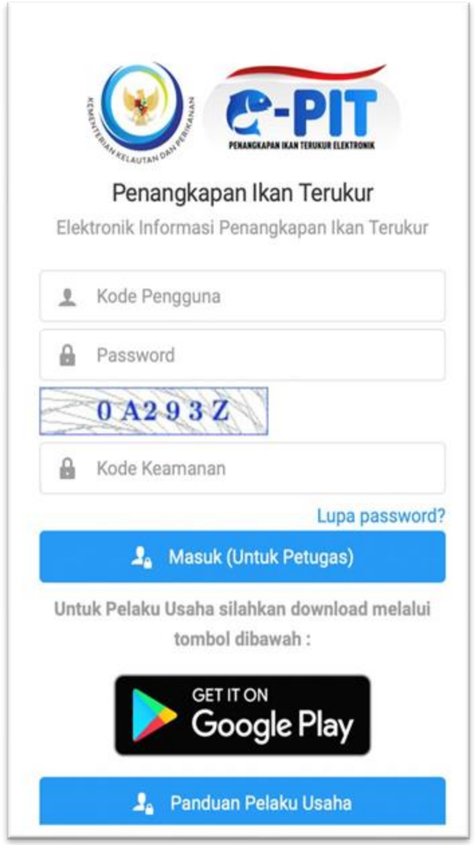


ETA (WIB)	BKP	ID TRANSMITTER	VESSEL NAME	PORT ORIGIN	BASE PORT	FISHING ACTIVITY	DPI VIOLATION	CROSS CONSERVATION ZONE	NEAR COASTLINE	VMS OFF	TRANSHIPMENT	PORT VIOLATION	RISK INDICATOR	LOGBOOK VALIDITY	CATCH (TONNAGE)	LAST LOGBOOK ACTIVITY	STATUS
09:27:32	8669	31215159	SURYA BAHARI	PP. Tegalsari	PPN. Pekalongan, PPP. Tegalsari	1	0	0	0	0	0	0	Low	0.00%	8.77	25/03/2024	APPROACH

- ALERTING VESSEL APPROACH TO PORT
- RESUME OF THE TRIP
- RISK PROFILING

The Development of the Integrated Fishing apps ”e-PIT”





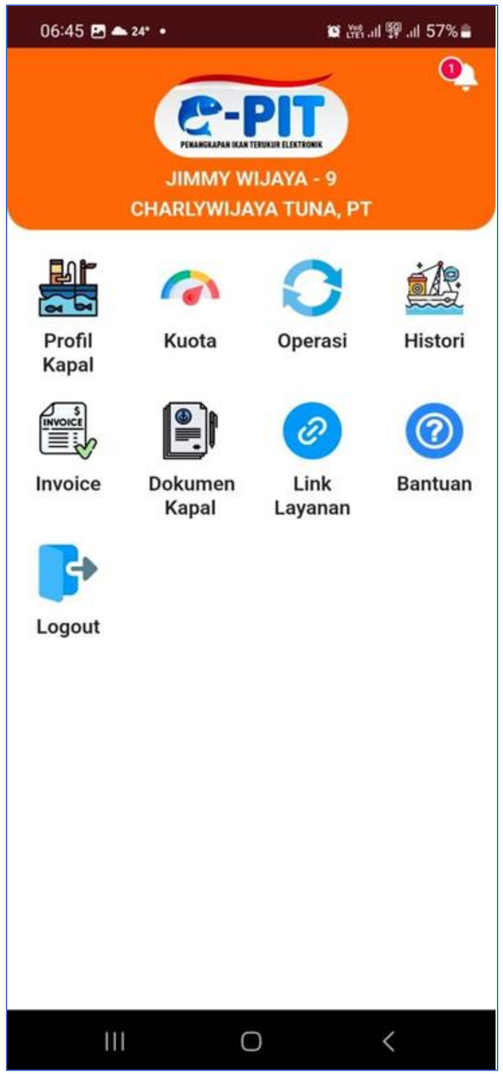
- **Integrated Services**

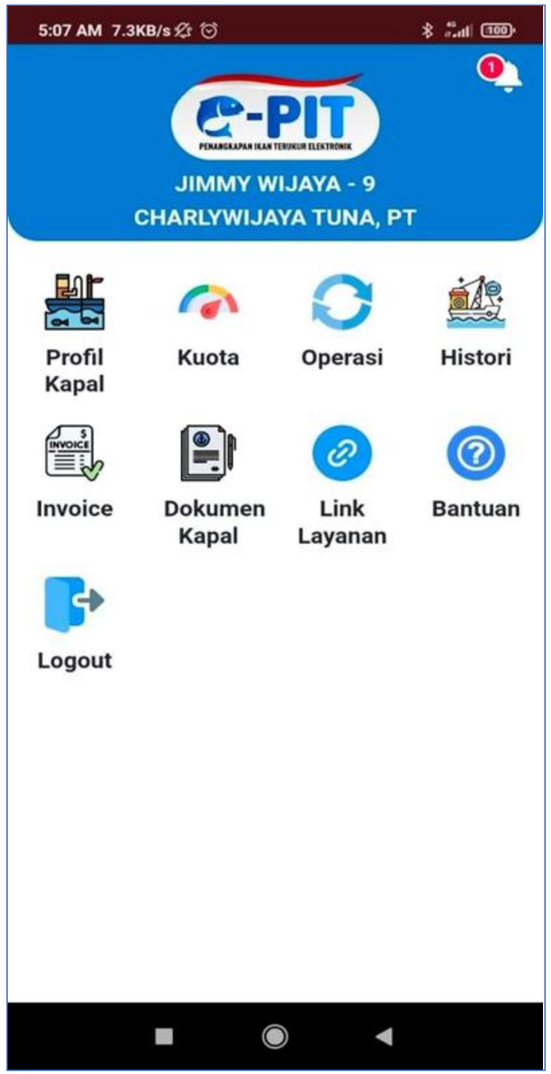
1. SILAT : License Data
2. SIPALKA : Fishing Vessels Registration Data
3. TemanSPB : Sail Permit
4. eSLO : Legal Operation Standard of Fishing Vessels
5. Simphoni : Notification of billing payment of non-tax revenues
6. PIPP : Fish landing data
7. SILOPI : electronic fishing log book

- **Platform**

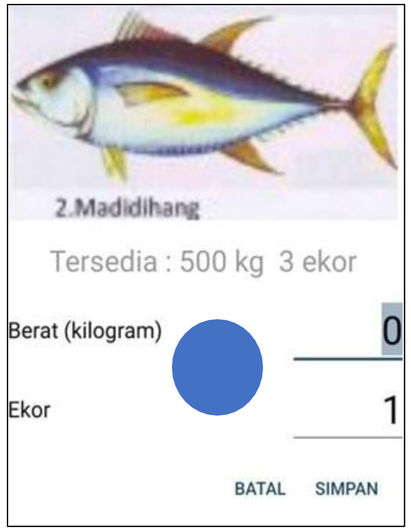
1. Web base : **https://integrasi.djpt.kkp.go.id/pit**
2. Android Base : **https://bit.ly/e-PIT**

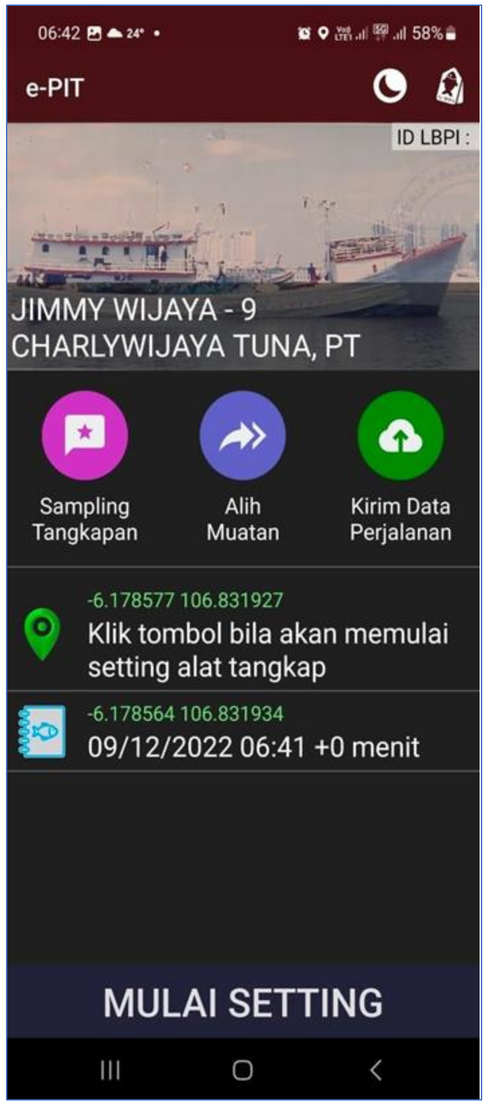
The Development of the Integrated Fishing apps ”e-PIT”





The Development of the Integrated Fishing apps ”e-PIT”





Electronic Fishing Log Book

- **Offline feature**
- **Position is generated automatically by the GPS**

Source: DG of Capture Fisheries

ECPECTING IMPROVEMENT

E-DNA

What is Environmental DNA (eDNA)?

Environmental DNA is a relatively new and exciting tool in marine science. It involves collecting and analyzing genetic material—such as DNA fragments—present in the water.

These fragments can come from fish, plants, and other marine organisms that shed cells or tissues into their environment. By analyzing water samples, scientists can identify the species present in a given area without needing to capture or observe them directly.

HOW EDNA CAN REVOLUTIONIZE MONITORING

Enhanced Detection Capabilities

- One of the primary advantages of eDNA is its sensitivity
- eDNA allows us to detect species with a high degree of accuracy and even at low concentrations, providing a clearer picture of marine biodiversity and the presence of IUU fishing activities.

Improved Surveillance

eDNA can be collected from water samples, making it possible to monitor large areas more efficiently. This is particularly useful in remote or difficult-to-patrol regions. By analyzing eDNA, we can quickly identify the presence of target species or detect species that are indicative of illegal fishing activities.

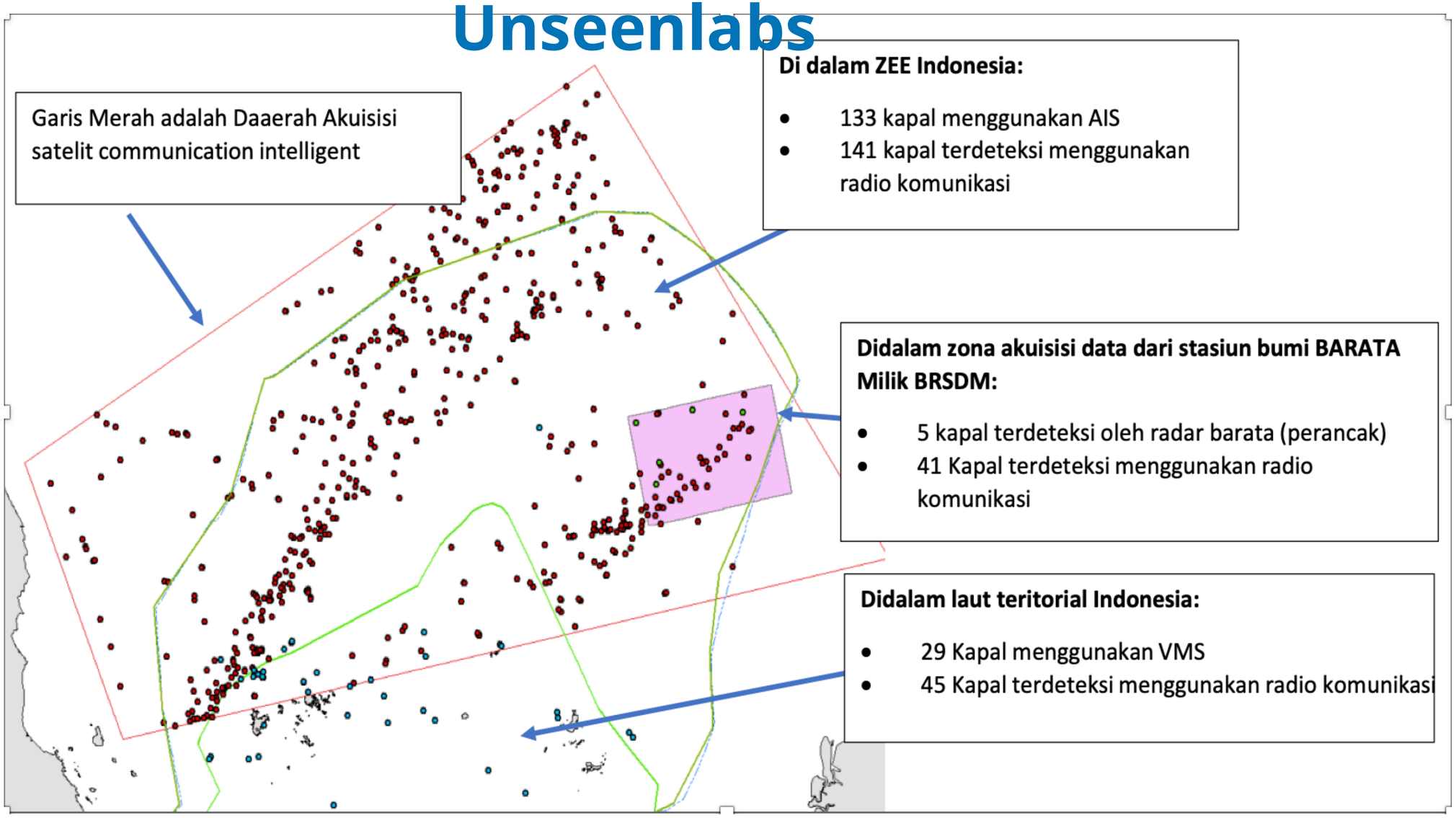
RADIO DETECTION FINDER

All fishing vessel using the radio to communicate

Cover wider area, compare to radar satellite

Detected object 8 times more compare to radar satellite

Indonesia Pilot Project With Unseenlabs



THANK YOU
ขอบคุณ