

# THE 11TH CTI-CFF SENIOR OFFICIAL' MEETING

## The Planning of CTI Center Manado To Be A Research Center For Pacific Ocean Rim

Gedung CTI Center, Manado, 02-03 Desember 2015

**Budi Sulistiyo & Widodo Pranowo**

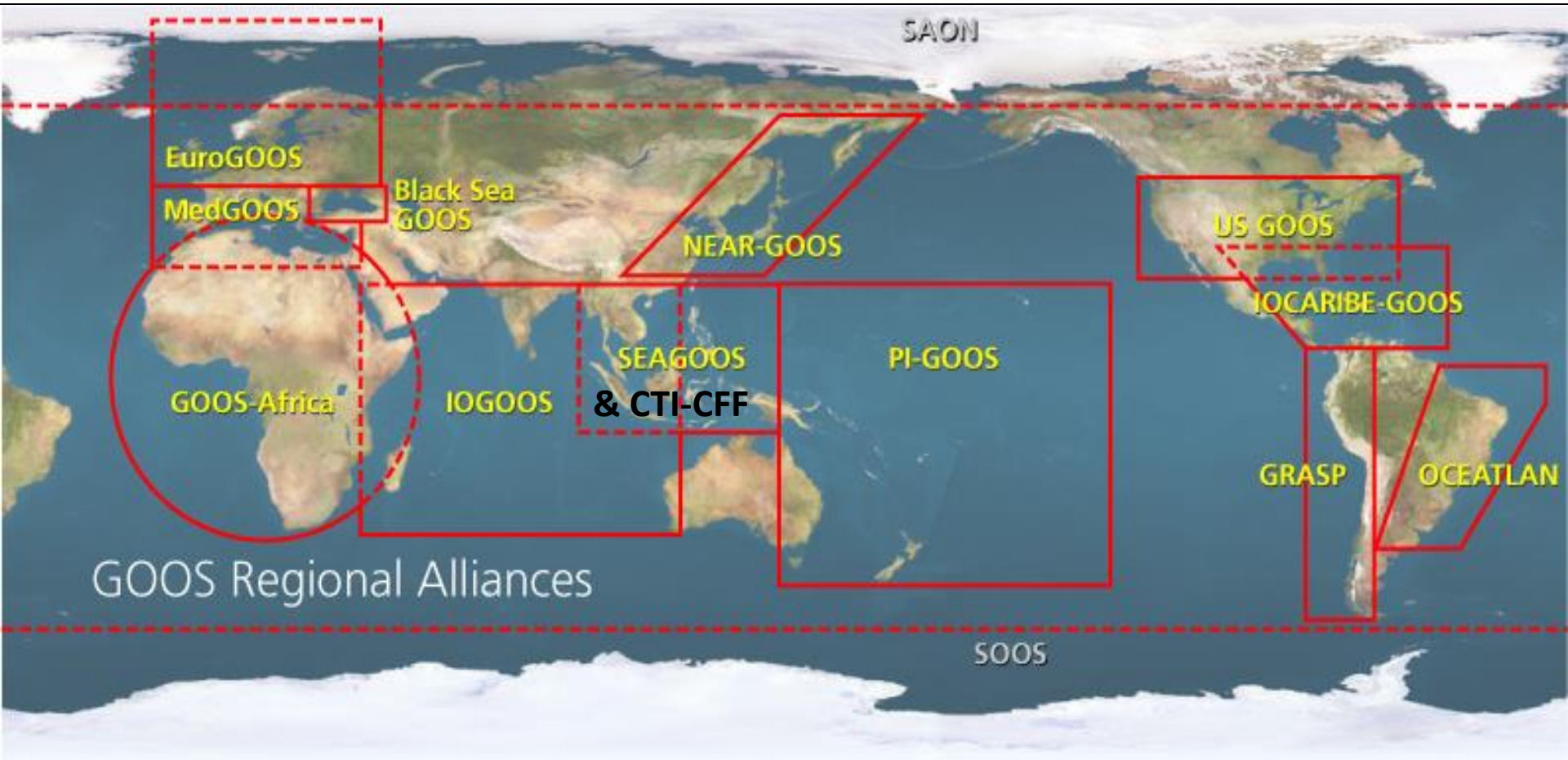
**Ministry of Marine Affairs & Fisheries - Indonesia**



**CORAL TRIANGLE  
INITIATIVE**  
ON CORAL REEFS, FISHERIES AND FOOD SECURITY

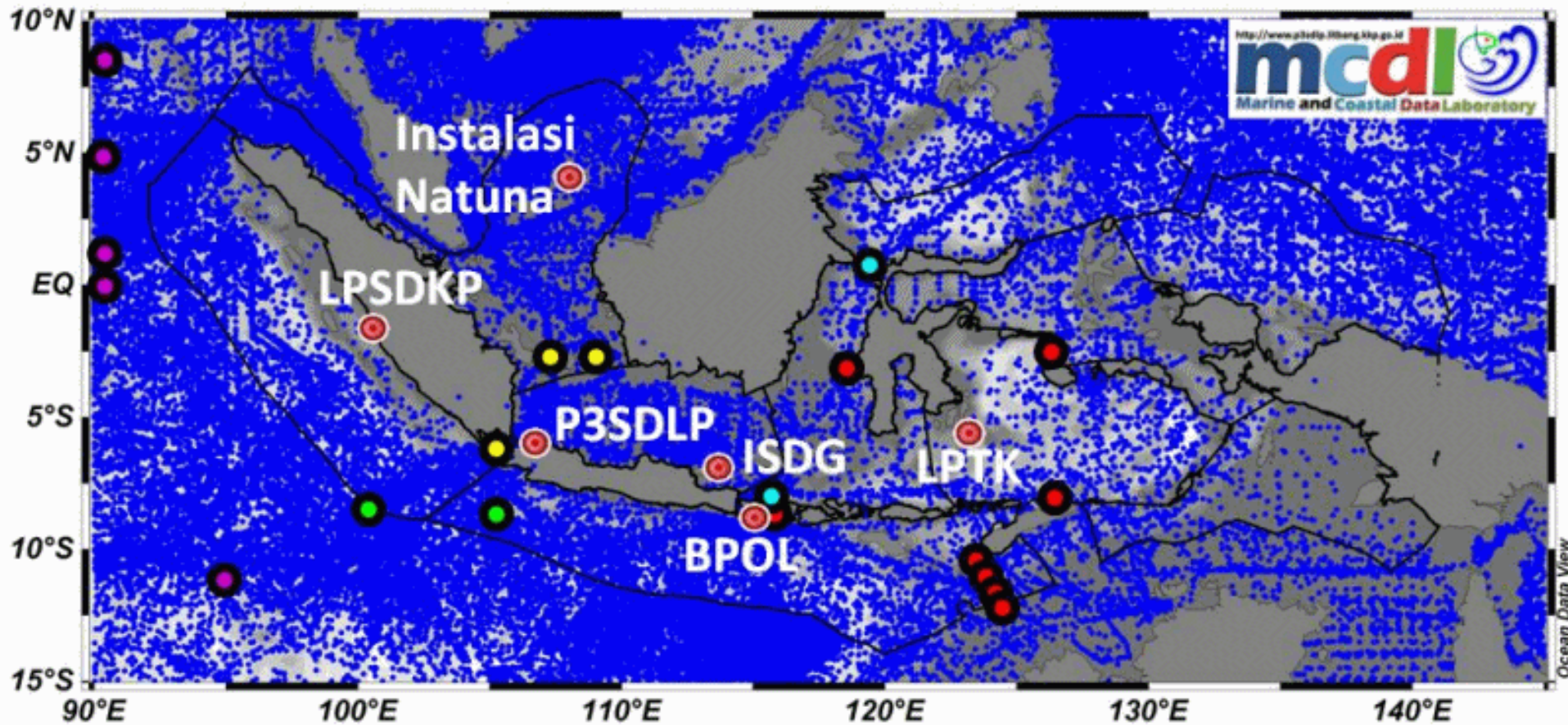
[www.p3sdlp.litbang.kkp.go.id](http://www.p3sdlp.litbang.kkp.go.id)

# Indonesia Being Active Member of *Intergovernmental Oceanographic Commission* (IOC) - UNESCO

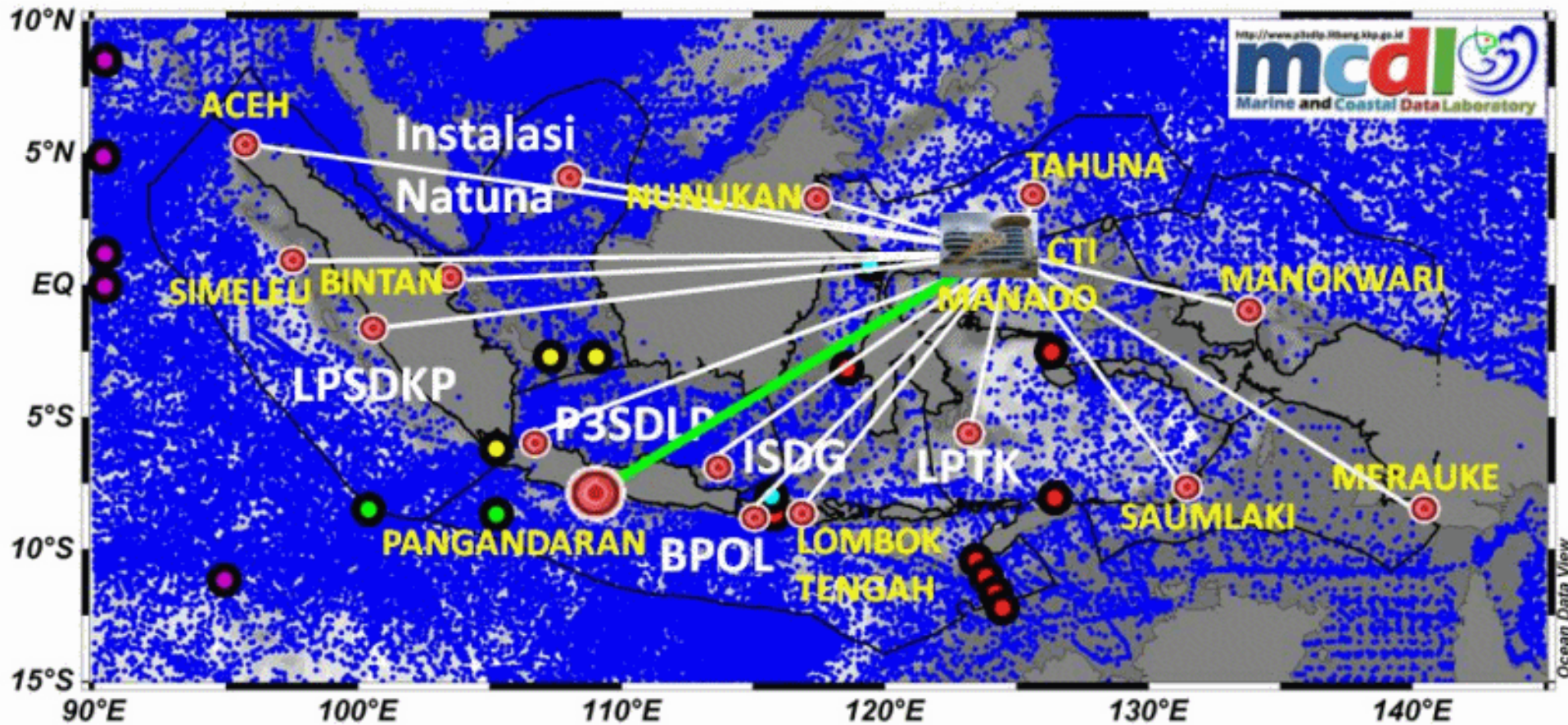


- Indonesia Ocean Global Observing System (INAGOOS)
- Southeast Asia Global Ocean Observing System (SEAGOOS)
- IOC West Pacific Ocean (IOC-WESTPAC)
- East Indian Ocean Upwelling Research Initiative (EIOURI)

# AN EXISTING DISTRIBUTION OF THE MMAF' MARINE RESEARCH CENTER/INSTITUTE



# THE DEVELOPMENT PLANNING FOR MARINE RESEARCH INSTITUTE/CENTER UNTIL 2025



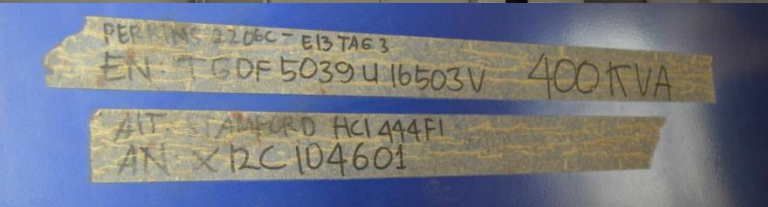
- Gedung Fasilitas Balitbang KKP
- INA/USA RAMA (2006)
- INA/USA/AU/NL/FR INSTANT (2003-2017/2011)

- INA/CN TIMIT (2015-2017)
- INA/CN SITE (2007-2016)
- INA/CN JUV/JUVO (2006-2016)
- STASIUN PENGUKURAN (1975-2015)



# MAIN RESOURCES NEEDS

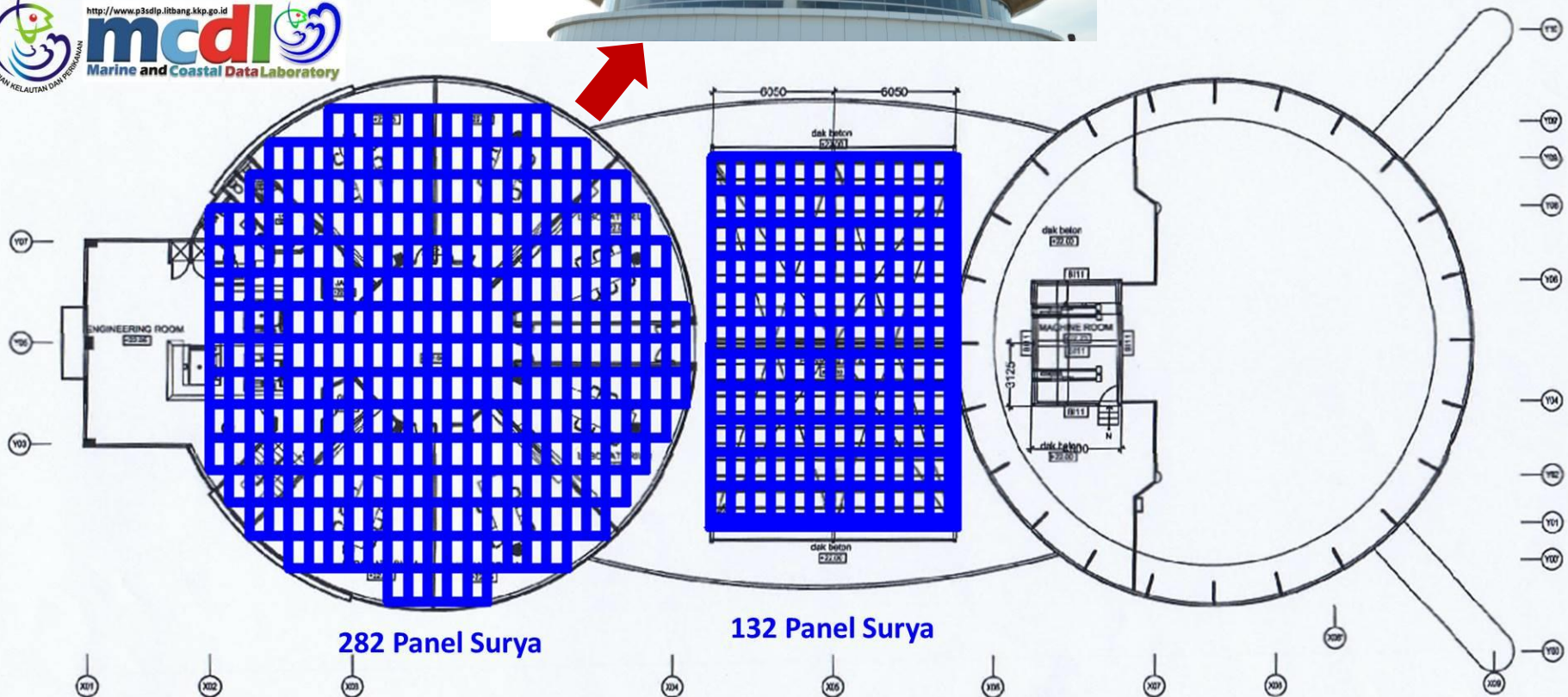
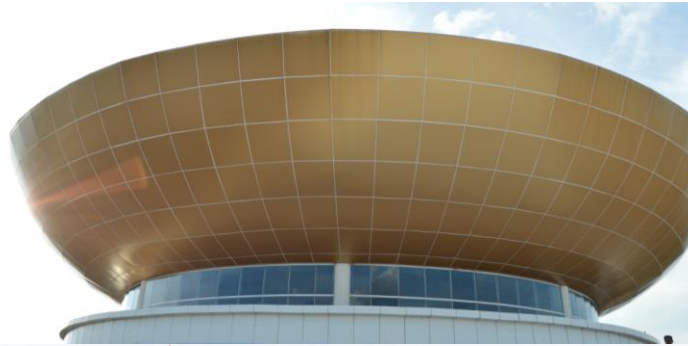
- Electricity power
- Communication Network  
(telecommunication, High Speed Internet, LAN/WLAN)



# Electricity Power (Existing)

- Main resources from PLN (PLN is an Indonesian government-owned corporation);
- Estimation for full operational ~USD 798/day;
- Alternative Genset 400kVA;
- Estimation for full operational ~USD 1379/day (based on Fuel of USD 0.62/litre).

# A Solution Plan: Solar panel



# A Solution Plan: Solar panel

With a specification same as installed in “[Research Institute for Coastal & Vulnerability \(LPSDKP\)](#)” in Bungus, West Sumatra; type STP 245-20/Wd ( $P_{max} = 181 \text{ W}_{peak}$ ;  $V_{mp} = 27,8 \text{ V}$ ;  $I_{mp} = 6,51 \text{ A}$ ), Estimated:

- Max. Electricity power production of CTI Building  $\pm$  14.494,35 kVA (Save  $\sim$ USD 435/day)
- Decreasing  $\sim$ 52.45 ton Carbon (equi.  $\sim$ USD 38,946.42)





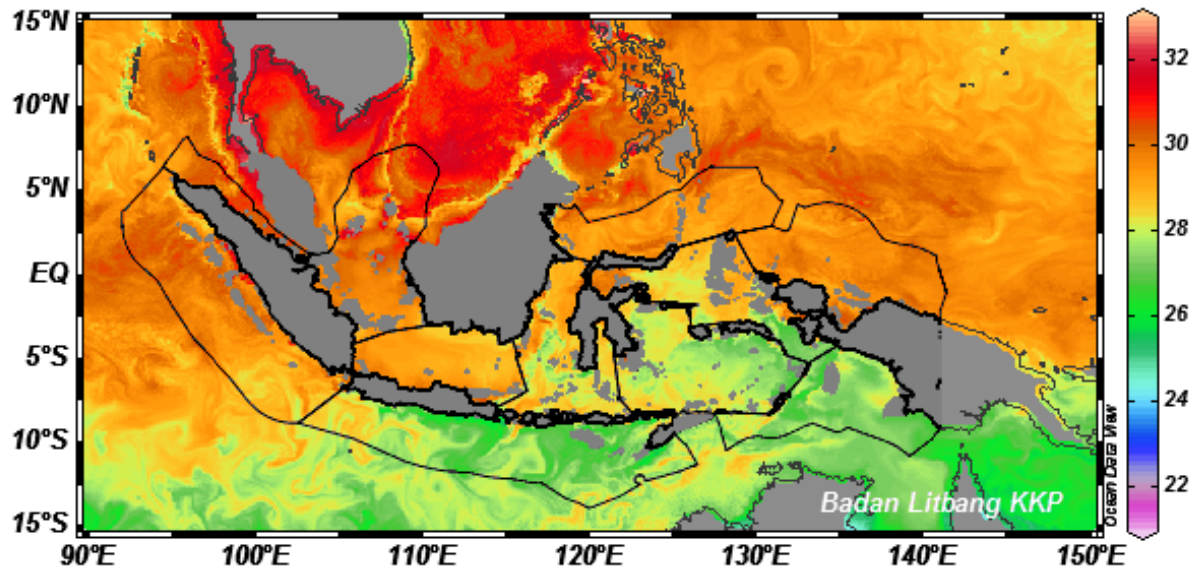
# Facility planning utilization

- Facility for research scientist & its community
- Facility for research & development
- Facility for dissemination

## Schedule:

- 2016-2017: Finalization of Science Plan & DED
- 2017-2018: Renovation/Construction
- 2018-2019: Activity / operationalization

temp [91.1H] [degC] @ time [days since 1900-12-31 00:00:00]=41804



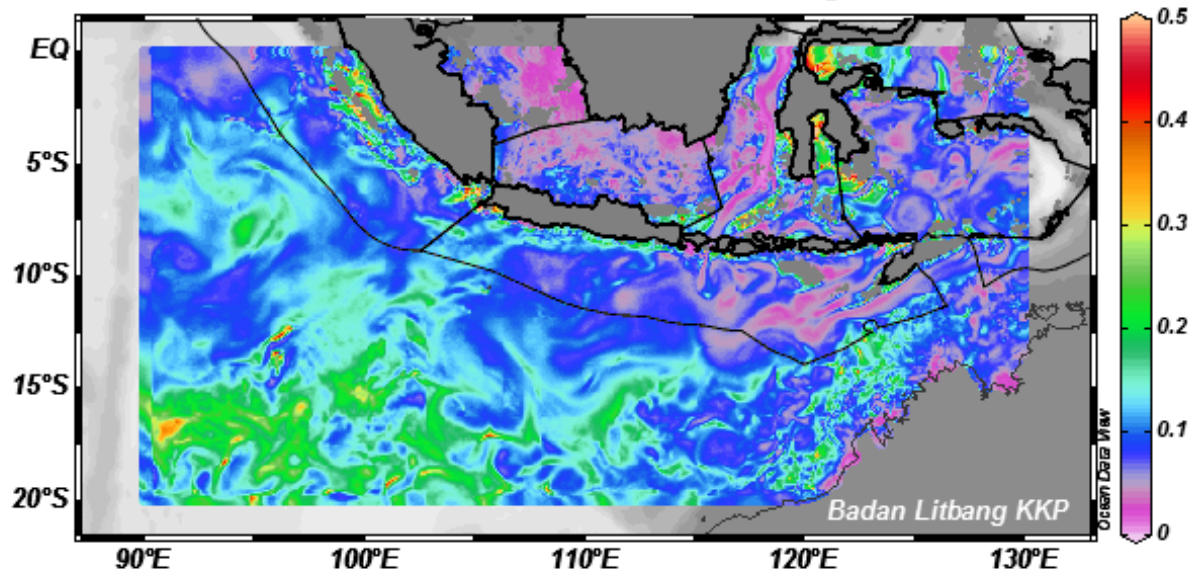
Sea Surface  
Temperature  
[°C]

5-10 Days  
Forecasting

Jun-2015  
16 17 18 19 20 41804.0000

11-03 12:00:00]=2.39069e+08

Yellow Fin  
Tuna Biomass  
[g/m<sup>2</sup>]



Aug-2014  
2 3 4 5 6 7 239069000

# PROPOSED DECISIONS

1. Acknowledged initiative from Indonesia on developing the CTI Center as the Research Center for Pacific Ocean Rim;
2. Invited interested Partners and CT6 to collaborative work and partnership with Indonesia in developing the Research Center for Pacific Ocean Rim;



**CORAL TRIANGLE  
INITIATIVE**

ON CORAL REEFS, FISHERIES AND FOOD SECURITY

 **One | PGSDIP**  
team spirit



**T**hank you  
**T**erima Kasih