THE ROLE OF SATELLITE COMMUNICATION TO GREAT CONNECTIVITY IN SHIP

PT. Telkom Satelit Indonesia

telkomsat
by Telkom Indonesia

- Basic Thinking: Road to Industry 4.0 in Vessel
- Satellite Communication on the Sea
- Mobile Apps Vessel Management Systems
- Conclusion

Basic Thinking

Smart — Predictive and automated decision making processes, with possible self adjusments and reconfiguration of the production system

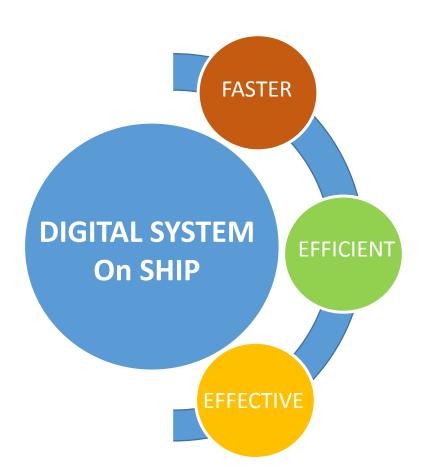**Knowledge** — Share and provide contestualised information

Information — Generate information form data collection

Connectivity — Connected production resources and control system

Type of Communication in Vessel

FASTER

DIGITAL SYSTEM On SHIP

EFFICIENT

EFFECTIVE

Radio Terresterial
- Voice Only
- Free air time

Mobile Sattelite System (MSS)
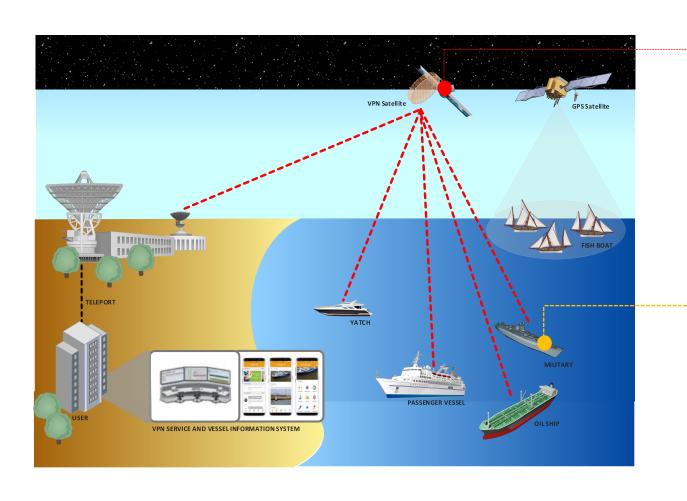- Voice and Data but narrow band
- Time base charging

Fixed Satellite System (FSS)
Base on Gryo Antenna
Voice and Data ideal for other aplication
Monthly base

Satellite Communication on Sea

Space Segment

- Satellite with Ku Band Frequency

Ground Segment

- 1.2 m Stabilized Antenna
- BUC 4W until 16W
- LNB
- Modem VSAT

Why Satellite Communication

- There are no blank spot, Satellite can cover all the world

- Narrow band, bandwidth 2 Mbps can support internet access

- With internet access ready multi services can running on top that

- Support Industry 4.0

- Security and Safety

- Container Monitoring
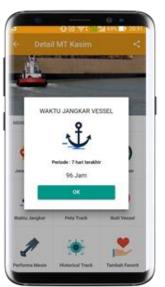
- Crew Welfare

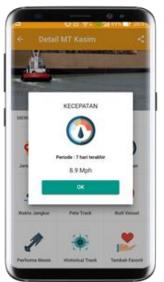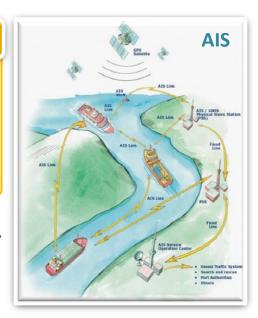- Communication for Passenger

Mobile Apps Vessel Management System

Features System

- **Tracking History**
- **Position**
- **Speed Monitoring**
- **Bunkering**

- **Fuel Consumption**
- **Engine Running Hours**
- **Engine RPM**
- **Auxiliary Engine**

- Compatible for Android Version 5.0 & IOS Version 7.0
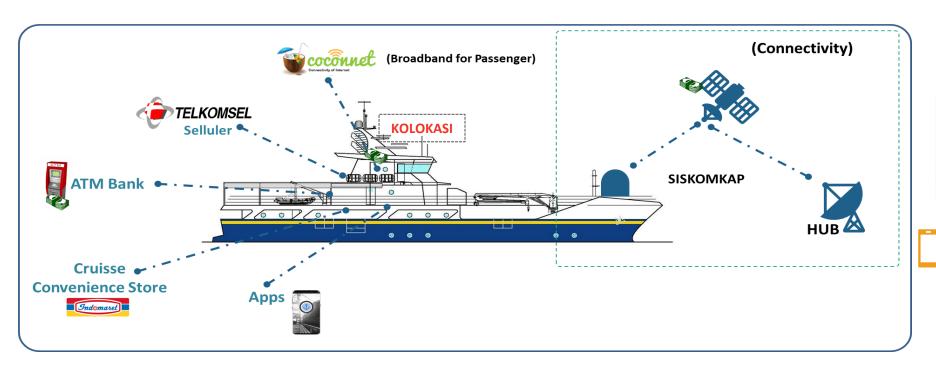- User Login Approval by Patrakom: Show Customer Own Vessel Only

AIS

Dashboard Network Monitoring System

Multi Services in Vessel

Vessel Information System

SYSTEM OVERVIEW

FEATURES SYSTEM

Monitoring Platform Provides Real Time Engine Information Including:

- Spead & Heading information
- Total Fuel Used
- Engine Torque
- RPM
- Engine Running Hours
- Coolant Temperature
- Throttle Position

- Engine Boost
- Engine Load
- Oil Pressure
- Exhaust Temperature
- Fuel Burn Rate
- Main Battery Voltage
- Bunkering

CONTENTS

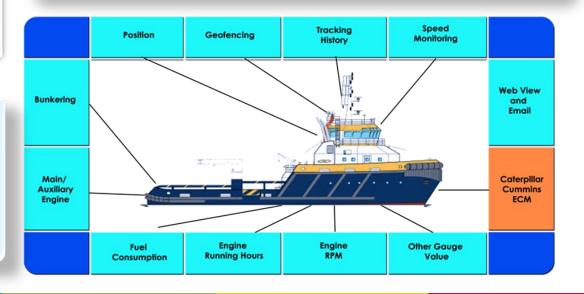- Tracking
- Geo-Fencing
- Live & Historical Information
- Alert via Email or SMS
- Comprehensive Report
- Preventive Maintenance System

OUR BENEFIT
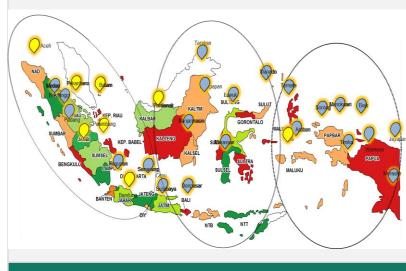

Expert Engineer

24/7 Network Operating Control

Standby Technician

Thank You

www.patrakom.co.id