

# **PRESENTATION: 5<sup>Th</sup> CO-OPERATIVE FORUM**

## **MEH FOR THE STRAITS OF MALACCA AND SINGAPORE (SOMS)**

### **OVERVIEW & STATUS**

# OBJECTIVES

- **Improve Maritime Safety and Reduce Environmental Damage**
- **Assist Indonesia, Malaysia, Singapore and large commercial shipowners to decide the scaling up of the geographical limits from the demonstration phase to eventually cover the entire SOMS and activities of the MEH**

# Presentation Flow

- Objective
- Background
- Partnerships
- Components
- Implementation Status
- Beyond the Demonstration Phase

# BACKGROUND

**SOMS characterized by narrow channels, relatively shallow with complex tidal flows and shifting bottom topography**

- **Heighten the exposure to navigational hazards**
- **Is the preferred international route from the Indian Ocean to the Far East**
- **Support substantial and increasing shipping traffic**
- **Despite incremental improvements to navigational aids routing and reporting system there is room for measures to support decision to enhance collision avoidance and improve ship management in the SOMS, navigation efficiency which would lead to reducing user costs**

## **BACKGROUND (2)**

**SOMS characterized by Tropical Estuarine Environments is of global marine biodiversity significance that**

- Is rich in marine fauna and flora**
- Has limited mangroves, wetlands, sea grass and coral reefs**
- Has stopover points for migratory birds on seasonal transition**
- Supports marine natural resource-related activities such as fishing and coastal tourism that provide significant income to the coastal population**

**Is exposed to risks from ship-based sources of pollution that could result in acute marine environmental degradation impact**

# **MEHDP INSTRUMENTS & PARTNERSHIPS**

- 1. Memorandum of Understanding among the three littoral States**
- 2. Memorandum of Agreement among the three littoral States, IMO, IHO, ICS and INTERTANKO**
- 3. Contribution from the Government of the Republic of Korea**

# PROJECT COMPONENTS

## 1. MEH System Design, Coordination and Operation

- System Planning & IMO Management
- Project Management Office
- Project Steering Committee Support

## 2. MEH System Development

- Tide & Current Facilities
- Hydrographic Survey
- Electronic Navigation Chart
- Information Exchange System

## 3. Ship-board Equipment and Communication

# **PROJECT COMPONENTS (2)**

## **4. Marine Environment Protection**

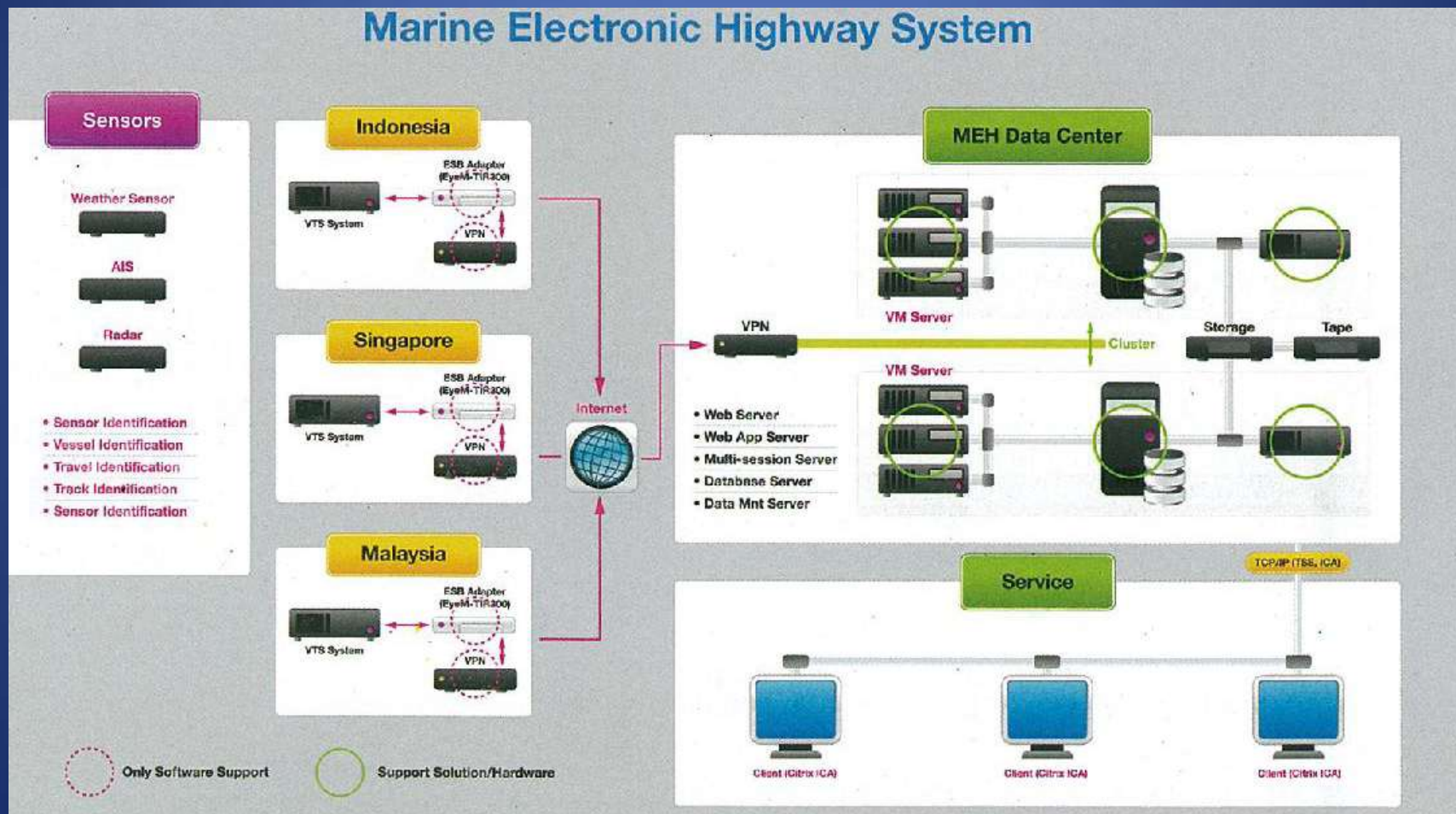
- **Oil Spill, Hydrodynamics and Sand Wave Models**
- **Sensitive Area Mapping**
- **Emergency Response Systems**

## **5. Information Dissemination, Evaluation and Scale-up Plan**

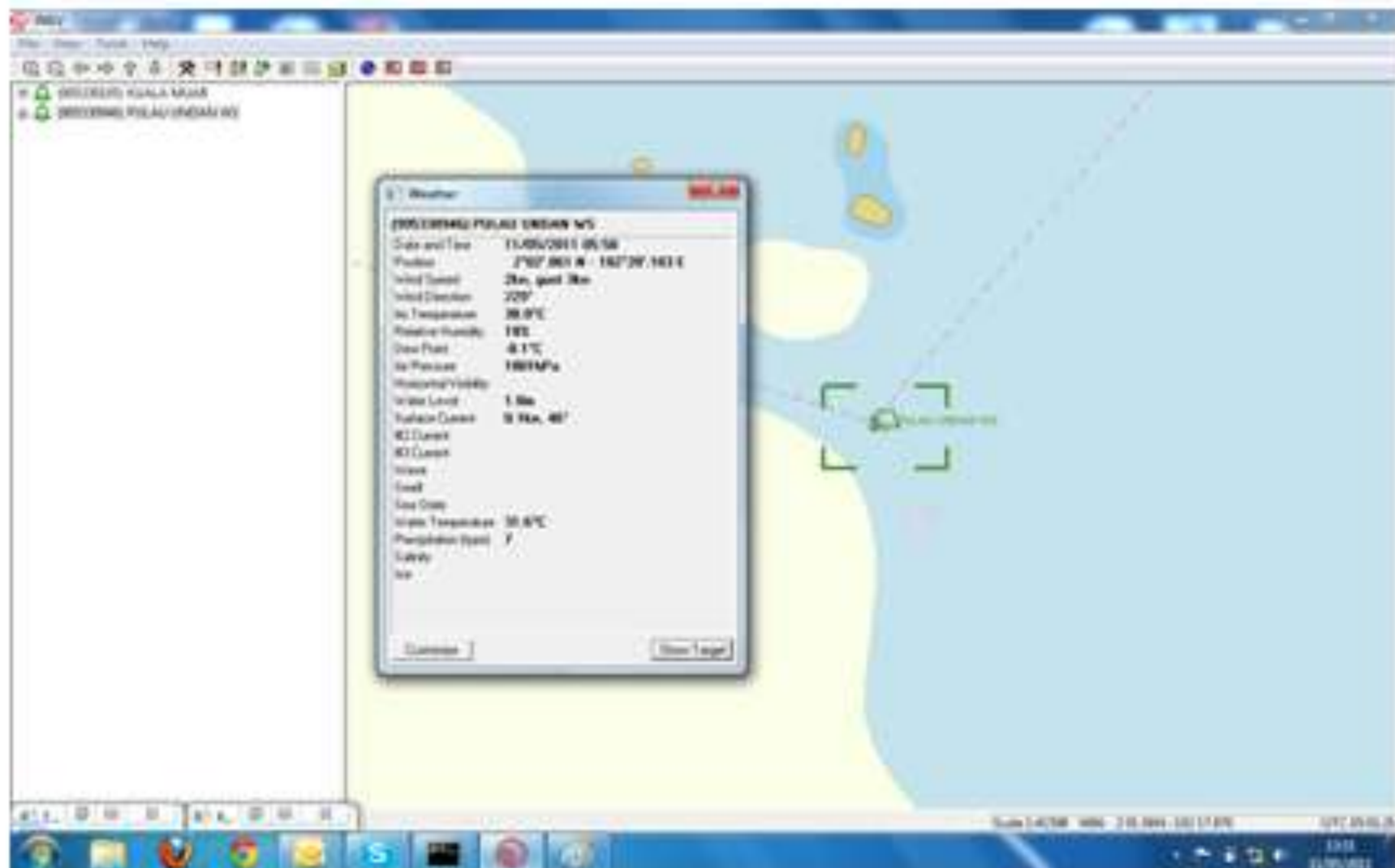
- **Website and Publicity**
- **Evaluation**
- **System Development**



# Status – MEH Configuration



# E-MIO Dynamic Data Pulau Undan Station Malaysia



[HOME](#) > [Weather](#)

Weather

Tidal

WEATHER

Date

2012-04-17

Country

Malaysia

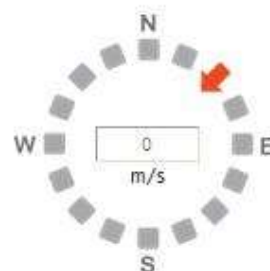
SENSOR

Pulau Undan

Q Search

The Project Office is  
located at:

Kantor Stasiun Radio  
Pantai Batam  
Jalan Sei Tering Number 1  
Batam 29451, Indonesia



Date & Time

2012-04-17 2:50

Wind Speed

0 kts

Wind Direction

59

Air Temperature

27.8 deg.C

Humidity

92 %

Air Pressure

1003 hPa

Surface current speed

0.1 kts

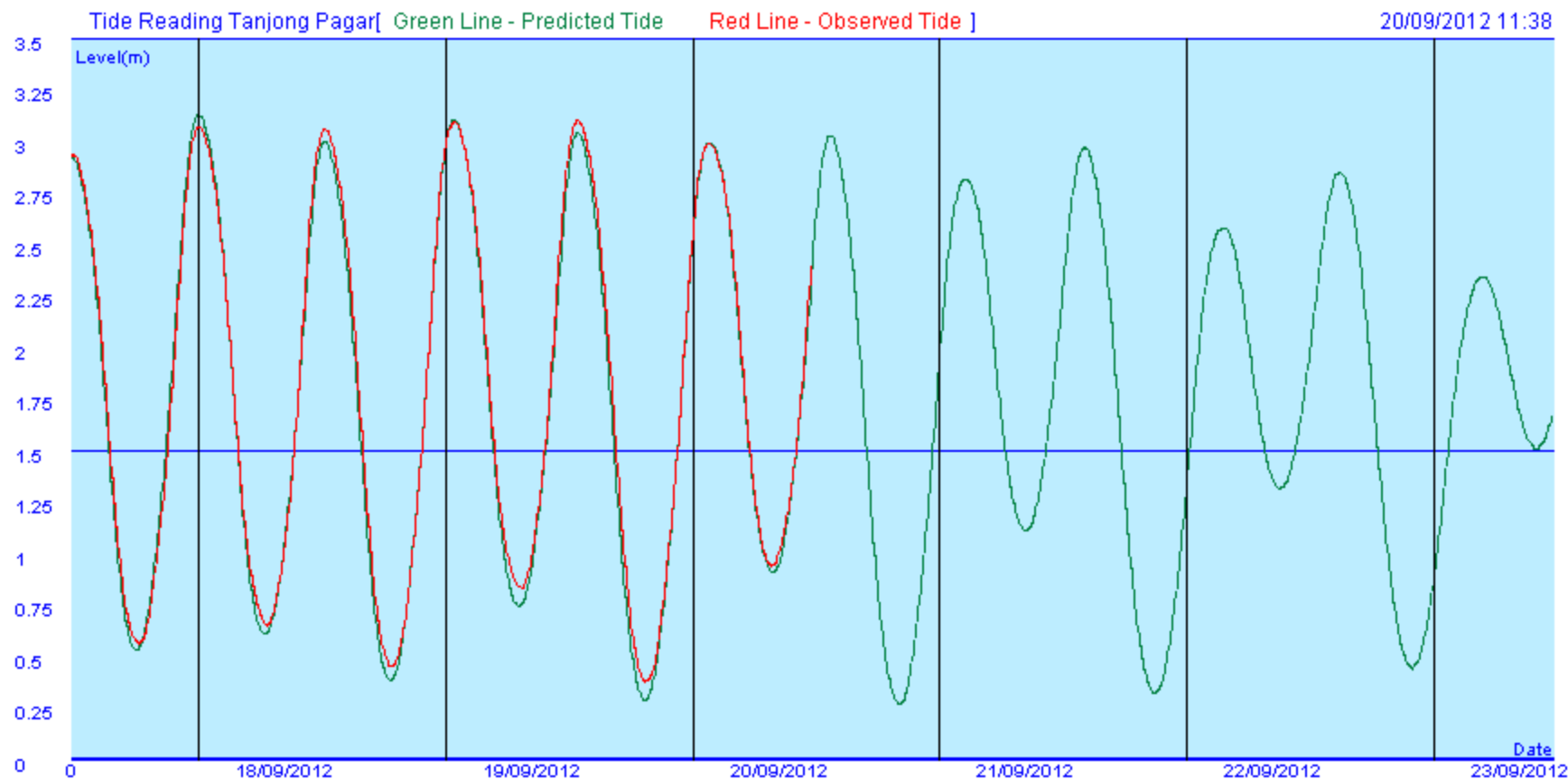
Surface current direction

117

Water level

11.3 m

# Observed Tide at Tanjong Pagar



Select Date:

\*NaN = Not Available

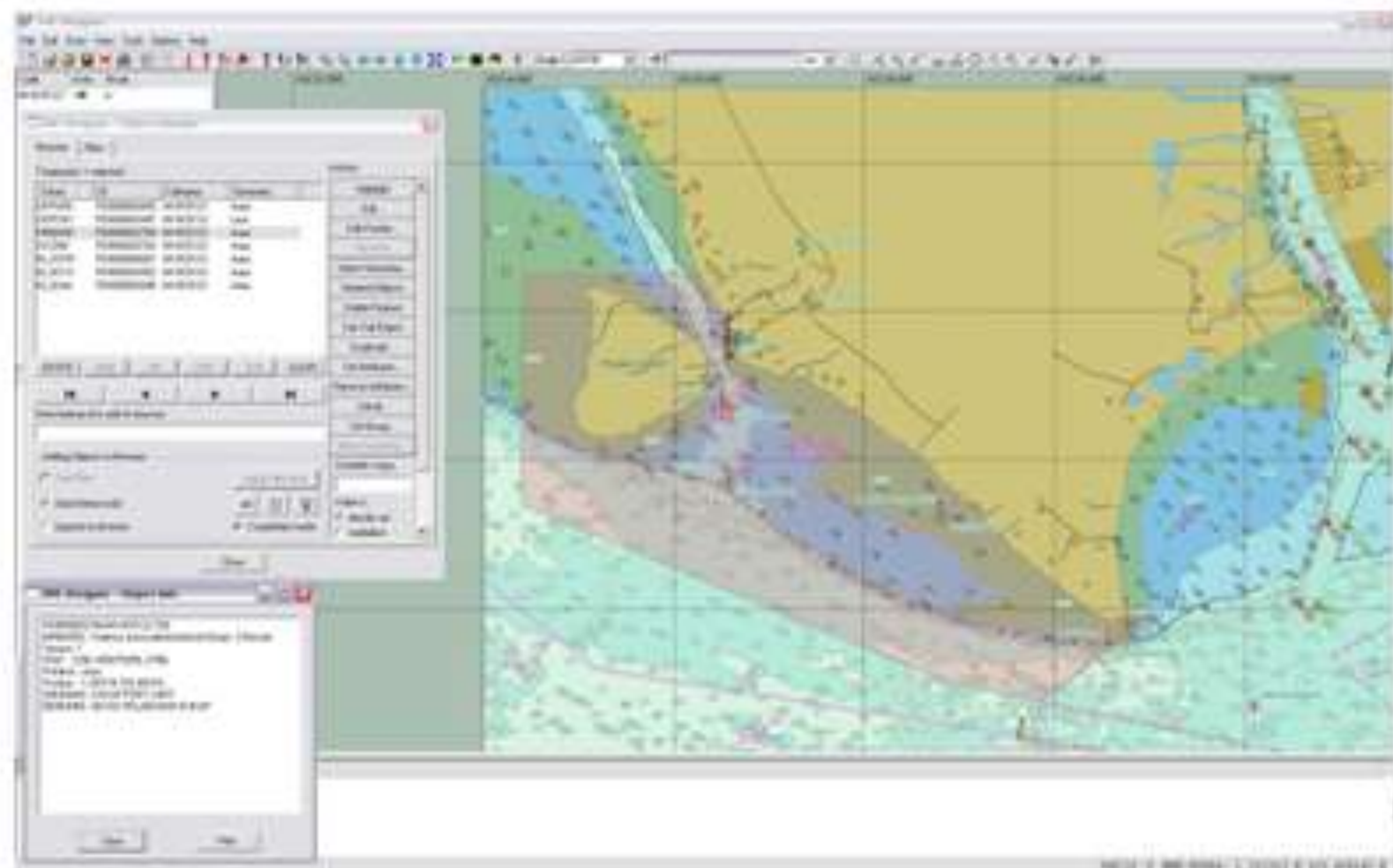
Date Time	Tide Height(m)	Prediction(m)	Residual(m)
20/09/2012 00:00:35	2.588	2.570	0.018
20/09/2012 00:30:35	2.831	2.810	0.021



# Status – E-MIOs



# Port Limits – Western Tip Johor Malaysia



# Target Display

## Target Display

### 1. Target Settings



### 2. Vector and Target size





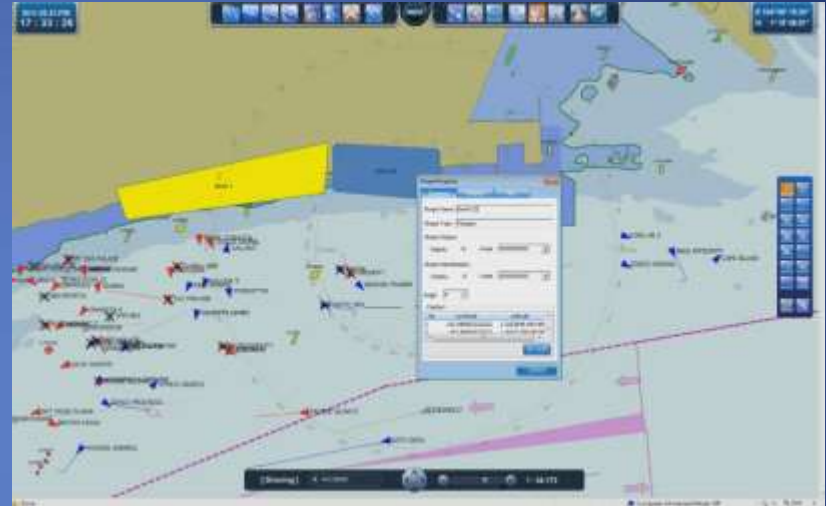
# Editing tools

## Drawing Tool

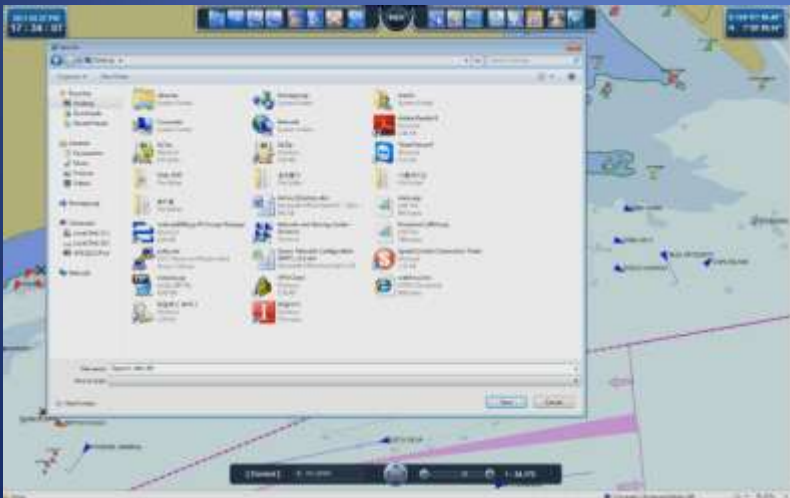
### 1. Select Drawing Figure



### 1. Edit Drawing Figure



### 3. Screen Capture



### 4. Captured Image





# **MEHDP STATUS – CURRENT ACTIVITIES TO BE IMPLEMENTED & ONGOING DATA FEED**

- **INTEGRATION OF OIL SPILLS & HYDRODYNAMIC MODELS**
- **SOCIO-ECONOMIC EVALUATION & ASSESSMENT OF FINANCIAL VIABILITY**
- **PROFILING OF THE SOMS – EMIOs**
- **HANDING OVER OF THE REMAINING PMO ASSET**

# BEYOND THE DEMONSTRATION PHASE

- INSTITUTIONAL ARRANGEMENTS
- FUNDING
- EXTENSION OF GEOGRAPHICAL LIMITS
- MEH NETWORKING – BACK-UPS
- ACTIVITIES FOR SCALING-UP
  - AIS NETWORK COVERAGE
  - ADDITIONAL INFORMATION PROFILING
  - ECDIS PRESENTATION
  - E-NAVIGATION: UPGRADING TO S100

# ACKNOWLEDEMENTS

- FOCAL POINTS OF THE MEHDP
- AGENCIES OF THE GOVERNMENT OF INDONESIA, MALAYSIA AND SINGAPORE
- IMPLEMENTATION AGENCY – THE WORLD BANK
- EXECUTING AGENCY – THE IMO
- GMT CYBERNETICS

The views expressed in this paper are that of the presenter

**THANK YOU**