



# **REGIONAL OIL SPILL RESPONSE PREPAREDNESS: MALAYSIA IN FOCUS**

**CAPT AMIR MURAD**

**PETROLEUM INDUSTRY OF MALAYSIA MUTUAL AID GROUP**

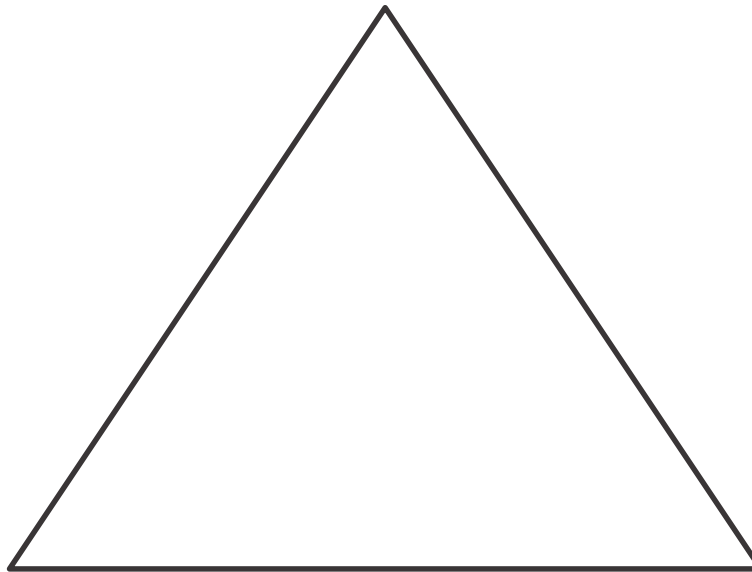
**10<sup>TH</sup>. COOPERATION FORUM UNDER THE CO-OPERATIVE MECHANISM IN THE  
STRAITS OF MALACCA & SINGAPORE**

**OCTOBER 2 – 3, 2017**

# OIL SPILL RESPONSE PREPAREDNESS



**MALAYSIA**



**OIL & GAS INDUSTRY**



**SHIPPING**



# PRESENTATION OUTLINE

1. EXECUTIVE SUMMARY
2. SETTING THE SCENE
3. PREVENTIVE MEASURES – IMO
4. SIX ELEMENTS OF PREPAREDNESS
5. LEGISLATION & REGULATION
6. CONTINGENCY PLANNING
7. OIL SPILL RESPONSE EQUIPMENT
8. TRAINING
9. EXERCISES
10. CHALLENGES
11. RECOMMENDATION

# EXECUTIVE SUMMARY

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## 1. SHIP TO SHIP OPERATIONS

- PRE BOOMING
- SOURCE CONTROL
- PREVENT SPREADING

## 2. HARMONISATION OF DISPERSANT

- DISPERSANT TESTING PROTOCOL
- GUIDELINES ON USE OF DISPERSANT
- COUNTRIES APPROVED LIST OF DISPERSANT

## 3. ASEAN REGIONAL OIL SPILL CONTINGENCY PLAN

- DRAFTED IN 2015
- TO ADOPT THE PLAN

## 4. STRAITREP

- TO REPORT CARGO ONBOARD ESPECIALLY CRUDE OIL
- FOR STATISTICS

# SETTING THE SCENE

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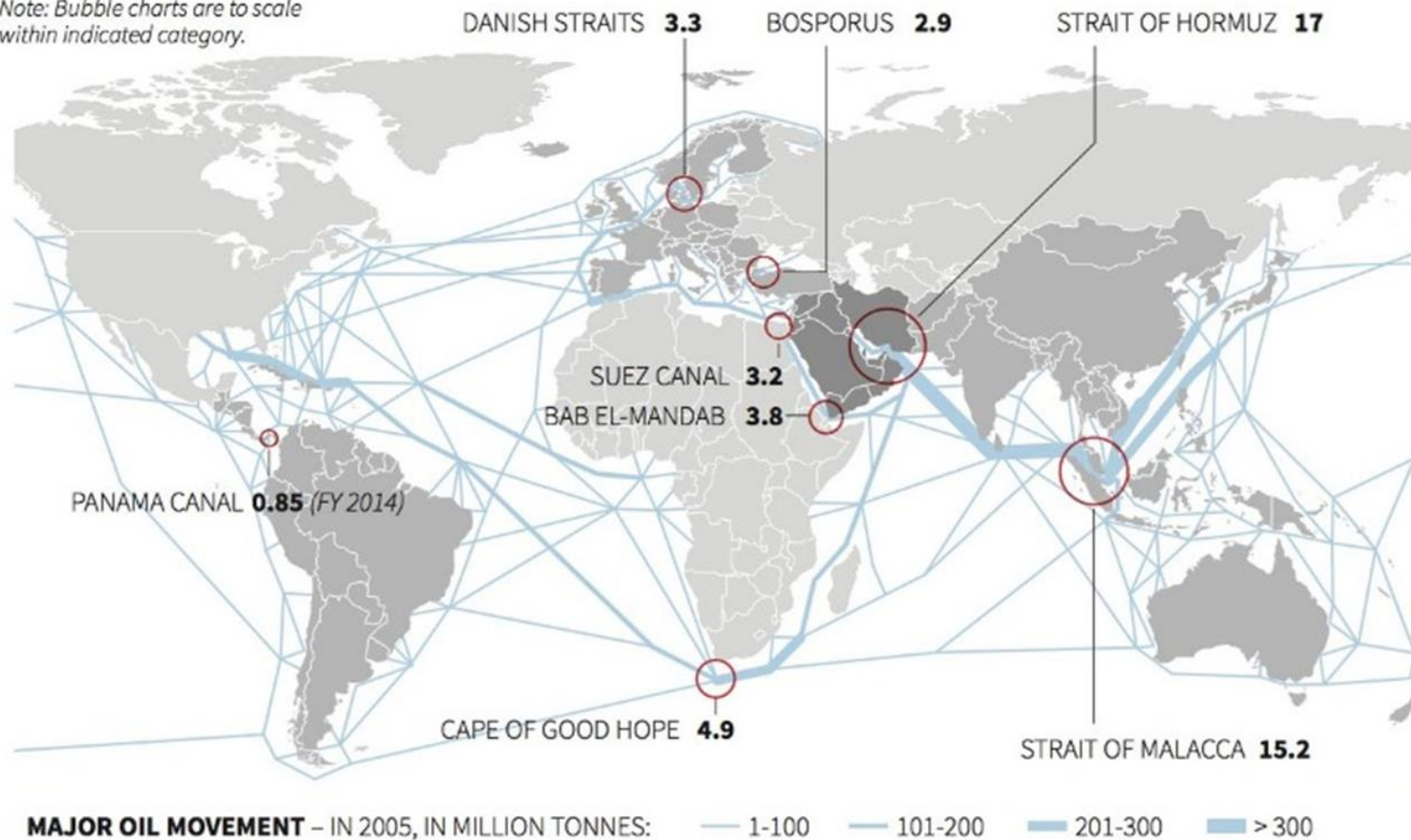
1. THE STRAITS OF MALACCA:
2. HIGH RISK AREA
  - BUSY TRAFFIC
  - SHALLOW WATER
  - STS OPERATIONS\*\*\*
  - PIRACY
3. 83,740 SHIPS PER YEAR IN 2016
4. 16 MILLION BARRELS (2.3 MILLION TONS) OF CRUDE OIL PER DAY IN 2016
5. LONGEST STRAITS IN THE WORLD
6. SHORTEST SEA-ROUTE - MIDDLE EAST & EAST ASIAN COUNTRIES
7. VLCC BETWEEN MIDDLE EAST & NORTHEAST ASIA:
  - LOMBOK STRAITS
  - SAVE 1,000 NM
  - 3 DAYS SAILING

# SETTING THE SCENE

## OIL TRANSIT CHOKEPOINTS

Million of barrels of oil moved per day, 2013 (unless otherwise indicated)

*Note: Bubble charts are to scale within indicated category.*



Sources: U.S. Energy Information Administration, International Tanker Owners Pollution Federation

Staff, W. Foo, 26/3/2015

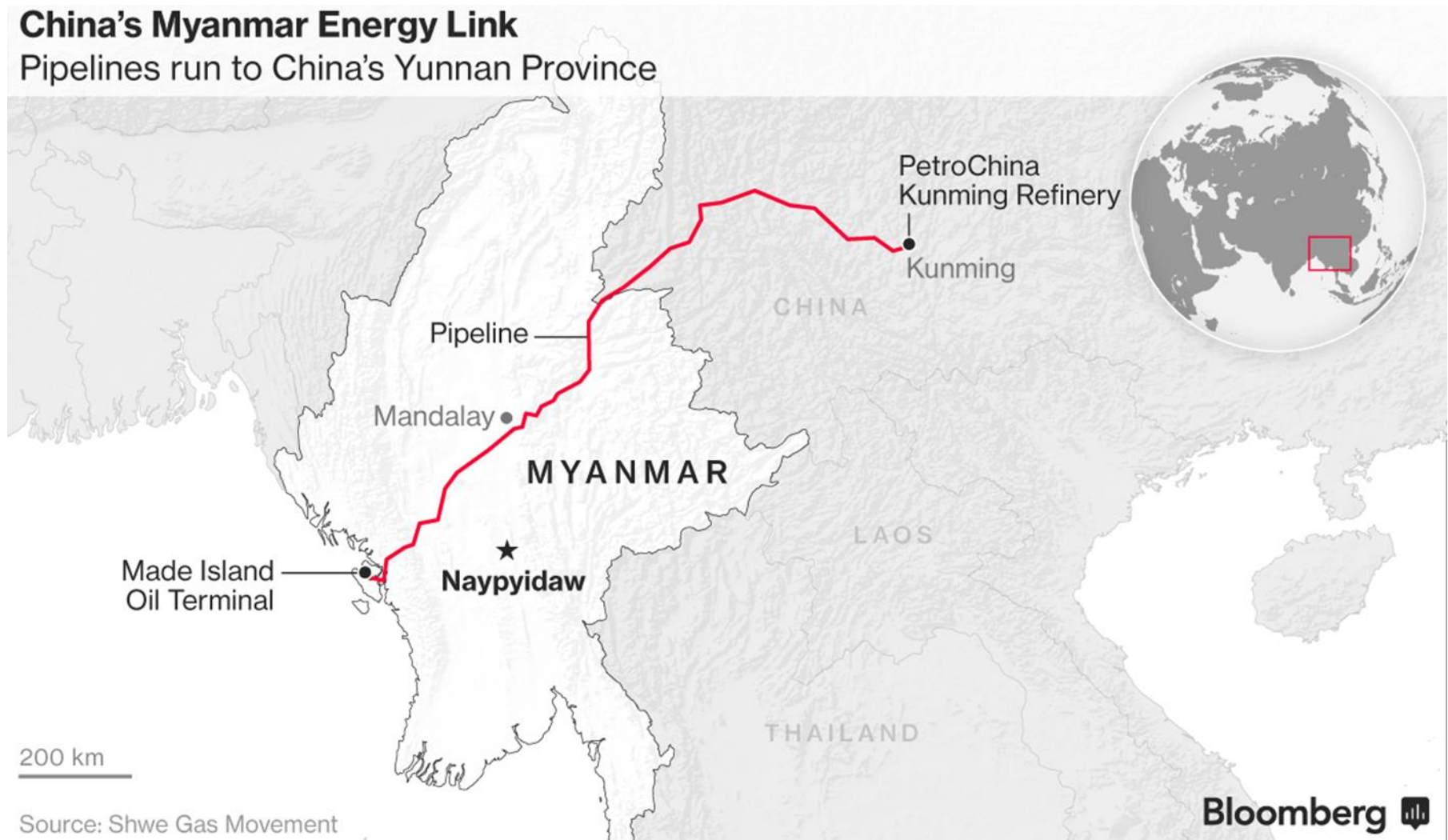
 REUTERS

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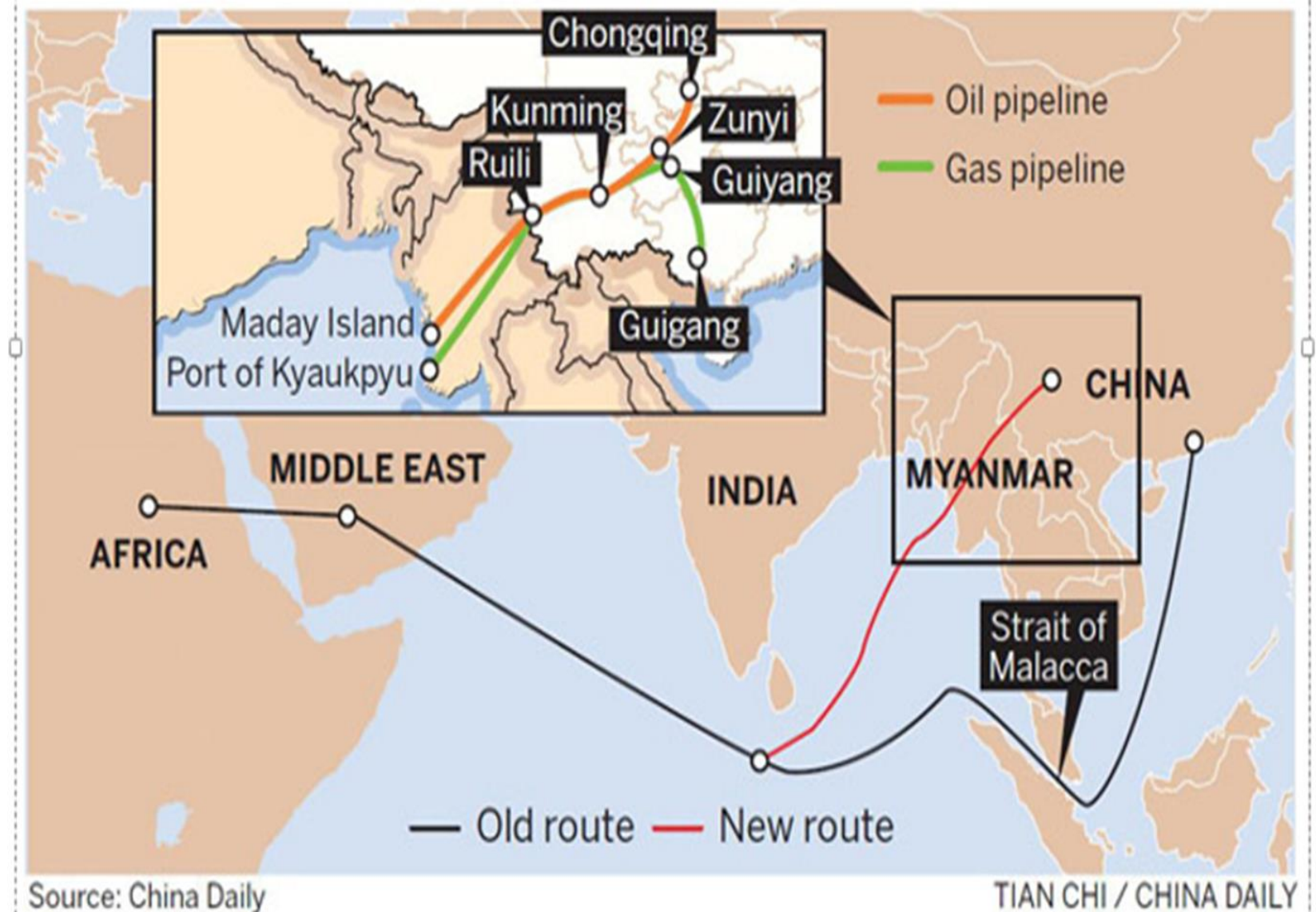
# SETTING THE SCENE

## China's Myanmar Energy Link

Pipelines run to China's Yunnan Province



# SETTING THE SCENE



# SIX ELEMENTS OF PREPAREDNESS:

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1. LEGISLATION AND REGULATION
2. CONTINGENCY PLANNING
3. RESPONSE EQUIPMENT AND SUPPORTING RESOURCES
4. TRAINING
5. EXERCISES
6. FORCES FOR IMPLEMENTATION

# LEGISLATION & REGULATION:

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- NATIONAL SAFETY COUNCIL: INSTRUCTION 20
- EXCLUSIVE ECONOMIC ZONE ACT 1984 – SECTION 14 (1)
- ENVIRONMENTAL QUALITY ACT 1974 – SECTION 47
- GUIDELINES ON THE USE OF DISPERSANT IN MALAYSIA
- STATE GUIDELINES ON BEACH CLEAN-UP POLICY

# CONTINGENCY PLANNING:

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## NATIONAL OIL SPILL CONTINGENCY PLAN;

- FIRST EDITION 1976
- SECOND EDITION 2000
- THIRD EDITION 2014
- BAHASA MALAYSIA, ENGLISH VERSION FORTHCOMING
- NATIONAL OIL SPILL CONTROL COMMITTEE
- CHAIRMAN IS DIRECTOR GENERAL OF DOE
- TOTAL OF 21 AGENCIES
- LEAD AGENCY IS MARINE DEPARTMENT
- MALAYSIA MARITIME ENFORCEMENT AGENCY
- PIMMAG IS A MEMBER OF NOSCC

# OIL SPILL RESPONSE EQUIPMENT



**MALAYSIA**

**MARDEP**

**&**

**PIMMAG**

**OIL & GAS INDUSTRY**



**SHIPPING**



# MARDEP EQUIPMENT STOCKPILE:

## 1. BASES:

- i. LANGKAWI ISLAND
- ii. PENANG
- iii. PORT KLANG
- iv. JOHOR BAHRU
- v. KUCHING
- vi. LABUAN
- vii. KOTA KINABALU

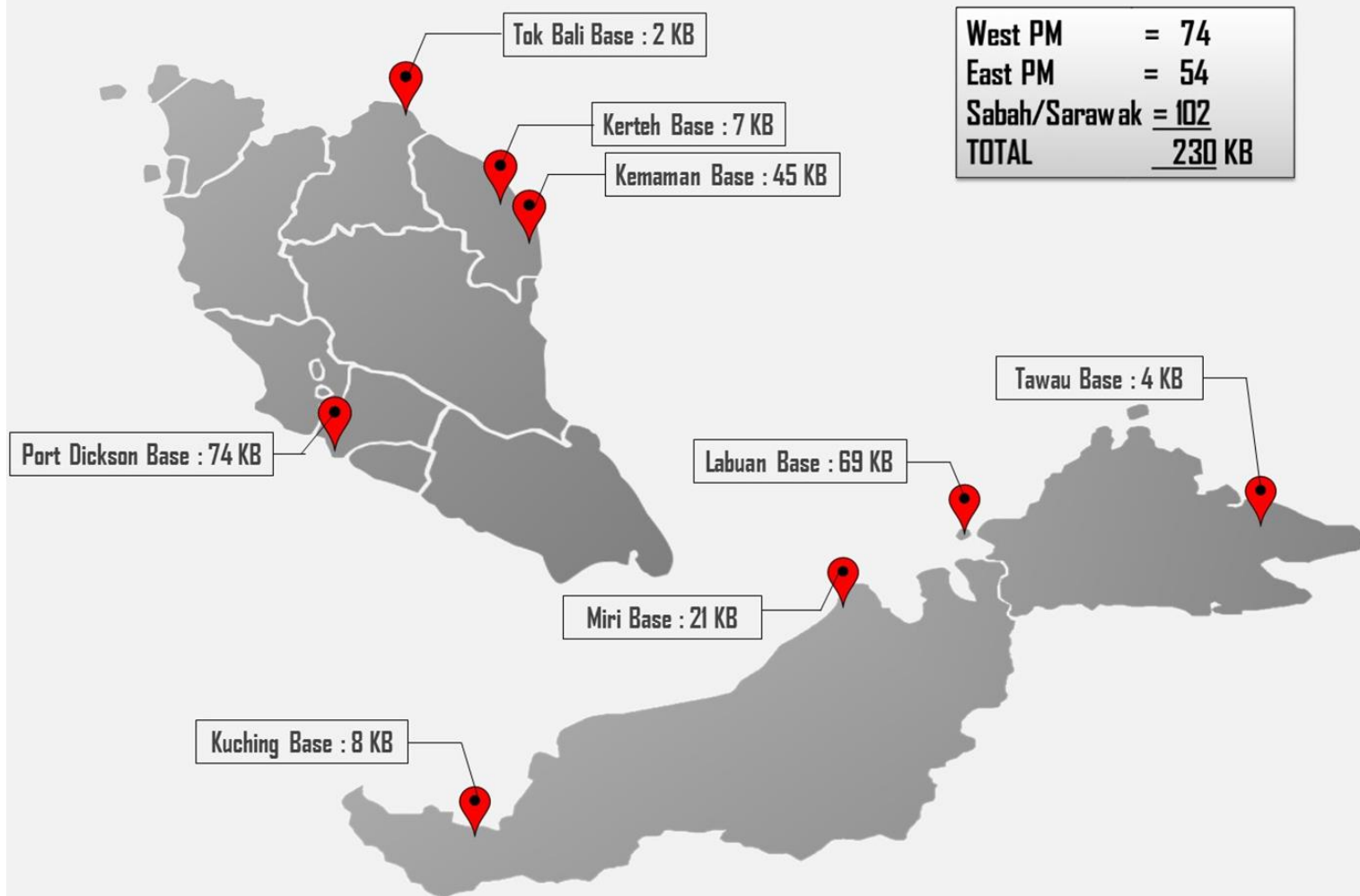


2. OIL SPILL RESPONSE VESSELS
3. OIL MAP TRAJECTORY
4. NATIONAL EXERCISE

# INDUSTRY EQUIPMENT STOCKPILE:

## PIMMAG's Oil Spill Response Equipment Capability in Malaysia

9 July 2015



Open

# INDUSTRY EQUIPMENT STOCKPILE:

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## 1. DISPERSANT

- ABOUT 1,500 DRUMS OF 209 LITERS
- COREXIT 9527
- SLICKGONE NS

## 2. ROUTINE MAINTENANCE

## 3. CAPABILITY

- WEST PM = 74 KB
- EAST PM = 54 KB
- EAST MALAYSIA = 102 KB
- **TOTAL = 230 KB**

# TRAINING:

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- OIL SPILL RESPONSE COURSES:-
  - INLAND
  - OPERATOR
  - SUPERVISORY
  - MANAGEMENT
  - SHORELINE / RIVERINE CLEAN-UP ASSESSMENT TECHNIQUE
  - CUSTOMISED
- PUBLISHED COURSES 7 PER YEAR
- AVERAGE PER YEAR 25 - 30 COURSES
- 20,000 ATTENDEES (INCEPTION 1995 - JULY, 2017)
- EXPERTISE FOR THE ASEAN IMO LEVEL 3 COURSE FROM JULY 31 TO AUGUST 4, 2017



ators  
r for VTS

**ASEAN IMO OPRC LEVEL 3  
MALAYSIA ITCP WORKSHOP**  
Inaugurated By:  
**Y.Bhg. Dato' Rossid Bin Musai**  
(Deputy Director General, Maritime Department Malaysia)  
21 July - 4 August 2017 | MAMPAK, F-11 Kelang

31 07 2017



04 08 2017

# EXERCISES:

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- VALIDATE CAPABILITY
- SYSTEM IS FUNCTIONAL
- PLAN, PEOPLE & EQUIPMENT WORK COHESIVELY
- PLAN PRACTICAL & WORKABLE
- PEOPLE WELL TRAINED
- EQUIPMENT WELL MAINTAINED
- FULL EQUIPMENT DEPLOYMENT
- TABLE TOP EXERCISE
- TRAIN DURING COURSE DEPLOYMENT
- NATIONAL OIL SPILL EXERCISE



12/11/2014 12:01



21/06/2012 09:39

# CHALLENGES:

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1. STS OPERATIONS IN THE BUSY STRAITS OF MALACCA. THE IMPACT OF OIL SPILL RESULTING FROM THE STS OPERATIONS MAY RESULT IN TEMPORARY CLOSURE OF THE STRAITS OF MALACCA.
2. NO COMMON DISPERSANT IN THE APPROVED LIST OF DISPERSANTS IN THE LITTORAL STATES.
3. NO INSTRUMENT TO ALLOW SHARING OF OIL SPILL ASSETS AMONG LITTORAL STATES AS ASEAN REGIONAL OIL SPILL CONTINGENCY PLAN IS NOT ADOPTED.
4. ACTUAL QUANTITY OF CRUDE OIL PASSING THROUGH THE STRAITS OF MALACCA CANNOT BE ASCERTAINED.

# RECOMMENDATIONS:

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1. PRE-BOOMING FOR SHIP TO SHIP TRANSFER OPERATIONS.
2. PROMOTE HARMONISATION OF COMMON DISPERSANT:
  - (i) DISPERSANT TESTING PROTOCOL,
  - (ii) GUIDELINES ON USE OF DISPERSANT,
  - (iii) COUNTRIES APPROVED LIST OF DISPERSANT.
3. ASEAN REGIONAL OIL SPILL CONTINGENCY PLAN NEED TO BE ADOPTED.
4. STRAITREP TO INCLUDE CARGO ONBOARD ESPECIALLY CRUDE OIL.

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THANK YOU.