



M P A
SINGAPORE

Testing-Bedding of Real-Time Under Keel Clearance Monitoring using Automatic Identification System (AIS) on board Deep Draft Vessels Transiting the SOMS

Presentation to 8th CF Meeting

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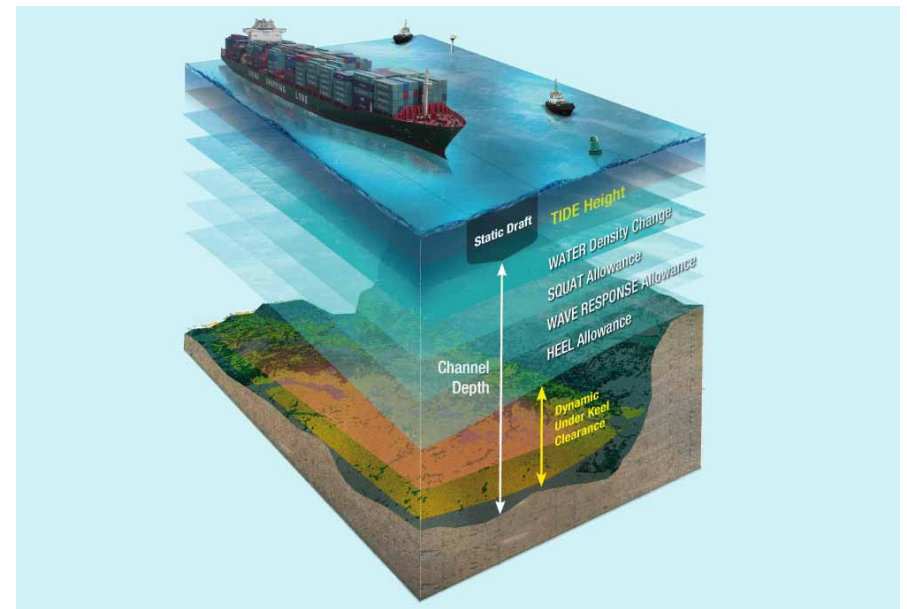
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Scope

- Introduction
- Objective and Scope of Works
- Project Implementation
- Benefits



Introduction

- The 37th TTEG (2012) commissioned the concept study on UKC monitoring system in SOMS which was completed by OMC International (OMC) in Sept 2013.
- AIS was identified to be most cost effective data communication method to transmit real time tidal information for UKC monitoring from shore based stations to vessels.
- The 39th TTEG (2014) approved a test-bed project to investigate the practical use of AIS tidal information for UKC monitoring in the SOMS.
- Project funded by IMO Straits of Malacca and Singapore Trust Fund at US\$90,000.

Objective

- To propose a test-bed of UKC monitoring using the existing AIS infrastructure to transmit near real time tidal data to selected deep draft vessels transiting the SOMS.

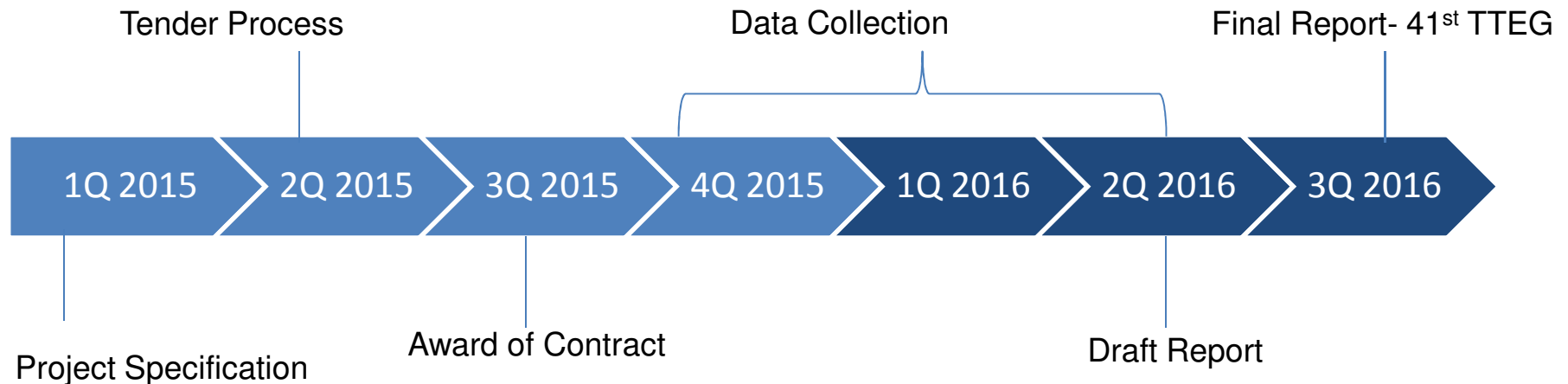
Scope of Works

- Data Collection
 - Ship-borne Installation
 - Coastal Infrastructure
 - Bathymetry
 - Data Communications
- Data Processing and Analysis
- Report



Implementation of Project

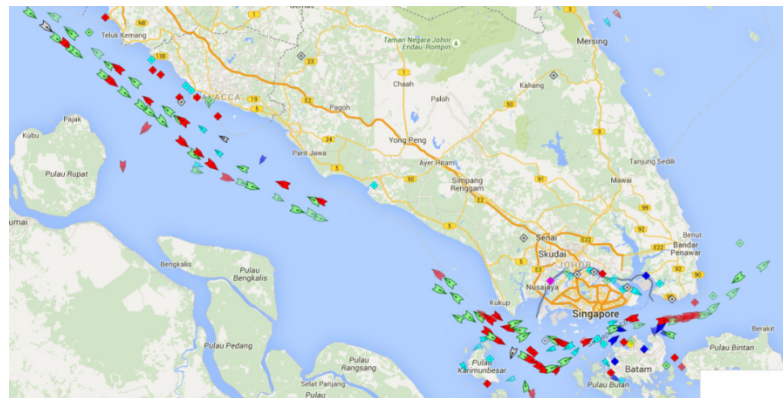
- Contract awarded to OMC International Pty Ltd



- Details of the works will be discussed in 39th TTEG and 8th PCC

Benefits

- The benefits of using AIS for transmitting tidal information for UKC monitoring in SOMS:
 - Infrastructure already in place to transmit and receive AIS data from shore to ship along the SOMS;
 - Using existing equipment - No major installation of equipment is required as it uses the vessel's existing AIS communication network
 - Risk assessment tool before entering SOMS
 - Continuous monitoring of UKC in SOMS
 - Standardisation of hydrographic data transmission via AIS with the IHO



Thank you