

PROJECT 8: PROPOSAL FOR CONCEPT STUDY ON REAL- TIME UNDER KEEL CLEARANCE (UKC) IN STRAITS OF MALACCA AND SINGAPORE (SOMS)



Maritime and Port Authority of Singapore



OUTLINE OF PRESENTATION

- ❖ Scope of Concept Study
 - ❖ Data Gathering
 - ❖ GAP Analysis
 - ❖ Costing for Implementation
- ❖ Timeline

SCOPE OF CONCEPT STUDY

Data gathering

- ❖ Identification of UKC critical areas in the SOMS
- ❖ Shore based Infrastructure and coverage
 - ❖ AIS
 - ❖ DGPS
 - ❖ Tidal Stations
 - ❖ Telecommunication between Ship and Shore
- ❖ Identifying users needs for vessel and shore based users
- ❖ Types of Modeling Tools Available
 - ❖ For modelling the effects of environmental conditions on the vertical motion of the vessel.

SCOPE OF CONCEPT STUDY

Gap Analysis

Littoral States

- ❖ Identification of UKC critical areas in the SOMS
 - Areas for re-survey using multibeam system
- ❖ Shore based Infrastructure
 - Areas for new infrastructures to cover SOMS
 - Equipment sites in SOMS which require upgrading

Ship Board Equipment

- ❖ Availability of Ship borne sensors
 - Draft Sensors
 - Appropriate Data Receivers

SCOPE OF CONCEPT STUDY

Costing for Implementation

❖ Phase 1 – Ship Borne

- Modeling Tools
- Ship borne equipment

❖ Phase 2 – Land based infrastructure

- Multibeam Survey
- Equipment Site Upgrades
- New infrastructure to support real-time UKC monitoring

Proposed Timeline

| No. | Item | Oct-12 | Nov-12 | Dec-12 | Jan-13 | Feb-13 | Mar-13 | Apr-13 | May-13 | Jun-13 | Jul-13 | Aug-13 | Sep-13 |
|-----|---|--------|--------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | Drafting of technical specification | | | | | | | | | | | | |
| 2 | Circulate to littoral States for comments | | | | | | | | | | | | |
| 3 | Call tender and award of contract | | | | | | | | | | | | |
| | | | | Conduct of the study | | | | | | | | | |
| 4 | a) Data Gathering | | | | | | | | | | | | |
| | b) GAP Analysis | | | | | | | | | | | | |
| | c) Report Drafting | | | | | | | | | | | | |
| 5 | Circulate draft report to littoral States for comments | | | | | | | | | | | | |
| 6 | Discussion with Contractor on Draft Report | | | | | | | | | | | | |
| 7 | Preparation and submission of final report to littoral States | | | | | | | | | | | | |
| 8 | Submission of report to TTEG for adoption | | | | | | | | | | | | |

Thank You

End
