EMERGENCY PREPAREDNESS AND TS TAIPEI RECOVERY OPERATION

SMIT SALVAGE

REINDER PEEK

GENERAL MANAGER ASIA

MARITIME & PORT BUREAU CONFERENCE

TAIPEI, 26 OCTOBER 2016

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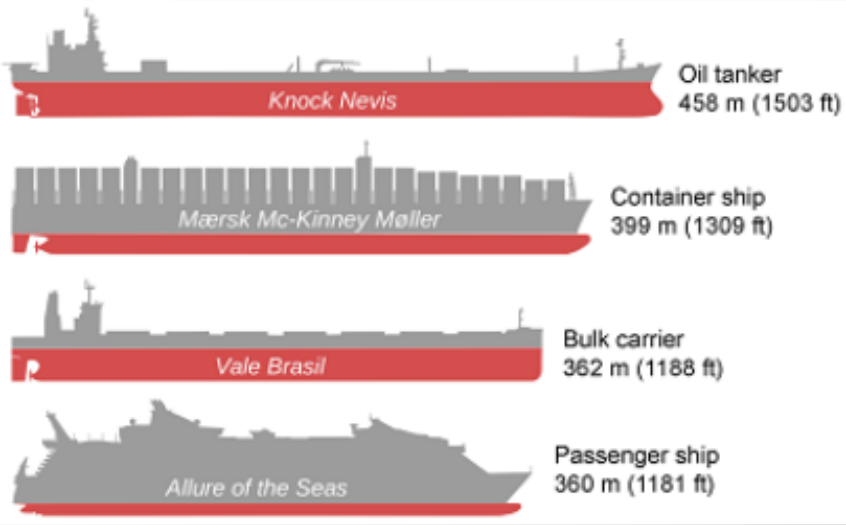
TODAY'S CHALLENGES IN MARINE EMERGENCY RESPONSE

OPERATIONAL REQUIREMENTS & TECHNIQUES

- Increasing Size of Ships
- Salvage in Offshore Energy Environment
- Recovery from Increasing Water Depth
  - Pollutants
  - Wrecks (Nairobi Convention)
- Increasing Level of Authorities Participation



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SO, HOW DO WE FACE THESE CHALLENGES?

SMIT – PART OF BOSKALIS GROUP

DREDGING & INLAND INFRA

- Construction & maintenance of ports & waterways, land reclamation and coastal defense
- Civil construction, global environmental development

Boskalis

OFFSHORE ENERGY

- Heavy marine transport
- Logistical management services
- Offshore transport & installation and decommissioning

Boskalis DOCKWISE Fairmount marine

TOWAGE & SALVAGE

- Harbor towage
- Terminal services
- Emergency response
- Wreck removals

SMIT Smit Lamnalco KOTUG SMIT TOWAGE SAAM SMIT TOWAGE

BOSKALIS GROUP

8,500 EMPLOYEES

1,000 VESSELS

75 COUNTRIES

REVENUE € 3.2 BILLION

UPDATE PROJECTS 2015

TOWAGE CAPACITY

HARBOUR & OCEAN GOING TUGS

- 470 Harbour & Terminal Tugs 40 - 90 TBP
- 30 Ocean Going Tugs 80 - 205 TBP

LIFTING CAPACITY

SHEER-LEGS

- Asian Hercules III 5,000T
- Asian Hercules II 3,200T
- Asian Hercules 1,600T
- SMIT Cyclone 1,000T

- Taklift 4 2,200T
- Taklift 6 1,200T
- Taklift 7 1,200T

TRANSPORT CAPACITY

BARGES	CAPACITY	LENGTH/DECK	BEAM	
▪ Giant 7	21,000 DWT	137.0/120.0m	36.0m	semi-submersible
incl. 300t heavy compensated crane / 80 Pax Acc. / 8 point mooring				
▪ Giant 5 + 6	21,000 DWT	137.0/120.0m	36.0m	semi-submersible
▪ SMIT Barge 2	14,000 DWT	91.5m	30.5m	ballastable
▪ SMIT Barge 6 – 9	8,000 DWT	84.0m	23.5m	ballastable
▪ SMIT Barge 10 – 14	5,500 DWT	75.0m	23.5m	ballastable
▪ E-type Barges	< 3,500 DWT	50.0-67.0m	13.0-23.0m	

HUMAN CAPACITY – MOST IMPORTANT

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SALVAGE OF MODERN EXPRESS JANUARY 2016

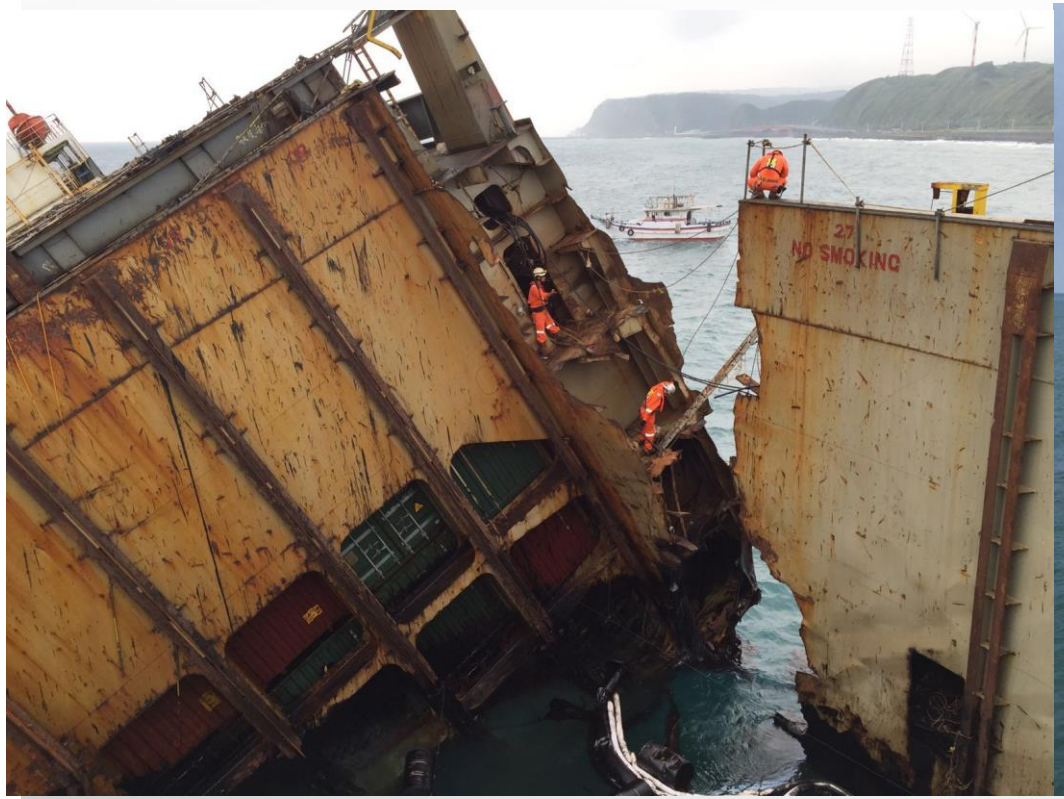
CASE STUDY: RECOVERY TS TAIPEI JUNE – AUGUST 2016

RECOVERY OF TS TAIPEI - CHALLENGES

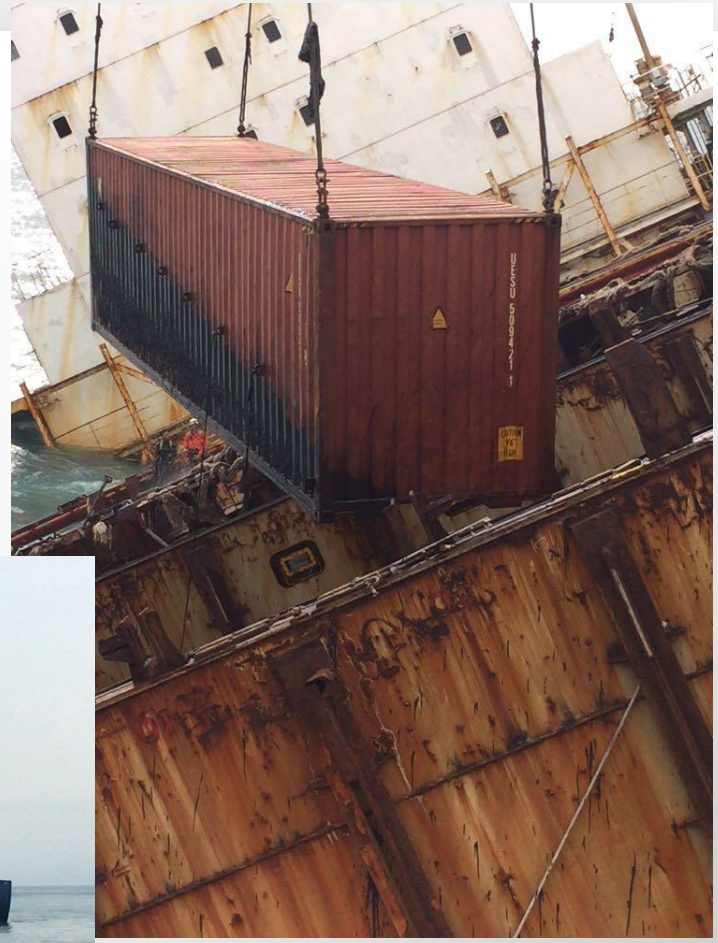
- Location exposed to weather, seastate & currents
- Typhoon season – Autumn season
- Container recovery from holds – 188 containers
- Hydrocarbons trapped inside – Pollution Control
- Unknown damages to hull – Refloating possible?
- Difficult & dangerous working environment

Open

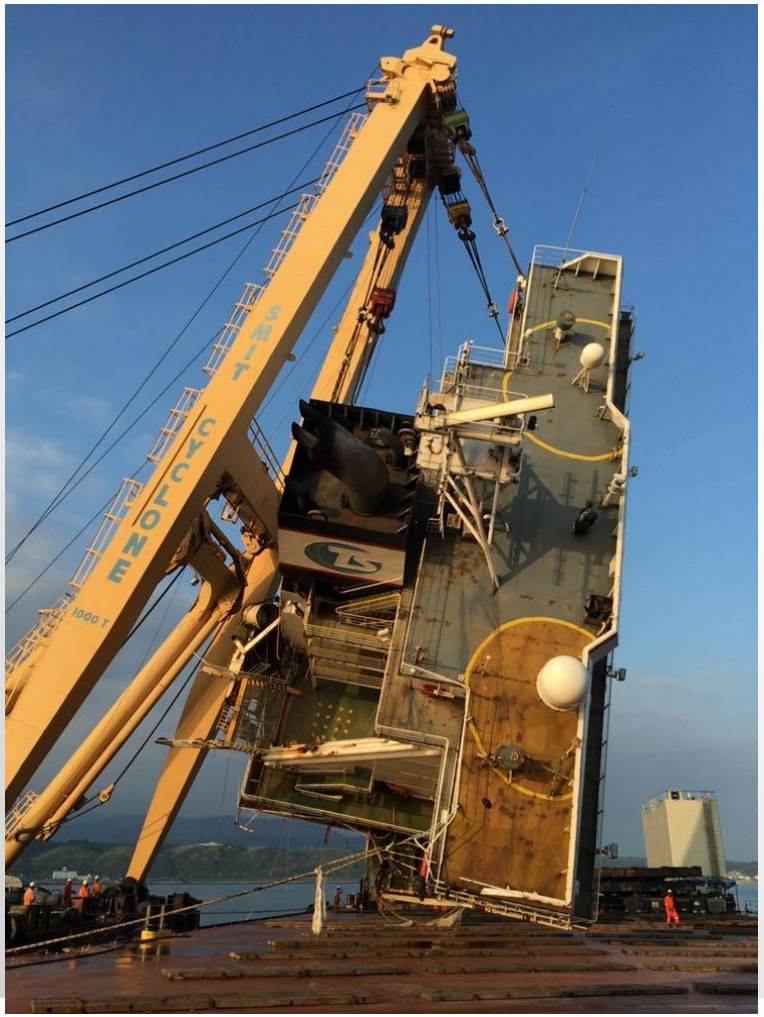
TS TAIPEI – OPERATIONAL MILESTONES



TS TAIPEI – OPERATIONAL MILESTONES CONTAINER RECOVERY



TS TAIPEI – OPERATIONAL MILESTONES MAKE AFT SECTION LIGHTER



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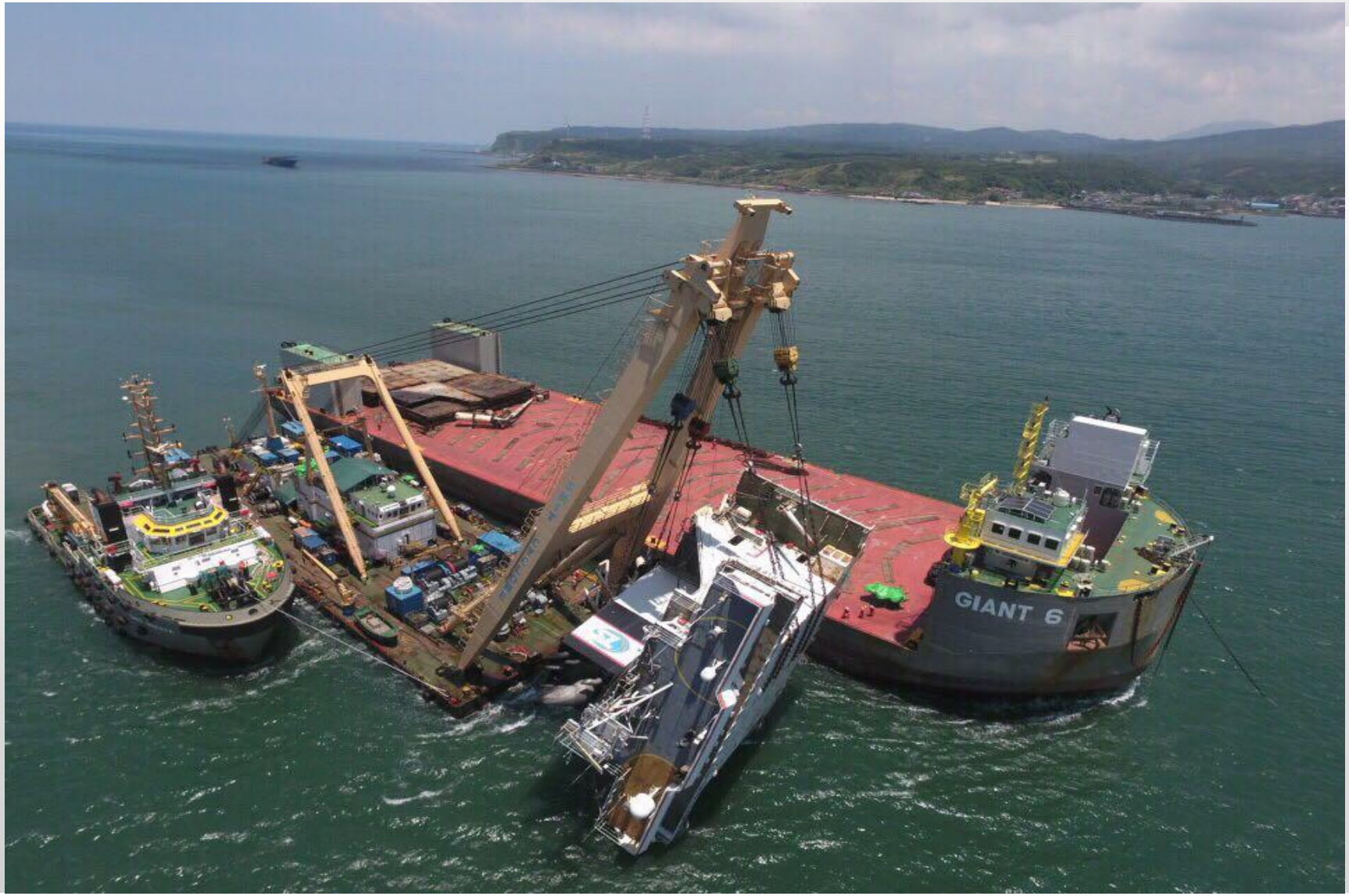
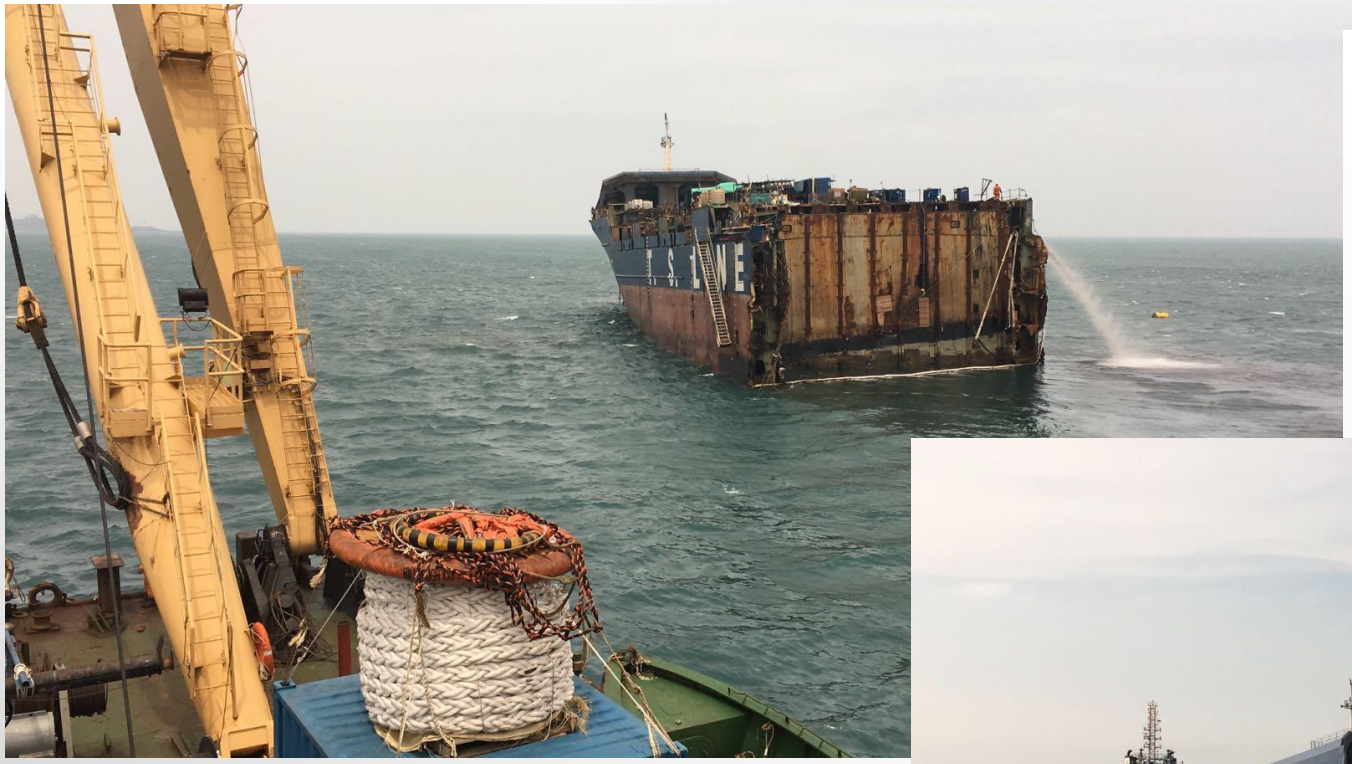
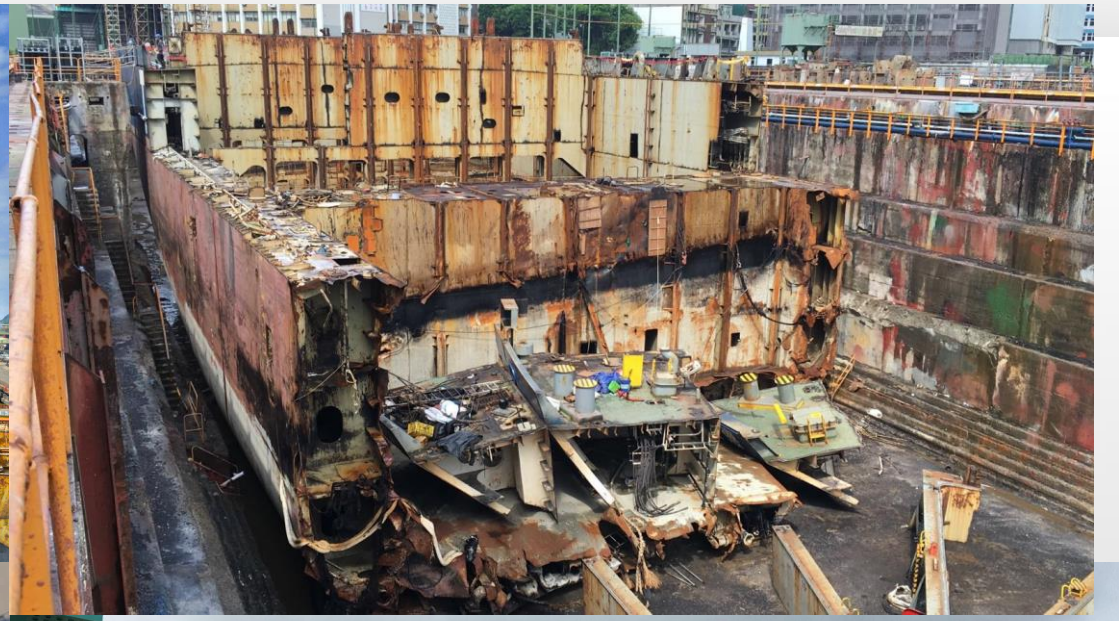


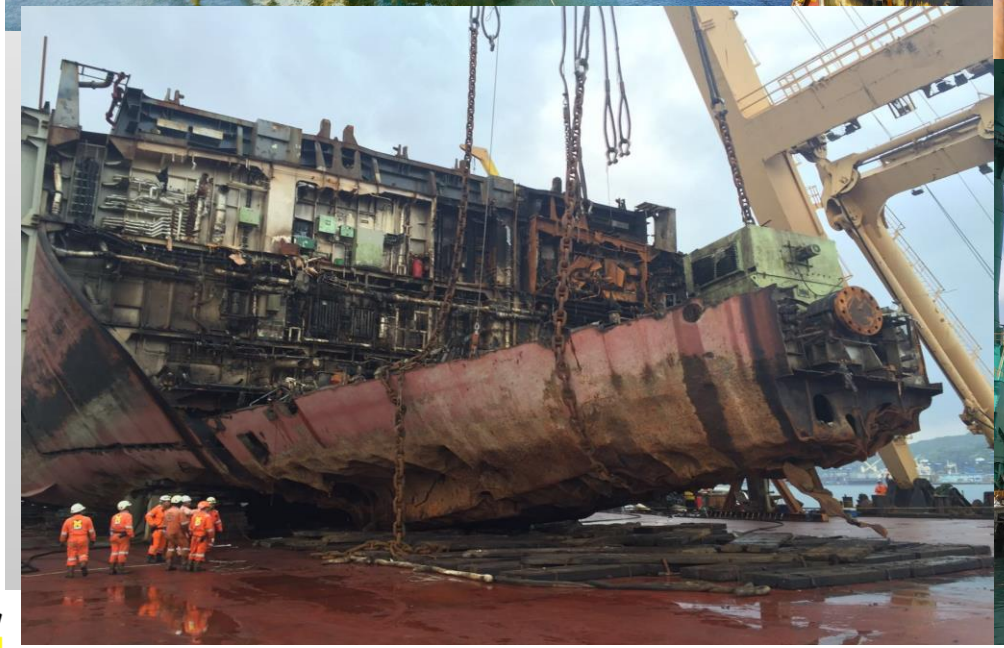
TS TAIPEI – OPERATIONAL MILESTONES REFLOATING AFT SECTION

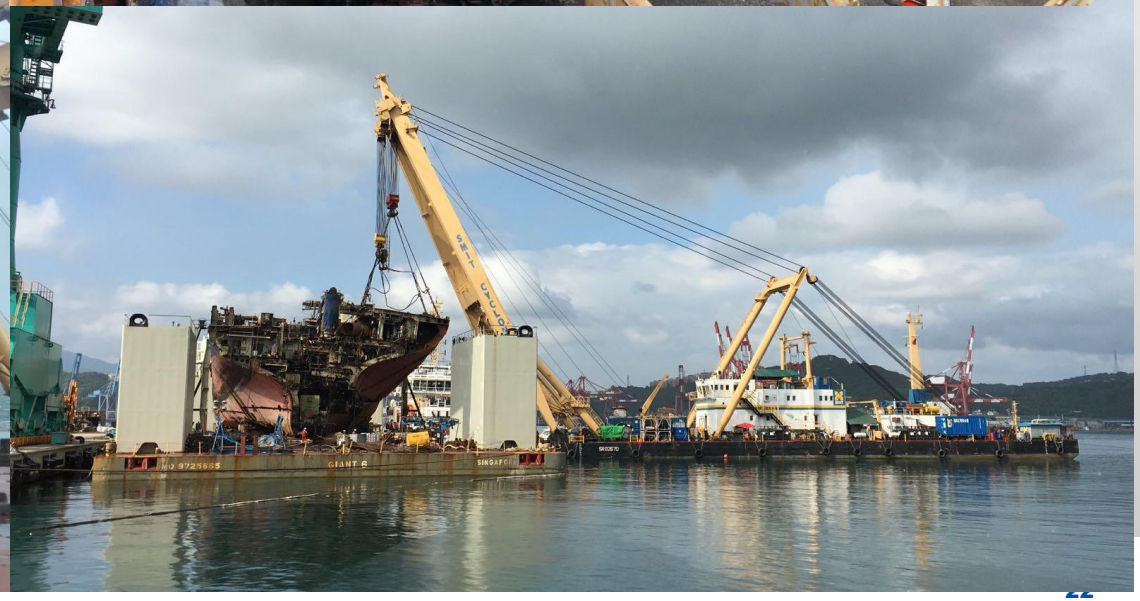
TS TAIPEI – OPERATIONAL MILESTONES REFLOATING BOW SECTION



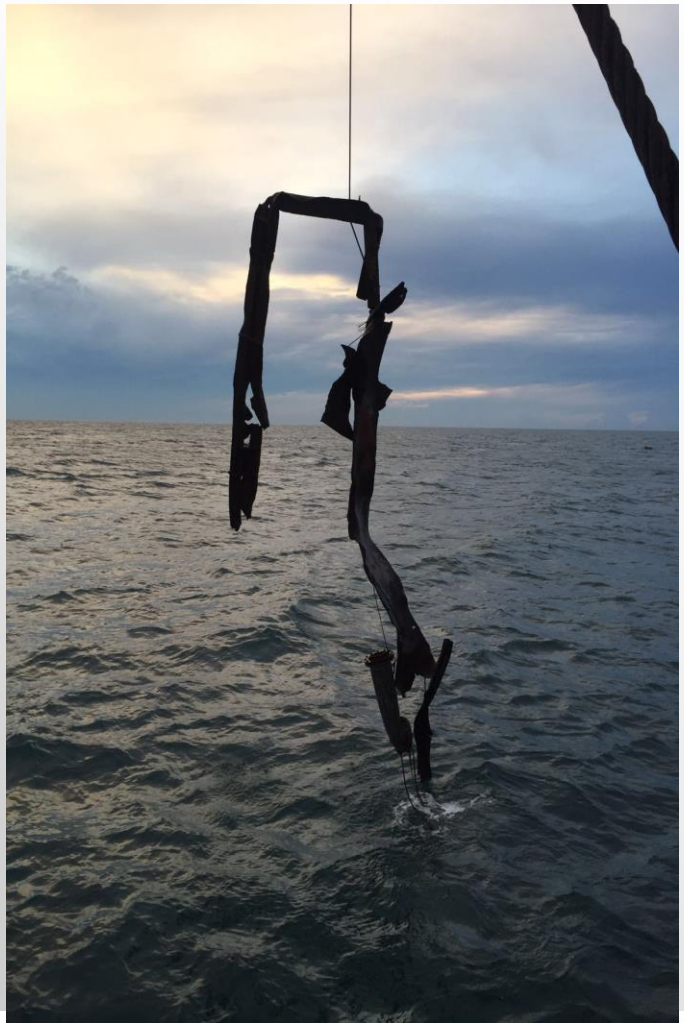
TS TAIPEI – OPERATIONAL MILESTONES
KEELUNG PORT SCRAPPING OPERATION







TS TAIPEI – OPERATIONAL MILESTONES DEBRIS CLEARANCE & TURTLE SAVING

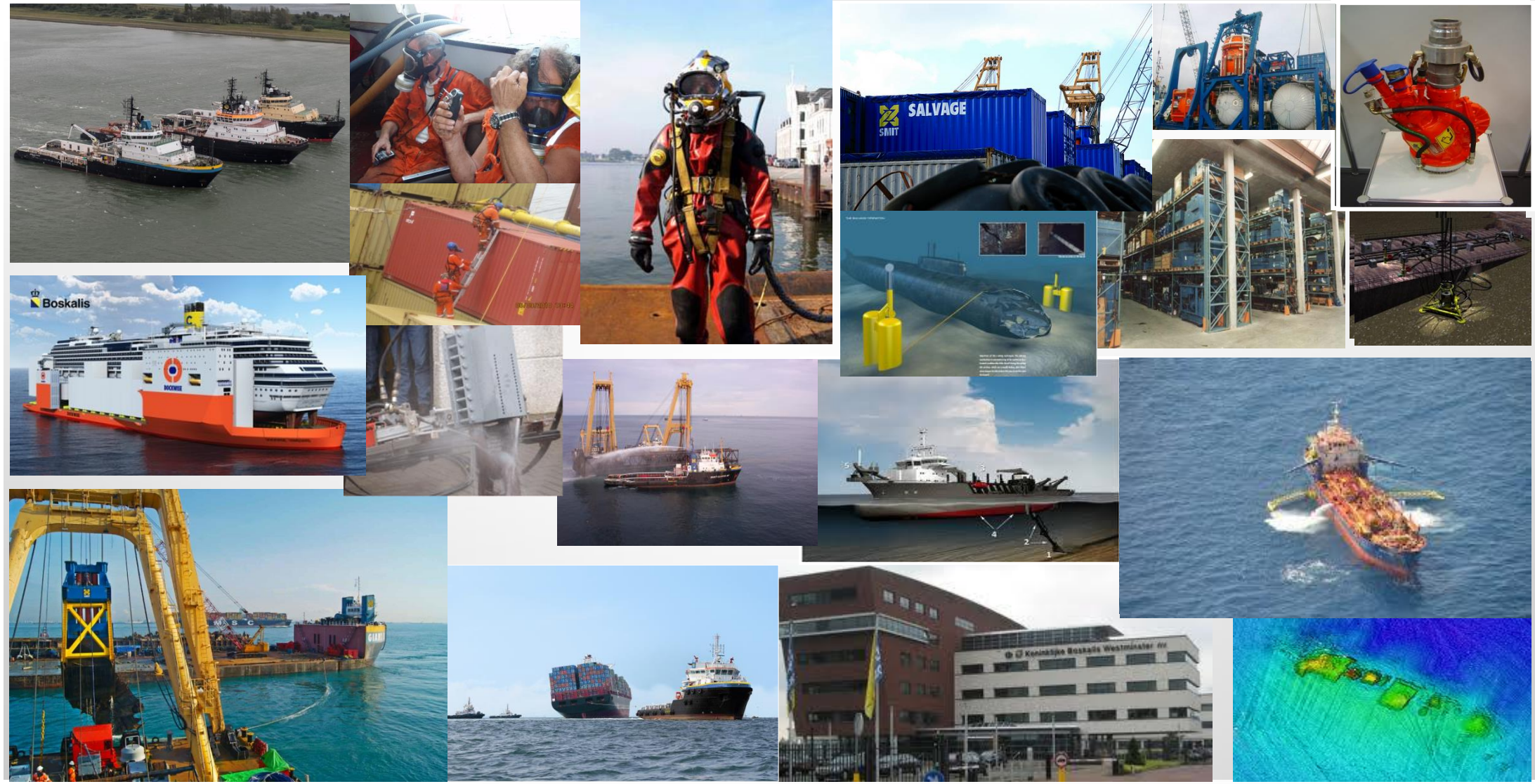


TS TAIPEI – OPERATIONAL MILESTONES COMPLETION

THANKS TO:

- TS LINES & SWEDISH CLUB P&I
- MPB / EPA / COAST GUARD
- OUR PARTNERS: ASIA PACIFIC HARBOUR ENGINEERING
- OUR CONTRACTORS:
- TAI SHIN (CONTAINER RECOVERY)
- JANG CHUNG & CSBC (SCRAPPING OPERATION)

SMIT SALVAGE
INTEGRATED SOLUTIONS



THANK YOU
FOR YOUR ATTENTION!