MARITIME DOMAIN AWARENESS

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AGENDA

• About Saab Maritime Traffic Management
• Maritime Domain Awareness – Practical Applications
• Common Operating Picture – Flinders Ports
• Potential for Canadian Waters
• Q & A
MARITIME TRAFFIC MANAGEMENT

Portfolio: Vessel Traffic Management Information Systems, Coastal Surveillance, Port and Terminal Management Systems, AIS Transponders, Hydrography

Deployed at: 120 ports or authorities including 5 of the top 11 container ports

Key markets and customers: The Netherlands, North America, Europe, Africa, Middle East and APAC

YOUR TRUSTED PARTNER IN MARITIME SOLUTIONS

• Main sites
  The Netherlands, Apeldoorn
  Sweden, Linköping
  Canada, Vancouver
  Belgium, Antwerp
  India, Chennai
  China, Hong Kong
CANADIAN PRESENCE


- Canadian Customers:
  - Pacific Pilotage Authority (1985)
  - Great Lakes Pilotage Authority (1998)
  - Laurentian Pilotage Authority (2002)
  - Port of Prince Rupert (2015)
  - Port Saint John (2016)
MDA – PRACTICAL APPLICATIONS

IMO Definition:
“Effective understanding of anything associated with the maritime domain that could impact the security, safety, economy, or environment”

Saab’s vision:
DELIVER USER-FRIENDLY ACCESS TO THE MOST ACCURATE AND TIMELY DATA AVAILABLE FOR A PORT OR MARITIME TRAFFIC AREA
SAAB MTM – MARITIME DOMAIN AWARENESS

Coastal Surveillance

Marine Geomatics

VTMIS / Port & Pilot Management Information Systems
HOW SAAB DELIVERS MARITIME DOMAIN AWARENESS

**Movement Data**
- Vessel Details
- Schedule
- Agent
- Cargo
- Dangerous Goods

**Planning Analysis (Business Rules)**
- Traffic Conflicts
- Drafts & Air Clearances
- Tide / Currents
- Resourcing (Tugs, pilot …)

**Port or Pilot Management System**

**Real Time Data**
- Tracks (AIS +/- Radar)
- Meteo
- Hydro
- Cameras

**Traffic Plan**

**Common Operating Picture**
KLEINPORT COMMON OPERATING PICTURE (COP)

- Combines AIS or VTS vessel information with KleinPort data and other data sources
- Map-based Web interface
- Accessible via browser by any authorized users
- Configurable by role to display only data relevant to the user and which the user is authorized to view
Objectives:

- Present combined picture of vessel traffic with supporting landside and waterside information
- Extend access across the organization
- Add potential to extend to external parties
- Provide future growth potential
Common Operating Picture
Port Adelaide Approaches
Common Operating Picture
Hydro & Meteo Data
Common Operating Picture
Detail Vessel Representation
Common Operating Picture
Vessel Track Recording
POTENTIAL APPLICATIONS – CANADIAN WATERS

West Coast
- Port Metro (2nd Narrows)
- Seymour Narrows

St. Lawrence
- Restricted channel east of Île Île d'Orléans

Other?
KleinPort COP and Maritime Domain Awareness

- Capture all the relevant vessel data in a common system
- Develop an optimum traffic plan based on all the available information
- Provide a Common Operating Picture of the plan and real-time traffic data to deliver *Maritime Domain Awareness* to key stakeholders

- Benefits:
  - Improved safety and efficiency through more informed and timely decision making
THANK YOU

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