

## Vessel Traffic System (VTS) Fees & BOOT Concept

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## Agenda

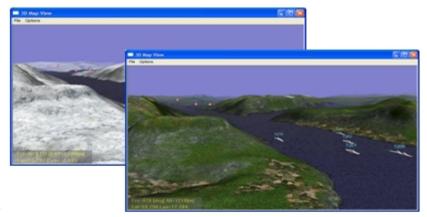
- Kongsberg Norcontrol IT / VTS Concept
- VTS Fees / examples /requirements

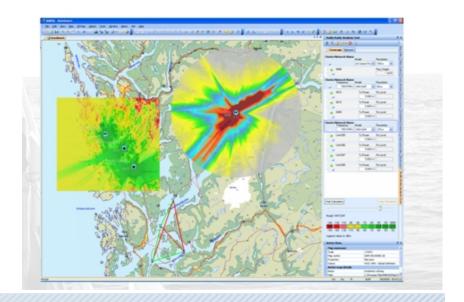
## Kongsberg Norcontrol IT



World renowed and and market leader in development and implementation of Vessel traffic Systems (VTS), Coastal Surveillance Systems and AIS Networks:

- Over 30 years of experience
- Subsidiares and presence in all continents
- Installed over 220 systems worldwide
- Systems installed in over 30 countries
- Over 100 of installed systems contain at least 3 sensors and/or radars

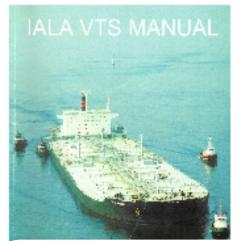


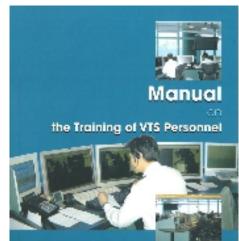


#### *`User Led' initiative...*

- "Shore based needs are currently being developed with the assistance of IALA and are anticipated to fall into the categories of:
- •better data collection for marine domain awareness;
- more effective information management;
- better provision of information to vessels;
- •greater quality assurance;
- •more **effective sharing of information** between authorised shore users to reduce the burden on seafarers and improve logistic management; and
- •To support Search and Rescue (SAR) operations by improving access to relevant information and ensuring effective communication."

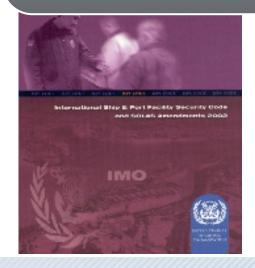
**Ref**: IALA FAQ ver 1.5 dated Sept 2010







# e-Navigation





#### Maritime Domain Awareness

# WONGSPER!

#### Situation Awareness

- -Real time monitoring of maritime domain with multiple sensors
- Recognised Surface Picture/Common Operating Picture for all users
- Multi Sensor fusion

#### Prevention

- Accurate, timely and user friendly data flow enabling high risk situations to be identified
- Port Security and act upon illegal activities

#### Port Efficiency

- -Berth and Port programming
- -Anchorage allocation and integration into administrative procedures (invoicing, resources, etc.)





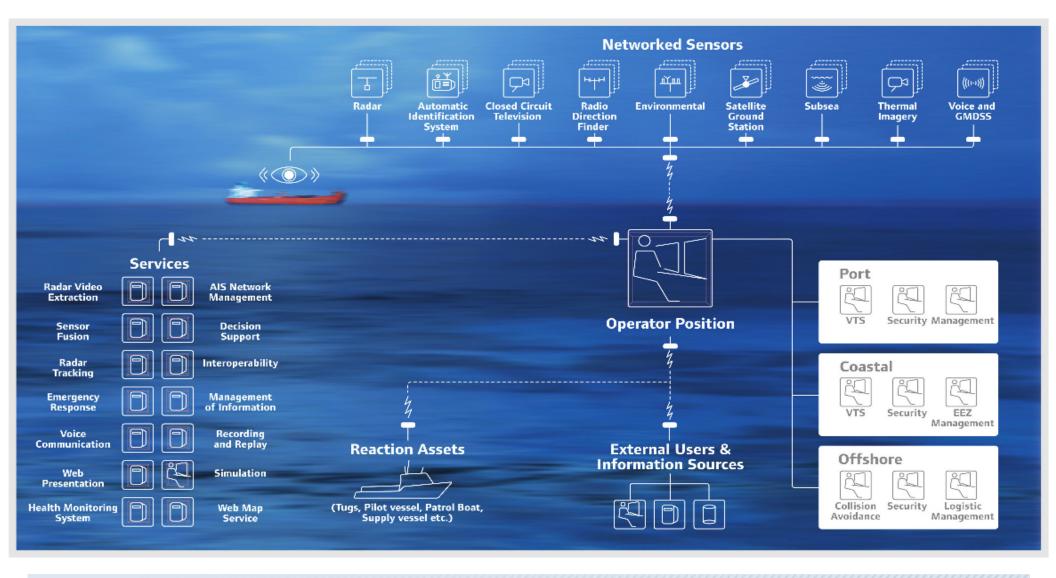






## C-Scope – System architecture





## External sensors



















## Requirements for establishing a VTS Fee



#### **Preliminary Requirements:**

- Legislature in place (national, regional or port Legislature)
- Similar concept to current AtoN's fees charged by Ports today
- Compromise by Port Authority / Maritime Authority to implement system
- 24/7 operation with reaction assets ready to be deployed
- Construction permits and clearance

#### **Operating Requirements:**

- Formal establishment of "VTS Fee"
- VTS Fee of USD x.x per DWT or USD x.x per mt of LOA, or flat fee
- VTS Fee to be within reasonable boundaries to prevent lack of port competitiveness or large impact
- Be part of "no due certificate" prior to departure
- VTS Fee increase mechanism over the years (legislature)
- Insure maintenance, mid-life upgrades and major upgrades

## Advantages of establishing a VTS Fee



#### **Economical and Operational:**

- Decrease cost for investment in VTS system and maintenance as well as manning
- Better vessel programming, berth allocation, designation of pilots and other resources
- Possibility of info-linking into port administrative system, and effective mean to charge port expenses (use of berth, for example)
- Improve Port efficiency by means of accurate statistics
- Possibility to reduce Port insurance policy (less incidents of possible collision, boarding, stowaways, etc)
- Improve Port Security overall





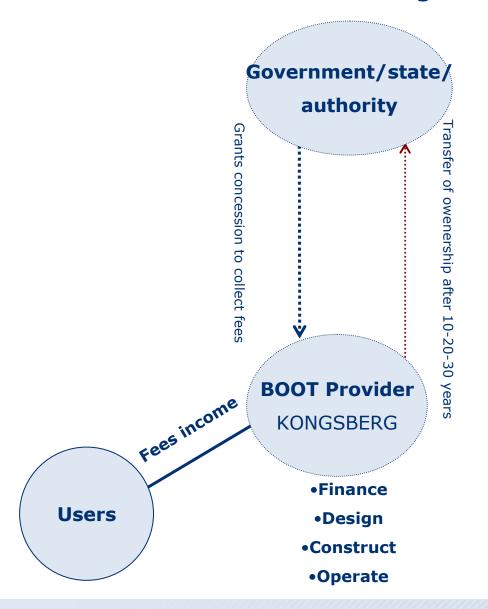
## BOOT - BUILD, OWN, OPERATE, TRANSFER



- A single organization or consortium (BOOT Provider)
  designing, funding, owning and operating the
  scheme for a defined period of time and then
  transferring this ownership across to an agreed party
- The customer enter into long term supply contract with the BOOT provider
- BOOT schemes are becoming popular for means of financing infrastructure developments in e.g. India, Australia, etc.
- A BOOT model is 100 % debt funding / no investment requirement from client (example port authority / maritime authority)
- The key requirement of a BOOT provider is long term contract with the customer
- BOOT terms vary between projects (for example 10-20-30 years)

## Basic BOOT Contract Diagram







New control center Golf of Khambat VTS



# Thanks for your attention

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