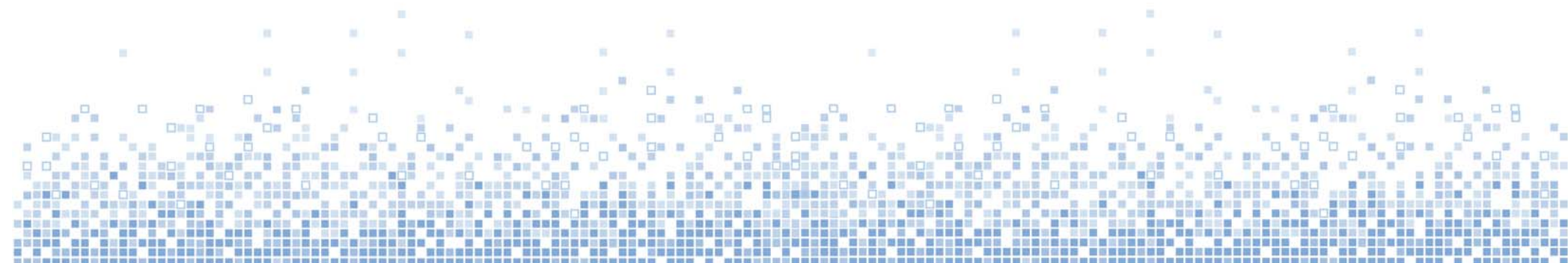


UK eLoran Status

Dr Sally Basker

14 October 2009



The General Lighthouse Authorities of the United Kingdom and Ireland

RESEARCH &
RADIONAVIGATION
GENERAL LIGHTHOUSE AUTHORITIES
United Kingdom and Ireland



Commissioners
of Irish Lights



Northern
Lighthouse
board



Trinity
House

The GLAs shared mission is the delivery of a reliable, efficient and cost effective AtoN service for the benefit and safety of all mariners

Statutory Service

Emergency Response

Mark wrecks and remove if necessary

Prevention

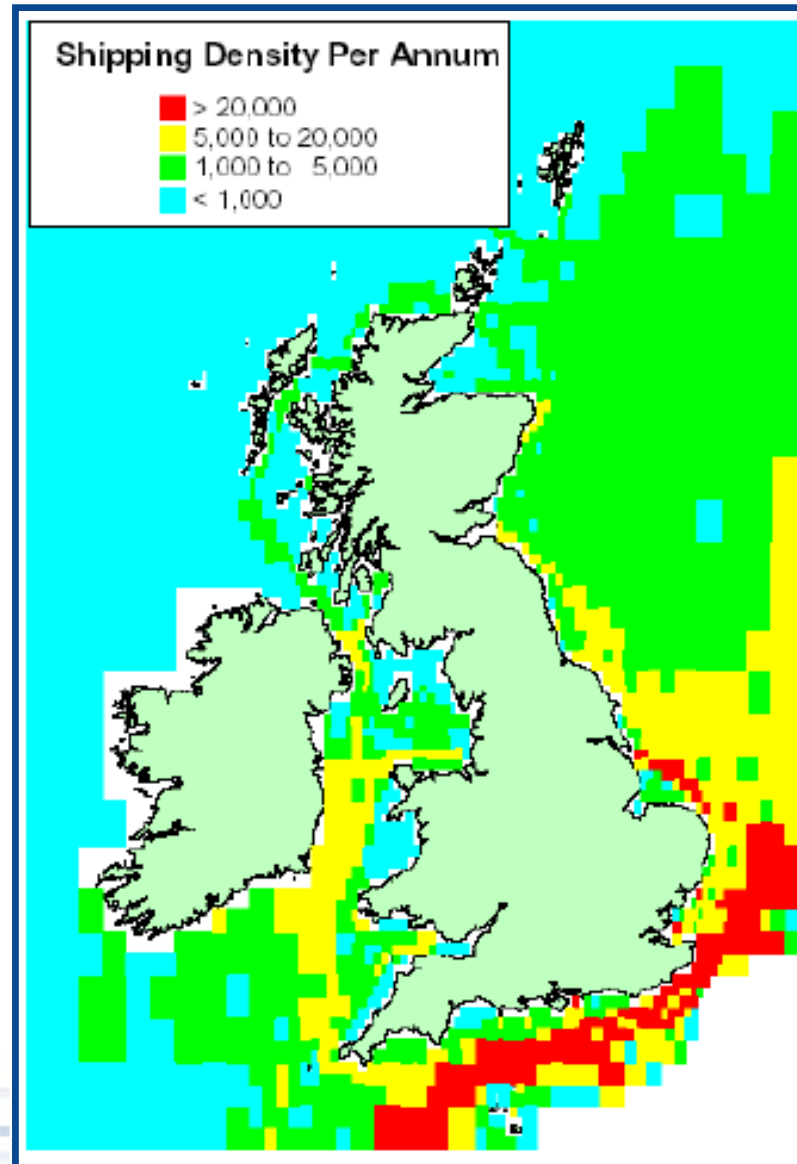
Provide aids for general navigation

Inspection

*Superintendence and management of all
aids to navigation*



A uniquely challenging environment



Source: DfT

3. ENERGY

Growth of offshore
energy industries

More crowded
coastal waters

Additional
energy needed

Population increase
Mass-market consumerism
Energy requirements increase

1. DEMAND

2. CONSUMERISM

Reduction of
system diversity
and loss of skills

High-tech products
displace low-tech
products

Increase in
imports & exports

Larger, faster
ships with fewer, more
inexperienced crew

Increased maritime risk demands a high-tech response



Probe slams errors that led to
Riverdance grounding
3 September 2009

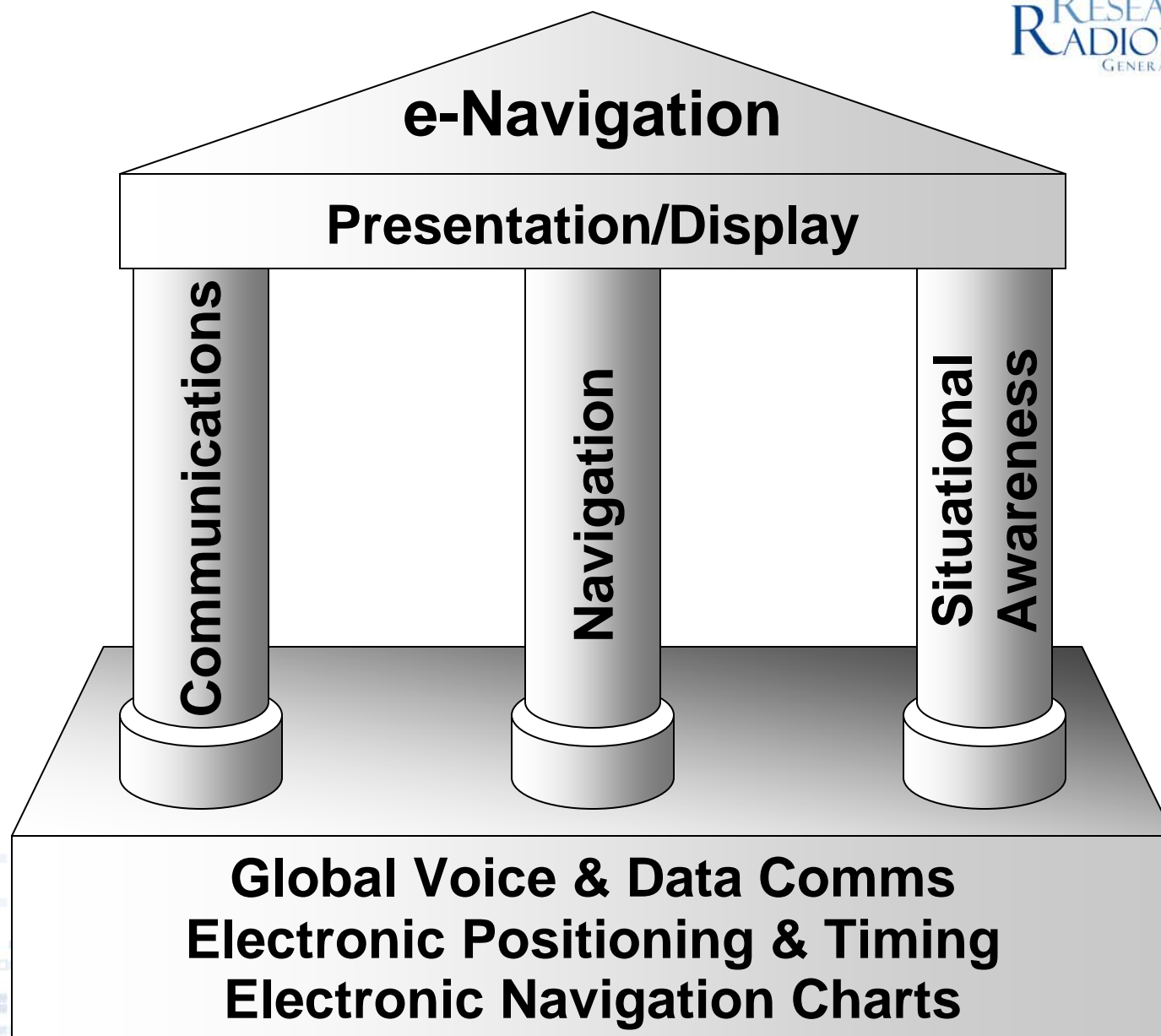


Naphtha tanker collision
raises safety fears over
Malacca Strait. Search
continues for survivors as
explosions rock vessel
following collision with bulker
20 August 2009



Holey ship Damaged boxship
Nikita arrives home
2 September 2009

e-Navigation is the harmonised collection, integration, exchange, presentation and analysis of maritime information onboard and ashore by electronic means to enhance berth to berth navigation and related services, for safety and security at sea and protection of the marine environment



Department for
Transport

 Ministry of Defence

eLoran




Home Office







RESEARCH &
RADIONAVIGATION
GENERAL LIGHTHOUSE AUTHORITIES
United Kingdom and Ireland

[dstl]



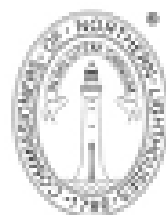
The University of
Nottingham



Trinity House

GARDIAN

HELIOS



chronos
TECHNOLOGY



ROUGH



- Urban Trials - 2005/06
- Urban Trials - 2007/08
 - UG MEng Final Year Project
- L&T KTN EPSRC CASE PhD with GLA
 - Enhanced Loran Data Channel Performance and Integrity
- MSc Projects 2009/10
 - Investigation of the use of eLoran for Road Users (with TRL)
 - Use of eLoran on Large Naval Vessels
- UG MEng Final Year Project 2009/10
 - Urban positioning using eLoran

