E-Navigation Underway
2013

Peter Hinchliffe
Secretary General
We become not a melting pot but a beautiful mosaic. Different people, different beliefs, different yearnings, different hopes, different dreams.

US President Jimmy Carter

A different world cannot be built by indifferent people.

Peter Marshall
E-Navigation Stakeholders

- IMO
- IALA
- National Administrations
- Electronic Industry
- Research Institutions
- (ICS) International Shipping Industry
The Shape of E-Navigation?

- Architecture
- Technology
- Performance Standards
- Type Approval
- Carriage requirements
E-Navigation
Ship/Shore Interface
E-Navigation
ECDIS

• Industry input
• Unexpected anomalies
• Training
• Standardisation
E-Navigation Training

• STCW Functional requirements
• E-Navigation Module
• Training shore-based operators
E-Navigation
Sustainability

- People
- Profit
- Planet

- Is it Global?
- Is it Ship & Shore?
E-Navigation

“Navigating more safely ..... 
..... together”