

# e-Navigation – Who is paying for the Party?

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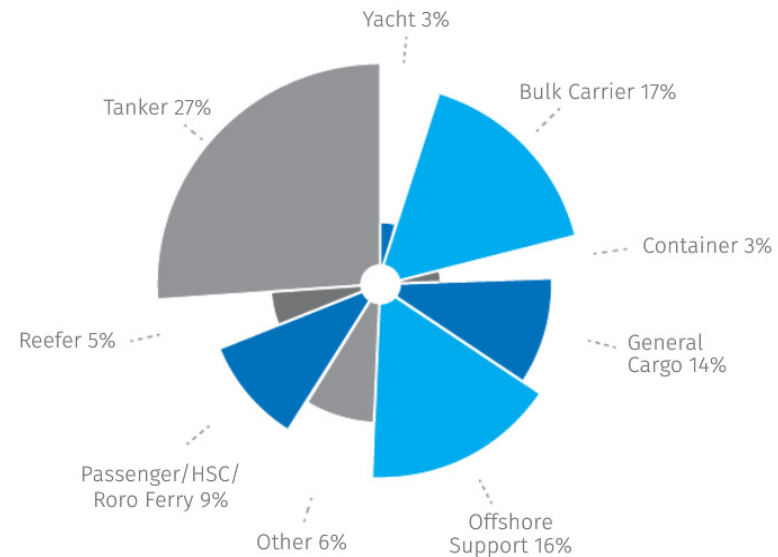
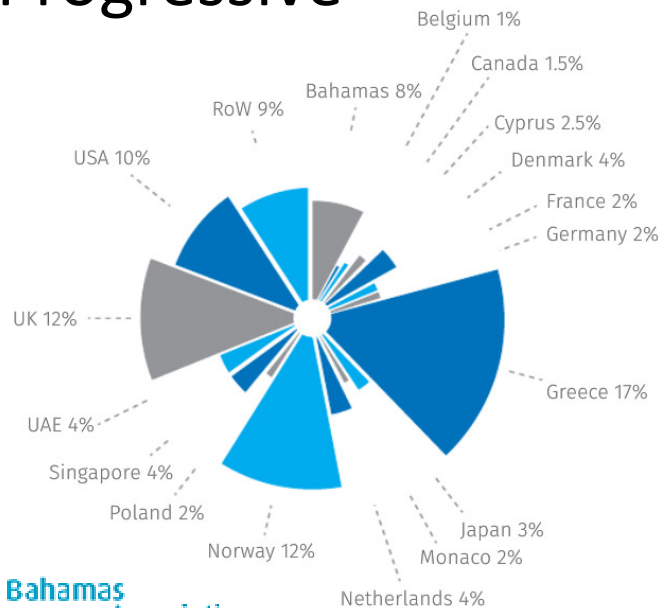
# Outline

- The Bahamas Shipowners Association
- Direction of e-Navigation
- Costs of e-Navigation
- Implications for shipowners
- Who is paying for the Party?



# Bahamas Shipowners Association

- One of the larger Shipowners Association in the world
- Represent approx. 1000 high quality shipowners globally
- On the Paris & Tokyo MoUs White Lists
- Progressive



# Bahamas Shipowners Association

## Our role

- Monitor industry developments impacting BSA members
- Promote members interests to regional, national, and international authorities
- Cooperate with international shipping bodies to promote mutually beneficial interests – ICS, IMO etc.
- Ensure BSA members' commercial interests are represented
- Advance maritime and environmental sustainability at an international level, promoting safety and quality

# BSA Vision

*Proactively pursuing the interests of our Members closely collaborating with Flag State and influencing industry.*

# BSA Values



# e-Navigation – Where are we Heading and Who is running the show?

- Need for an Agreed, Coherent and Worldwide solution
- Regulated or Voluntary?
  - Both, but they need to be coherent
- IMO, IHO, IALA, EU, etc.
- Manufacturers, Projects & Authorities have a responsibility

# Direct costs of e-Navigation

- Costs for Shipowners as well as Authorities
  - Deferred to shipowners...
- Equipment
- Installation
- Breaking in systems



# Indirect costs of e-Navigation

- Socio-technical aspects, e.g.
  - changes to operations
  - training of personnel
  - information overload (info environment)
  - navigational risks
  - information handling
- Cyber risks
- Commercial aspects
  - changes to a historically sound contractual regime





# Implications for shipowners

- Uncertainty
- Cannot see Return on Investment
- Yet another scheme to adapt to
  - Allocation of resources
  - Organisational structures
- Concern regarding supplier / technology driven regulation



# e-Navigation – Who is paying for the Party?

- Technology driven development
- Nice to haves vs. Need to haves
- Manufacturers will want return on investment
- Competing systems
- Minimising costs is decisive





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