From testbeds to Implementation

e-Navigation hits reality

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A flash back

e-Nav Underway

The journey 2011 to 2016
And what now?
The e-Navigation Journey

Setting the Scene
Developing the Concept
Defining the Architecture
Testing the components

Next Stop:
Implementing Solutions
Developing Solutions: Setting Standards and Guidelines

- IMO
  - ECDIS Mandate
  - Establishing the CMDS Concept
  - Software Quality and HCD Guidelines
- IHO
  - Increase ENC Availability
  - S-100 establishment
  - IHO GI Registry stabilisation
- IALA
  - Domain establishment
  - S-2xx development
- CIRM/BIMCO...
  - Software Updating Guideline
  - Cyber Security Guideline
Implementation Projects

• European Union
  • STM Validation Project
    • With PortCDM
  • EfficienSea2
  • EPEDS (Enhancing Port Efficiency through Digital Standardization)

• International
  • SENA: STMS Implementation / SESAME
  • Korea: „Smart Ship“, „Smart Navigation“ and „Green Ship“ initiatives
  • Australia: UKCM in Torres Strait
  • Canada/USA: Saint Lawrence Seaway
Implementing – And promoting it!

- Develop real Solutions
  Those that actually can be used
  - Use existing Infrastructure
  - Develop new Components
  - Utilizing IoT and Big Data

- Promote successful Implementation
  - Implement PR Strategy
  - Find Partners in Industry
  - Use Conferences:
    - E-Nav Underway North America
    - E-Nav Underway Asia
Thank you!

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