e-Navigation test-bed in Finnish VTS's

Finnish Transport Agency (FTA)

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Maritime statistics

- About **8,300** km of coastal fairways and **8,000** km of inland fairways
- Finland has **26** ports kept open all year. About **80%** of the freight traffic is handled by 10 ports.
- Total length of merchant shipping lanes in Finland **4,000** km
- **25,600** aids to navigation (lighthouses, buoys and spar buoys) in the fairways
Background – User needs
Route exchange in practice

ECDIS on board

Routeplan

VTS centre - the route is checked automatically

Information to vessels
Simple chart UI
Experiences - Benefits

- Route cross check – additional safety measure
  • Enhanced monitoring in VTS operations

- Shared information

- Electronical SRS reports – less VHF conversations

- Information in clear graphical format
  • Navigational Warnings
  • Weather and Ice
  • Icebreaker information
Service in practice

Early warnings
Traffic situations in advance

Route Monitoring

Survey Plans
Challenges & Solutions

Systems
Variable IT-systems and environments
Connectivity
Additional e-nav equipment?
Different systems for different users

Services
Simple, easy to take into operations
Benefits already during testing
Development gradually
Data for development

Co-operation
- Authorities,
- Service providers,
- Manufactures,
- Shipping Companies
Co-operation
STM - Winter Navigation Service

- Real time information on icebreaker assistance
- Detailed ice route recommendations
- Assistance information as text messages
- Schedule information to all stakeholders
Machine to Machine
Thank you!

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