PNT Advisory Board 18

Arve Dimmen
Director Maritime Safety
PNT Advisory Board Dec 8, 2016
Norway’s contribution to the Global Geodetic Reference Frame
The Geodetic Earth Observatory in Ny-Ålesund, Svalbard
Ny-Ålesund Geodetic Earth Observatory

Photos: Bjørn-Owe Holmberg
Northernmost tracking of satellites with SLR

Global SLR-map: International Laser Ranging Service, ILRS
"The measurements from Ny-Ålesund will significantly contribute to the study of our changing planet, particularly in our understanding of sea level rise."

Stephen Merkowitz, NASA
Autonomous Vessels

Feb 2016: Technology towards 2030 – autonomous Vessels?

© Rolls-Royce
Test Area «Trondheimsfjorden»

- Established Sept 30th, 2016
- Open for international activity
- Sea trials in small scale already performed
Norwegian Forum for Autonomous Vessels (NFAS)

http://nfas.autonomous-ship.org/index.html

- Established Oct 4th, 2016
- Joint forum for the Industry, Academia and Government
- Contribute to the development of technology, operational safety criteria, regulations etc to support autonomous operations
Coastal state / Authority issues
Challenges and possibilities with autonomous operations

Pilotage?
Vessel Traffic Service?
Emergency Towing?
Aids to Navigation?
Monitoring, reporting and communication?
Effectiveness of seaborne Transportation

Legal framework
CLEAN, SAFE AND EFFICIENT SEAWAYS

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