

Pattern analysis and Clustering techniques for AIS-based identification of lay-ups

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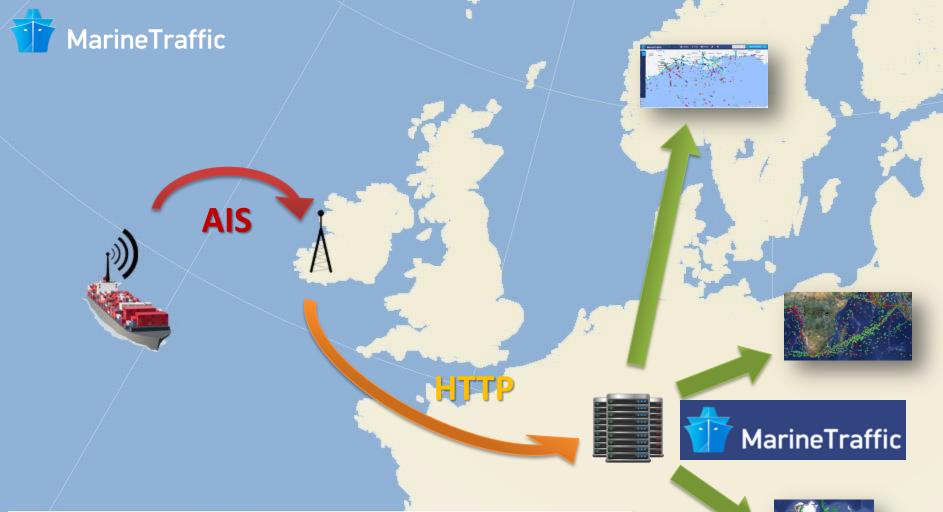


Overview

- Why to monitor lay-ups
- AIS fundamentals
- Use of AIS for monitoring global supply
- AIS based identification of lay-ups
- Where are we now







Automatic Identification System (AIS)

- IMO SOLAS regulation
- Ships over 300 GT
- All passenger ships effective since 31 Dec 2004

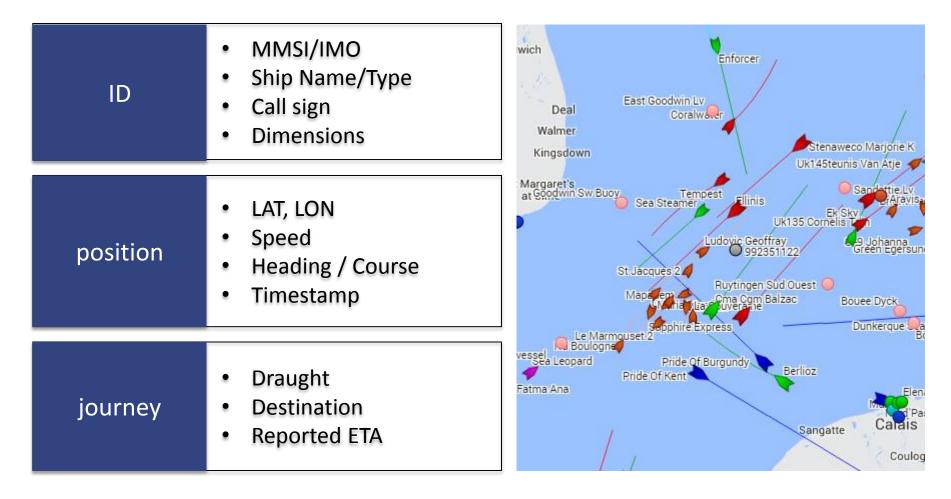


INTERNATIONAL MARITIME ORGANIZATION





AIS Fundamentals





Use of AIS for monitoring supply

- Precise depiction of active Global fleet Current and near future capacity per trade area
- Fleet utilization
- Fleet average underway speed
- Port congestion indicators
 - Lay-ups



AIS based identification of

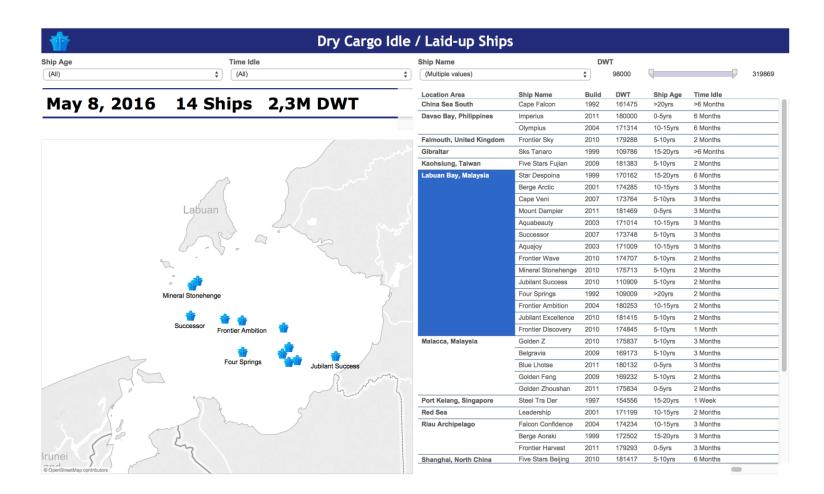
lay-ups

- pattern analysis
 - Idle time
 - draught
 - location
- clustering analysis
 - concentrations





Where are we now



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