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LLOYD'S MIU 

- **1910:** Merchant fleet nearly doubles to 30,058 vessels.
- Movements reported by post and telegram, manually checked and processed, composed for print by hand typeset, proof-read, printed & posted
- **1970:** Data processed on mainframe computer. Customers receive updates via magnetic tape and microfiche

LLOYD'S MIU 

The History of Vessel Tracking

- **1734:** Lists of vessel movements posted in Lloyd's Coffee House – became Lloyd's List newspaper
- **1811:** Lloyd's Agency Network founded
- **1880:** Lloyd's Shipping Index launched, a weekly digest of the movements of the global merchant fleet of 16,769 vessels

LLOYD'S MIU 

- **Mid 1980s:** Reports received/transmitted continuously via fax/telex
- **Mid 1990s:** Dial-up access to Lloyd's MIU data allowing efficient archive search/retrieval and immediate updating
- **2005:** 12,000 vessel positions a day on 90,000 vessels
- **2007:** 32 million vessel positions a day

LLOYD'S MIU 

AIS Data Issues

- “AIS swap”
- Spoofing and Incorrect Configuration
- Erroneous AIS messages
- Wrong directions
- Wrong mooring/underway etc status
- Wrong/missing dimensions
- Strange/missing names/call signs/MMST's.

Movements Data Needs Versus Rights – Part 2

- Ship brokers use movements data
- Suppliers at ports track inbound vessel movements to market their services
- Analysts track movements to analyse global trading patterns
- Cargo consignees track vessels
- Owners/operators track competitor's movements as well as their own fleet

Movements Data Needs Versus Rights – Part 1

- Underwriters track vessels to profile risk, set premiums
- Lawyers use tracking to arrest vessels
- Environmental and regulatory organisations monitor movements, i.e. to determine which vessel was responsible for an environmental incident
- Engine manufacturers track vessels with their engines versus their competitors
- Oil majors and ship managers use movements for chartering and vetting

Vessel Tracking, AIS and LRIT

- A single uncorroborated sighting of a vessel is an unconfirmed sighting
- Until a second unrelated data source corroborates that sighting
- A third corroboration from another unrelated source gives confidence in the accuracy of the data.

Lloyd's MIU AISfleet

- AIS Fleet Tracking at-sea
- Also tracks all vessels within a 50 mile circle of the moving vessel
- At-sea data on supplied to governments
- At-sea data validated against Lloyd's MIU records

Thank-you

*Convergence is happening.
Let's build it right first time!*

LRIT & Lloyd's MIU AISfleet

- **Complimentary systems**
- LRIT does not validate or corroborate the data, but covers the world
- AISfleet only covers the trading lanes of the world but has data-rich at sea positions