

Plenary #2

Data challenges applied to maritime transport

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L'Europe s'engage
en Bretagne / Avec le Fonds européen
de développement régional



TECHNOPÔLE
BREST - IROISE

Crédit Mutuel
ARKEA



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Nautilus Cloud and S-100 Capabilities



IHO S-100 Universal Hydrographic Data Model

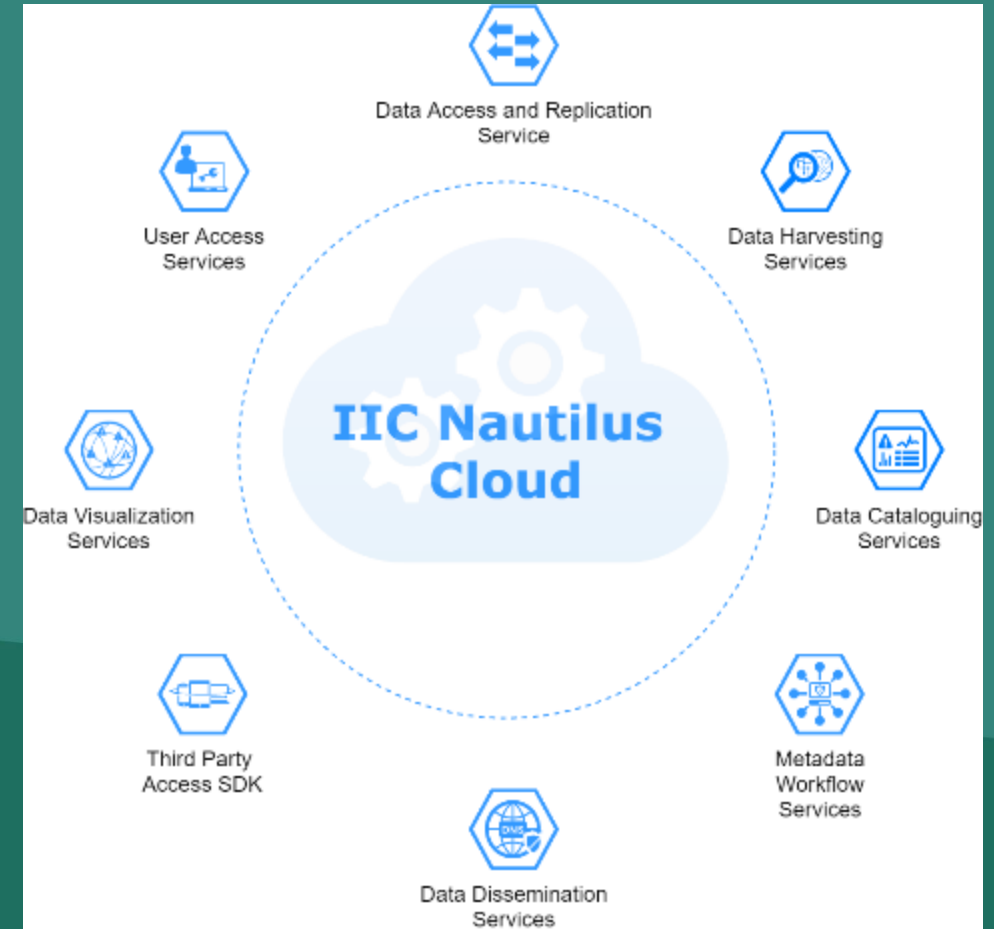
Benefits

- International standard supported worldwide by IHO Member States
- Up to date berth to berth data
- E-Navigation support
- Shore operations support

Challenges

- Volume of data
- Discoverability
- Accessibility
- Interoperability
- Visualization

Nautilus Cloud Solution



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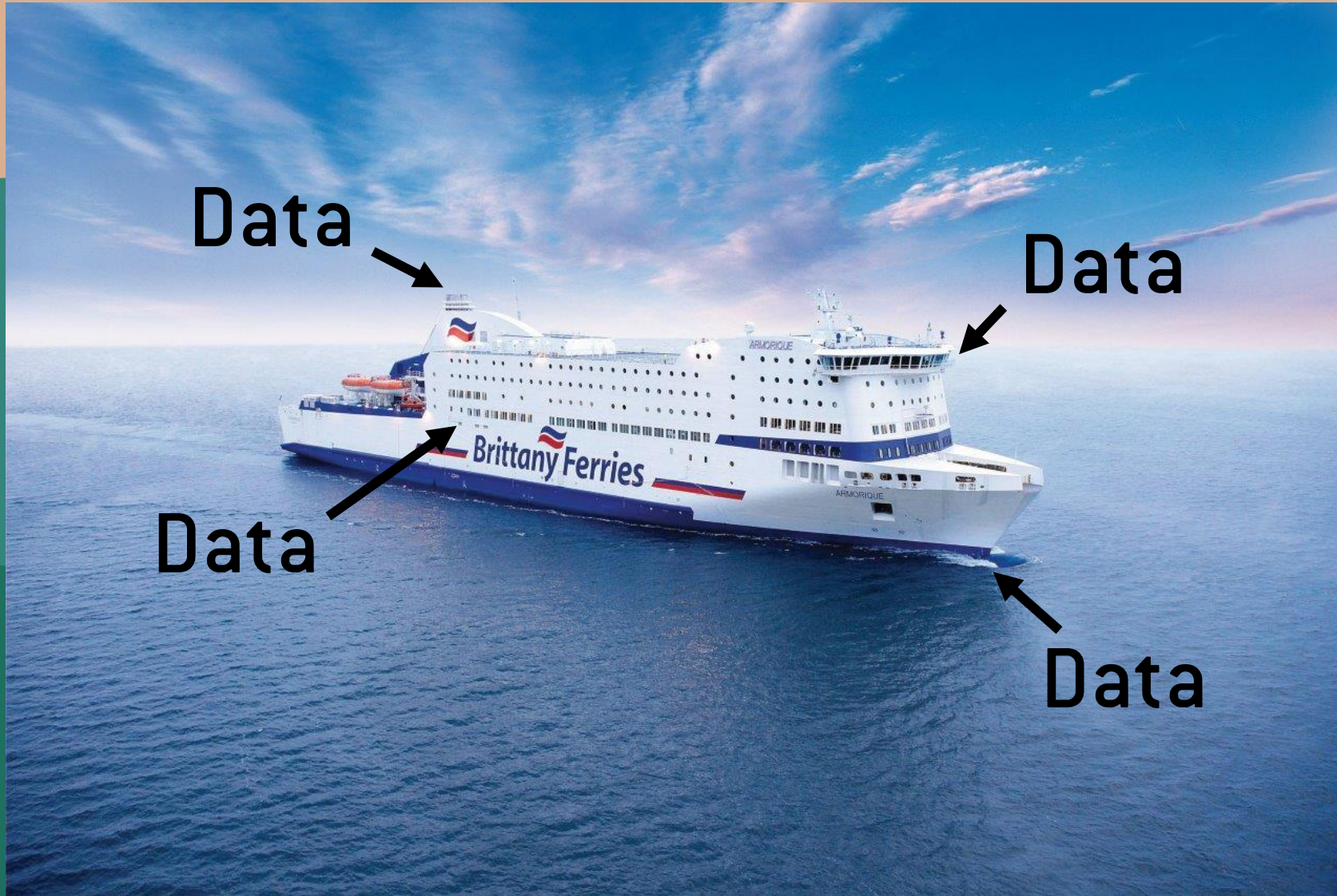


Science and marine transport



Predicting ocean currents and improving weather forecasts is a key for marine transport

- Use Case: Understanding Gulf Ocean Systems – UGOS
 - + 21 Million \$ project gathering the largest American research institutions
 - + 70 scientists to improve ocean forecast models in the Gulf of Mexico
 - + the advances reached will help to improve ocean forecasting models in the Global ocean
- Assimilating in situ data in the forecast models reduces the current and weather forecasts error by 9% compared to assimilating only satellite data
- Increasing the number of autonomous profilers in the ocean might directly benefit the shipping industry



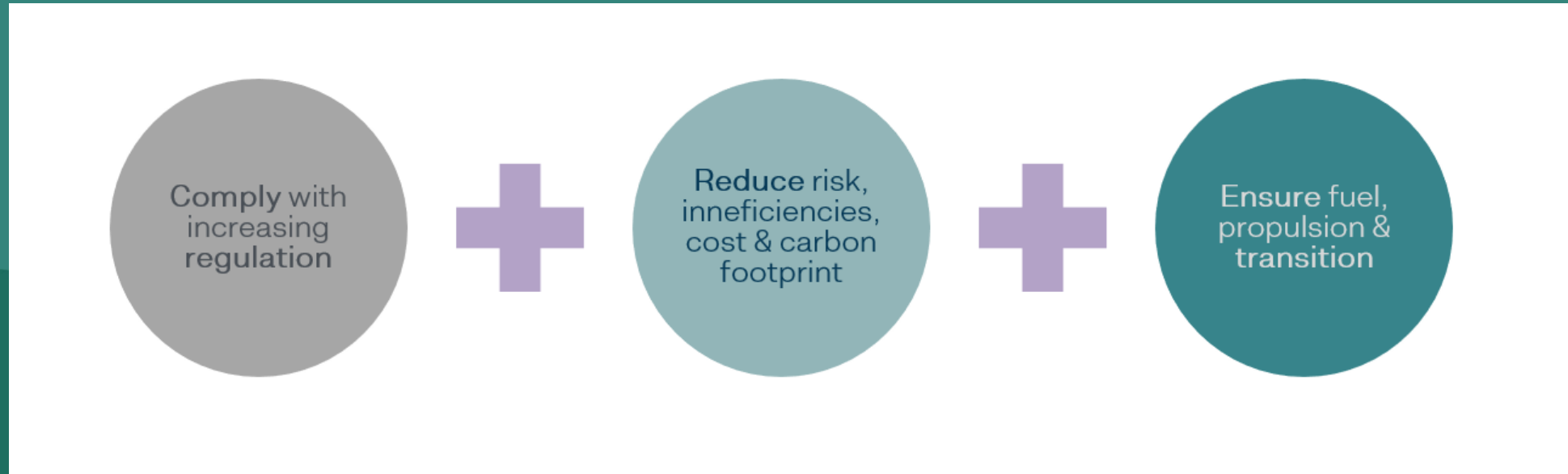


UNLEASH THE POWER OF DATA



THE MARITIME MARKET CHALLENGE

80% of international trade is handled by \approx 70 000 merchant marine vessels that must:



→ Only possible with cleaned & processed operational data



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