



Offen Tankers

Tanker operator and crew challenges today and tomorrow

by

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What are the Problems?

- **8 Years Shipping Crisis**
- **High Demands from the OMs**
- **Environmental Challenges**
- **Regulatory Burdens**
- **Technology Developments**
- **Generation Changes**



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The Tanker Market





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OMs

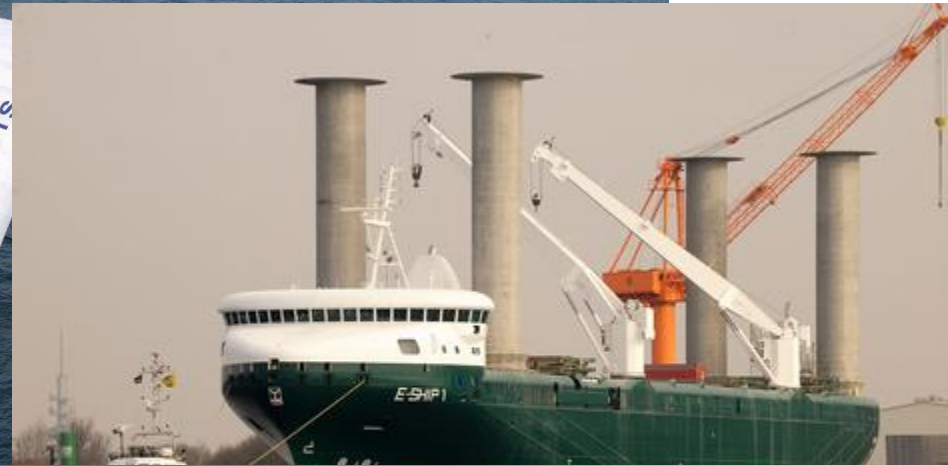
- Highest Star
the Crew an





al Challenges

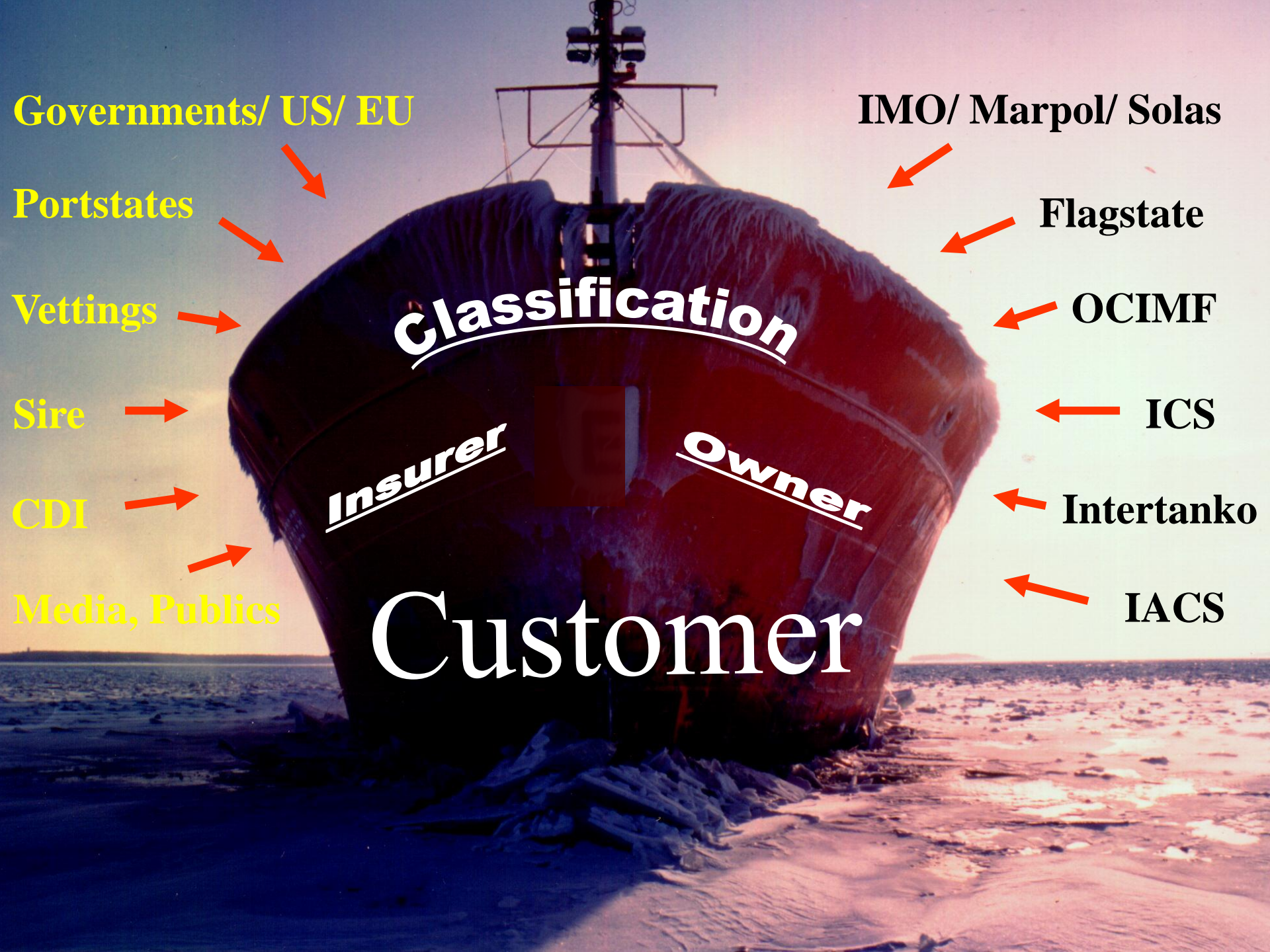
- SO_x, NO_x Reduction
- Carbon Footprint
- Emission Trading
- SECAS
- Ballast Water Management





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Regulatory Burdens



Governments/ US/ EU

Portstates

Vettings

Sire

CDI

Media, Publics

IMO/ Marpol/ Solas

Flagstate

OCIMF

ICS

Intertanko

IACS

Classification

Insurer

Owner

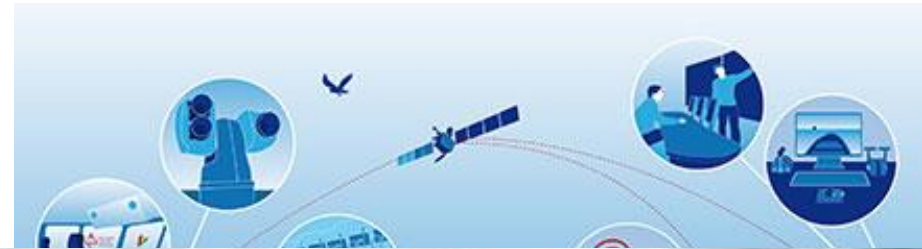
Customer



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Technology Developments

- Fuel Change – Over Procedures
- Electronic Engine
- Big Data/ Shipping 4.0
- Autonomous Vessels





Wages

Work Safety

Working Hours

Family & Friends

Internet

Big Data

Tier III

Unmand Vessel

EEDI/ EEOI



- Work – Life
- Influence o
- Adaption o



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Conclusion

- **Is Shipping geared to challenge all demands ?**
- **Are Shipping Companies positioned to follow the Technology Speed?**
- **Are Shipping Companies flexible for cultural changes ?**

Thank you

Looking forward to a fruitful discussion!



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