



Maritime Update

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Market update



ABOUT DNV GL - The leading classification society

MARITIME

- **Maritime** is our core industry
- **12,400 ships & mobile offshore units** in DNV GL class, 278 mGT
- **Strong presence** in all ship segments
- **Dedicated ship type expert teams** support our clients worldwide
- **Among top performing** class societies in Port State Control statistics

OIL & GAS



ENERGY



BUSINESS ASSURANCE



LIFE SCIENCES



SOFTWARE



200

Maritime offices globally



4,300

Maritime staff worldwide



13,500

employees groupwide

5%

revenue invested in R&D activities

Maritime market outlook – What's ahead of us?

Contraction

- Oversupply and low freight rates
- Extremely low newbuilding ordering
- Downturn likely to continue for at least 2-3 years

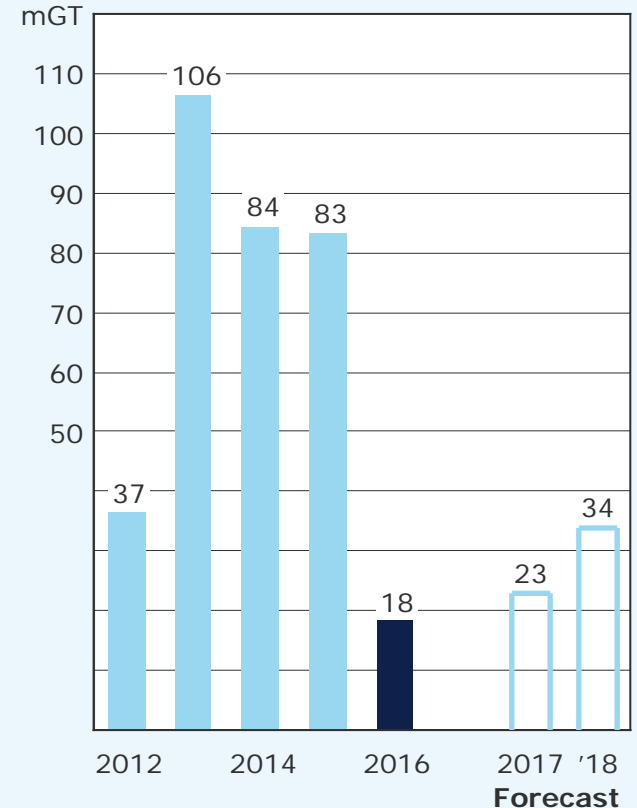
Consolidation & Competition

- Increased and accelerated consolidation
- New alliances and re-organizations
- Bankruptcies
- Most industry players equally hit by the downturn forcing many into restructuring

Increased Regulation

- Enforced Sulphur limits
- Ballast Water Convention

Global Newbuilding Contracting



Very tough market environment for (almost) all segments

Container & Dry Bulk



Drilling & Offshore Service



Crude, Product & LPG



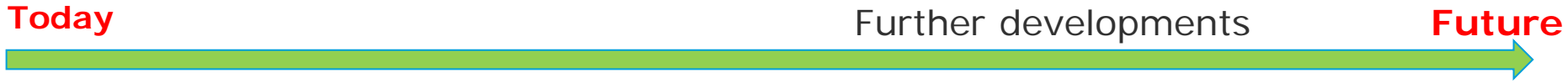
Cruise Vessels, RoPax & Mega Yachts



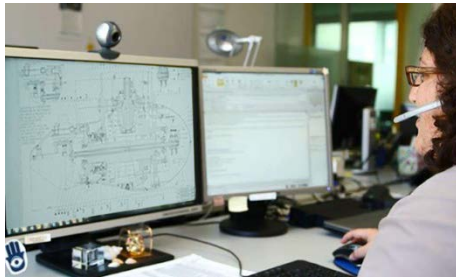
Modernizing Class



Advancing on our digital roadmap to modernize class



In place



DATE
soon as mobile app

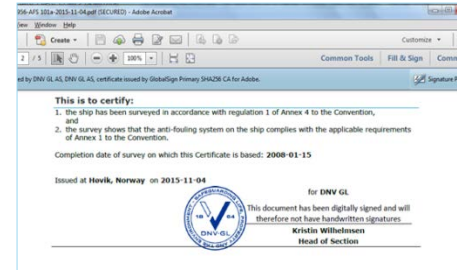
In pilot phase



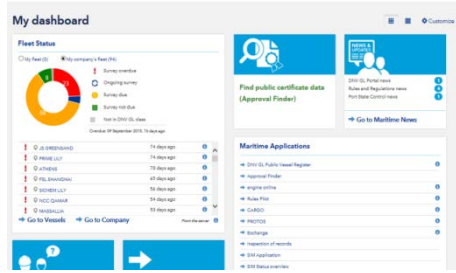
Digital Twin

Further developments

coming "tomorrow"



Digital Certificates



My DNV GL
new applications



Drone surveys &
remote inspection



New Survey
Booking



Linking the elements

Already today, we are **modernizing class to help shipping reap the benefits of digital solutions** by linking the various elements – digital technology, expert know-how, data sets...



Drone Flight



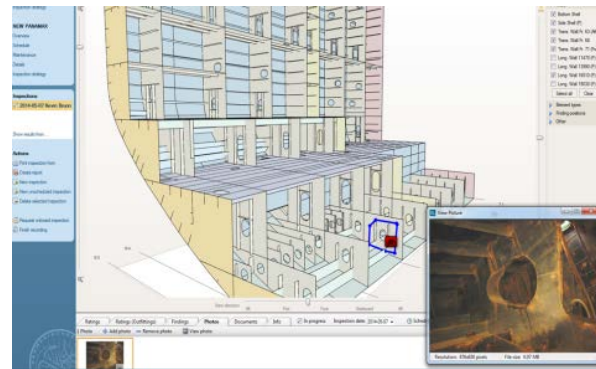
Expert Support



Automatic Positioning



Remote Connectivity



Digital Twin

Digital Transformation



VERACITY

Unlocking the potential of big data in shipping and offshore

A new industry data platform – “Veracity” – to help the maritime industry improve its profitability and explore new business models through digitalization.

Manufacturer

Asset owner

Authority

Operator



Service provider

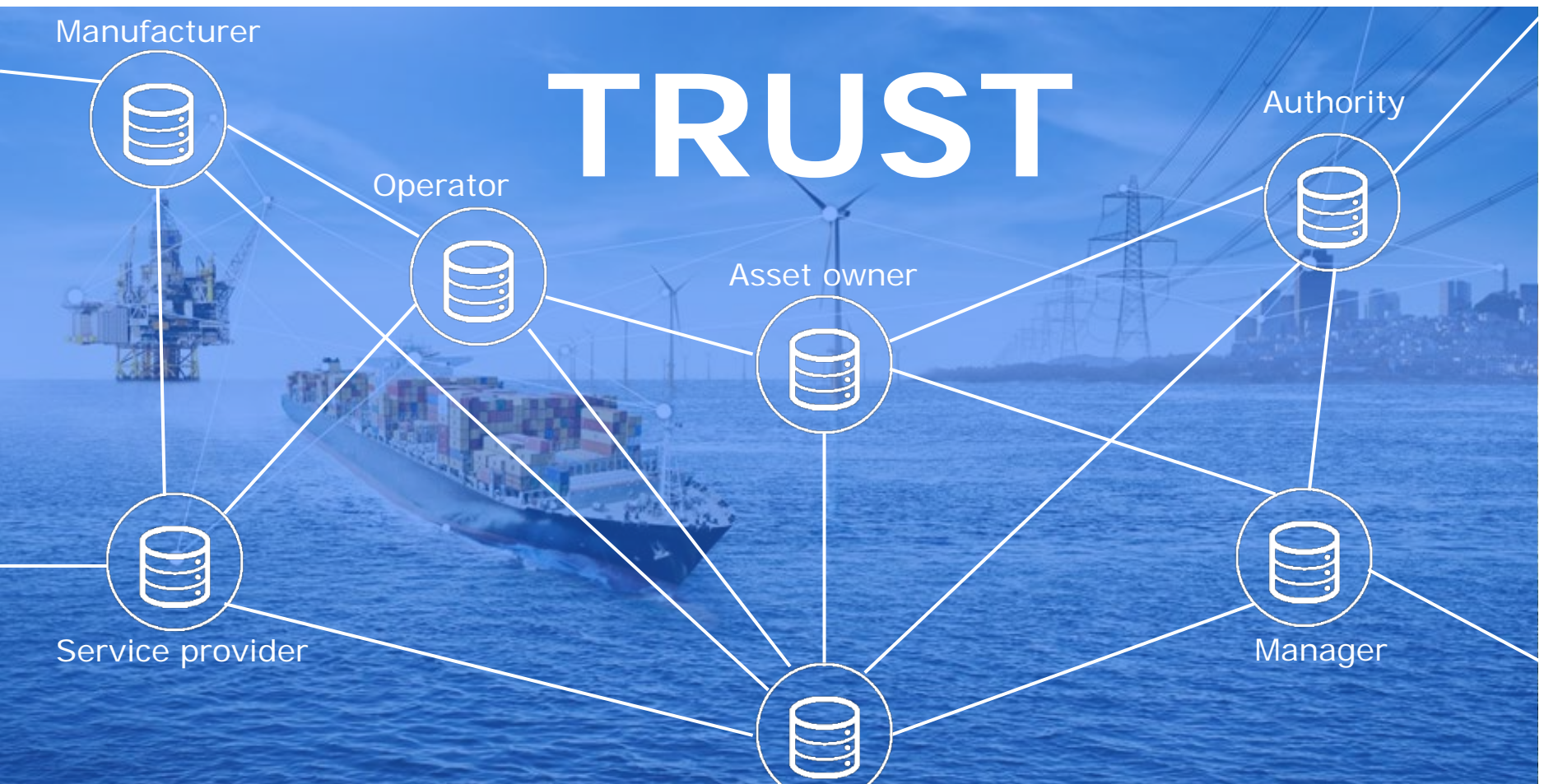
Manager



VERACITY

DNV GL's Industry data platform

Building trust between industry partners from our independent position.





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SAFER, SMARTER, GREENER