



WHEN TRUST MATTERS

DNV Offshore Class

Houston Rig Owners' Committee Meeting

Geir Fuglerud, Director Offshore Classification

05 May 2022

Our purpose

To safeguard life,
property, and the
environment

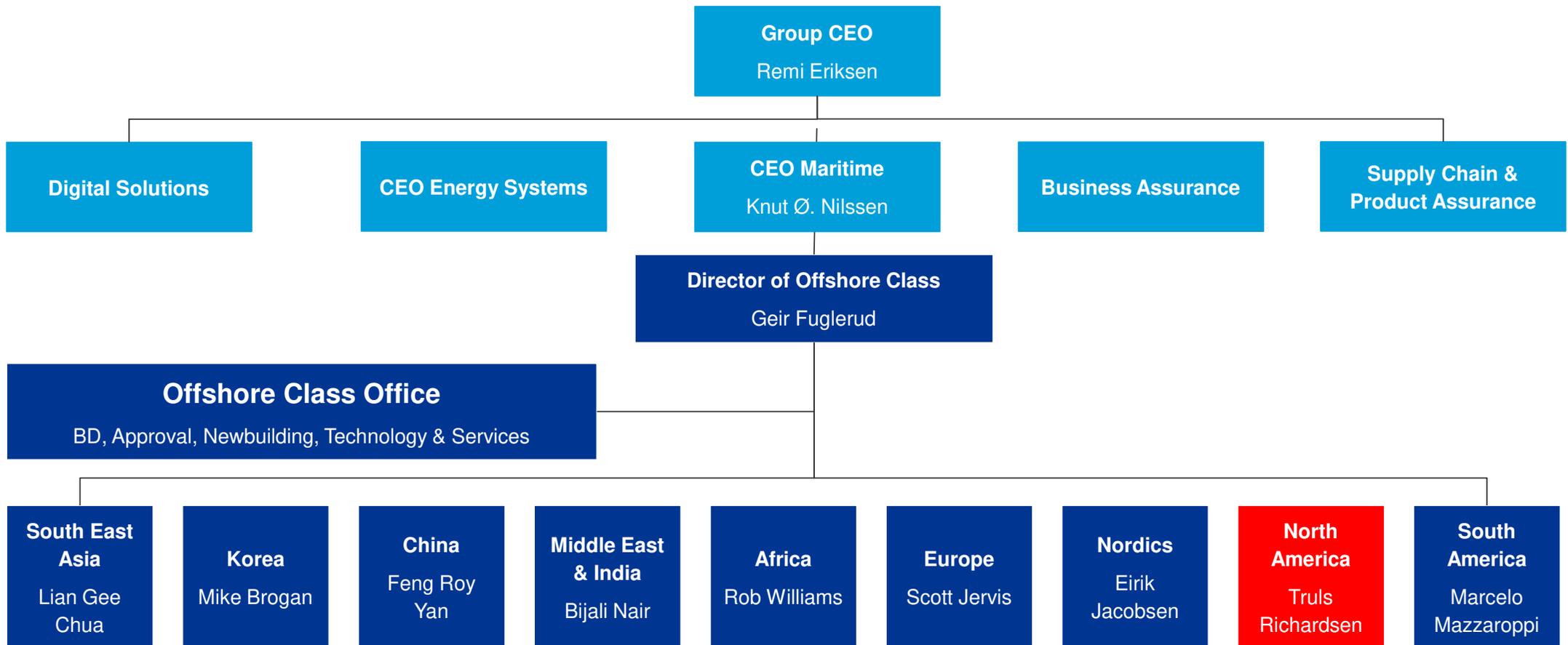
Our vision

A trusted voice
to tackle global
transformations

Organization



Offshore Classification in DNV Group



Offshore Class Office



Offshore Class have full technical and commercial authority for all MOUs in DNV class

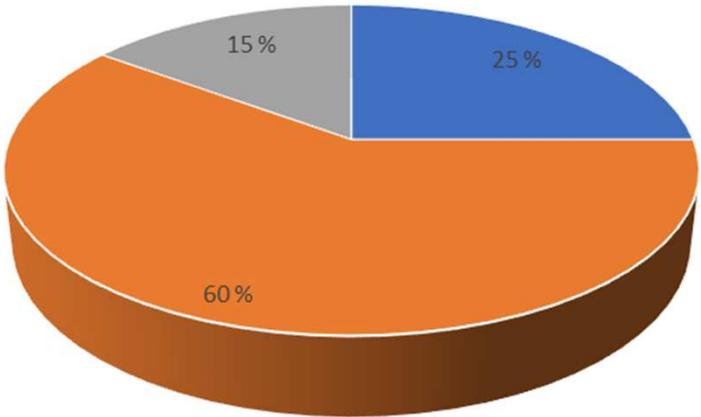
Offshore Class Regional Offices and Approval Centres



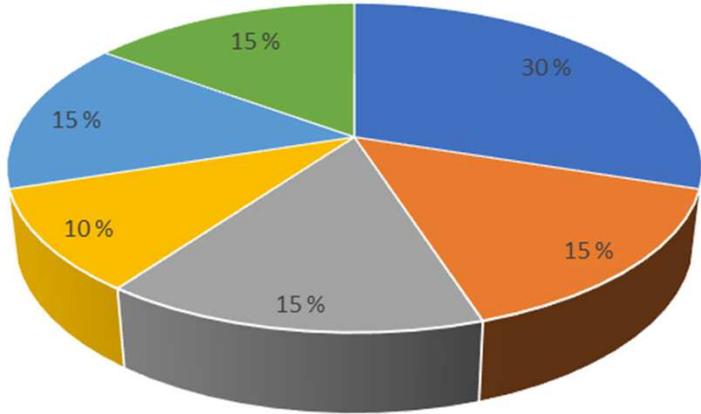
DNV MOU Fleet

364 Mobile Offshore Units in DNV Class

331 in operation, 33 under construction



■ Production ■ Drilling ■ Service



■ North Europe ■ North America ■ South America ■ West Africa ■ Middle East ■ Asia

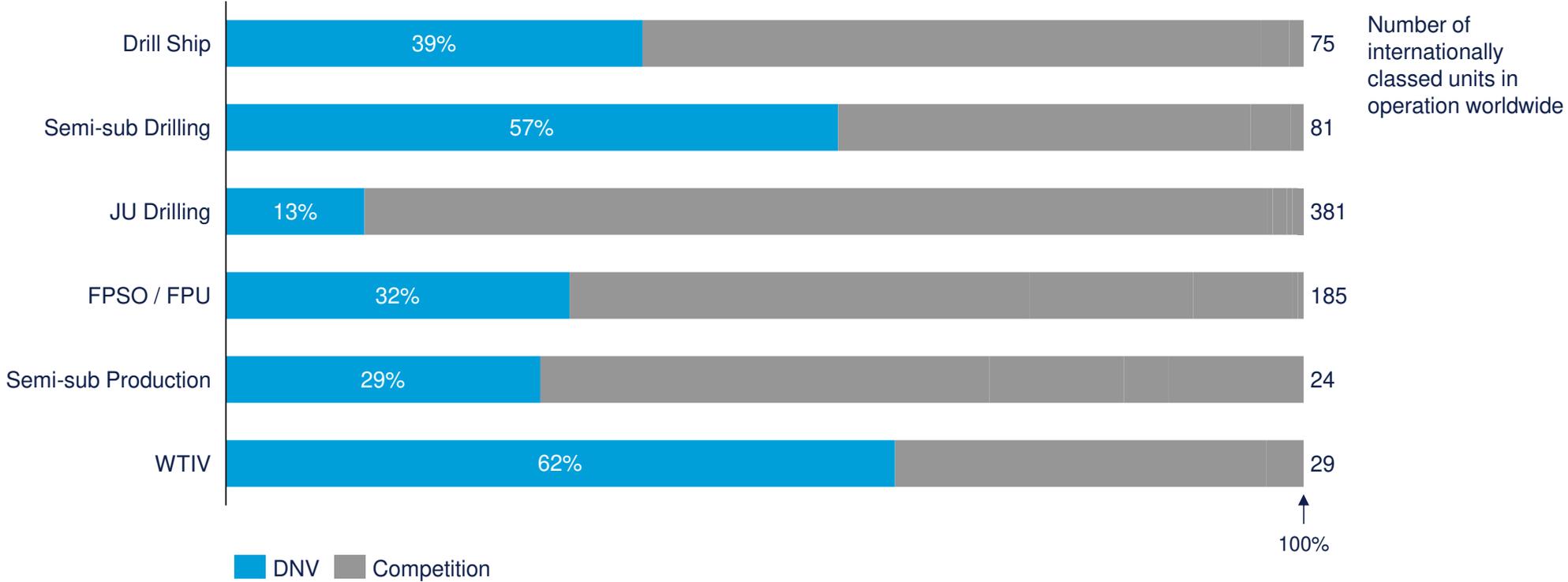
DNV Fleet Market Share Development 2016 - 2021

DNV - ABS
49 6

DNV - LR
11 1

>80% of class entries in this period have been of jack-ups

MOU in operation – Class Market Shares based on number of units



DNV Fleet: Lay-up and Scrapping

	Net <u>into</u> Lay-up	Scrap
2016	48	4
2017	5	4
2018	-12	5
2019	-2	9
2020	17	9
2021	-19	12
2022 YTD	-11	4

Some challenging years but we now see a positive trend on rig reactivations

DNV Offshore Classification: How did we do in 2021?

- 47% newbuilding market share for MOUs overall (9 out of 19 projects won)
- 100% market share for WTIVs (5 projects)
- 3 net positive class transfers to DNV
- We continued the diversification of Offshore Class into the Ocean Space while further strengthening our service portfolio within drilling & production
- Increasing market activity in emerging markets and well positioned for future growth in these segments

Newbuilding Market – What do we expect in 2022?

FPSO, FSO, FLNG

- Production segment will develop strongly
- O&G companies have realized that they need replacement of produced oil
- Energy security vs energy transition
- Likely 10-15 FIDs in 2022

Jack-up drilling units

- Market utilization improving, reactivations and generally a positive sentiment
- Market consolidation
- Very few newbuilding expected
- Scrapping of old/uncompetitive units?

Wind Turbine Installation

- New designs, significantly bigger units
- Ordering spree started in 2021 and the market is expected to remain busy throughout 2022 and beyond
- Up to 60 additional units required by 2030

Accommodation units

- Market activity picking up but from a very low level, future looking somewhat brighter
- Many units recently delivered or ready for delivery, ordered 7-8 years ago
- Expected scrapping of older units

Floating drilling units

- Market utilization improving, particularly for drillships
- Market consolidation
- Former stranded units now on the move / being delivered
- Limited (or no) newbuilding activity

Offshore Fish Farms

- Large scale offshore aquaculture is an emerging business, growth expected
- Large and increasingly complex floating structures
- So far North Sea and cold waters but global activity will come

Key Focus Areas for DNV Offshore Class in 2022 →

Digitalization

- Executing surveys efficiently and data based
- Scaling of remote surveys
- Unlocking the value of data

Decarbonization

- ABATE notation development for systematic GHG emission reduction
- Pathways towards low/zero emission operations

Asset Integrity

- Utilizing data to enhance asset integrity management
- Sensor-based monitoring
- Hybrid twin

Client Centricity

- Service-minded and solution-oriented
- Innovative approaches to surveys, more flexible survey arrangements

Client cost savings

- Reducing class induced costs for owners
- Class for smarter operations

Growth in Ocean Space

- Utilize our capabilities and experience in emerging offshore markets
- WTIV, Floating Offshore Wind, Offshore Fish Farms

Opportunities in the Ocean Space

Floating Offshore Wind



Offshore Fish Farms



Wind Turbine Installation



Floating Infrastructure

Floating Charging Buoys

Seabed Mining

...and a lot of special ships supporting these emerging industries

DNV Offshore Classification – Our Promises

- We innovate with our customers
- We shall have the best service content and service delivery in the market
- We never walk away from problems
- We shall strive to provide same day response to queries
- We provide the best value for money

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Thank you!

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