



## OSV Market Outlook

*The Offshore market is facing systemic shock – you can't hide from it*

**David Palmer**

Direct: +65 6408 9802

Mobile: +65 9295 7507

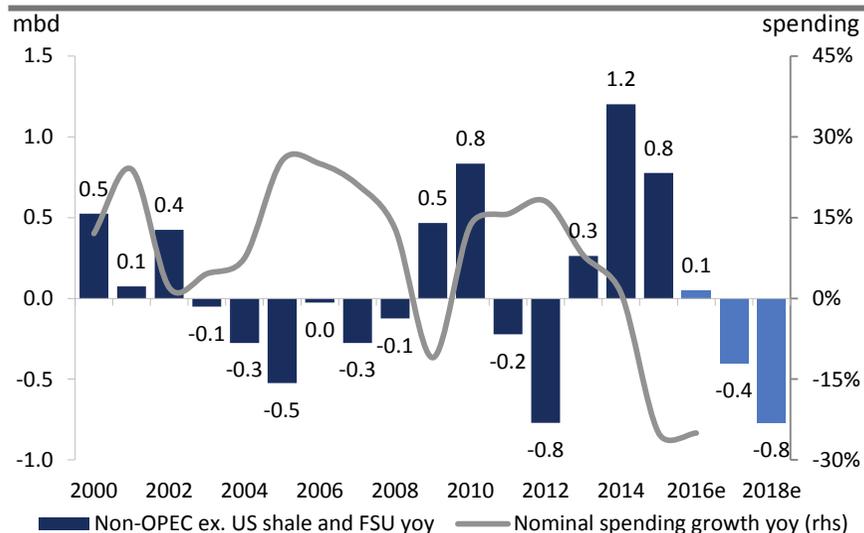
Email: [david.palmer@paretosec.com](mailto:david.palmer@paretosec.com)

# We will see “Blood”- too many companies, too much equipment and insufficient cash flow to attract new capital.....

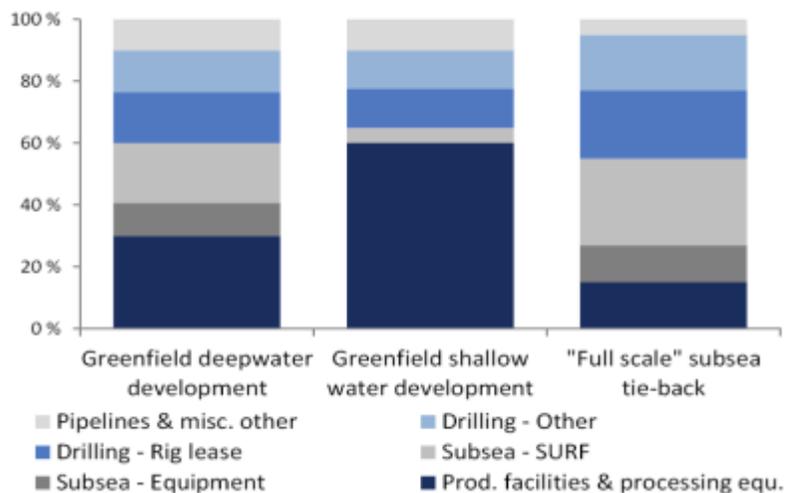
Signals	Drivers	Trend	Insights
	Offshore spending cut 20-25% in 2016	—	<ul style="list-style-type: none"> <li>▶ Significant activity declines in 2016 and 2017. Oil companies’ budgets have shrunk considerably. E&amp;P firms are “Penny–Pinching”.</li> <li>▶ Rig market – bad to worse - highest scrapping since 1990s. Jackup demand down 21% y/y, excluding Middle East. Re-contracting is slow. Drowning in over–supply - 166/498 JU and 108/295 Floaters stacked. Armada of layoffs of Rigs/OSVs – at least 1,300 OSVs idle.</li> <li>▶ “Stuck in a Glut” Excess capacity in all offshore segments - Wall of newbuilds to be delivered – 374 units reported and as many as 200 unreported from Chinese yards – 149 AHTS (8% of fleet) and 225 PSVs on order (14% of fleet). Significant slippage (&gt;50%) to continue. There will be no new orders – banks will not finance them.</li> <li>▶ Rates down 50-60%, utilization down 20-30% depending on market. Only 47 reported sales in 2015. Vessel value impairments are now the norm. Severely declining cash flows.</li> <li>▶ “Canary in mine shaft” seismic-died – tender activity and seismic spending at all time low (-30%). Downturn worst in 20 years. Contract rates below opex. Subsea – US\$ 380bn worth of projects delayed or cancelled. Main plays are in consolidation.</li> </ul>
	Working rig count – can’t see the bottom	—	
	Shrinking OSV orderbook – Slower deliveries delay recovery	—	
	OSV utilization/charter rates still falling – Cash flow declining	—	
	Tender activity slow- Subsea with lowest sanction in 15 years	—	
	Oil fundamentals showing “silent recovery “	+	<ul style="list-style-type: none"> <li>▶ Severe correction in oil price - USD 41/bbl. An eventual cocktail of demand growth and production depletion and reduced capex will push oil price back up.</li> <li>▶ Loan renegotiations – little new lending. Refinancing support but limited capex. Increased liquidity/ counterparty risks. Pandora’s box of troubles for CFO’s.</li> <li>▶ Major offshore OSV/Rig companies have lost 60-80% of value. Significant asset writedowns. Stocks move with oil price. Forward P/E are rising-race to the bottom.</li> </ul>
	Bank uncertainty leading to “Credit Void”	—	
Oil service stocks: Bear Heaven	—		
	Oil demand accelerating - Depletion of cash positive fields	+	<ul style="list-style-type: none"> <li>▶ Shale growth slowing, only 15% viable at US\$40 and 50% at US\$55 per bbl. Expected balanced market in 2H 2017, with improvement starting in 2H 2016.</li> <li>▶ Oilcos locking in future requirements at 50% lower cost. Restructuring starting with trend pointing to standardization and simplification in service requirements. New contracting models emerging, but loss of qualified personnel implies potential capability gaps.</li> <li>▶ Project sanctioning and FIDs gathering pace as project economics and development costs improve. Early signs of market stabilization..</li> </ul>
	New contracting models – simplified service requirements	+	
	Cost deflation - project re-evaluation gathering pace	+	

# Sharply negative E&P spending outlook, Oilcos achieved impressive cost reductions some longer term projects becoming viable.

## Non-OPEC production\* growth vs E&P spending



## Spilt of offshore development capital cost



## Oil Market Balance – 2013-2020e

		2013	2014	2015	2016e	2017e	2018e	2019e	2020e
<b>Demand</b>									
OECD	mbd	46.0	45.7	46.2	46.2	46.2	46.4	46.5	46.5
Non-OECD	"	45.9	47.1	48.3	49.3	50.3	51.1	52.0	53.0
<b>World</b>	"	<b>91.9</b>	<b>92.8</b>	<b>94.5</b>	<b>95.5</b>	<b>96.5</b>	<b>97.5</b>	<b>98.5</b>	<b>99.5</b>
<b>Growth y/y</b>									
OECD	"	0.1	(0.3)	0.5	0.0	0.0	0.2	0.1	0.0
Non-OECD	"	1.1	1.2	1.2	1.0	1.0	0.8	0.9	1.0
<b>World</b>	"	<b>1.2</b>	<b>0.9</b>	<b>1.7</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>
<b>Production</b>									
Non-OPEC	mbd	54.5	57.0	58.2	57.5	57.1	56.9	57.1	57.8
- US Lower 48*	"	5.7	6.8	7.4	6.6	6.7	7.2	7.8	8.4
- FSU	"	13.9	13.9	14.0	13.9	13.9	13.9	13.9	13.9
OPEC NGLs	"	6.3	6.4	6.7	6.9	7.0	7.1	7.2	7.3
<b>Growth y/y</b>									
<b>Non-OPEC</b>	"	<b>1.3</b>	<b>2.5</b>	<b>1.3</b>	<b>(0.7)</b>	<b>(0.4)</b>	<b>(0.2)</b>	<b>0.2</b>	<b>0.7</b>
- US Lower 48*	"	1.0	1.2	0.5	(0.8)	0.1	0.5	0.6	0.6
- Rest of world	"	0.3	1.3	0.8	0.1	(0.4)	(0.7)	(0.4)	0.1
<b>Call-on-OPEC</b>	mbd	<b>31.1</b>	<b>29.5</b>	<b>29.6</b>	<b>31.0</b>	<b>32.4</b>	<b>33.5</b>	<b>34.2</b>	<b>34.4</b>
<b>OPEC production</b>	"	<b>30.5</b>	<b>30.3</b>	<b>31.4</b>	<b>32.0</b>	<b>32.5</b>	<b>32.9</b>	<b>33.3</b>	<b>33.7</b>
- Growth y/y	"	(0.8)	(0.1)	1.0	0.7	0.4	0.4	0.4	0.4
- Iran growth y/y	"	(0.3)	0.1	0.1	0.3	0.3	0.2	0.2	0.2
<b>Surplus/deficit</b>	"	<b>(0.5)</b>	<b>0.9</b>	<b>1.7</b>	<b>1.0</b>	<b>0.1</b>	<b>(0.7)</b>	<b>(1.0)</b>	<b>(0.8)</b>

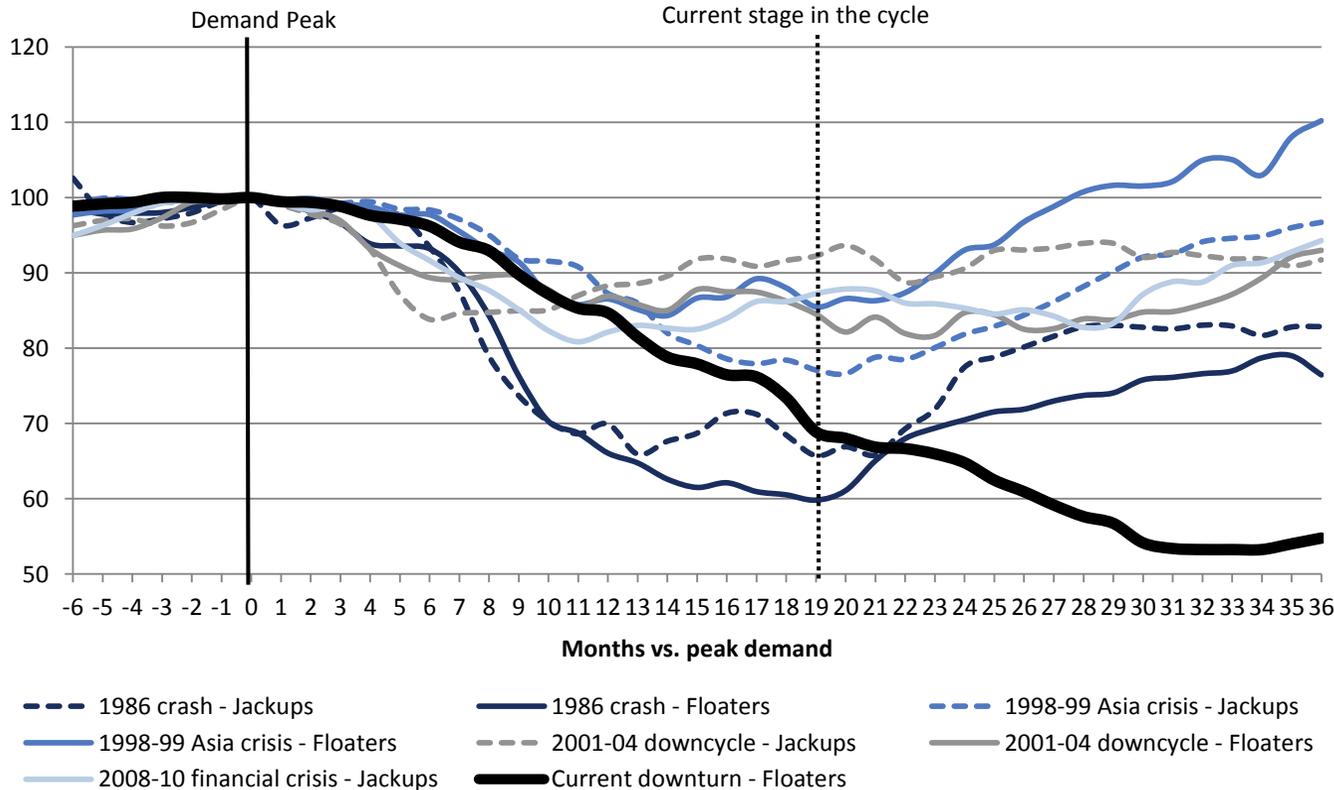
\*Excluding Gulf of Mexico

\* Ex US shale production growth

Source: IEA, Woodmac, company disclosures, Pareto Research

# Rig market – downcycle will be deeper than expected; recovery expected in 28 months from April/May 2014

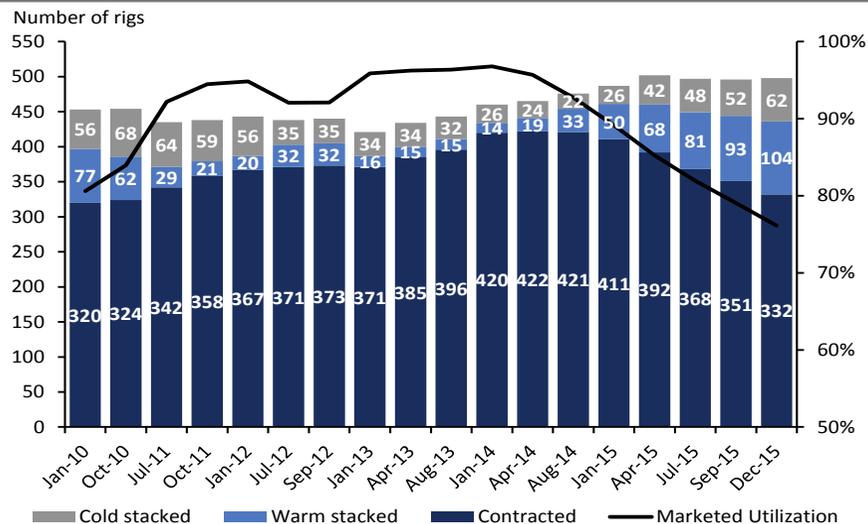
## Rig demand as % of peak demand – Previous downcycles



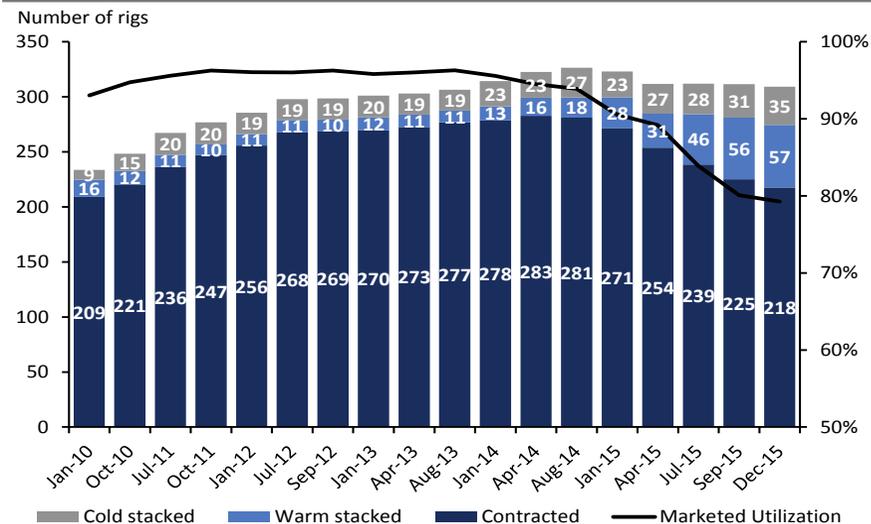
- ▶ This downcycle expected to be longer than other downcycles (except 1986)
  - Lack of near term visibility on tendering activity
  - Demand already past peak before oil price plummeted following prolonged upcycle with oilcos’ struggling with budgets at USD 100/bbl Brent
  - ~47% decline projected as compared to average decline in previous downturns of ~20%
- ▶ Market expected to reach trough in 1H’2016
- ▶ On average, the time from peak to trough demand in previous down cycles was ~20 months, while demand has started rebounding materially after ~20 months
  - Stable (higher) oil price needed for demand recovery
- ▶ Our current projections imply ~31 months from peak in April/May 2014 to trough in Nov/Dec 2016 and ~38 months before demand starts rebounding
  - Much larger proportion of drilling related to longer running development campaigns

# Jan 2016 -133 fewer working rigs (79 Jackups and 54 Floaters) than Jan-15....

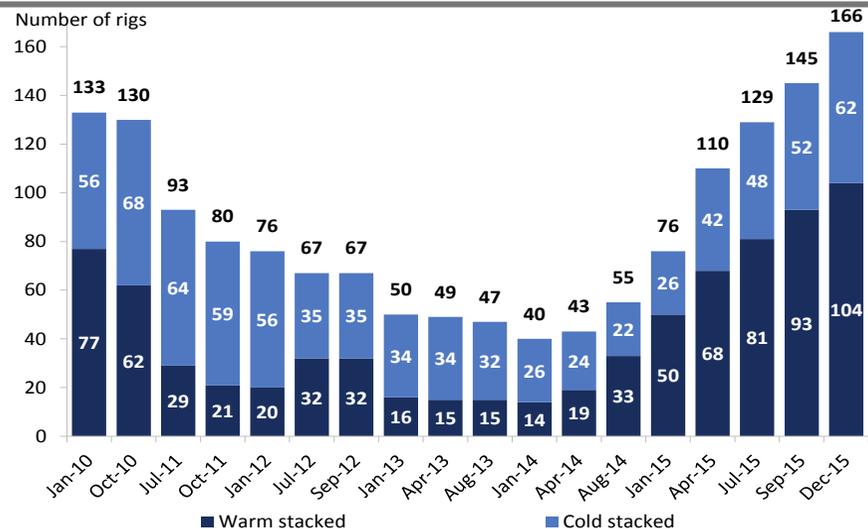
## Jackups – fleet utilization overview



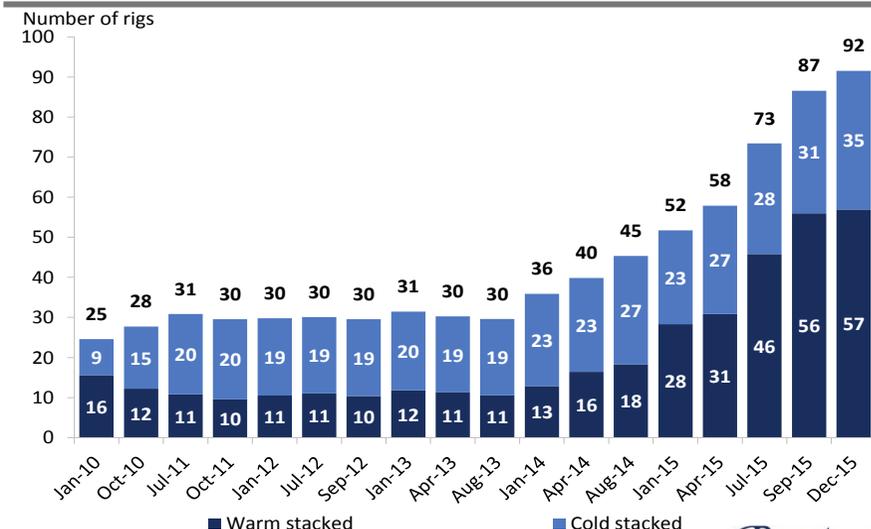
## Floaters – fleet utilization overview



## Jackups – stacked units overview



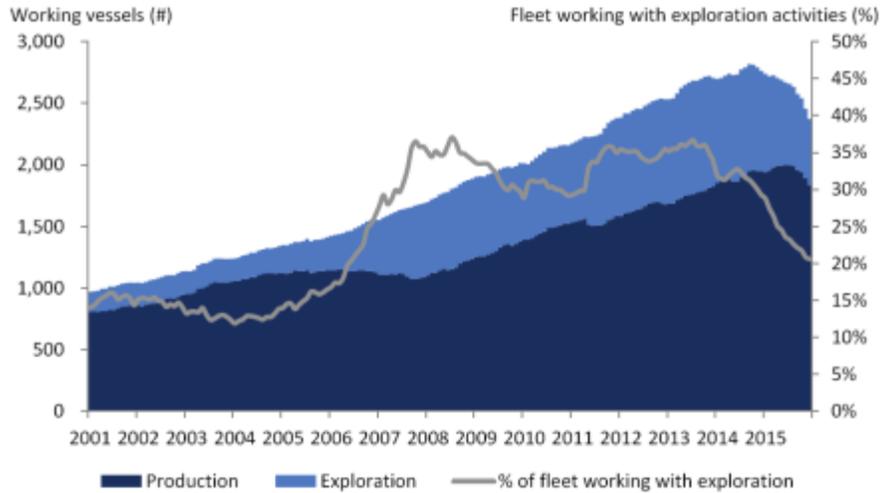
## Floaters – stacked units overview



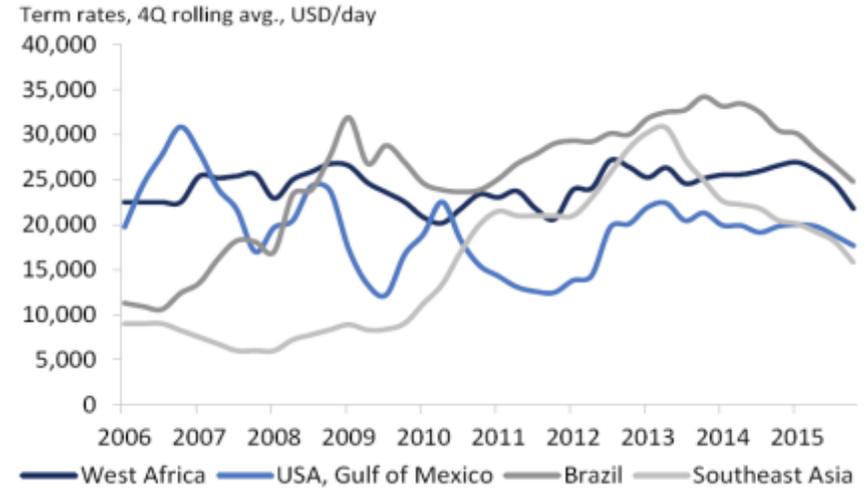
Source: Pareto Research, IHS Petrodata

# OSV market – Supply imbalance persistent. 1300 vessels idle /600 stacked.

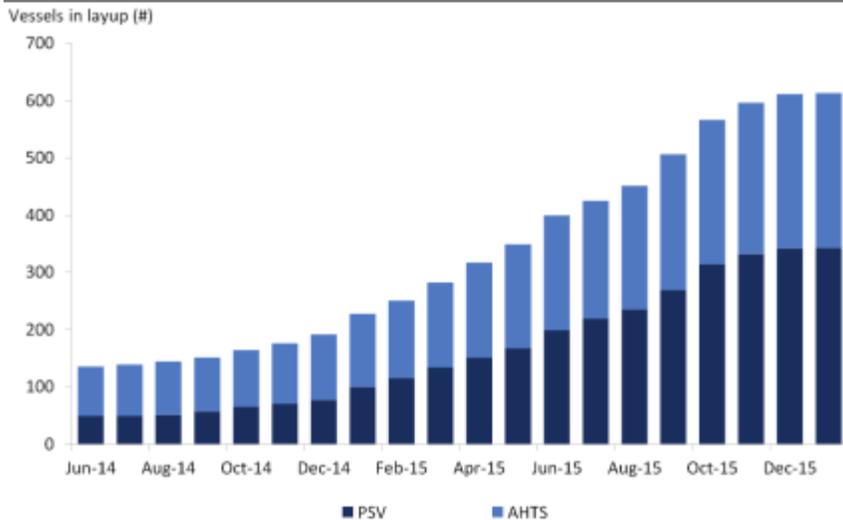
## OSV fleet development of working vessels



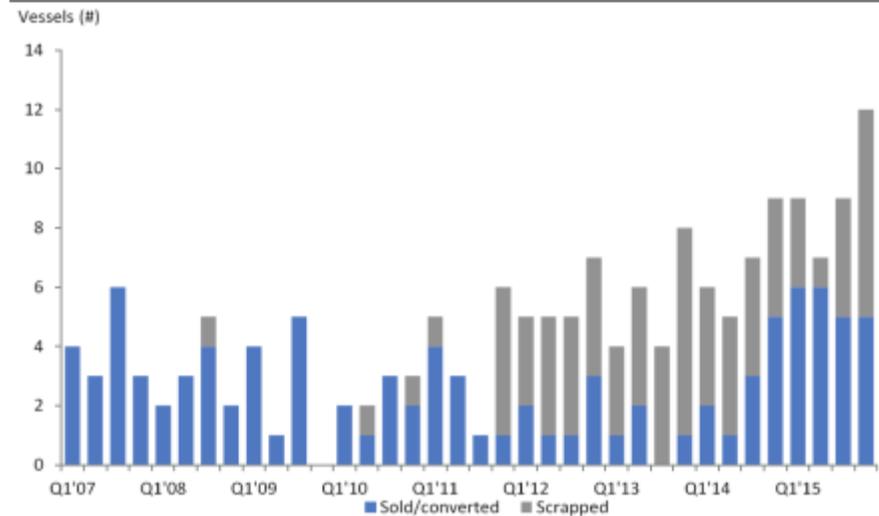
## OSV term rates



## OSVs – stacked units overview

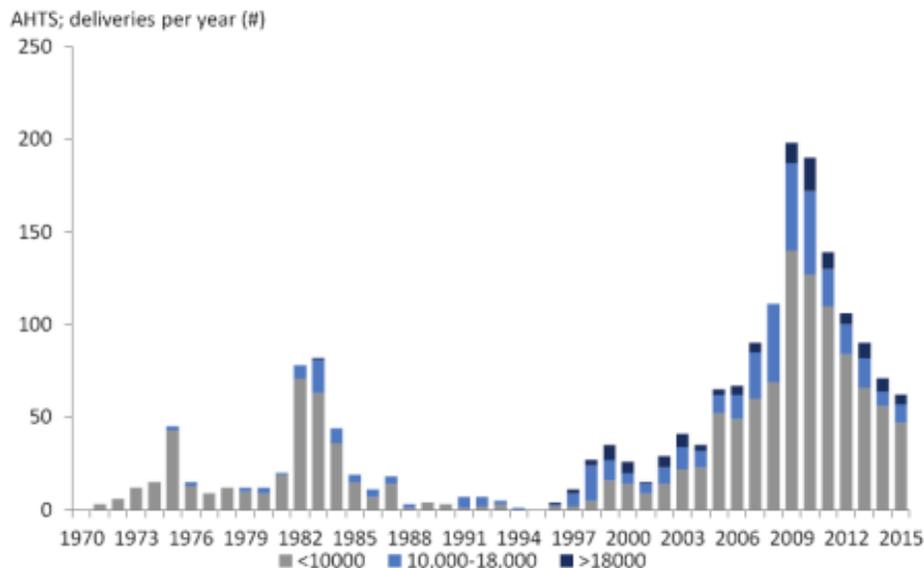


## OSV attrition

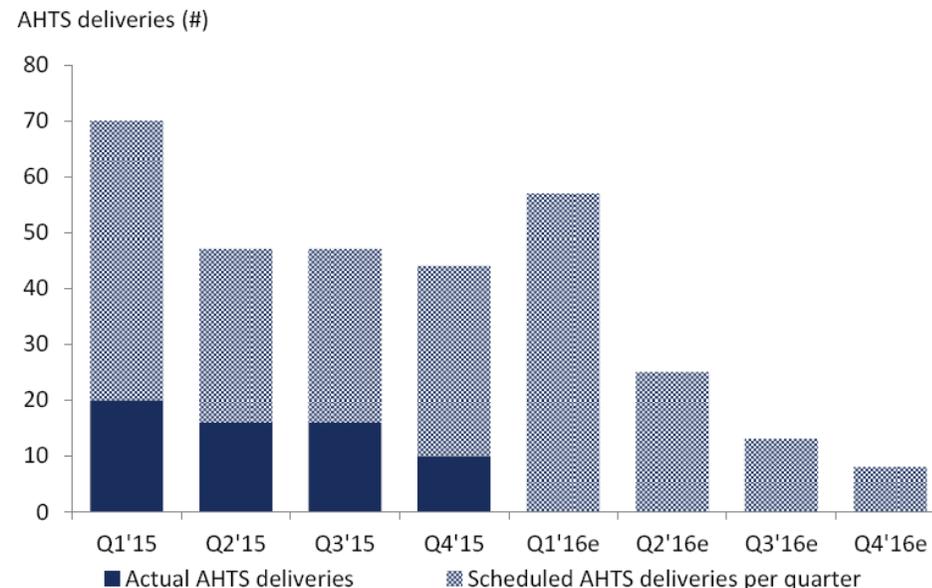


# AHTS fleet – increasingly challenging fundamentals

## Global AHTS fleet profile



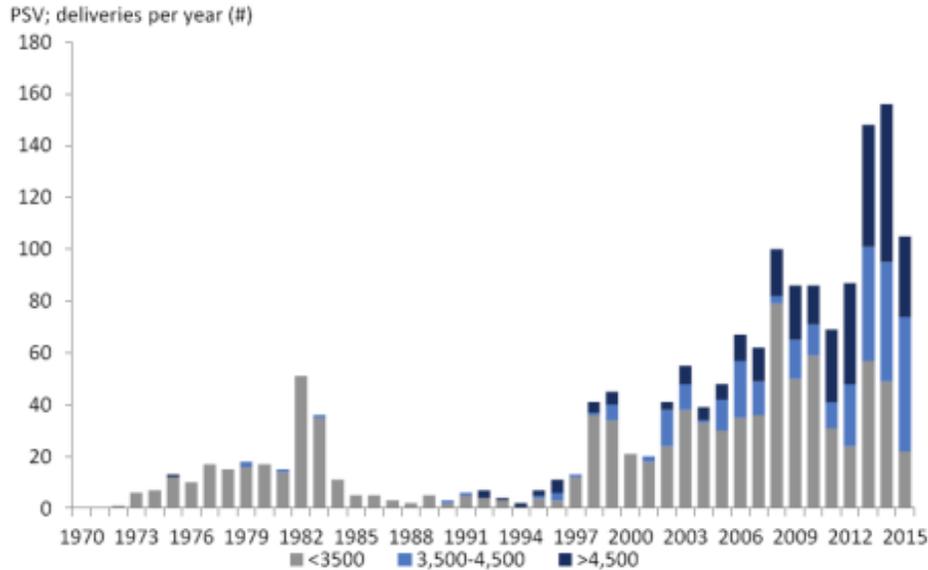
## Scheduled and delivered AHTS orders per quarter



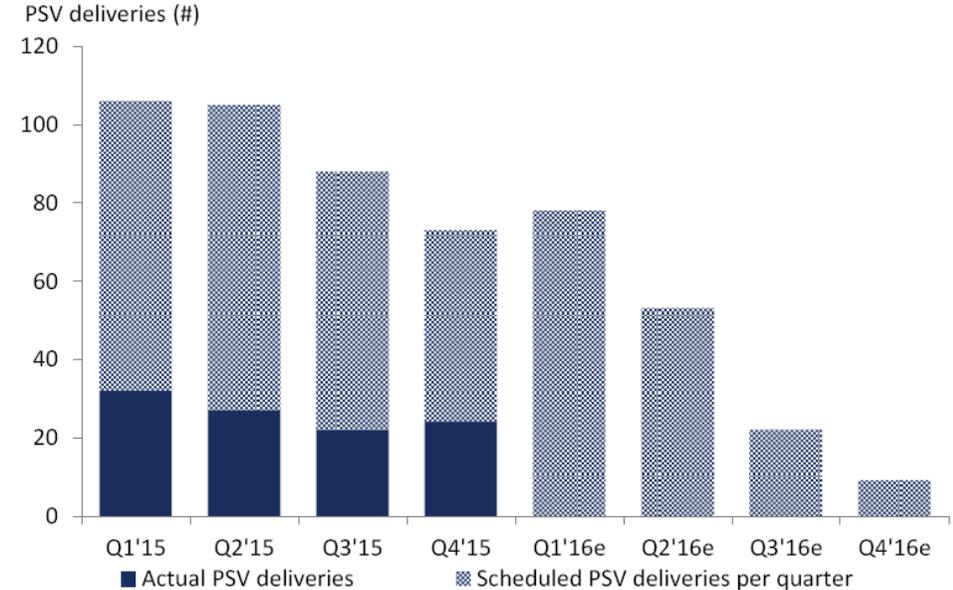
- ▶ Fleet profile: 1,889 AHTS in current fleet, with 149 (8%) on order (likely to be understated)
  - 60 expected to be delivered in 2016e – net of slippage and scrapping
- ▶ Orderbook dominated by smaller AHTS, few orders for high-end AHTS, with vessels mainly to be delivered from China, India, Malaysia and Norway
- ▶ Suspected conversions of PSV orders to AHTS, resulting in an increase in orderbook over the past six months

# PSV fleet – market imbalance huge

## Global PSV fleet profile



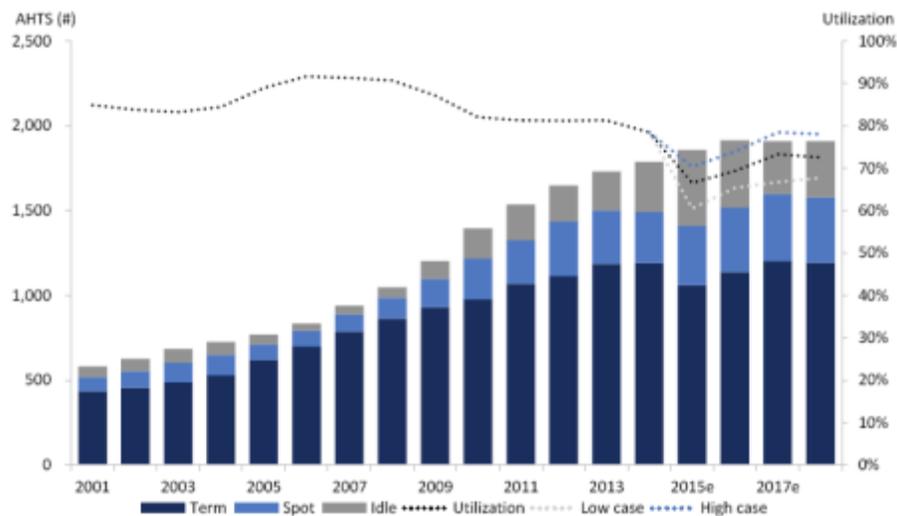
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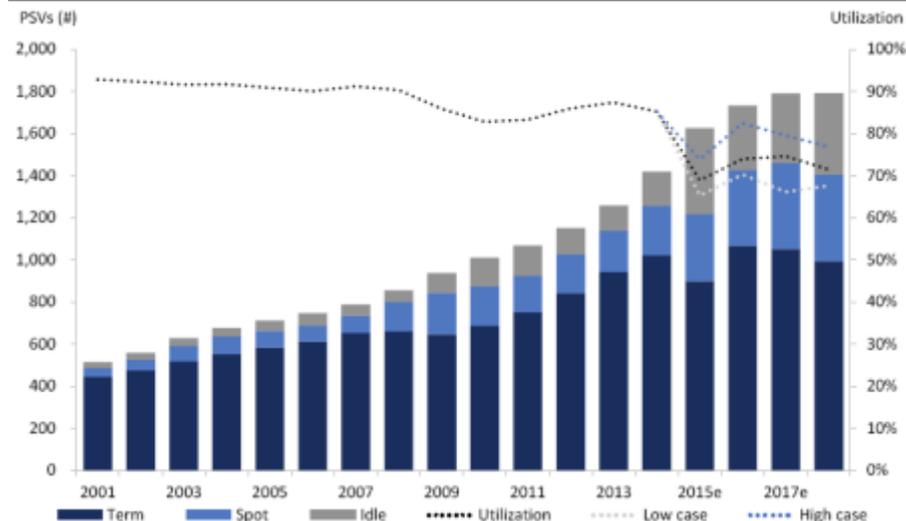
- ▶ Fleet profile: 1,673 PSVs in current fleet, with 225 (14%) on order (likely to be understated)
  - 110 expected be delivered in 2016e – net of slippage and scrapping
- ▶ Large PSVs have dominated the PSV orderbook, with vessels mainly to be delivered from China, India, Malaysia and Norway
- ▶ We also anticipate that a number of vessels currently under construction will not be delivered, or not enter the market as PSVs

# OSV supply/demand balance underpins market prospects

## AHTS supply/demand model



## PSV supply/demand model



- ▶ Anticipated supply growth of 3% annually for AHTS fleet
- ▶ Anticipated supply growth of 8% annually for PSV fleet
- ▶ Expected AHTS term demand ~1,150 vessels in 2016e
  - We expect the supply surplus to decrease as older vessels get scrapped and there will be few new orders for newbuilds for 2017
- ▶ Expected PSV term demand ~1,000 vessels in 2016e
  - Higher spot utilization assumption than for AHTS as vessels that have historically worked term are now performing the same work under spot charters
- ▶ Expected utilization of 69%
  - Fleet surplus of ~800 vessels
- ▶ Expected utilization of 74%
  - Fleet surplus of ~600 vessels

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# Contact details and disclaimer

<b>Oslo (Norway)</b> Pareto Securities AS Dronning Mauds gate 3 PO Box 1411 Vikta N-0115 Oslo NORWAY  Tel: +47 22 87 87 00 Fax: +47 22 87 87 10	<b>Stavanger (Norway)</b> Pareto Securities AS Haakon VIIIs gate 8 PO Box 163 N-4001 Stavanger NORWAY  Tel: +47 51 83 63 00 Fax: +47 51 83 63 51	<b>Bergen (Norway)</b> Pareto Securities AS Olav Kyrres gate 22 PO Box 933 N-5808 Bergen NORWAY  Tel: +47 55 55 15 00 Fax: +47 55 55 15 50	<b>Kristiansand (Norway)</b> Pareto Securities AS Dronningensgate 3 N-4611 Kristiansand NORWAY  Tel: +47 21 50 74 20 Fax: +47 21 50 74 99	<b>Trondheim (Norway)</b> Pareto Securities AS Nordre gate 11 PO Box 971 Sentrum N-7410 Trondheim NORWAY  Tel: +47 21 50 74 60 Fax: +47 21 50 74 61	<b>Pareto Shipping AS</b> Dronning Mauds gate 3 PO Box 1411 Vikta N-0115 Oslo NORWAY  Tel: +47 22 87 87 00 Fax: +47 22 87 87 10	<b>Pareto Offshore AS</b> Dronning Mauds gate 3 PO Box 1411 Vikta N-0115 Oslo NORWAY  Tel: +47 22 87 87 00 Fax: +47 22 87 87 10
<b>Copenhagen (Denmark)</b> Pareto Securities AS Langebrogade 5 DK-1411 Copenhagen K DENMARK  Tel: +45 88 51 00 61	<b>Stockholm (Sweden)</b> Pareto Öhman AB Berzelii Park 9 PO Box 7415 S-103 91 Stockholm SWEDEN  Tel: +46 8 402 50 00 Fax: +46 8 20 00 75	<b>Malmö (Sweden)</b> Pareto Öhman AB Stortorget 13 S-211 22 Malmö SWEDEN  Tel: +46 40 750 20 Fax: +46 40 750 30	<b>Helsinki (Finland)</b> Pareto Securities Finland Oy Aleksanterinkatu 44, 6 <sup>th</sup> floor FI-00100 Helsinki FINLAND  Tel: +358 9 8866 6000 Fax: +358 9 8866 6060	<b>New York (US)</b> Pareto Securities Inc 150 East 52 <sup>nd</sup> Street, 29 <sup>th</sup> Floor New York NY 10022 USA  Tel: +1 212 829-4200 Fax: +1 212 829-4201	<b>Singapore</b> Pareto Securities Asia Pte Ltd 16 Collyer Quay #27-02 Hitachi Tower Singapore 049318 SINGAPORE  Tel: +65 6408 9800 Fax: +65 6408 9819	<b>Rio de Janeiro (Brazil)</b> Pareto Securities Ltda Av. Presidente Wilson 231 9 <sup>o</sup> andar Rio de Janeiro, RJ 20030-021 BRAZIL  Tel: +55 21 3578-5620 Fax: +55 21 3578-5599

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