

# Introduction to Investment opportunities - Subsurface



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# The subsurface cluster relates to equipment and services required for both onshore and offshore drilling and workover operations



## Rigs, Vessels & Subsea

Rigs and subsea services to support offshore operations



## Drilling & Completions

Drilling & Completion equipment and services



## OCTG

Casing and tubing equipment and services



## Well interventions and logging

Associated well services such as logging, coiled tubing and slickline



## Mud, chemicals and cement

Mud and speciality chemicals used during drilling operation and stimulation of the well



## Wellheads / X-mas trees

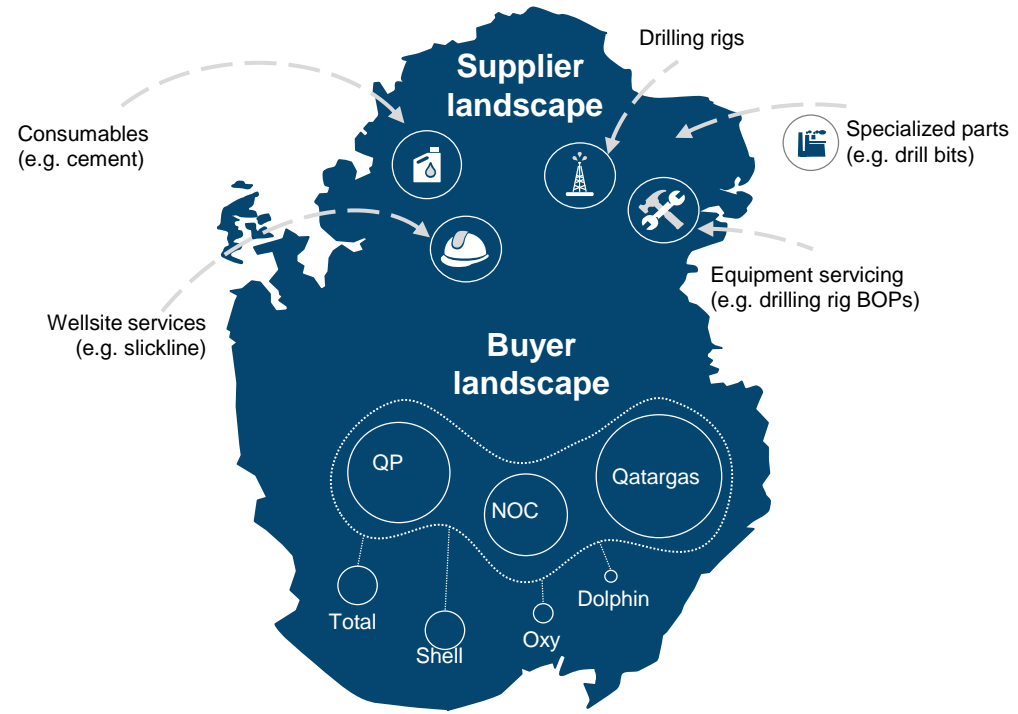
Specialised surface equipment and assemblies



# The aspiration for subsurface is to increase the share of local spend to 50% by 2023

## Future of subsurface in Qatar (2023): Localized core supplier eco-system with regional subsurface hubs

**Vision**  
~50% of subsurface spend to be localized by 2023



**1** Key suppliers are provided opportunities to develop local sub-suppliers and build Qatar as a regional hub

**2** Local suppliers have the opportunity to increase market share through expansion of offerings

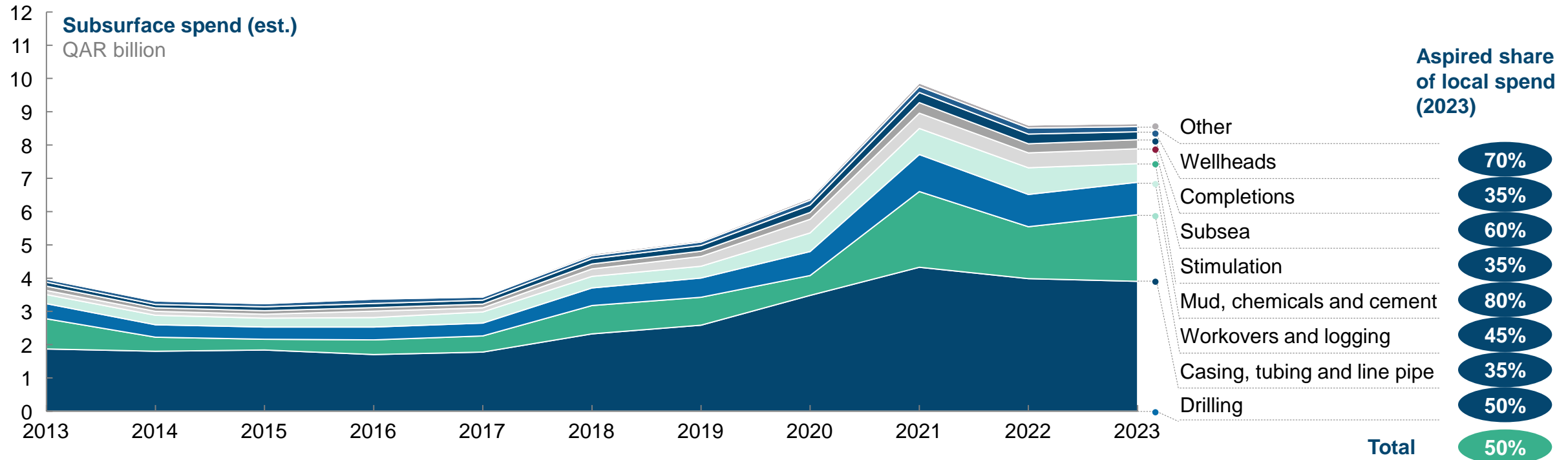
**3** Contracting model will support long-term relationship building with suppliers

Subsurface market in Qatar is expected to grow significantly between 2018 and 2023



# The total subsurface market in Qatar is expected to grow significantly from QAR ~5 billion in 2018 to QAR ~9 billion in 2023 with a peak in 2021

Estimated subsurface spend for all operators, based on 2013-17 actuals and extrapolated for 2018-23



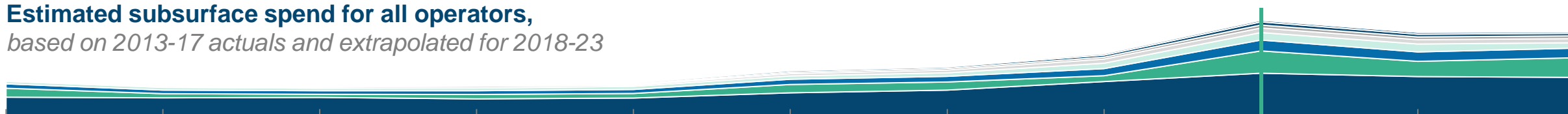
Qatar Petroleum is moving forward with its plans to increase Qatar's LNG output by 30% - from 77 million to 110 million tons per year.

– Saad Al-Kaabi, His Excellency, the Minister of State for Energy Affairs, President and CEO of Qatar Petroleum



# Demand growth is fuelled by five large projects coming up in the next five years

**Estimated subsurface spend for all operators,**  
based on 2013-17 actuals and extrapolated for 2018-23



## Key projects

**Estimated  
production  
added, boe/d**

## Scope

North Field Expansion (NFE)



400,000

- 8x wellhead platforms, up to 80 new wells
- 500 km of new pipeline

North Field Production Sustainability (NFPS)



160,000

- 7x wellhead platforms, up to 60 new wells
- 600 km of new pipeline

Al Shaheen development and exploration



120,000

- Up to 5 new wellhead platforms
- Up to 150 new infill wells

Maydan Mahzam Redevelopment



30,000

- Up to 40 wells drilling campaign
- Redevelopment plan to maximize hydrocarbon recovery

Bul Hanine Redevelopment









25,000

- 4 topside production platforms
- Counter decline rate and double production

# Today, TAWTEEN is announcing 11 opportunities to help achieve ~50% local spend by 2023

■ High ■ Medium ■ Low



Category	Localization opportunities	Expected estimated cumulative spend, QAR M <sup>1</sup> (2019-2023)	Required capital intensity, QAR M
Rigs, Vessels & Subsea	 1 Jack-up barges for rig-less interventions	275	10-50
	2 Servicing of drilling rig BOPs	65	0-10
Drilling & Completions	 3 Manufacturing and service of standard completion products	650	50+
	4 Drilling Tools and Accessories	360	10-50
	5 Casing and Tubing Running Services	275	50+
OCTG	 6 Threading of casing and tubing	360	10-50
Well interventions and logging	 7 Coiled-Tubing operations and basic tools	955	50+
	8 Slickline operations and basic tools	285	50+
Mud, chemicals and cement	 9 Mud mixing services	1060	10-50
	10 Oilfield Chemicals	700	50+
Wellheads / X-mas trees	 11 Manufacturing of offshore wellheads and X-mas trees	480	10-50
<b>Total</b>		<b>4,650</b>	