



ASIA PACIFIC

E&P CONFERENCE



Context for the Opportunities in Asia Pacific

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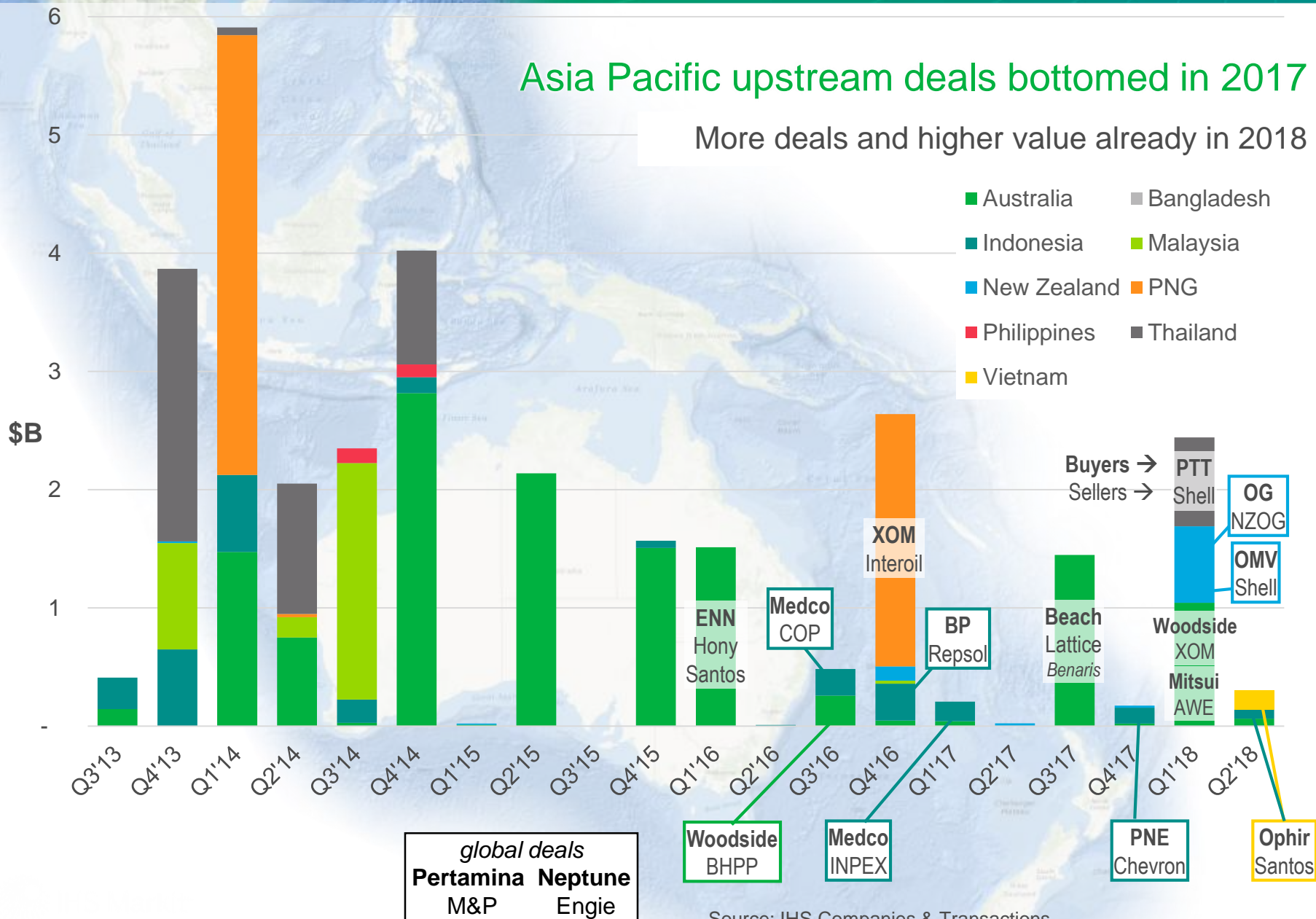
IHS Markit™

Agenda

- Investors
- Activity Trends
- Costs
- Country Highlights
- Opportunities

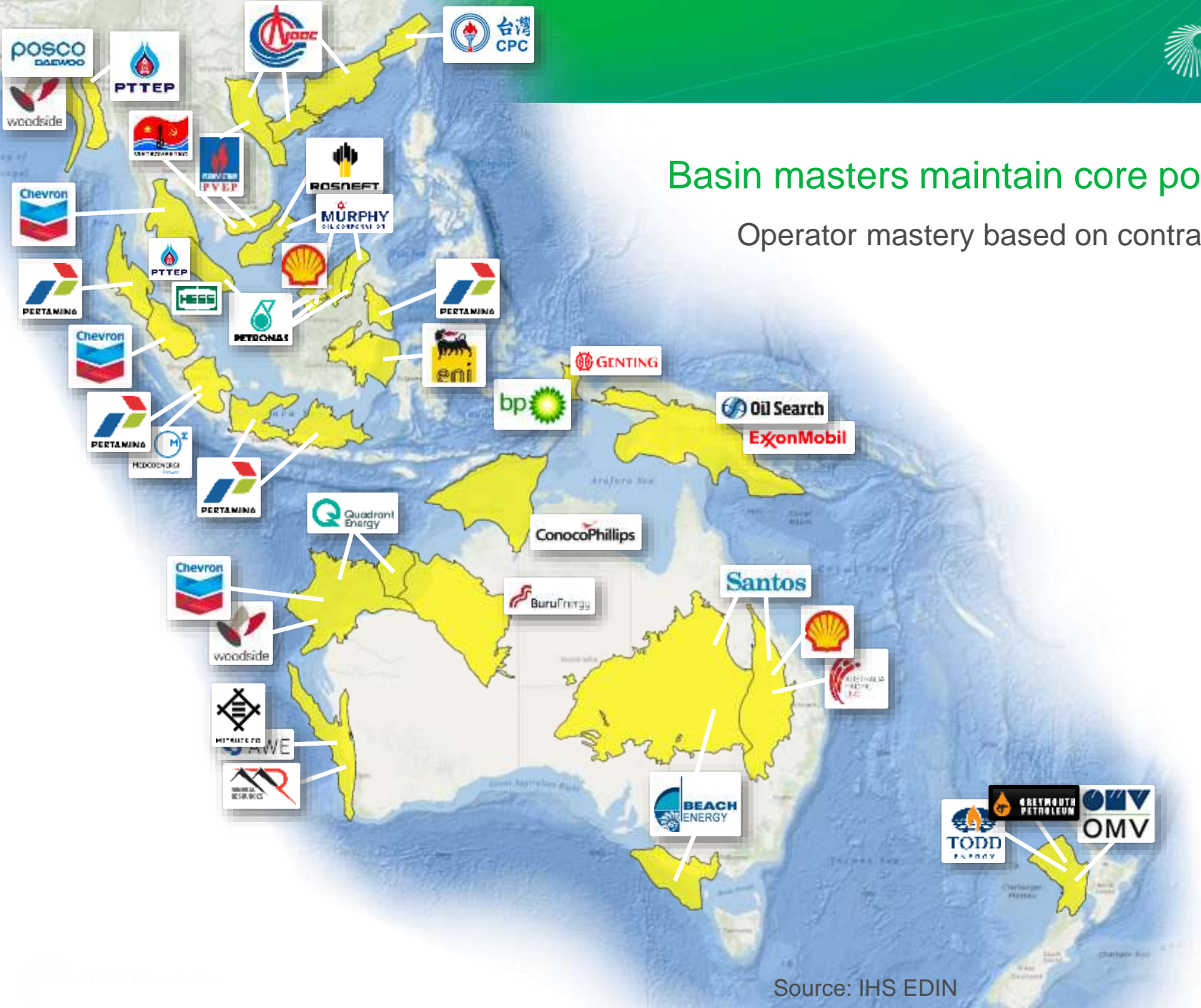
Asia Pacific upstream deals bottomed in 2017

More deals and higher value already in 2018



Basin masters maintain core positions

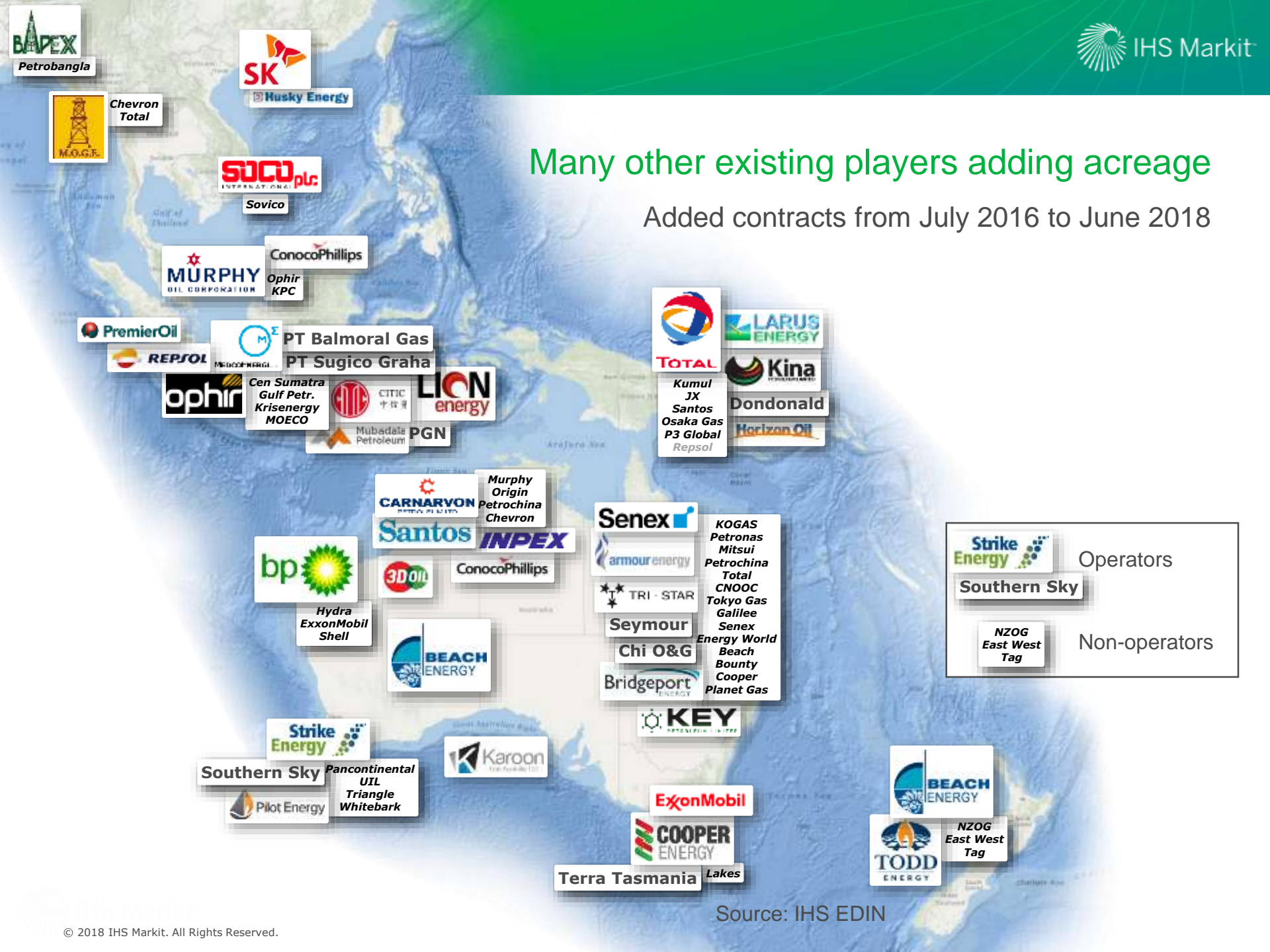
Operator mastery based on contract count



Source: IHS EDIN

Many other existing players adding acreage

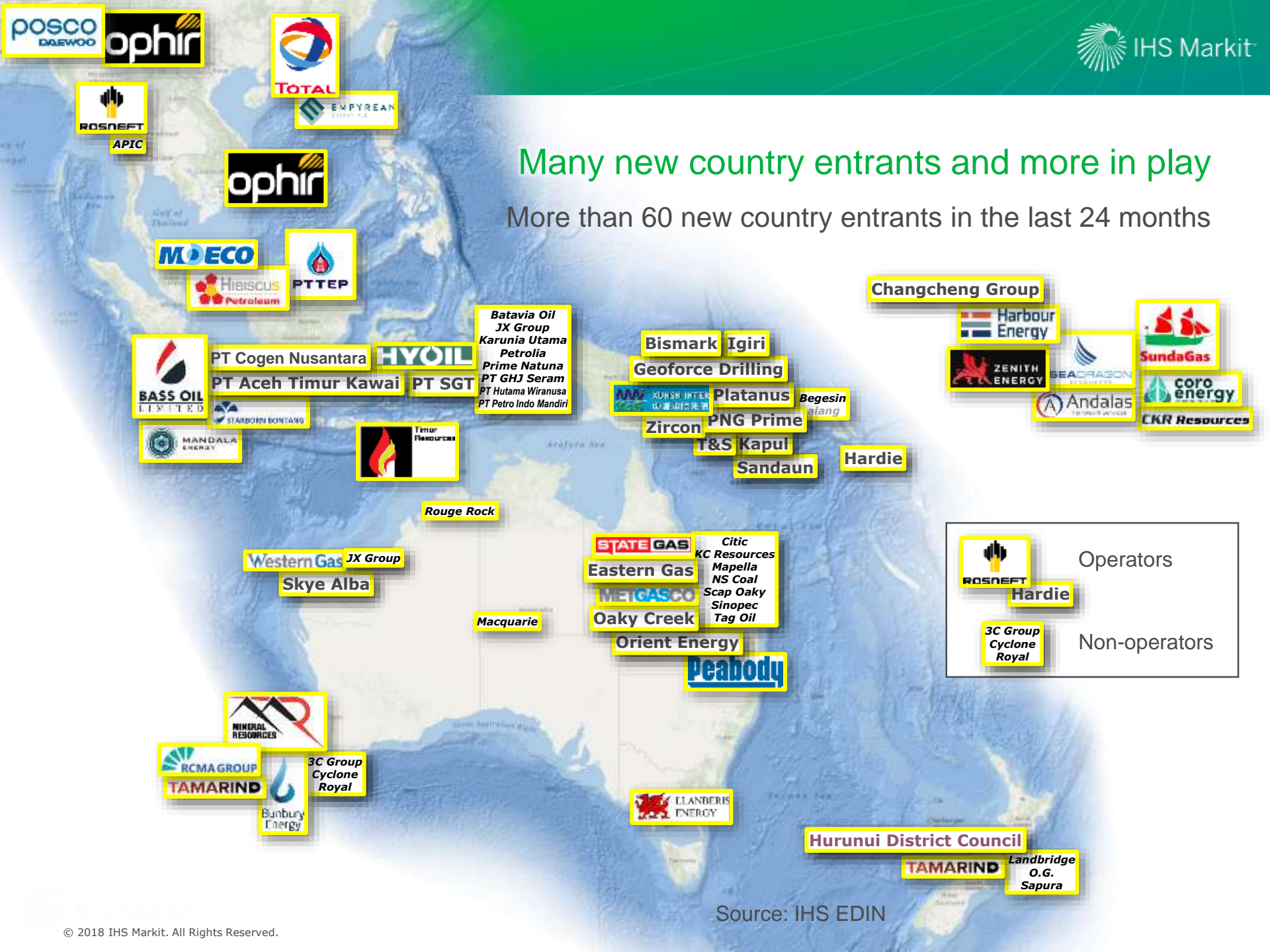
Added contracts from July 2016 to June 2018



Strike Energy	Operators
Southern Sky	
NZOG East West Tag	Non-operators

Many new country entrants and more in play

More than 60 new country entrants in the last 24 months



Farmed in 2015;
taking operatorship
two large gas discoveries

Awarded 2017

Aung Yadana 1 (2017)

seismic begun 2018

Farmed in 2017
non-operator

Total's comprehensive exploration program

Diverse offshore frontier & near-field portfolio

Since 2015

Took over from
BHPB (op) 2015
Shell farmin 2017
Tepat 1 (2018)

Antelope appraised

Antelope South 1 (2018)

Relinquishing

Farmed in 2016
non-operator
3D seismic Q1 2018

Awarded 2016

Awarded 2016
Mailu 1 (2019)

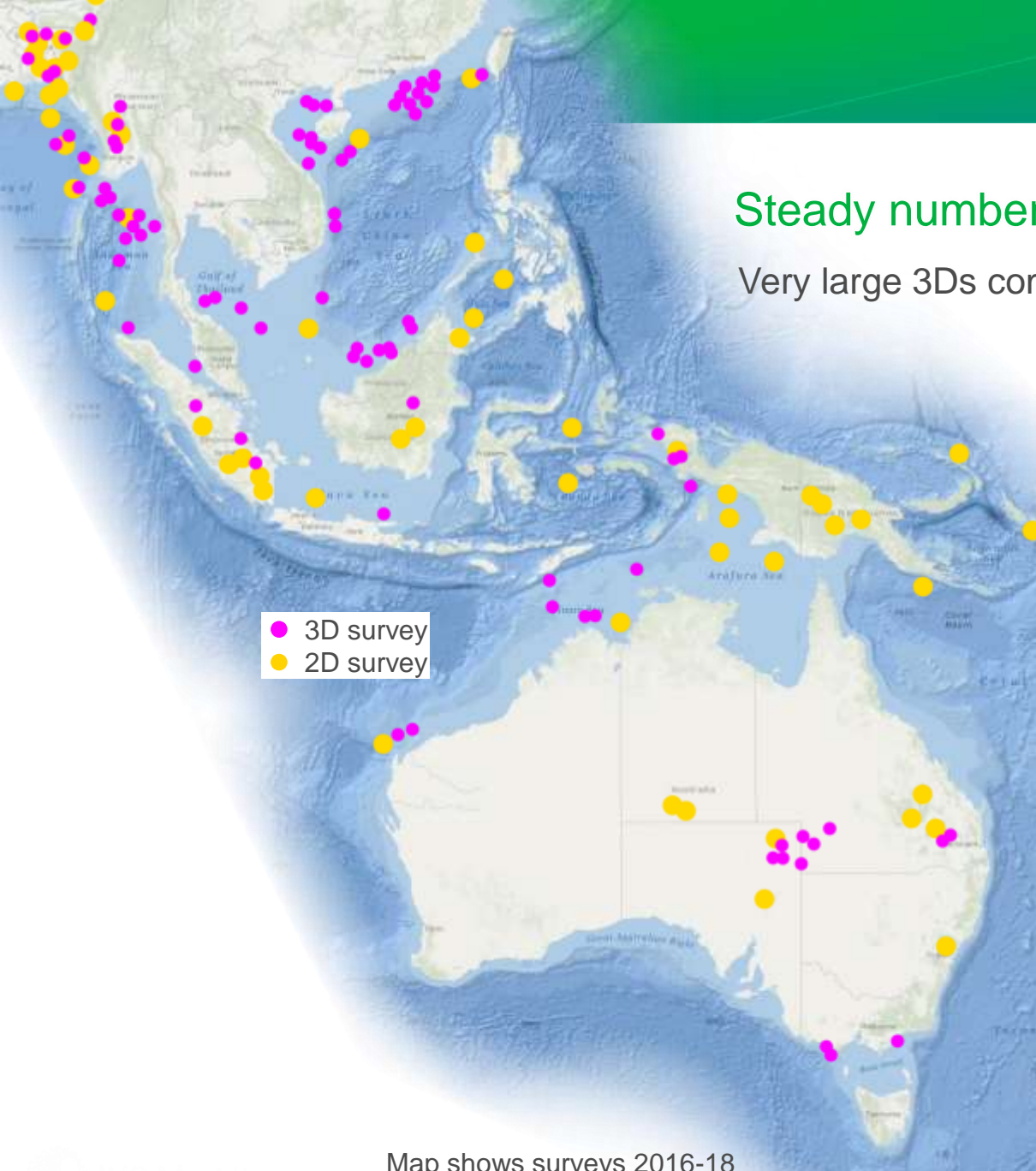
← Sri Lanka awards 2016

2D seismic (2015)

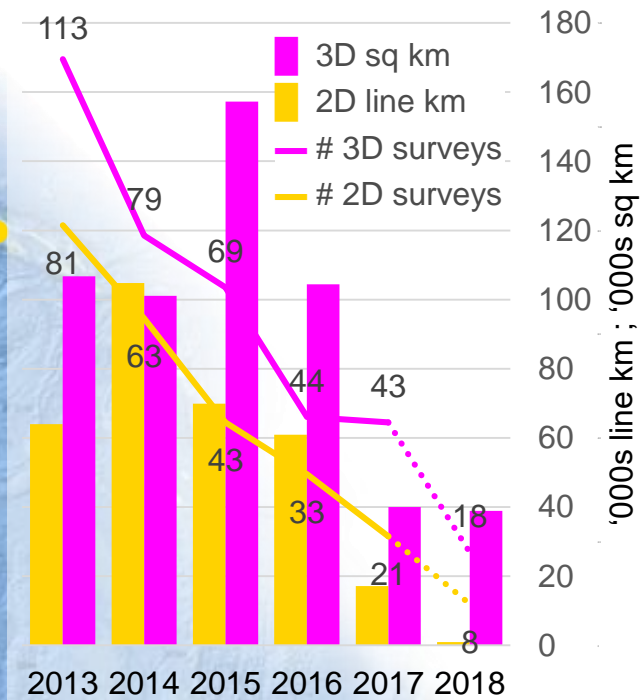
Source:
IHS GEPS, EDIN

Steady number of 3D surveys since 2016

Very large 3Ds completed while 2D surveys decline



● 3D survey
● 2D survey

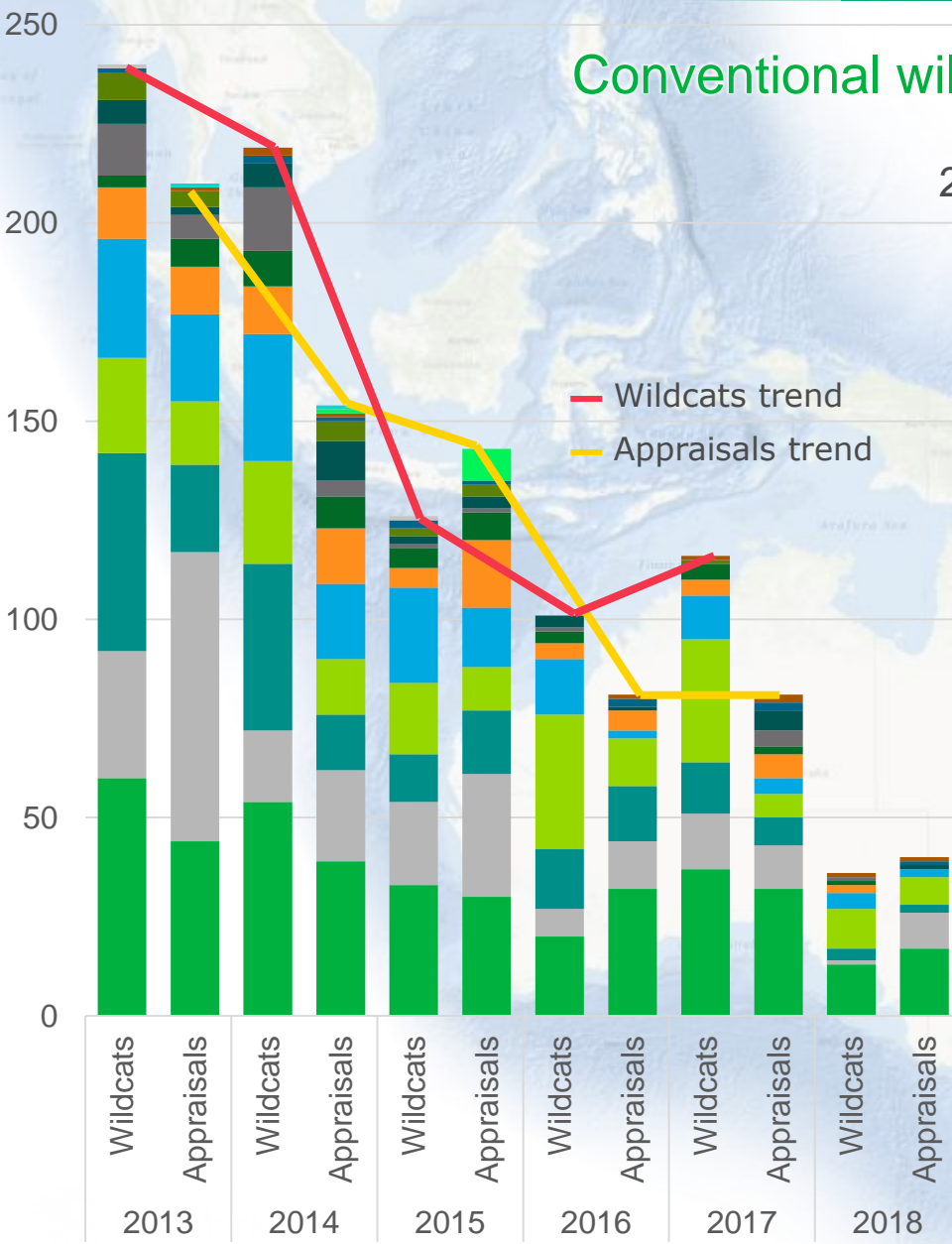


Map shows surveys 2016-18

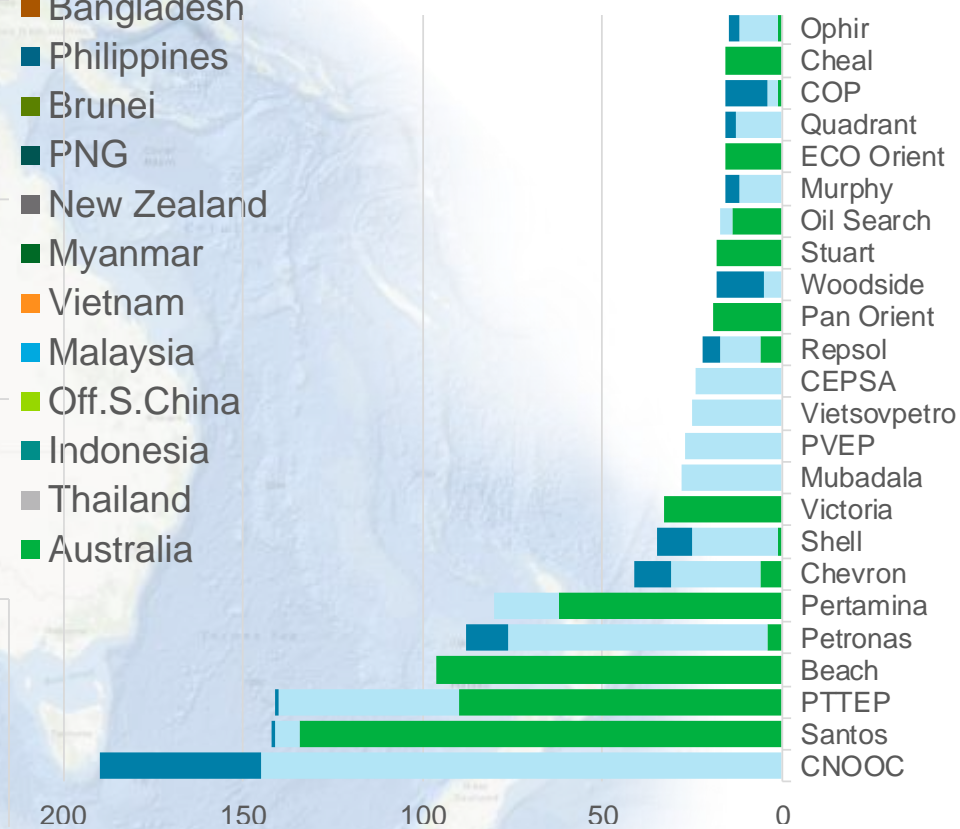
Source: IHS EDIN

Conventional wildcat drilling recovering in 2017

2017 wildcats still down 40% from 2013

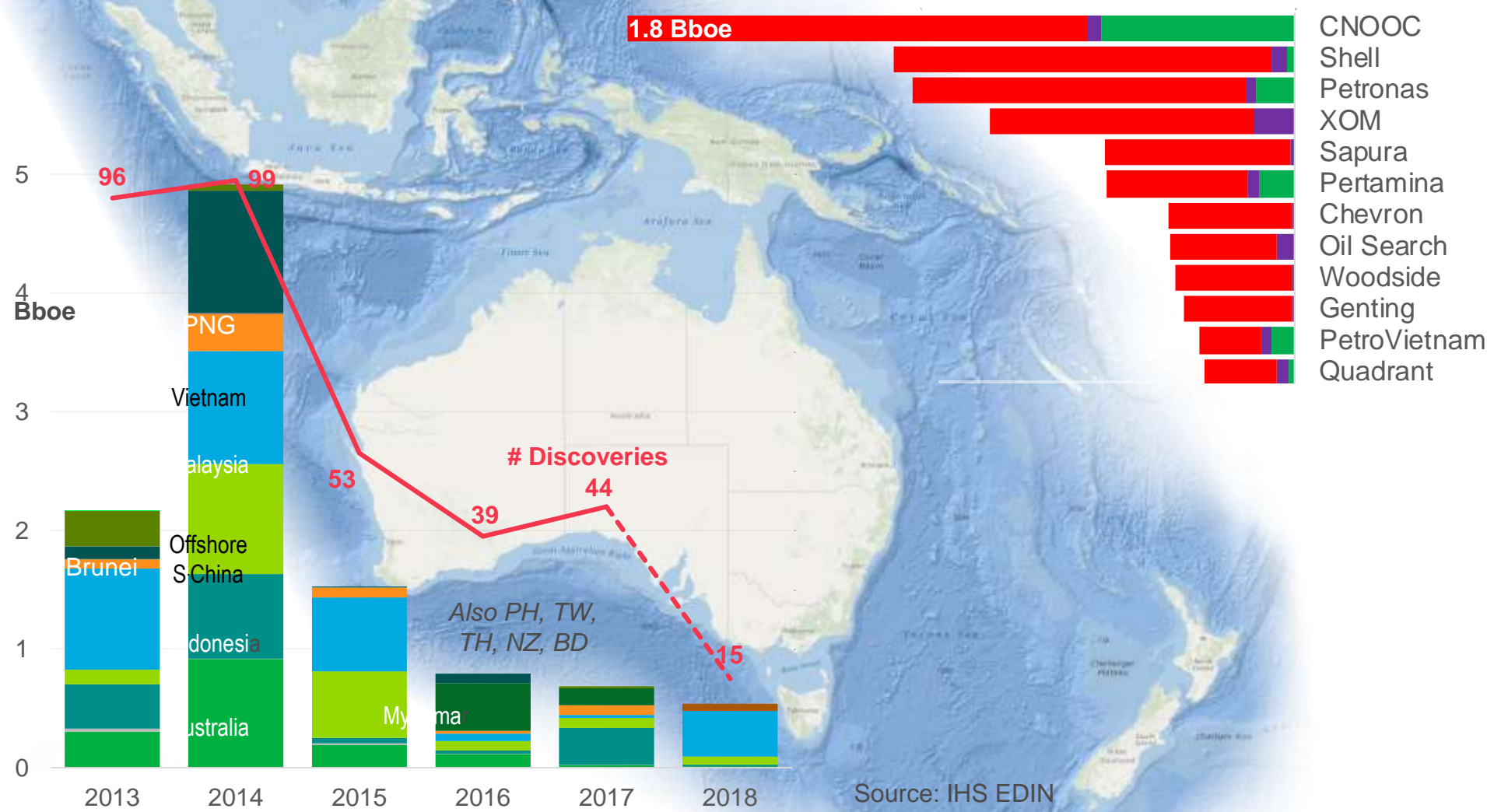


Operators drilling fifteen or more wildcats & appraisals 2013-18



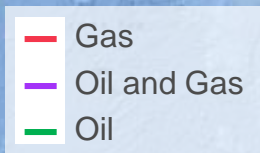
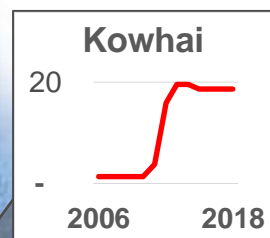
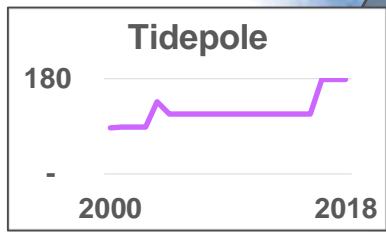
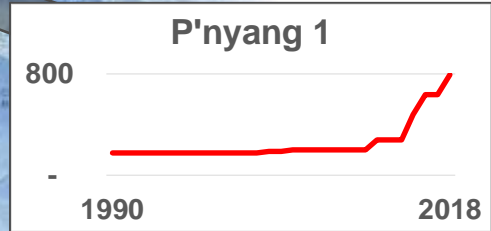
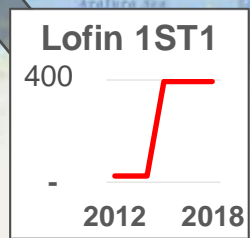
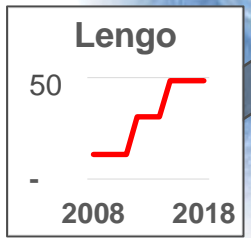
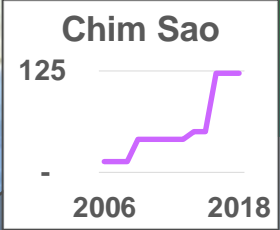
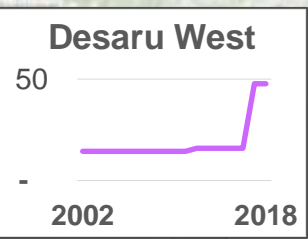
2018 discoveries off to a good start

CNOOC leading 2013-2018 net discovered volumes



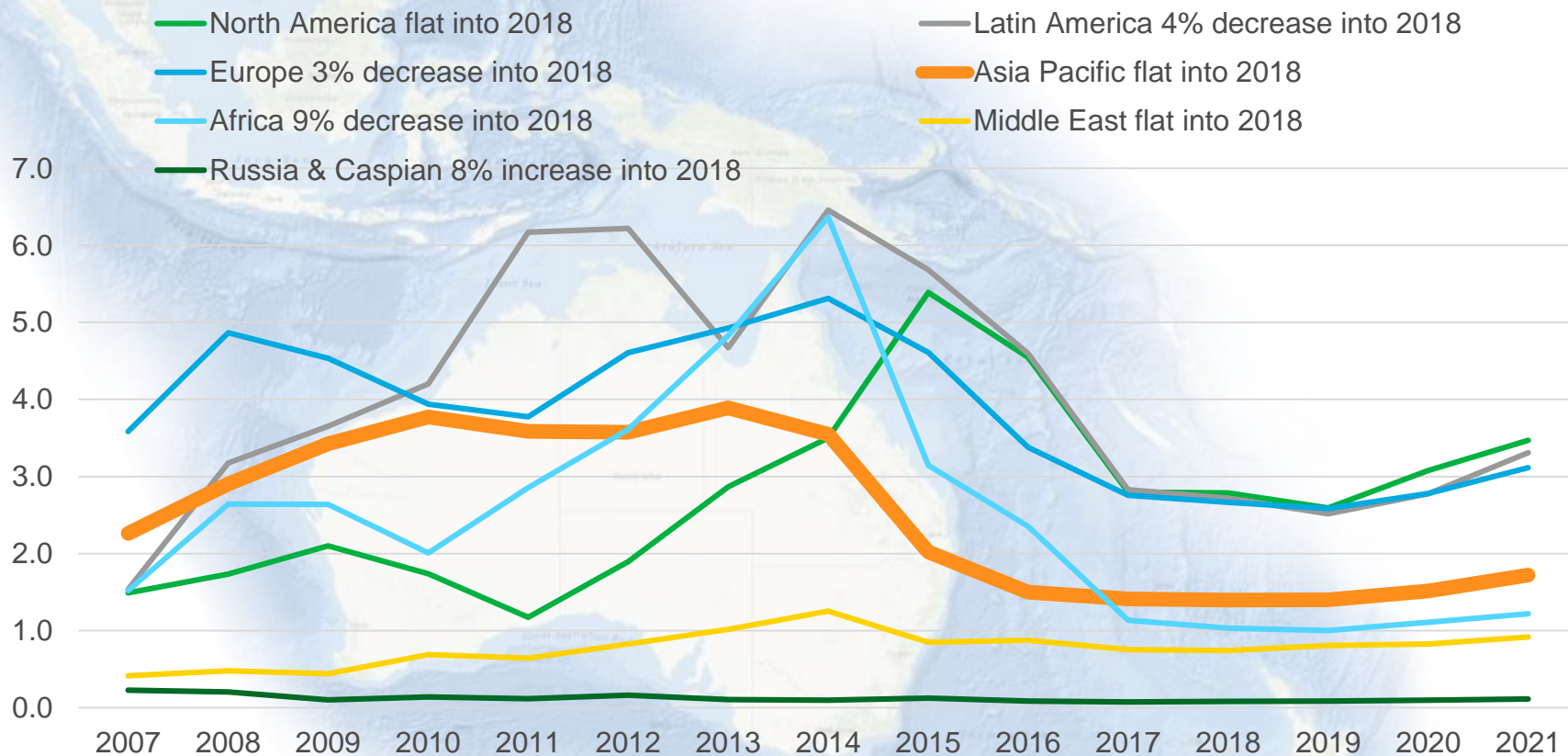
Appraisals

Some highlights of EUR growth through appraisal drilling



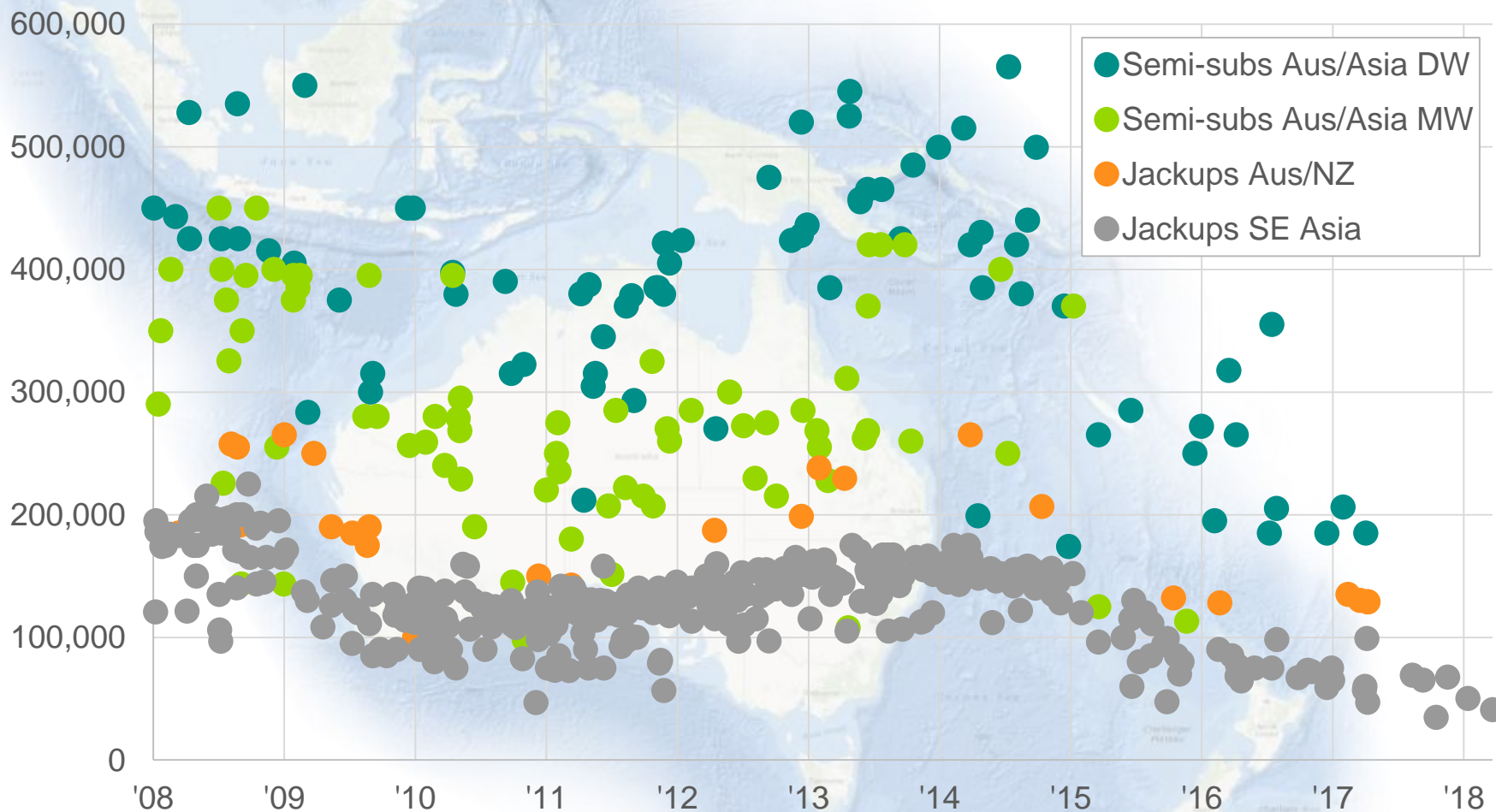
Offshore exploration spend half of historic highs

Asia Pacific exploration drilling and well services spending flat into 2018



Regional rig rates lowest in more than 10 years

Have jackup rates bottomed out? Floater rates converge above cost

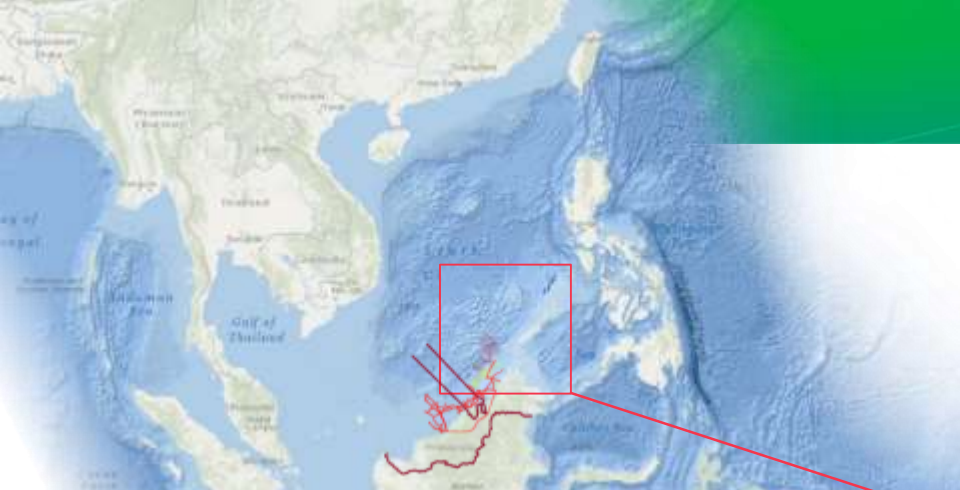


Source: IHS Rigpoint

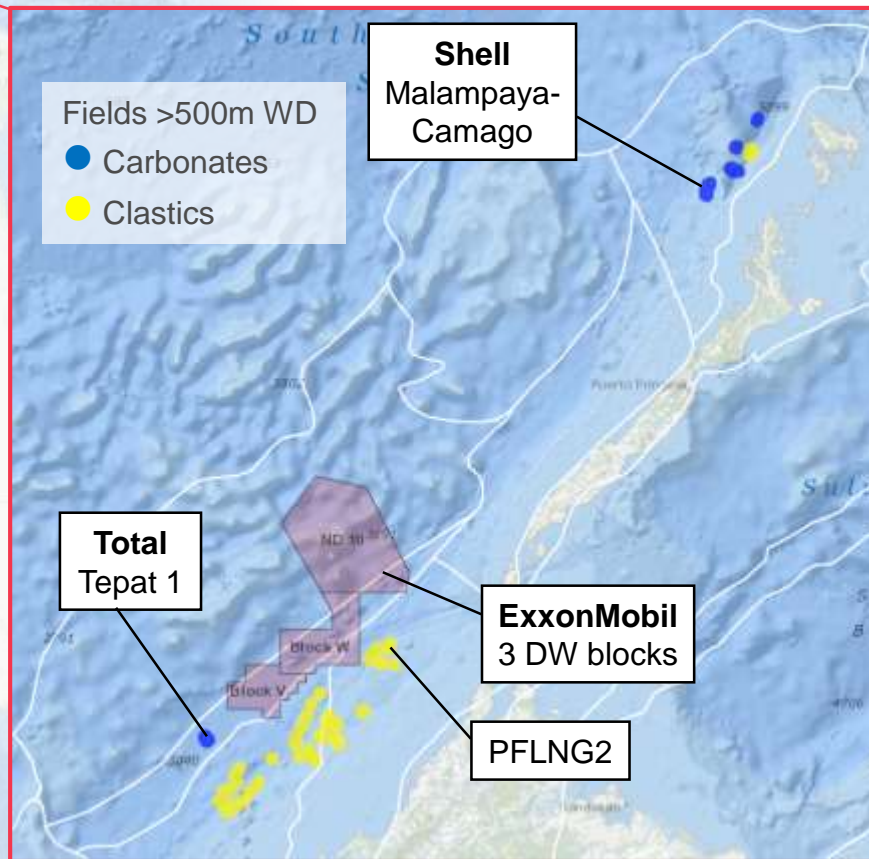
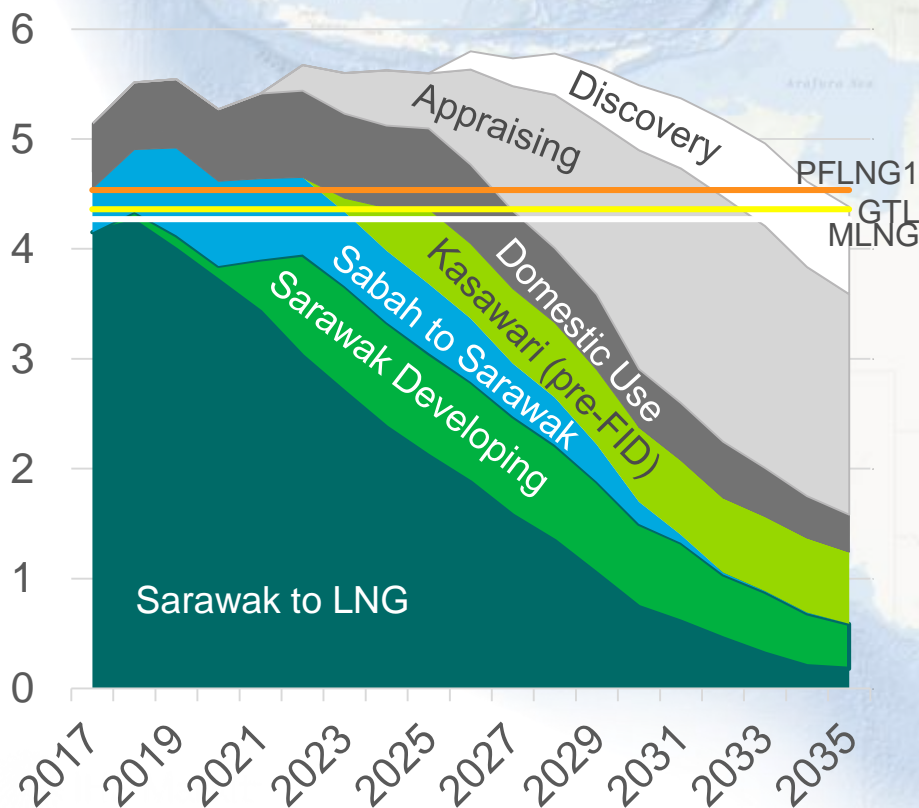
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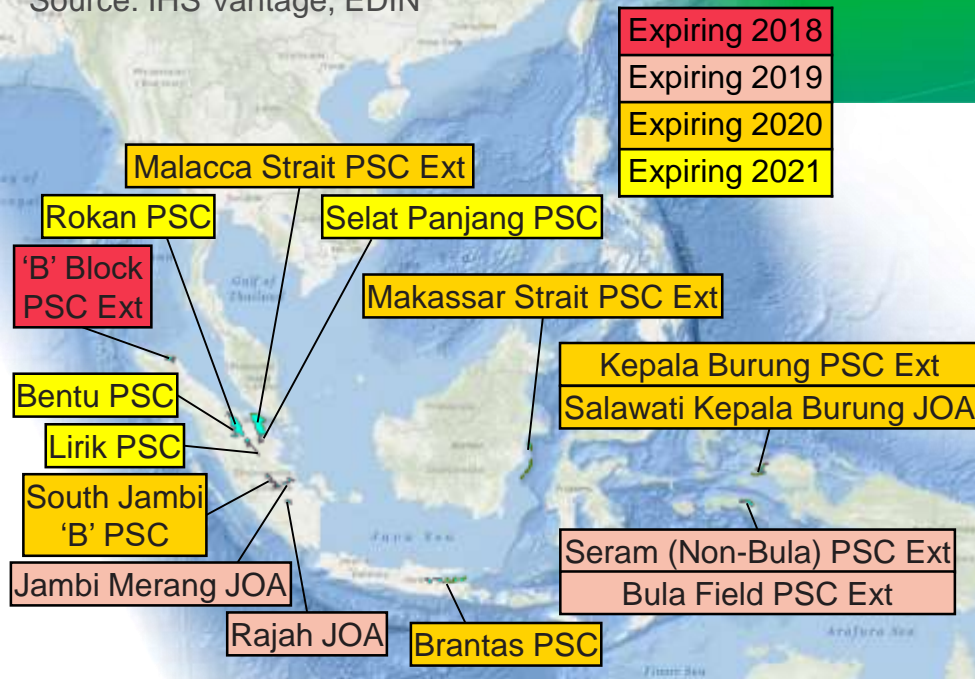
Malaysia: Prospecting to supply LNG

Sabah deepwater carbonate play opener



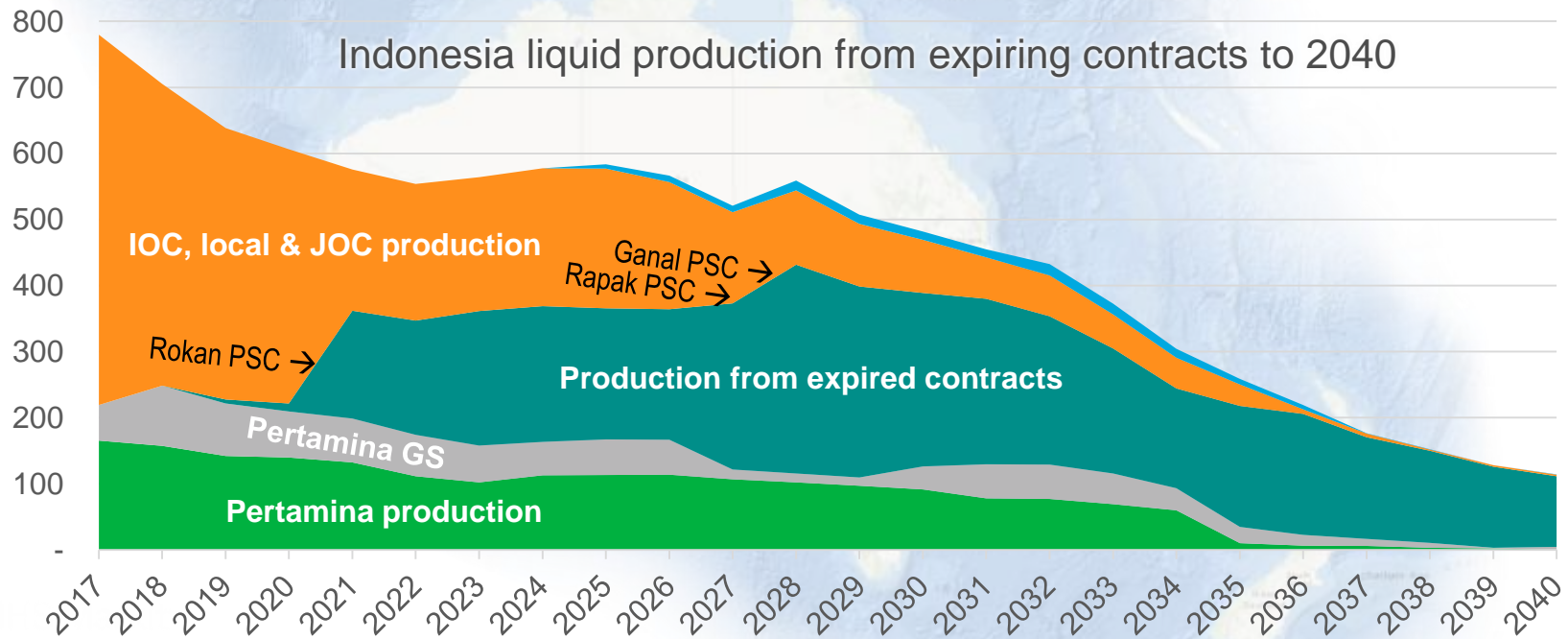
East Malaysia supply and capacity





Indonesia: new terms drive change

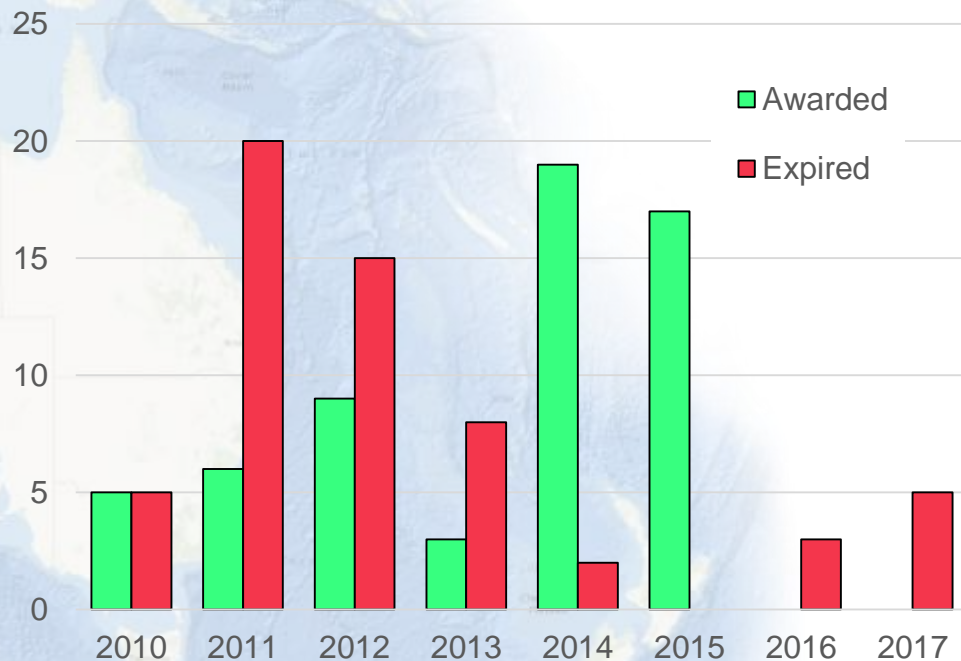
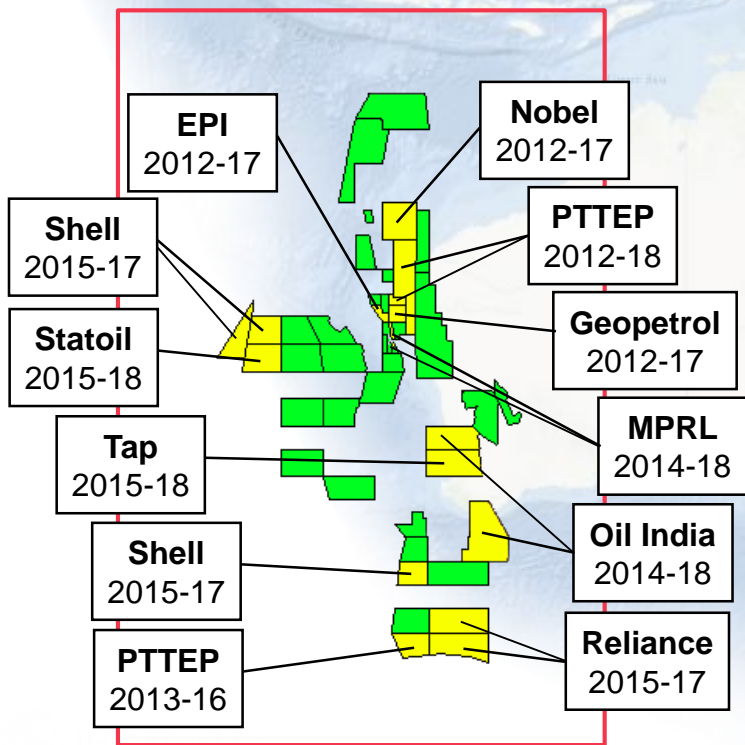
PSCs and JOAs re-awarded under gross-split terms impact liquids production first



Myanmar: exploration maturing, high-grading

Several blocks relinquished after initial exploration period

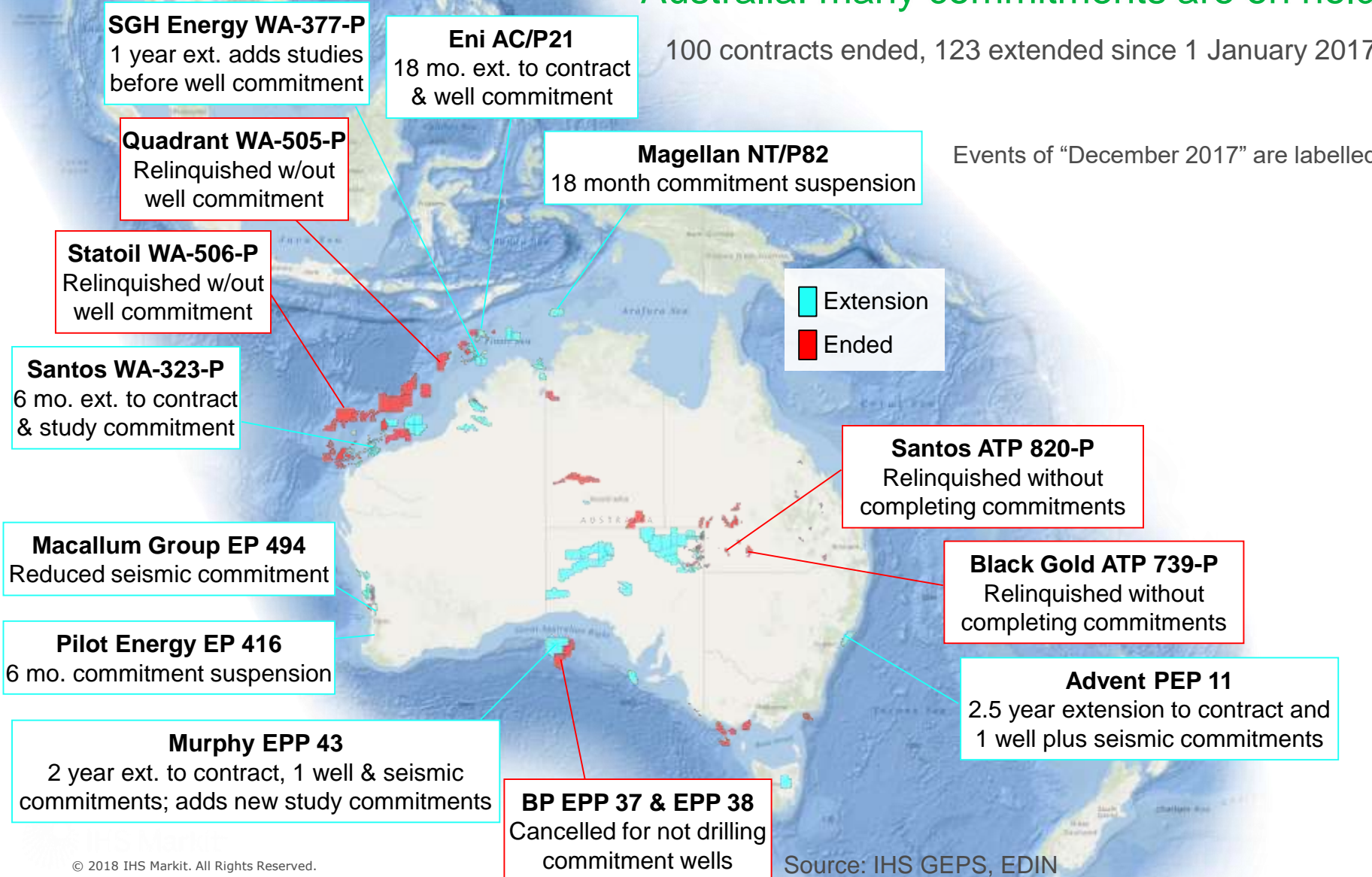
- Awarded and expired since 2010
- Awarded since 2010



Australia: many commitments are on hold

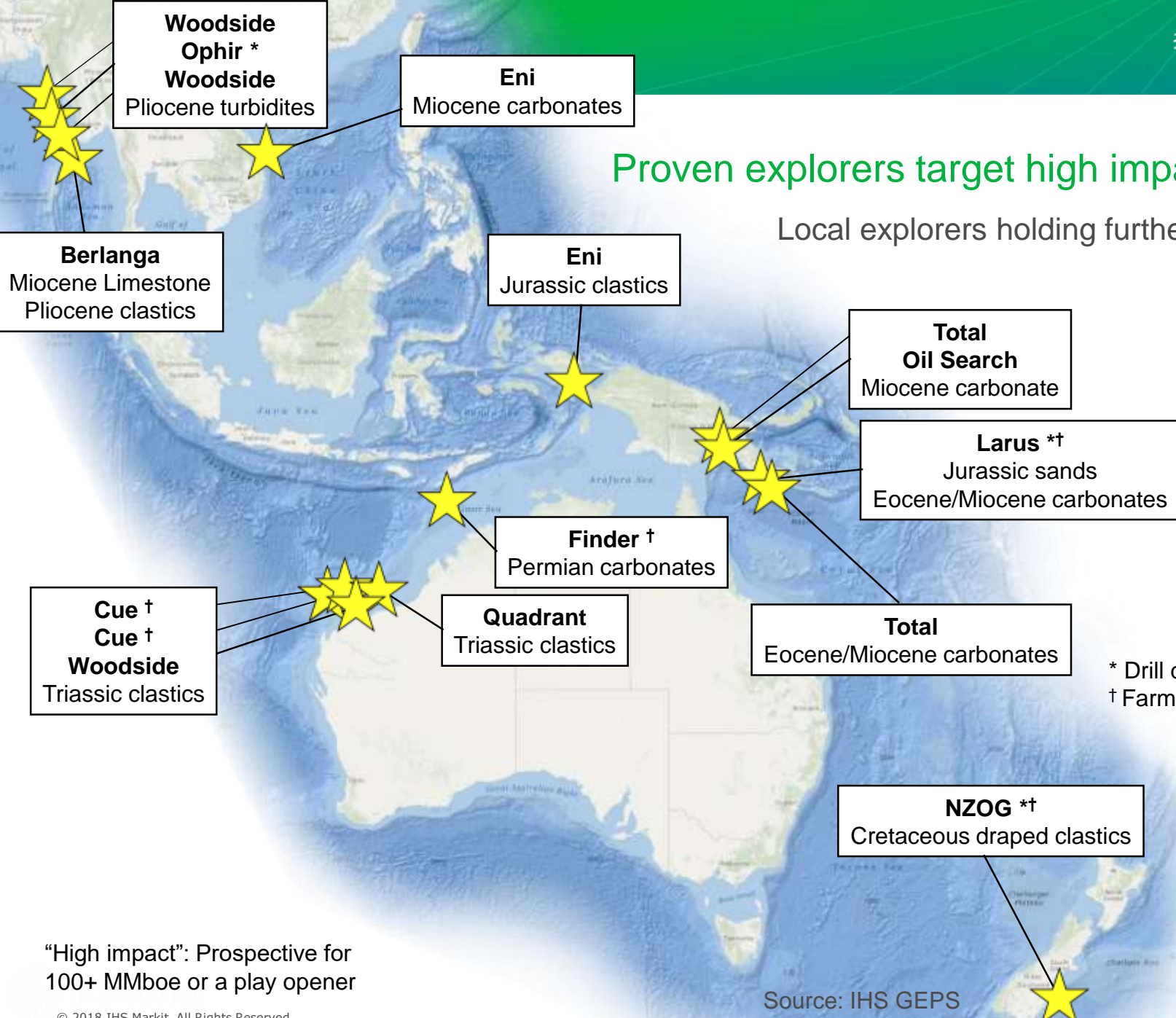
100 contracts ended, 123 extended since 1 January 2017

Events of "December 2017" are labelled



Proven explorers target high impact wells

Local explorers holding further potential



* Drill date not confirmed
 † Farm-in opportunity

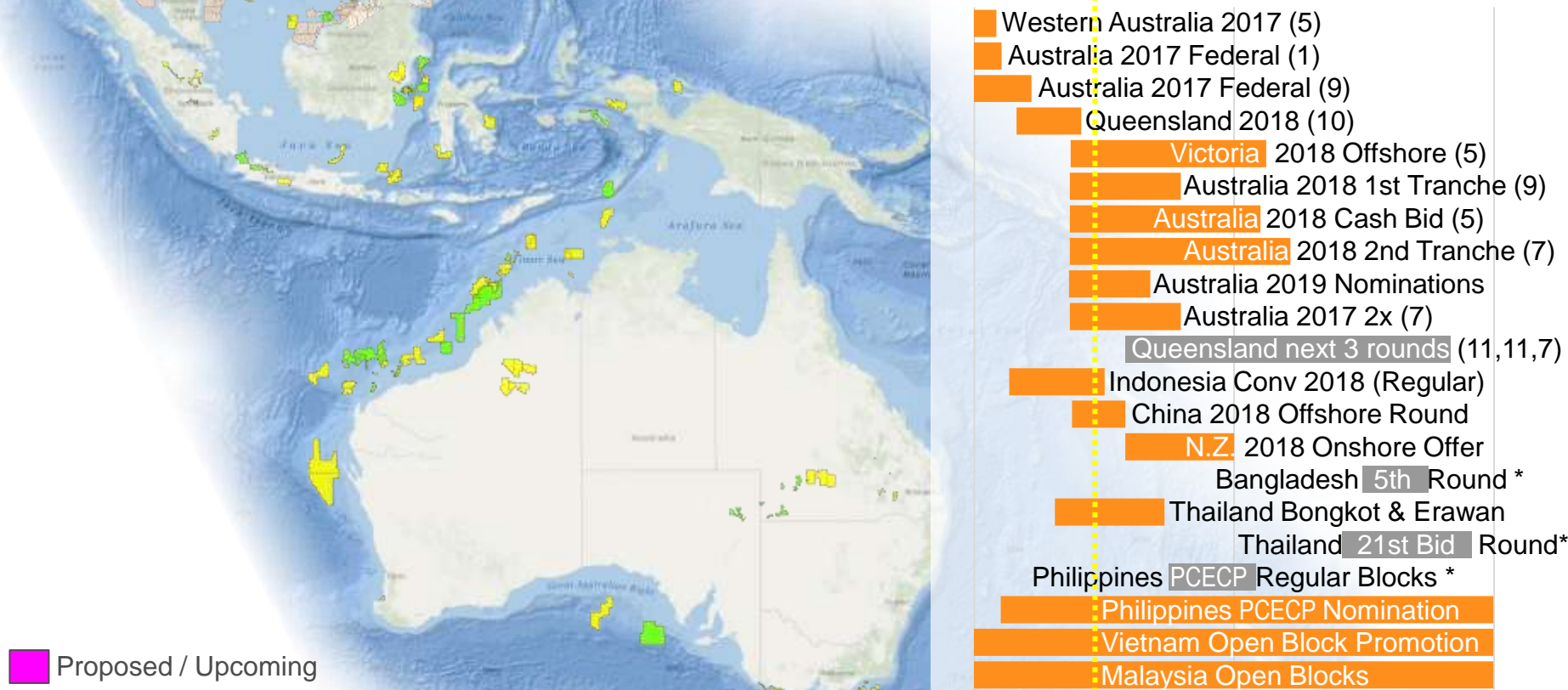
“High impact”: Prospective for 100+ MMboe or a play opener

Source: IHS GEPS

Bid rounds are one source of opportunity

Open & nomination blocks, farm-ins, direct negotiation...

2018 2019 2020



- Proposed / Upcoming
- Ongoing
- Open blocks (Vietnam, Malaysia)
- License round awards since 1 July 2016



* To be confirmed

Source: IHS GEPS, EDIN

19 June 2018

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1. Context
 2. Myanmar
 3. Papua New Guinea
 4. Indonesia
 5. South China Sea
 6. Cambodia and regional
 7. Northwest Borneo
 8. Australia & Timor Leste
-  Farm out and opportunity talks
 -  Posters

Session 6

Session 5

Session 7

Session 4

Session 8

Session 3

Thank You!



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