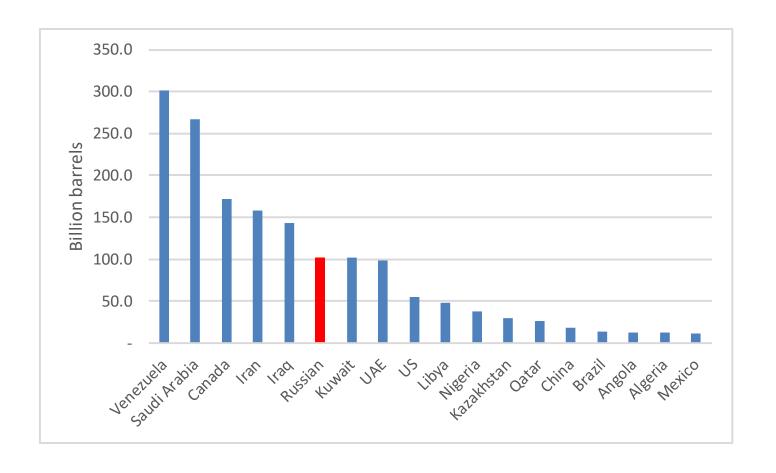




# Russian oil in a global and domestic context

**James Henderson** 

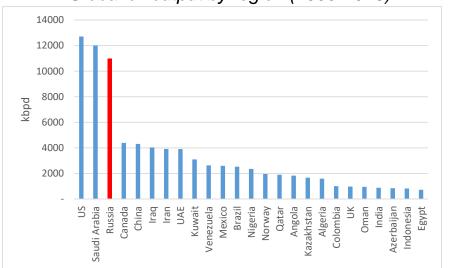
### World oil reserves by country



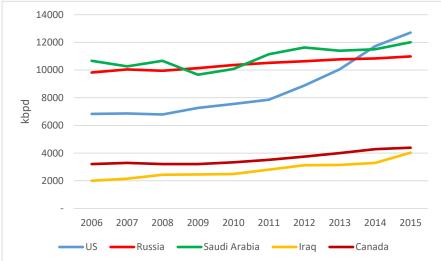
 Russia stands in 6<sup>th</sup> position in terms of proved oil reserves, and is the largest non-OPEC holder of conventional (low cost) oil

### Three countries dominate a diversified supply mix





#### Growth in oil production by region (2000-2015)



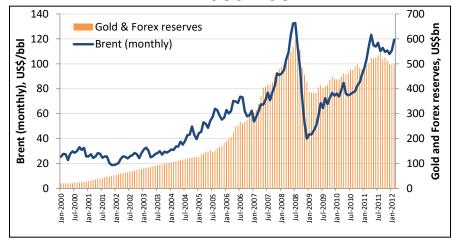
- The US, Russia and Saudi Arabia produce more than 10mmbpd each and account for one third of total global oil supply
- Other supply is spread across the world, although the Middle East again accounts for roughly one third of output
- The OPEC cartel produced 38mmbpd in 2015, or 40% of total oil supply, but it is increasingly dominated by Saudi Arabia

### The oil price and the Russian economy

Oil price and Russian Rouble

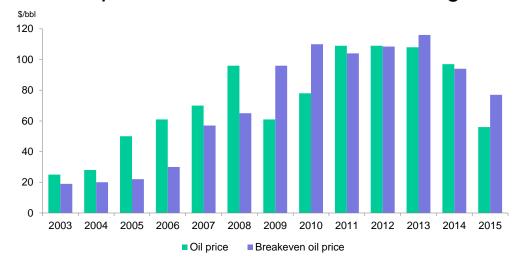


Oil price and Russian Financial Reserves



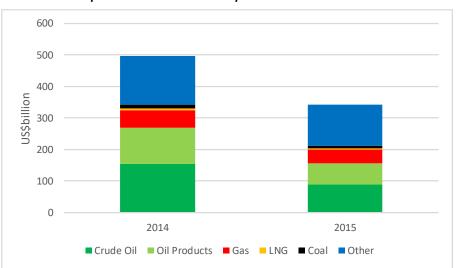
Tight correlation
between oil price, rouble
exchange rate and
Russian stock market

#### Oil price breakeven for Russian budget

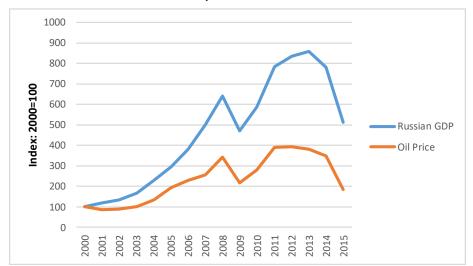


#### Importance of oil and gas to the Russian Economy

Split of Russia's export revenues



Correlation between oil price and Russia's GDP

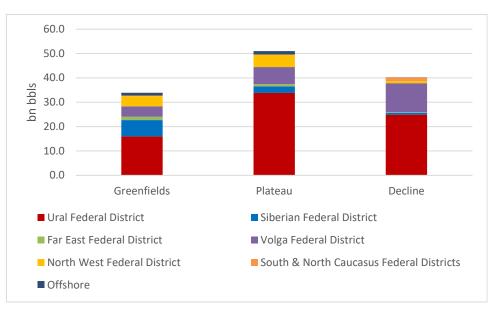


Source: Central Bank of Russia

- Oil is vital to the Russian economy, contributing much more than gas to exports and budget revenues
- Oil price and GDP are very tightly correlated. Oil makes a direct contribution of 15-20% of GDP.
- Oil price and rouble value are also tightly correlated, as evidenced over the past 6 months
- Oil and gas are both political symbols of Russia's strength and importance to the global economy

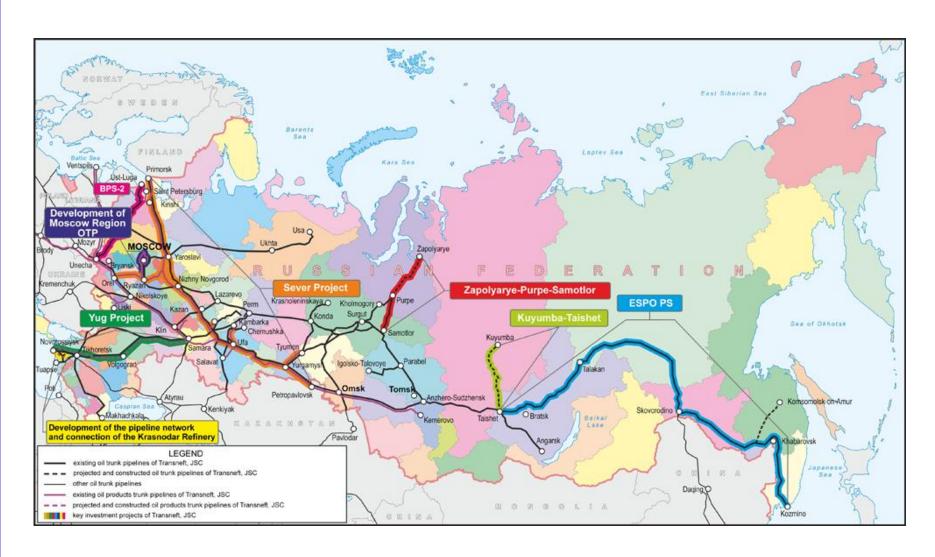
# Russia's oil reserves are spread across various types of field

Reserves by age of field



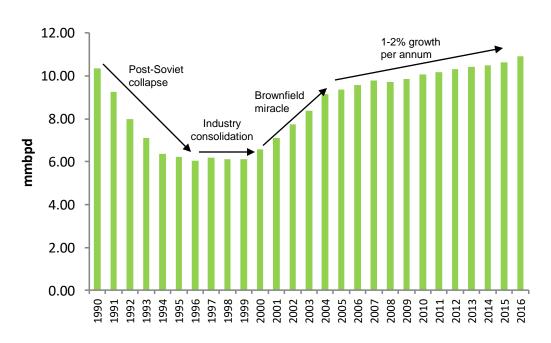
- Russian estimate of total reserves base is approximately 125 billion barrels
- The majority are located in the Urals federal district (which includes part of West Siberia)
- Importantly 85 billion barrels are in fields that are not yet in decline

#### Russian oil infrastructure



- Focussed on the West, with a new pivot to the East
- West Siberia remains the heartland, but East Siberia is a major growth area and increasingly important from a political perspective

### History of Russian oil production



- Following the collapse in oil output from 1991, a period of low level stability in the late 1990s also saw the creation of the major VIOCs
- Partnership with foreign service companies saw a dramatic rebound in early 2000s
- Increase in state control of sector from 2005 coincided with slowdown in output recovery
- There has been only one year of decline since 2000 (2008) despite constant complaints about the tax system

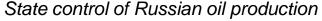
#### The Key Russian Oil Companies

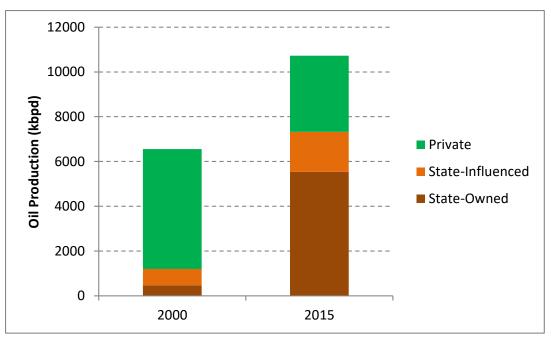
The Major Russian Oil Producers

			%
	2015	2016	change
Rosneft	3800	3799	0%
LUKOIL	1721	1662	-3%
SurgutNG	1237	1239	0%
Gazprom Neft	689	757	10%
Tatneft	547	575	5%
Slavneft	311	300	-3%
Bashneft	400	428	7%
Russneft	148	140	-5%
Gazprom	341	348	2%
Novatek	95	161	70%
Other	1435	1556	8%
Russia Total	10725	10965	2%

- Production is dominated by eight major oil companies and two gas companies which produce condensate
- Three companies account for more than 60% of total production
- There are around 150 smaller companies who are growing strongly but make little in the way of overall contribution

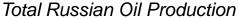
#### Russian oil production by ownership



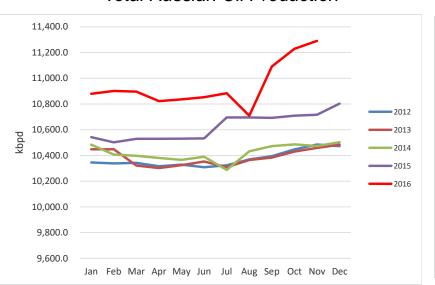


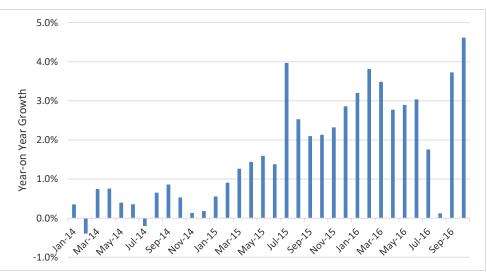
- Rosneft dominates Russian oil output, following takeover of TNK-BP in 2013, with a 37% share
- When the sector had been fully privatised in 2000 the State's equity share of total oil production was only around 300kbpd (Rosneft)
- The share of state ownership has risen to 50% on an equity basis and almost 70% on a "control" basis

## Russian oil production has been robust



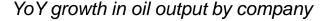


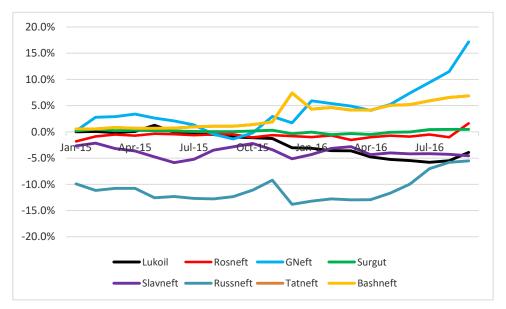




- Production has continued to increase in 2016, in line with the trend set in 2015
- No month has seen a decline year-on-year since July 2014, despite Govt. concerns
- Companies have been put under pressure to focus on core production, re-directing investment towards enhanced oil recovery at existing fields – stability seen as the minimum requirement
- New fields that were under development pre-2014 have also made a significant impact on short-term production
- Impact of tax changes, sanctions and rouble exchange rate will be key to outlook

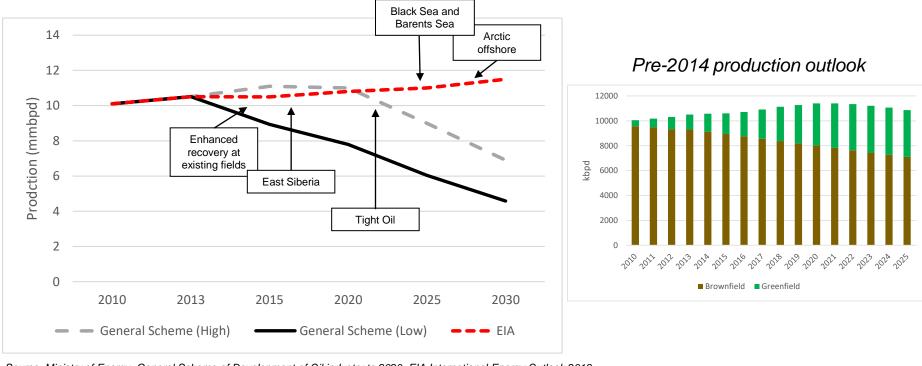
#### Oil production by company – clear winners and losers





- GazpromNeft and Bashneft have led the way thanks to their range of new greenfields
- Lukoil has been the major laggard among the major companies, although Russneft has suffered from under investment too
- Rosneft has seen gradual declines, although a recent focus on its brownfields has led to a return to growth and new greenfields are also being brought online
- Smaller oil companies also continue to account for a disproportionate amount of growth (28% of increase in oil output over past 12 months)

## Future of Russian oil production – key drivers

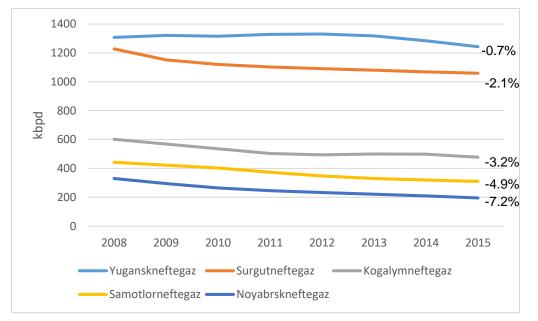


Source: Ministry of Energy, General Scheme of Development of Oil industry to 2020, EIA International Energy Outlook 2013

- Maintaining oil production growth is certainly a challenge
- Slow growth from 2014 levels (10.6mmbpd) had been expected
- The impact of new fields could have seen total output at 11.5mmbpd by 2020, and this level could have been sustained with Arctic output
- Challenge now is to optimise capital expenditure and prioritise key developments

#### Russia's core oil fields are declining at around 2.5% pa

Production from Top 5 Producing Companies in Russia

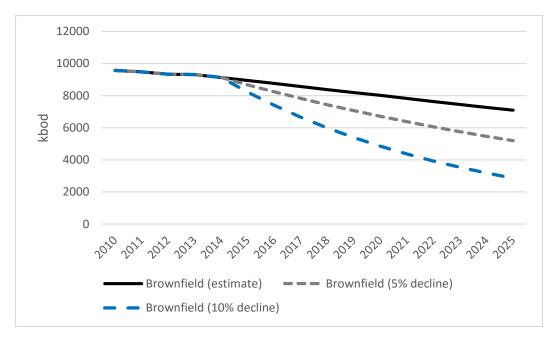


NB: % = average annual growth/decline 2008-2015

- Average decline rate for top 5 producing companies is -2.5% pa
- Wide range of performance reflects maturity of fields and efficiency of companies in applying enhanced oil recovery
- Expanding the analysis to top 10 companies reduces decline rate to -1.5% pa
- Reflects significant remaining potential in West Siberia

### Potential decline in brownfield output

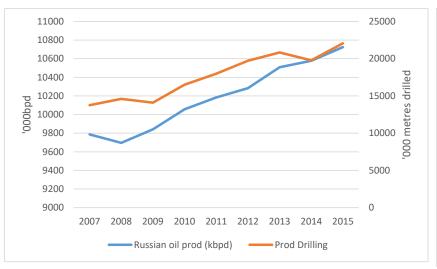
Decline rate scenarios from Russian brownfields



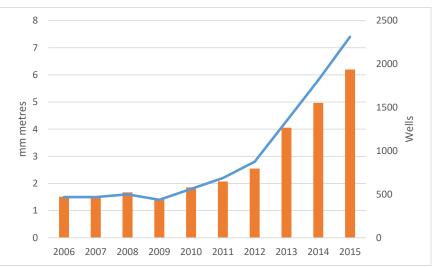
- Average decline rate with sustained investment is 2.0% per annum
- Natural decline rate from fields is 10%+ without any remedial action
- Decline in early 1990s averaged 8.6% per annum (1990-1996)
- Mid case assumed at 5% per annum to reflect possible reduction in spending and increasing maturity of fields

### Production, especially at brownfields, is driven by drilling

#### Levels of drilling and oil production



#### Horizontal drilling in Russia



- Not surprising that there is a strong correlation between production drilling and oil output
- R squared of 0.92 suggests imperative to keep drilling in order to maintain production
- Drilling, both conventional and horizontal, continues to increase
- However, companies need to be encouraged to invest costs need to be controlled and the Russian tax system needs to provide incentives

# Increased use of directional and horizontal drilling has improved well performance







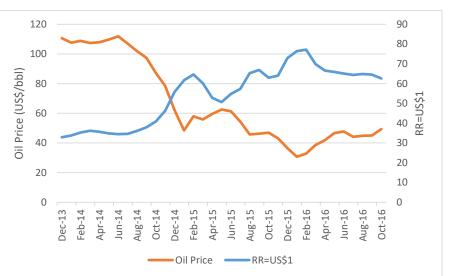
Source: "Oil and Gas Vertical" magazine (CDU TEK)

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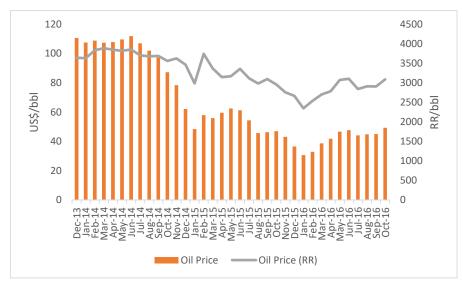
- Sanctions have had an impact on availability of new technology, but Russian service companies can still provide significant input to improving production
- Increase in horizontal drilling has been dramatic over the past 3-4 years
- GazpromNeft in particular has tripled the amount of horizontal drilling, especially at its Salym subsidiary in West Siberia

### Impact of Rouble Devaluation

Oil price versus rouble exchange rate



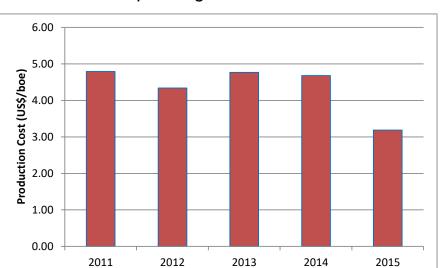
Oil price in roubles and dollars



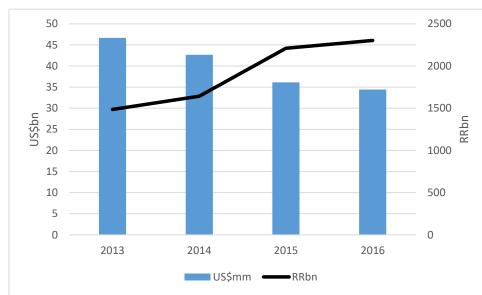
- 80-90% of capex is in roubles, so investment costs in US\$ have fallen sharply
- Around two thirds of operating costs are in roubles
- Correlation between oil and price and exchange rate remains very strong if anything the rouble oil price has recovered recently after a worrying fall in 2015
- Key question is how Central Bank will respond if oil price recovers significantly

### Costs have declined sharply, but spending is up



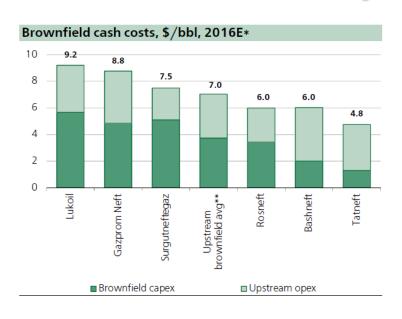


Oil sector capital expenditure in US\$ and RR

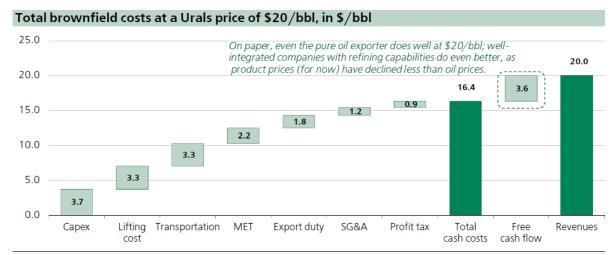


- Operating costs, which are 80% rouble based, have fallen sharply in US\$ terms
- Capital expenditure is more dependent on foreign imports, but a decline in US\$ capex has still resulted in a rise in RR terms
- Import substitution is becoming a key Russian strategy in many sectors

# Russian breakeven oil price is below \$20 per barrel

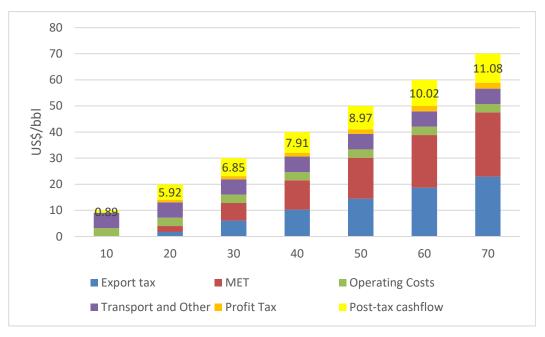


- Despite tax adjustment in 2016 Russian oil production is very economically robust
- Cash costs are below \$10 per barrel
- Including taxes and transport, Russian oil production from brownfields breaks even at below \$20 per barrel
- Key parameter is initial flow rate of wells, to allow early recovery of costs



# High tax burden constrains cashflow but also provides a buffer against low oil prices

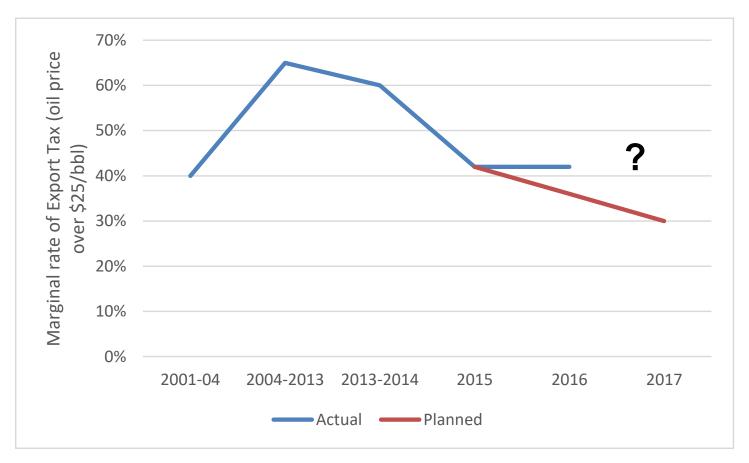
Breakdown of oil company upstream cashflow



- Russia's high level of revenue taxes (export tax and MET royalty) has limited cashflow throughout post-Soviet era
- However, sliding scale of taxes means that government bears most of the burden in a falling oil price environment
- In 2015, for every \$10 decline in the oil price Russian oil companies only lost \$1.44 per barrel of post-tax cashflow
- Percentage decline was still significant, but high tax rates acted as something of a buffer

## Taxation remains a major area of debate

Russian tax grab in 2016 and 2017



- Governments are always changing the rules Russia is no exception
- Companies hate uncertainty, and won't invest if they think the playing field is being changed constantly

### Profit tax for old and new fields now being discussed

12 fields for onshore trial

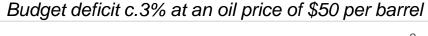
#### Profit / Return-based system used in Russian offshore

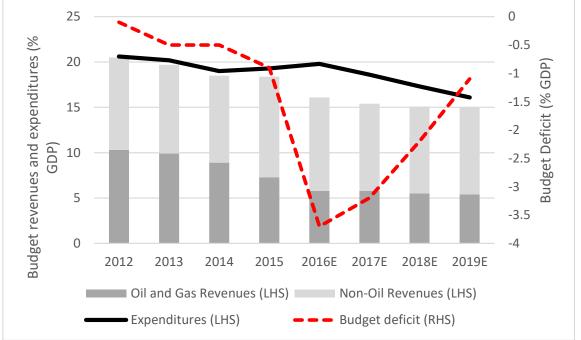
Group	Location	IRR target	Royalty rate
1	Baltic/Azov Seas	16.5%	30%
2	Shallow waters of the Black Sea, Pechora and White Sea, southern part of the Okhotsk Sea, offshore Sakhalin	18.5%	15%
3	Deep waters of the Black Sea, the northern part of the Okhotsk Sea, southern part of the Barents Sea	20.5%	10%
4	Offshore projects in the Arctic (includes Kara Sea), the northern part of the Barents Sea, the Eastern Arctic	22%	5%

Company	Fields	
Lukoil	Lazarevskoye	
	Krasnoleninskoye	
	Nivagalskoye	
	Las-Yeganskoye	
	Imilorskoye-Istochnoye	
Rosneft	Khasyreiskoye	
	Nadeiyuskoye	
	Bakhilovskoye	
	Verkhne-Kolik-Yeganskoye	
GazpromNeft	Vyngayakhinskoye	
	Yety-Purovskoye	
	Vokyntoiskoye	

- Profit-based tax system introduced for offshore, to appease ExxonMobil in Arctic
- Easy to implement and no immediate impact on government revenues
- New scheme to be trialled for onshore fields under development
- 12 fields selected, but no details as yet of tax scheme to be used
- Key element is cost recovery, which allows companies to make a better rate of return and reduce risk

# Russian budget has been put under pressure by lower oil price

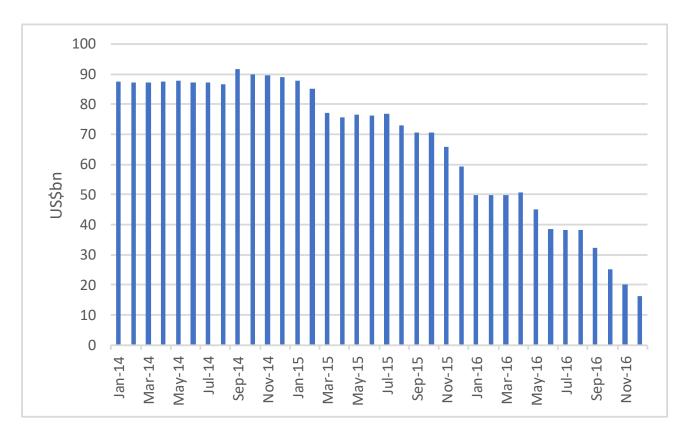




- However, Russian fiscal policy remains a critical issue, as the fall in oil and gas revenues has created a significant budget deficit
- At the budgeted oil price of \$40 per barrel Russia would run a budget deficit of almost 4%
- The oil contribution to budget revenues has fallen sharply from over 50% to around 35%

### Russian reserves to fund budget deficit are running out

#### Russia's Reserve Fund in decline



- Reserve Fund could run out by the end of 2017
- Russian government would lose flexibility ahead of the 2018 electoral cycle

# Until Dec 2016 Russia and OPEC had never fully implemented an agreement on output restraint

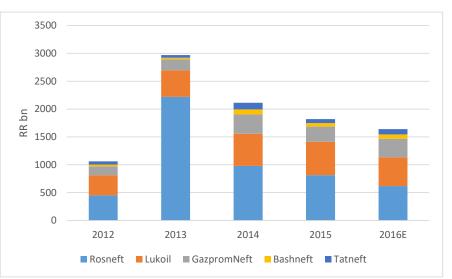
Four "attempts" at co-ordination, one success



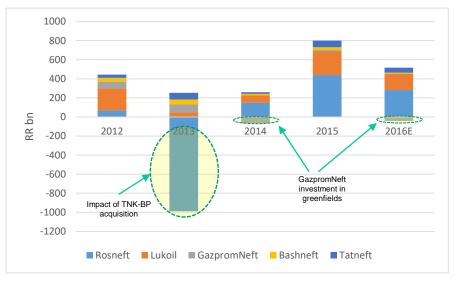
- Russia has agreed to comply with the OPEC production cut announced in December 2016
- However, the history of Russian co-operation with OPEC is not particularly successful
- The failure of the Doha meeting in April 2016 left a sour taste, but necessity has brought Russia back to the table
- Trust on both sides is low, although everyone understands the need to maintain an image of solidarity and compliance
- Economic and commercial necessity has created an alliance that is likely to be tested if and when oil prices rise above \$60-70 per barrel
- Ironically, US shale reaction could keep alliance of traditional producers together for

# Russian oil companies have been financing capex from free cashflow





#### Free cashflow generation in RR



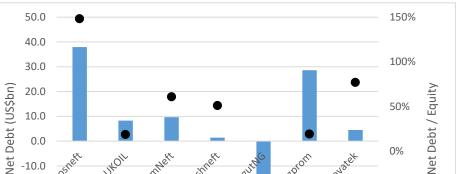
- Sanctions have reduced the ability of all Russian oil companies to raise finance cheaply in international capital markets
- Companies have been forced to finance investment through operating cashflow, and have been successful at doing this
- Rosneft is the company under the most pressure 2016 figures will be altered by Bashneft purchase plus asset divestments to India, as well as potential privatisation

-20.0

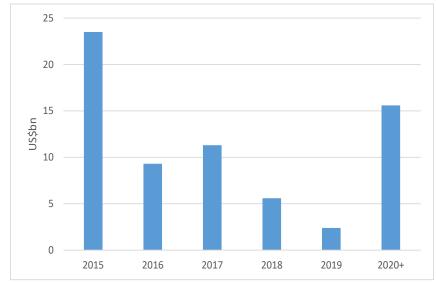
-30.0 -40.0

### Only Rosneft has really struggled to pay the bills

Russian oil and gas company debt



Rosneft debt repayment schedule



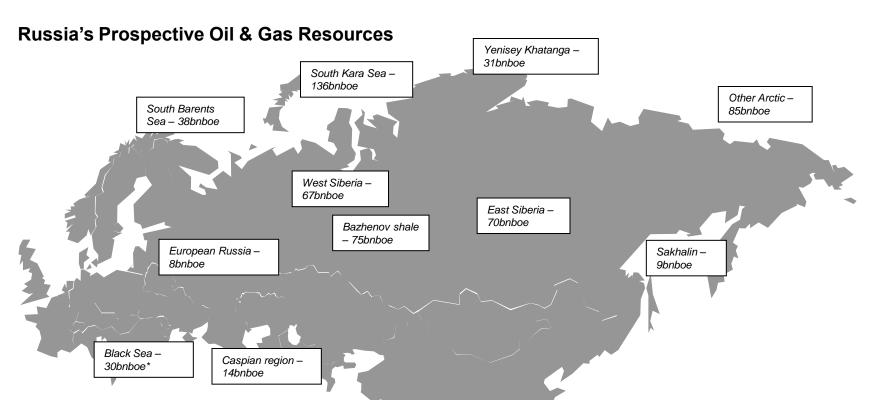
 Rosneft had \$37bn of net debt at the end of 2015, but also had prepayment arrangements totalling \$26bn

-50%

-100%

- Rosneft has had to rely on Chinese support to pay off debt from purchase of TNK-BP
- Crisis was averted in Q3 2015, when a prepayment from CNPC allowed repayment of short-term debt
- Other companies have struggled to raise debt due to sanctions, but are surviving on operating cashflow
- Novatek has recently received project finance for Yamal LNG from China

# Offshore regions contain the majority of Russia's future resources, although shale and East Siberia have significant potential

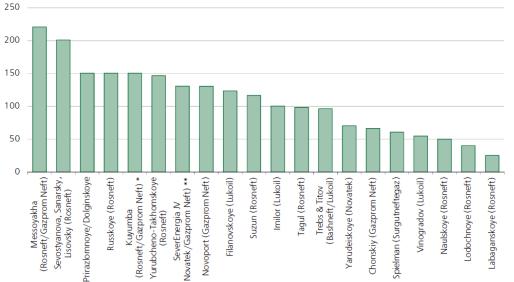


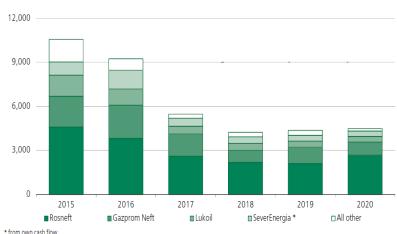
- A new tax regime has been introduced for Russian offshore, where two thirds of Russia's future resources are located offshore, with more than half in Arctic waters
- Gas also makes up two thirds of the resource base, but oil resources remain significant
- Exploitation of existing regions will be a priority, but a shift towards the frontiers appears inevitable
- International investment will be a necessity, for finance and technology

#### Greenfield potential close to existing infrastructure



# NOCs dominate spending





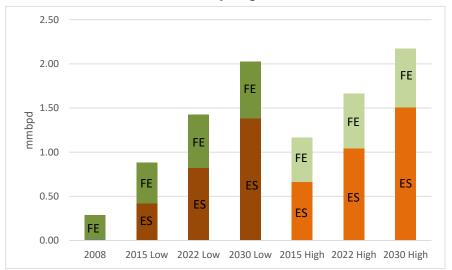
- Russia has as many as 20 new fields set for development, many of them close to existing infrastructure
- However, c.\$40 billion will need to be spent to ensure timely development
- A key issue is that NOCs dominate the development plans, with Rosneft and GazpromNeft needing to spend \$11bn in the next two years alone

# Russia's "pivot to Asia" has been spearheaded by Rosneft and the oil industry

The ESPO pipeline has provided a vital infrastructure catalyst



The production potential of the Russian Far East is very significant



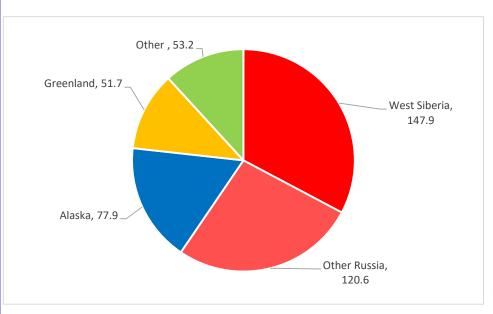
Russian government projections

- East Siberian oil resources are estimated in a wide range of 70-160 billion barrels, and major tax breaks have been offered for their development
- Realistic production estimates suggest that 2mmbpd could be produced from the region by the end
  of the next decade
- Oil is also being redirected from West Siberia to fill the ESPO pipeline, which will have an ultimate capacity of 1.6mmbpd to China and the Pacific coast
- Rosneft is the main player in the region, and has dominated the relationship with China
- Foreign companies are becoming increasingly involved, with a focus on Asian players

# Development of Russian Arctic a possible long term option but now in serious doubt

Russia has largest share of Arctic resources

Partnership with Exxon has been key focus

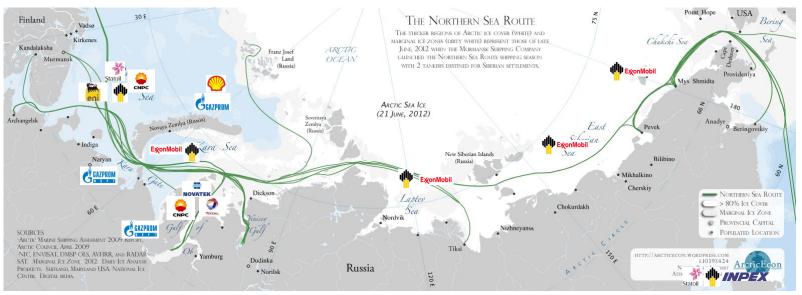




- Arctic development a prestige political project for Russia as well as a long-term production solution
- Opportunity to develop world-leading technology in partnership with IOCs and establish important presence in emerging new region
- Rosneft will not be able to move forward with plans without IOC support, both financial and technical

### For Russia the Arctic is geo-political as well as commercial

The Northern Sea Route set to become the "Cold Silk Road" to Asia



The Russian Arctic holds vast hydrocarbon potential (240 billion boe), which could sustain the country's oil output beyond 2030 and form the basis of an LNG hub

The Russian government is keen to develop the economic potential of its Northern regions, and plans to use the oil and gas industry as a foundation for this

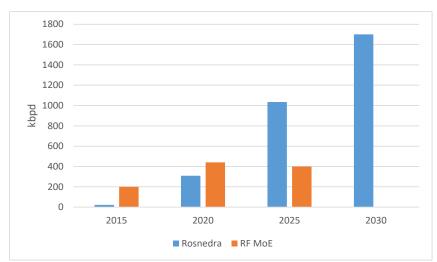
New tax regime based on sliding royalty to incentivise investment

The Kremlin has clear geo-political ambition in the region, which goes beyond commercial logic – control of the northern sea route is a core strategy and Soviet military bases are being re-opened

Oil production has started (2 fields), the Yamal LNG project is set to come online in 2017 and a major discovery has been made in the South Kara Sea

### Outlook for shale oil in Russia limited by sanctions

#### Estimated production potential of Russian shale oil



- Russian shale oil in Bazhenov had been identified as a key source of medium-term production
- Original expectations of 1-1.5mmbpd of production by mid-2020s

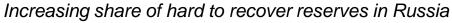
#### Location of Bazhenov in West Siberia

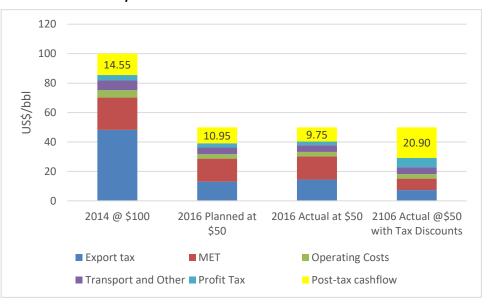


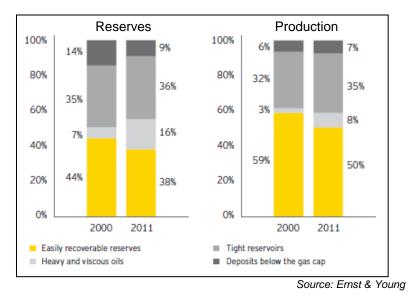
- Joint ventures involving Shell, BP, ExxonMobil, Statoil and Total were undermined by sanctions, which specify no transfer of technology for use specifically in shale reservoirs
- Key technology issues appear to concern multi-stage hydro-fracking and logging while drilling, where Russian companies lack proprietary technology
- Major long-term concerns likely to be infrastructure and governance can Russia build enough rigs and are state companies the ideal players

#### Tax manoeuvre can benefit "hard-to-recover" reserves

Comparison of cashflow breakdowns



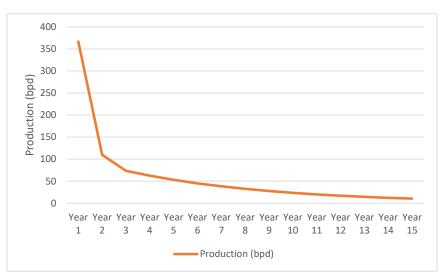




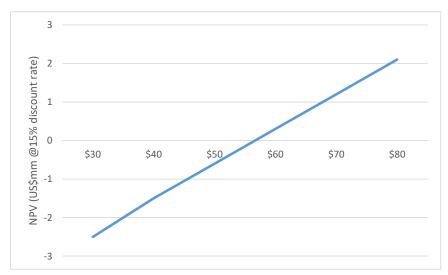
- Cashflow for hard-to-recover oil with 50% discount to MET and export tax is greater at \$50 per barrel oil price as 2014 total cashflow at \$100 per barrel without discount
- MET discount can range up to 100% of specific reservoirs and types of crude oil, while export tax and also be reduced to zero
- However, these benefits have been partially offset by an adjustment to the 2016 tax arrangements
- A planned reduction in the export tax rate was postponed in order to generate an extra \$3 billion for the federal budget

#### **Economics of a Bazhenov well**

#### Assumed flow rate of Bazhenov well



#### NPV sensitivity to oil price for Bazhenov well



- A standard Bazhenov well close to existing infrastructure in West Siberia would appear to breakeven at an oil price of around \$55-60 per barrel
- Companies such as GazpromNeft and Rosneft are currently maintaining a watching brief on Russian shale, without making any major financial commitments
- BP has signed a JV with Rosneft to explore the Domanik tight oil formation, committing \$300mm of exploration funds
- Bazhenov economics based on data from 2014, adjusted for devaluation of rouble
  - Original cost of Bazhenov horizontal well with multi-stage fracking was estimated at up to \$9mm rouble devaluation would imply that this has fallen to around \$5mm
  - Initial flow rate assumed to be 50 tonnes per day (370bpd), declining to 15 tonnes per day (110bpd) in year 2
  - Zero MET assumed, in accordance with current tax rules
  - 50% of crude oil exported, 50% sold on domestic market

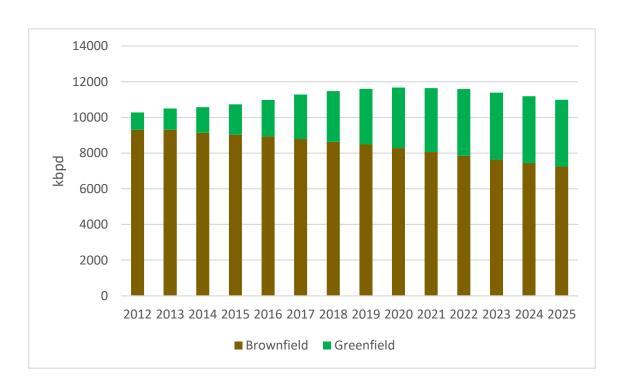
## Sanctions have forced a strategic re-think

	US Treasury EO 13662 Directive 2 (Financing)	US Treasury EO 13662 Directive 4 (Technology)	US Commerce Dept. Export Controls	EU Finance Restrictions	EU Technology Restrictions
Transneft	Yes			Yes	Yes
Gazprom		Yes	Yes		
South Kirinskoye field		Yes	Yes		
(Sakhalin 3 - Gazprom)					
GazpromNeft	Yes	Yes	Yes	Yes	Yes
Lukoil		Yes	Yes		
Novatek	Yes				
Rosneft	Yes	Yes	Yes	Yes	Yes
Surgutneftegas		Yes	Yes		

- Technology bans in the Arctic and shale oil have had little impact on short-term production but have changed investment priorities
- Arctic investment acknowledged as irrational at current oil price;
   tight oil desirable but unachievable until sanctions lifted
- Key concerns with regard to sanctions concern financing:
  - Specific limits on finance-raising for certain companies
  - The downgrade of Russian sovereign debt to junk status, with a consequent impact on state companies' financing ability
- Re-focus on core assets and enhanced recovery

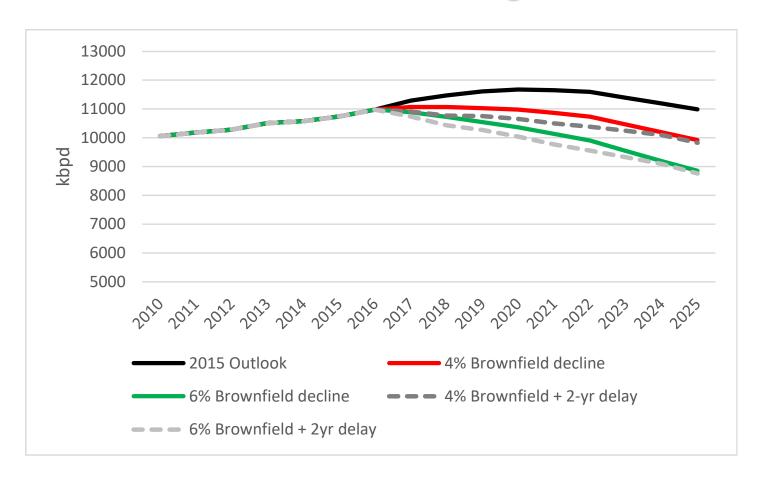
#### Statoil Statoil Statoil International oil company activity in Russia is mainly focused on opening frontier areas **New Investment Areas** Arctic partnership Offshore Tight Oil Arctic South Kara Sea Exploration East Siberia ExonMobil Laptev and Chukchi Sea Exploration LNG ExonMobil 4 NOVATEK CNPC Yamal LNG GAZPROM **G**GAZPROM Gas Tight Oil Vankor Ex/onMobil Baltic LNG? <sub>d</sub>llþ Statoil <del>dll</del>þ +ajs-rc opec Tight Oil Sea of Okhotsk East Siberia JV Udmurtneft 他 ExonMobil ExonMobil. GGAZPROM Black Sea Exploration Equity stakes Sakhalin E&P **FEPCO** Petrochem Plant 19.75% 19%

### A Base Case Production Outlook



- Assumes 2% brownfield decline curve
- No delay at green-fields already on production or set to commence in the next year
- 2 year delay for all new fields that can realistically be delayed
- Result is a steady increase in output to 11mmbpd in 2020
- No production from tight oil or Arctic

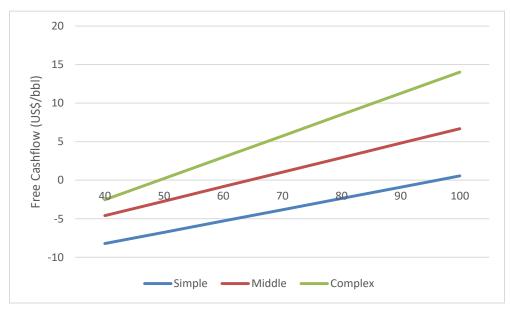
# Downside scenarios underline the risks of getting the balance wrong



Russian government has a good track record in the post-Soviet era, though

## Impact of tax changes on downstream business

Free cashflow for different refinery types in Russia



- One other major change in the tax regime has been a re-adjustment of downstream export tax
- In particular, the export duty on fuel oil will rise to 100% of crude export tax by 2017, while tax for diesel and gasoline both fall to 30%
- As a result, there is a major incentive for companies to upgrade their refineries to increase the output of light products
- Simple refineries will hardly breakeven at an oil price (and related product prices) of \$100 per barrel

# Companies and refineries at risk, increasing crude available for export

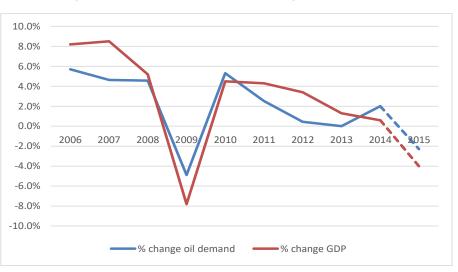
2014 data	Throughput	% light	
	('000bbls)	products	
Rosneft	559.5	52%	
Lukoil	327.8	59%	
GazpromNeft	232.9	66%	
Bashneft	157.4	73%	
Surgutneftegas	140.0	56%	
Slavneft	111.2	52%	

Refinery	Owner	Throughput	Fuel Oil as %
		2014 (kbpd)	Throughput
Ukhta#	Lukoil	79	40%
Kirishi # @	Surgutneftegas	384	42%
Komsomolsk* @	Rosneft	142	36%
Ryazan @	Rosneft	328	34%
Saratov # @	Rosneft	141	26%
Achinsk # @	Rosneft	103	35%
Sub-total		1177	
*2013 data			
Independents			
Mini-refineries	Various	173	34%
Novoshakhtinsk	Zarubezhneft	52	46%
Afipsky	Nefte Gaz Industriya	117	45%
Antipinsky	Antipinsky Oil Refinery JSC	124	48%
Orsk # @	Orsknefteorgsintez	118	33%
Sub-total		585	

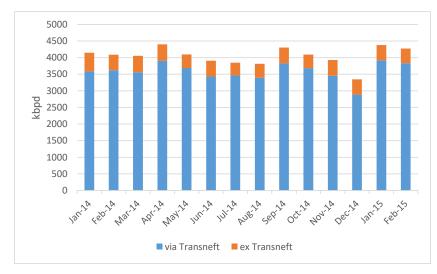
- Rosneft in particular has the lowest light product output and is struggling to meet its downstream capex commitments
- The 100% fuel oil export tax has been delayed by one year to assist
- However, a number of independent refineries are also struggling and may have to shut down
- Other companies have also suggested that they may run their plants on an intermittent basis

# Decline in GDP suggests oil demand will also fall, further increasing export prospects

GDP growth versus oil demand growth in Russia

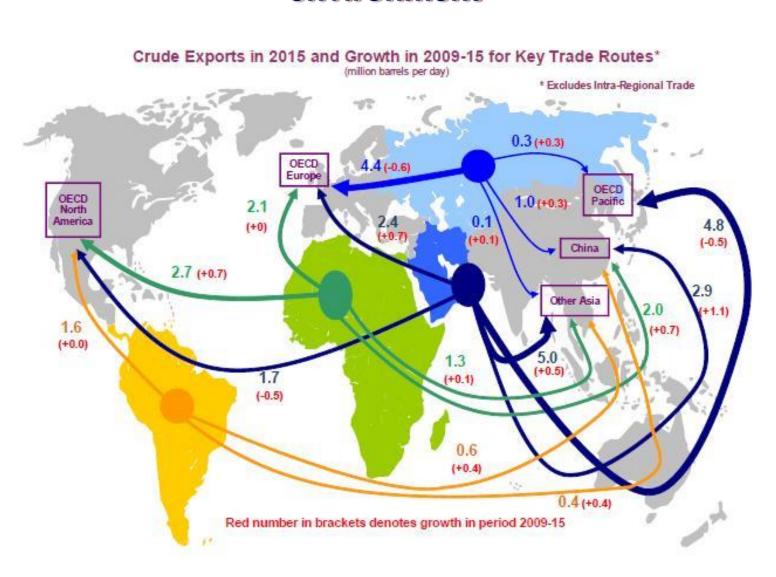


Crude oil exports from Russia



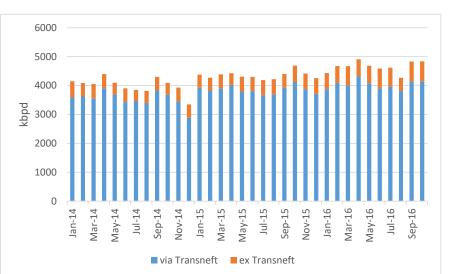
- Correlation between GDP and oil demand is strong
- Decline in GDP in 2015 suggests that consumption of domestic oil products will fall, freeing up more oil for export
- The evidence of the firs few months of 2015 suggests that this trend is occurring
- Another notable trend is the increase in exports to Asia, via pipeline to China and via sea from Kozmino Bay on the Pacific coast

# Oil trade is becoming more competitive in a low price environment

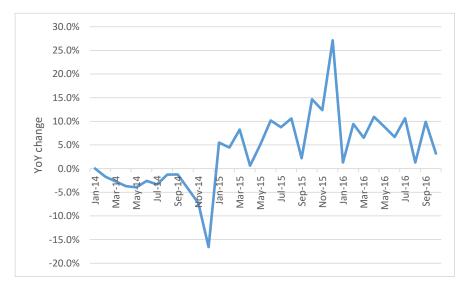


## Crude exports continue to rise faster than output

Monthly crude exports 2013-2016

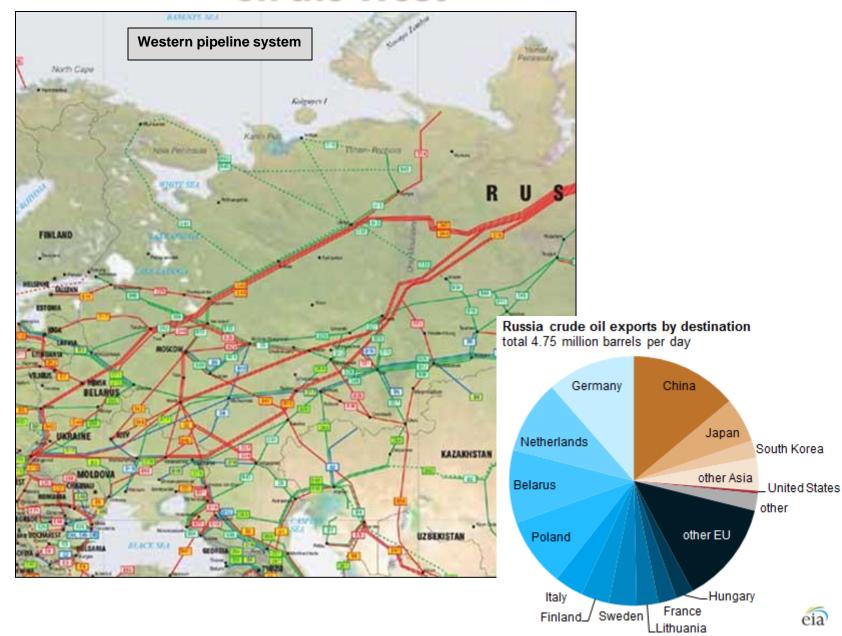


Year on year change by month 2014-16



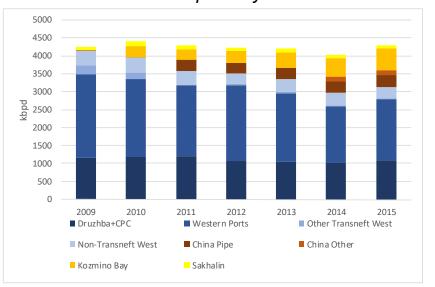
- Russian oil companies have been desperate to maximise dollar revenues and have therefore sought to increase crude oil exports
- This has been a consistent theme since Jan 2015, since when exports have not decreased YoY
- Domestic oil demand had also been in decline, due to the economic downturn, reducing the incentive to refine crude oil
- In addition changes in downstream taxation have also increased crude available for export
- Tax adjustments have meant that it has been less profitable to produce fuel oil, leading oil
  producers to reduce refinery throughput (as they could not afford upgrade plans)

# Russia's oil export system – still focussed on the West

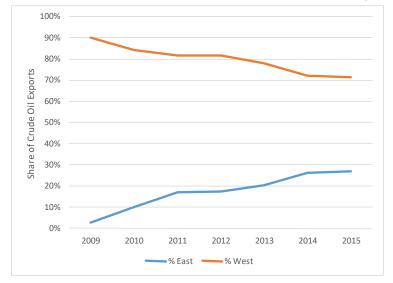


## **Exports are shifting towards the East**





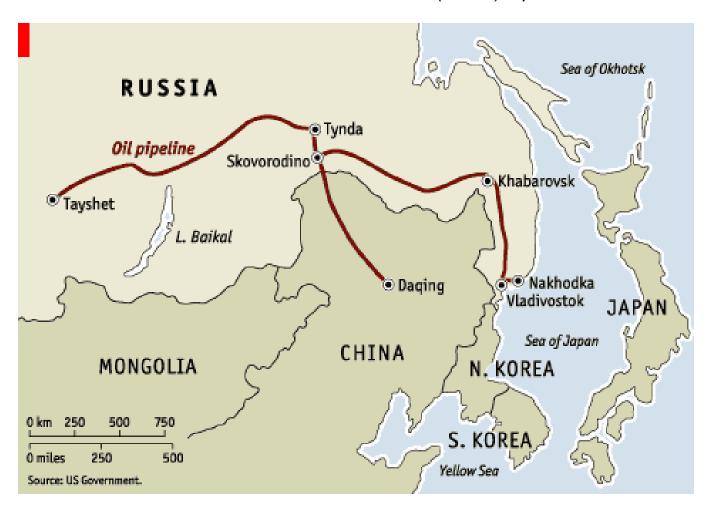
### Share of eastern oil sales increasing



- Another trend has been towards eastern oil exports, which now account for more than 25% of the total
- The expansion of the ESPO and Rosneft's commitments to prepayment sales to CNPC have driven this shift
- Further expansion of ESPO has been delayed slightly, but Rosneft is exporting oil via Kazakhstan to increase sales to China

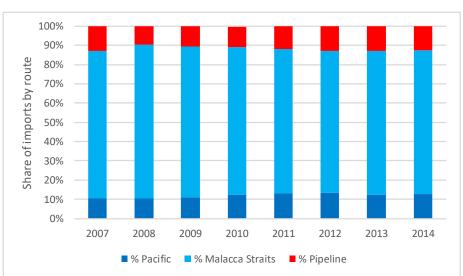
### Russia's new oil link to Asia

The East Siberia – Pacific Ocean (ESPO) Pipeline

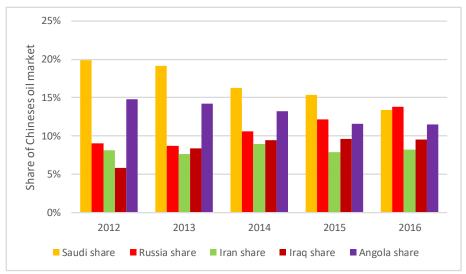


### Russia's increasing role in the Chinese market

### China concerned about direction of imports



### Russia became largest supplier in 2016



- China has been keen to diversify away from Middle Eastern crude
- It has also been concerned about receiving too much oil by sea via the Malacca Straits
- Russian oil provides a pipeline and seaborne option, plus high quality crude
- Russia has become China's largest supplier of crude oil in 2016

### **Conclusions**

- Pre-2014 Russian oil production looked set to reach 11.5mmbpd by 2020s
- Impact of lower oil price and sanctions was initially significant
- Rouble devaluation has helped to offset impact for up to 3 years
- Russian oil companies have been forced to re-prioritise, and tax changes have helped to catalyse focus on brownfields
- Rosneft has the biggest financing problems, but is finding ways to generate short-term cash
- Its main problem is in downstream, where tax changes have hit simple refineries and created need for investment
- Shut down of some refineries and lower demand will free up crude oil for export
- Outlook for production beyond 2017 is more difficult if oil price stays low and benefits of devaluation unwind, but upside still exists
- Crude exports likely to remain flat at worst, and to be focussed more on Asian markets