



Energy Security in Central & Southern Europe: TANAP vs. South Stream

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www.eegas.com

US Dept of State/Geographer



TANAP and South Stream Do Not Compete



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- Despite being targeted at the same markets, South Stream and TANAP are not competing projects.
- South Stream is designed to divert the “old” contracted flows of Russian gas from existing routes through Ukraine to the new route across the Black Sea.
- Unlike South Stream, TANAP is designed to deliver additional volumes of gas from new sources (higher level of security of supply).

From Europe, Gazprom's Plan May Look Like a Scary Pincer Movement



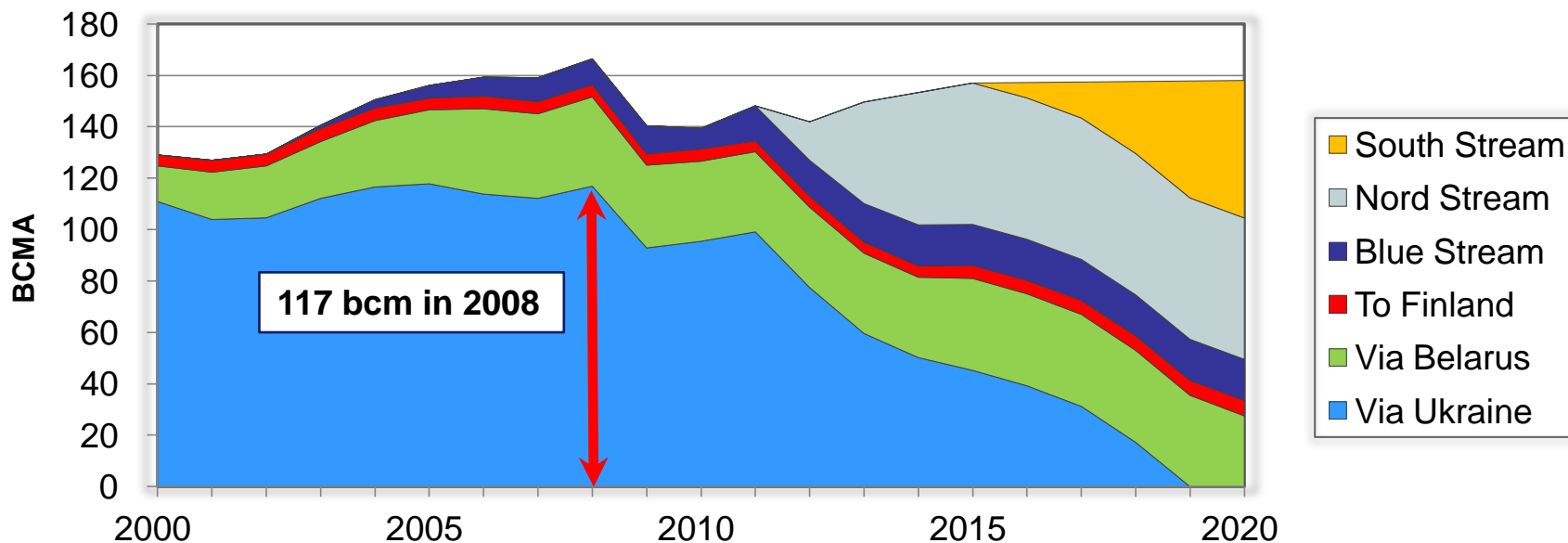
TAG to operate in reverse mode

Gazprom abandons W.Siberia-Ukraine lines

Contracted flows to be diverted from Ukraine

TANAP will deliver new gas

New Contracts for South Stream Unlikely



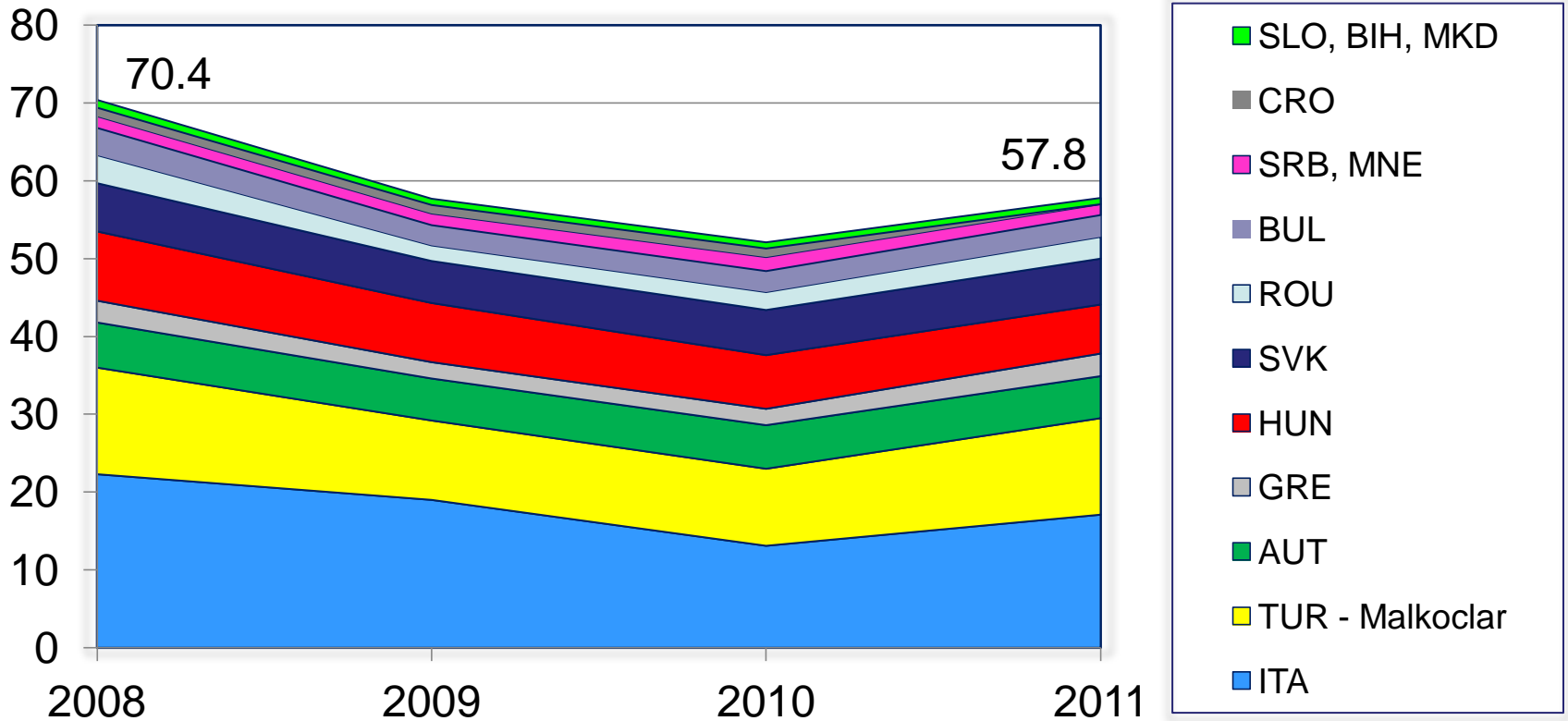
- According to Gazprom, South Stream and Nord Stream “will reduce Ukraine’s importance for transit to zero”.
 - Combined capacity of the two lines is equal to the Ukrainian transit of 2008.
- Gazprom reports the minimum guaranteed contracted volume for the period from 2020 to 2025 **at 158 bcma**.
- After the completion of South Stream, the combined capacity of European export pipelines of Gazprom is to reach **318 bcma**.

Market Area of South Stream

Targeted Markets Are Getting Highly Competitive



Exports to Target Markets of South Stream, bcm



- **Current Russian exports to the market area of South Stream are slightly below the project's design capacity of 63 bcma.**
 - Note that Austria and Slovakia can receive Russian gas via Nord Stream.
- **Russian gas is less competitive than gas from Azerbaijan and LNG.**

Italy: Capacity to Grow Faster Than Imports

	bcma
Existing pipelines – Transmed, Green Stream, TAG, Transigas	101.8
Existing LNG terminals – La Spezia, Porto Levante	11.5
Existing import capacity:	113.3
2011 imports:	69.6
New pipelines – TAP, TGI, GALSI, South Stream	73.5
New LNG terminals under construction – Livorno / Toscana, Brindisi, La Spezia	16.2
New LNG terminal projected	73.0
Total 2030 capacity:	>175
Italian 2030 import projections (1):	70-94

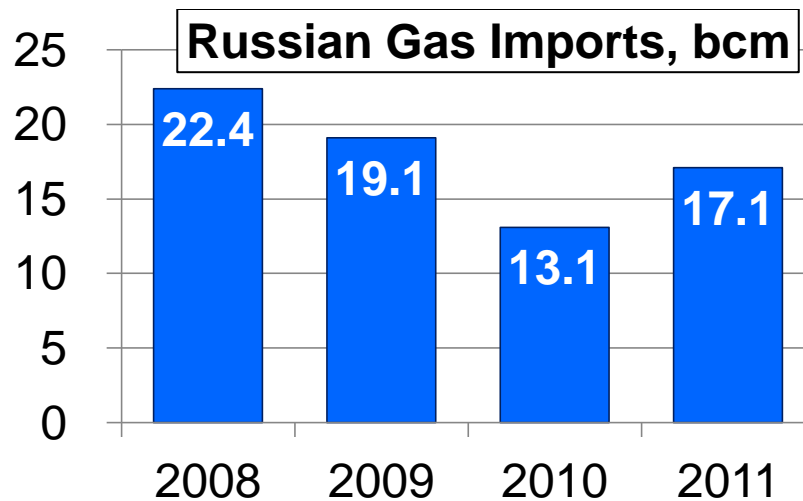


(1) EU Energy Trends to 2030.

Can Italy Buy More Russian Gas?



Ankara, August 6, 2009



- **Current import capacity is 40% above the 2011 import volume.**
 - Higher capacity-to-import ratio means higher competition.
- Vladimir Putin ordered Gazprom to keep the price up despite losing market share.
- Italy is unlikely to buy more Russian gas on the old terms.

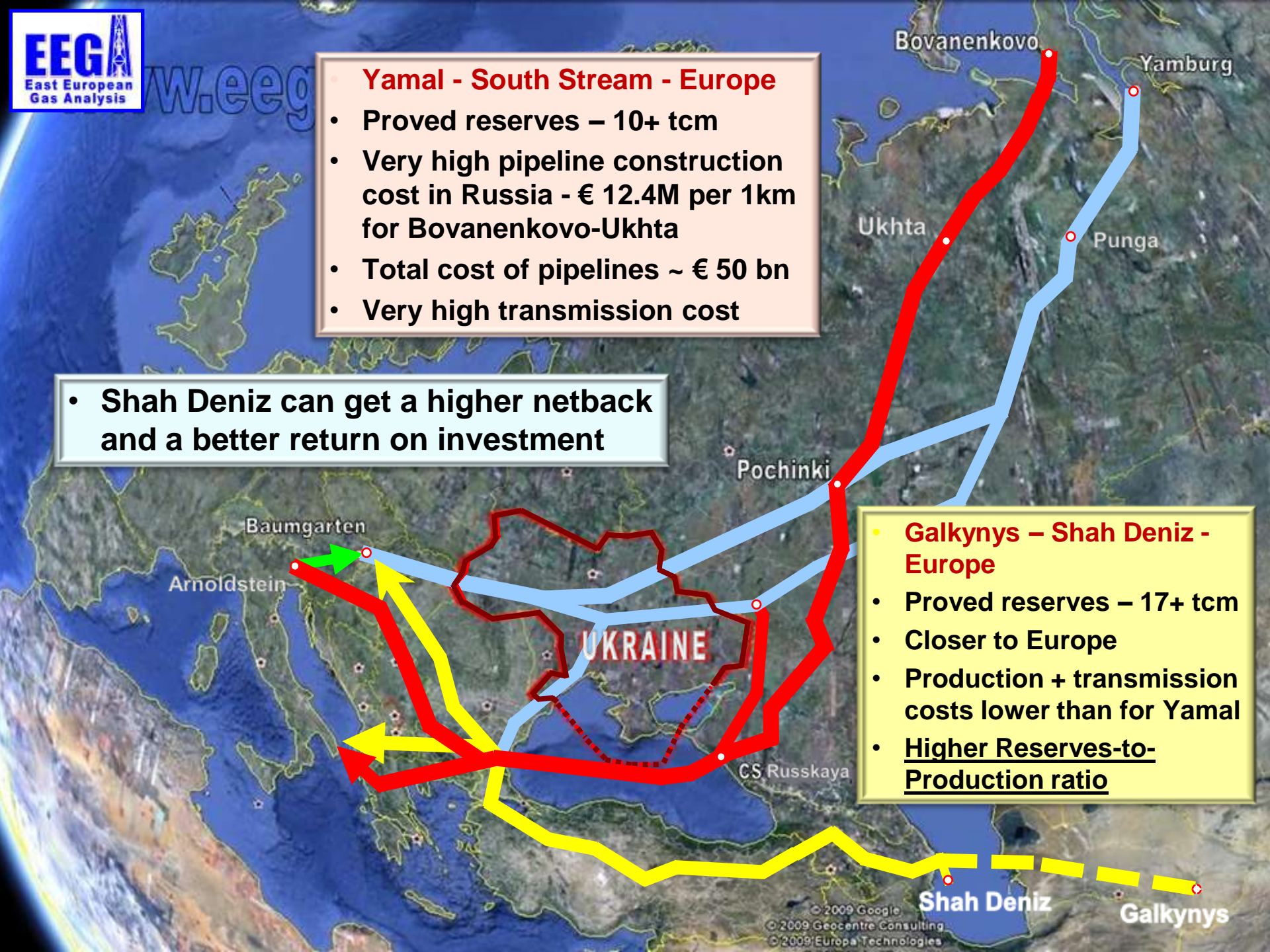
Yamal - South Stream - Europe

- Proved reserves – 10+ tcm
- Very high pipeline construction cost in Russia - € 12.4M per 1km for Bovanenkovo-Ukhta
- Total cost of pipelines ~ € 50 bn
- Very high transmission cost

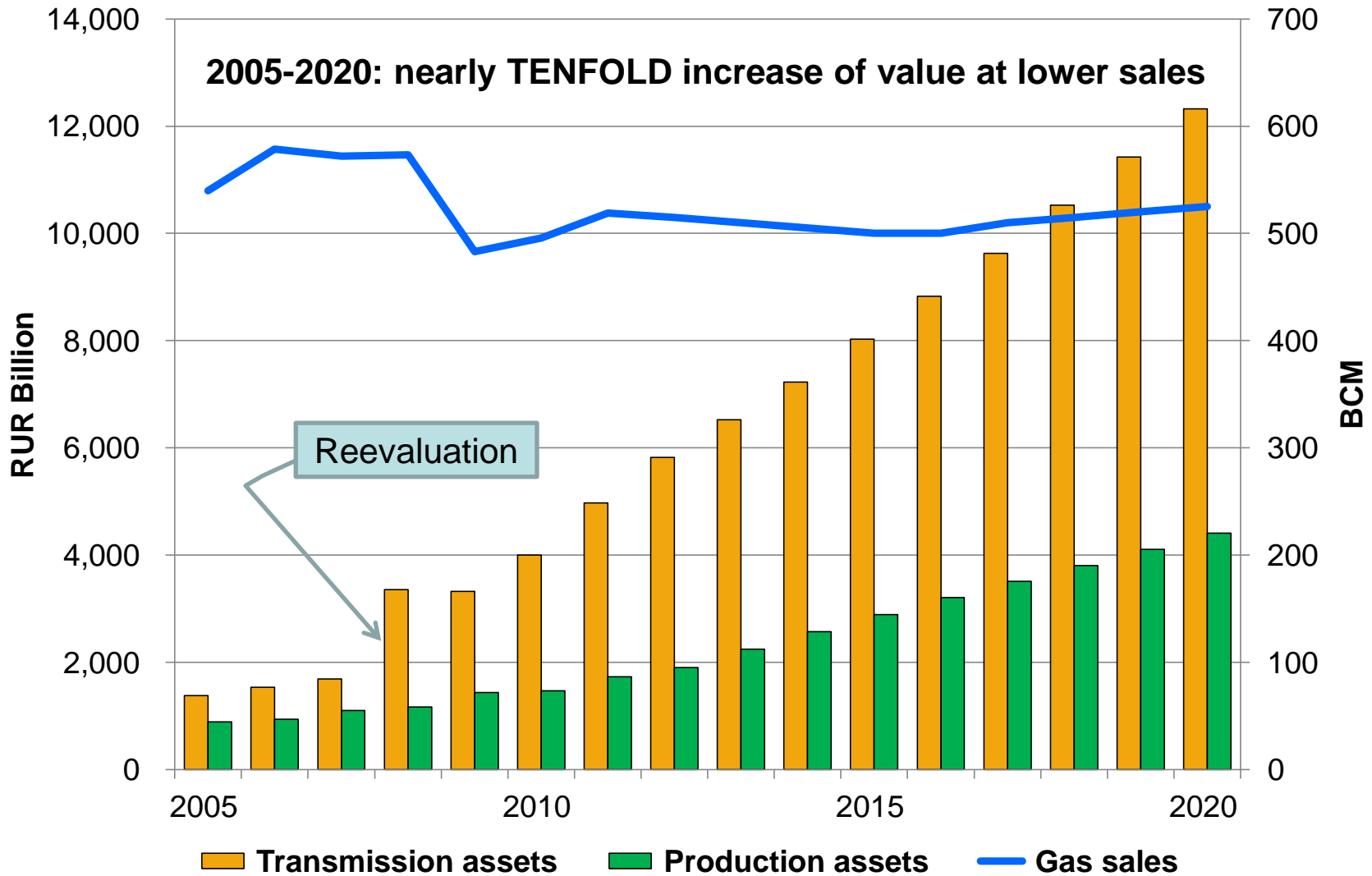
• Shah Deniz can get a higher netback and a better return on investment

Galkynys – Shah Deniz - Europe

- Proved reserves – 17+ tcm
- Closer to Europe
- Production + transmission costs lower than for Yamal
- Higher Reserves-to-Production ratio



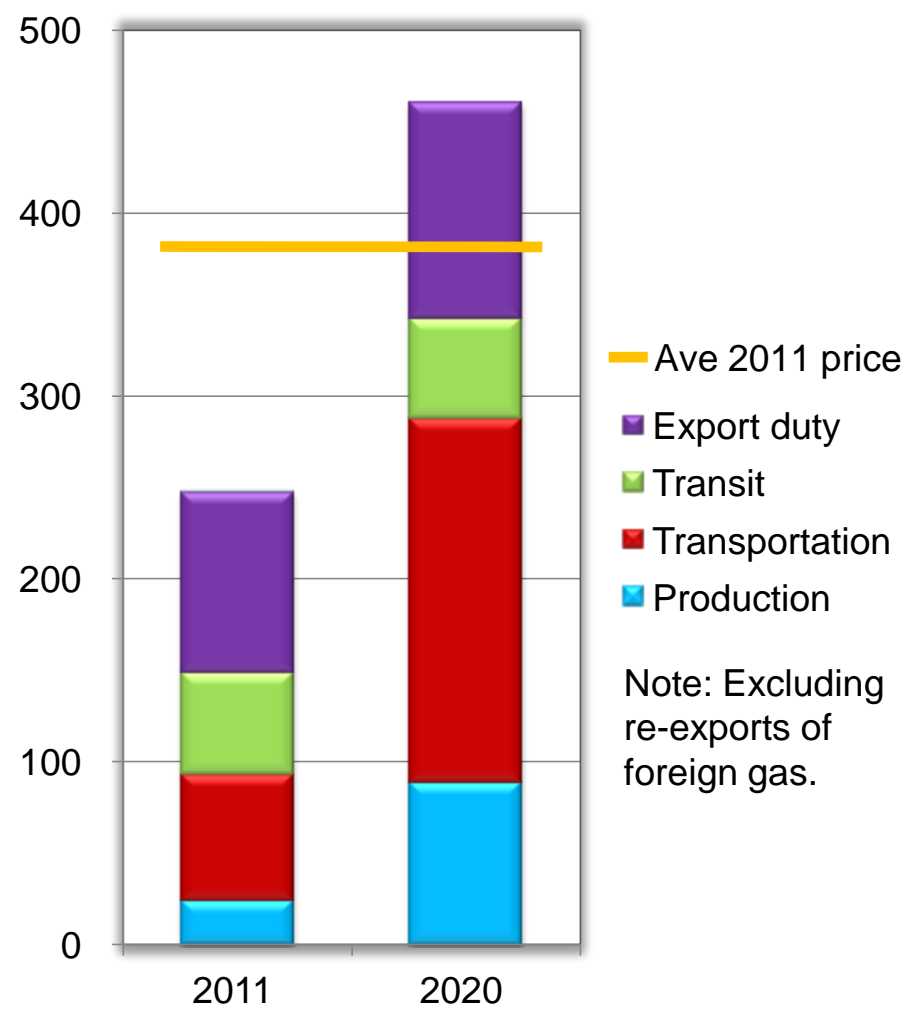
Growth of Pipeline Assets of Gazprom



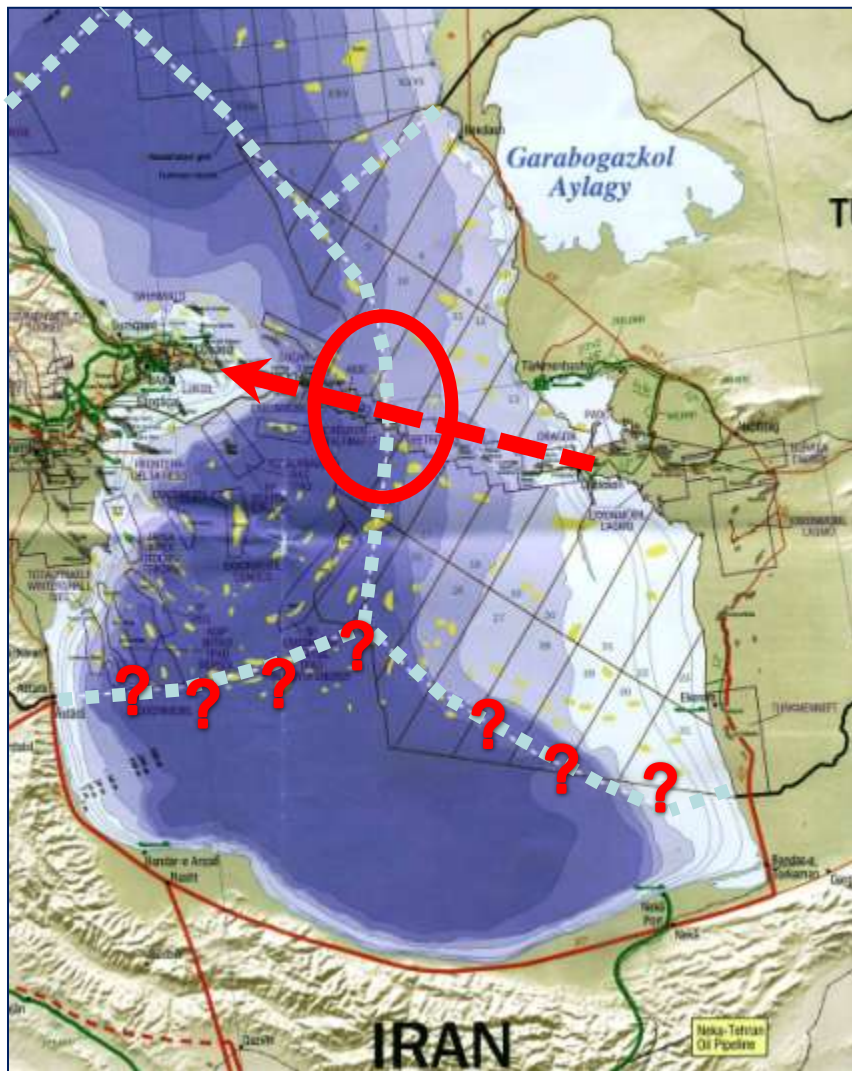
Gazprom to Lose Its Competitive Capacity

- Export of gas produced in Russia is the most profitable operation of Gazprom now.
- Current profit margin allows a substantial price reduction.
- A sharp growth of transportation costs is expected.
 - Gazprom builds an extremely expensive new pipeline system to evacuate the Yamal gas.
 - The new expensive lines will be fully loaded while the existing ones will have growing spare capacity.
- In 2020, Gazprom needs a high price of above \$14/MMBtu.
- **Shah Deniz and Galkynys can beat Russian gas in Europe.**

Cost of Exports, \$/mcm

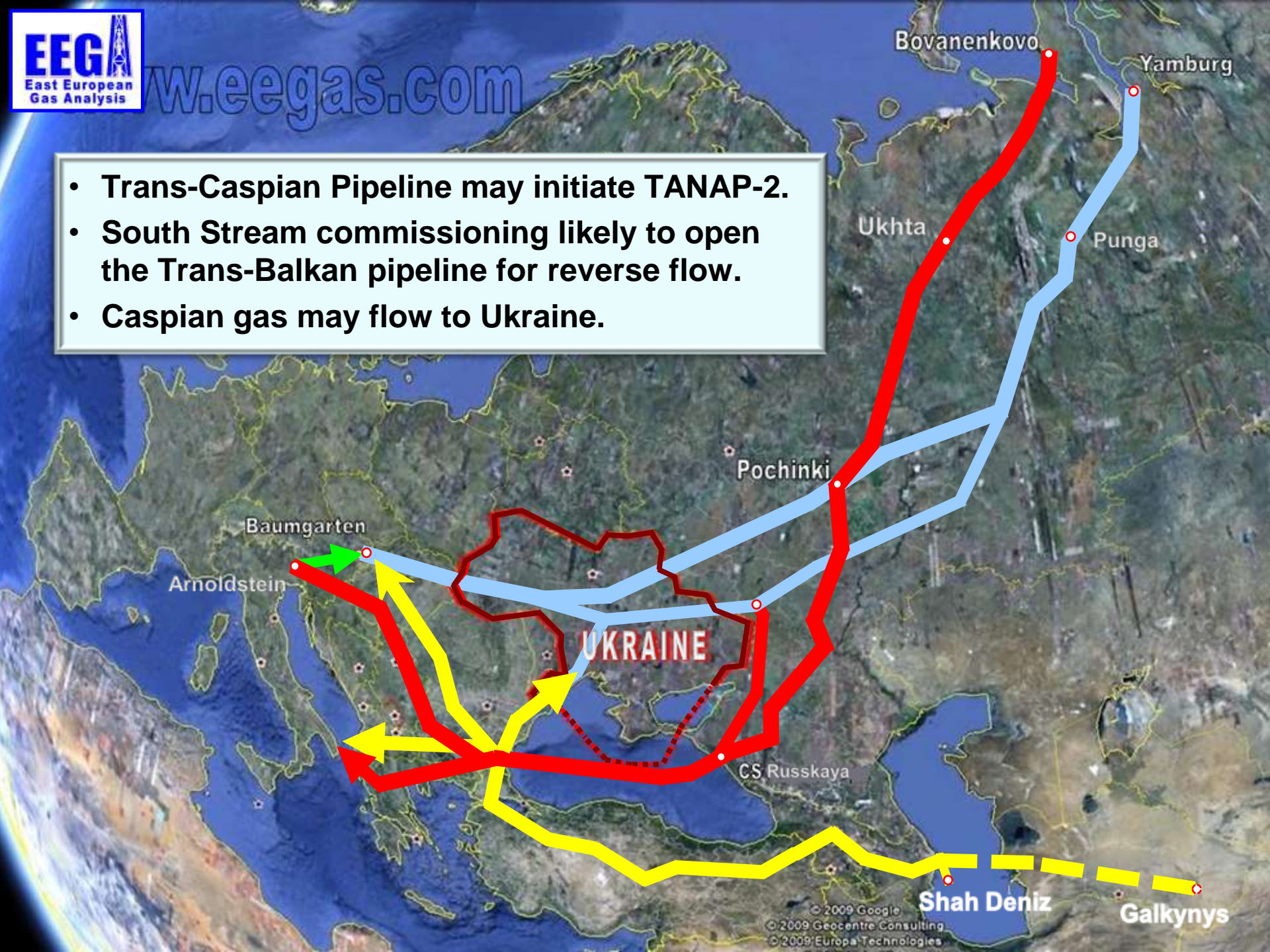


Gazprom: Unsettled Border Is Not a Problem



- “Legal uncertainties with regard to the unsettled sea border south of Bornholm” were not a problem for the Nord Stream pipeline.
- There is no third party disputing the border along the route of the Trans-Caspian Gas Pipeline (TCGP).
- Assuming a standard EIA procedure, TCGP is a bilateral matter of Azerbaijan and Turkmenistan.
- There are offshore oil pipelines operating in the Caspian Sea for over 60 years.

- **Trans-Caspian Pipeline may initiate TANAP-2.**
- **South Stream commissioning likely to open the Trans-Balkan pipeline for reverse flow.**
- **Caspian gas may flow to Ukraine.**



Facilitating the Trans-Caspian Pipeline Talks



[Vladivostok, September 11, 2012](#)



- A “gas-light” chandelier may create a more friendly atmosphere

THANK YOU

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