

Energy Cooperation between Russia and Japan: pipeline and LNG

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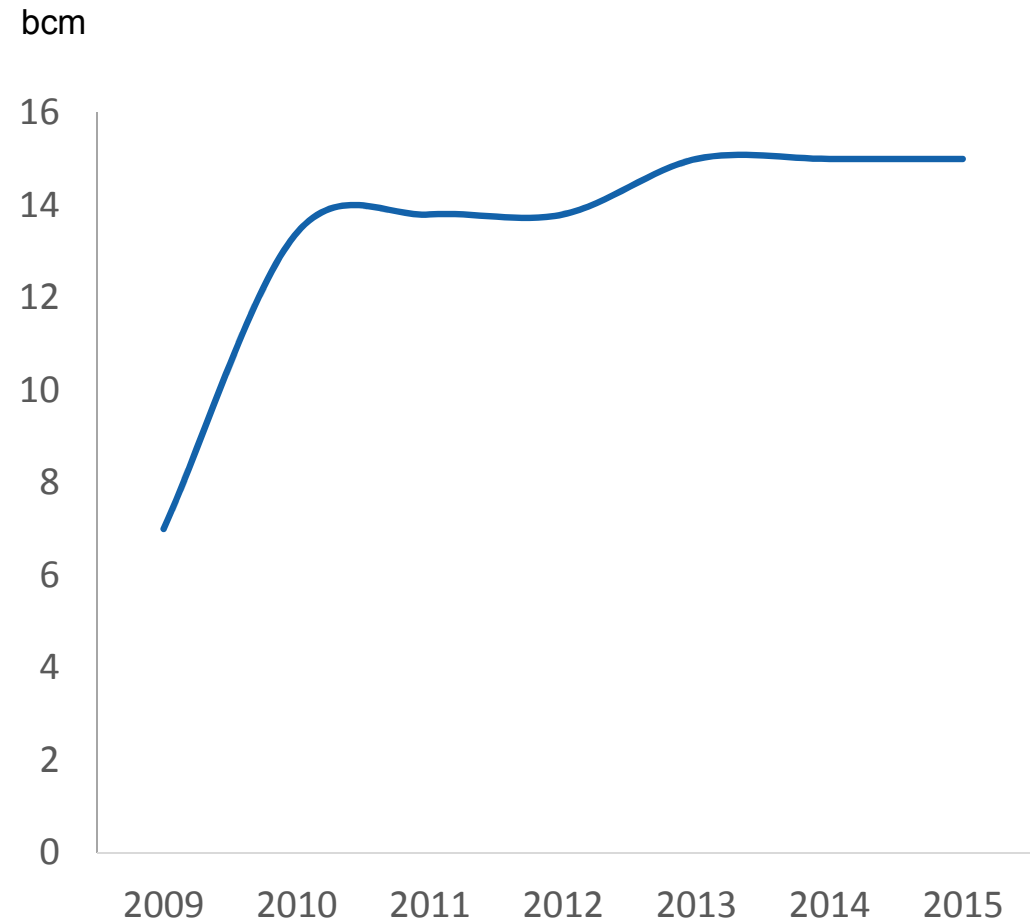


Russia and Japan are natural partners in the gas business

Russia and Japan rank #1 as gas exporter and importer

Net exporters	bcm	Net importers	bcm
Russian Federation	203	Japan	123
Qatar	121	Germany	76
Norway	103	Italy	62
Canada	54	Korea	53
Algeria	45	People's Rep. of China	49
Turkmenistan	45	Turkey	45
Netherlands	40	France	43
Indonesia	35	United Kingdom	39
Australia	26	United States	37
Nigeria	22	Spain	30
Others	156	Others	279
Total	850	Total	836

Buildup of the Russian LNG supplies to Japan



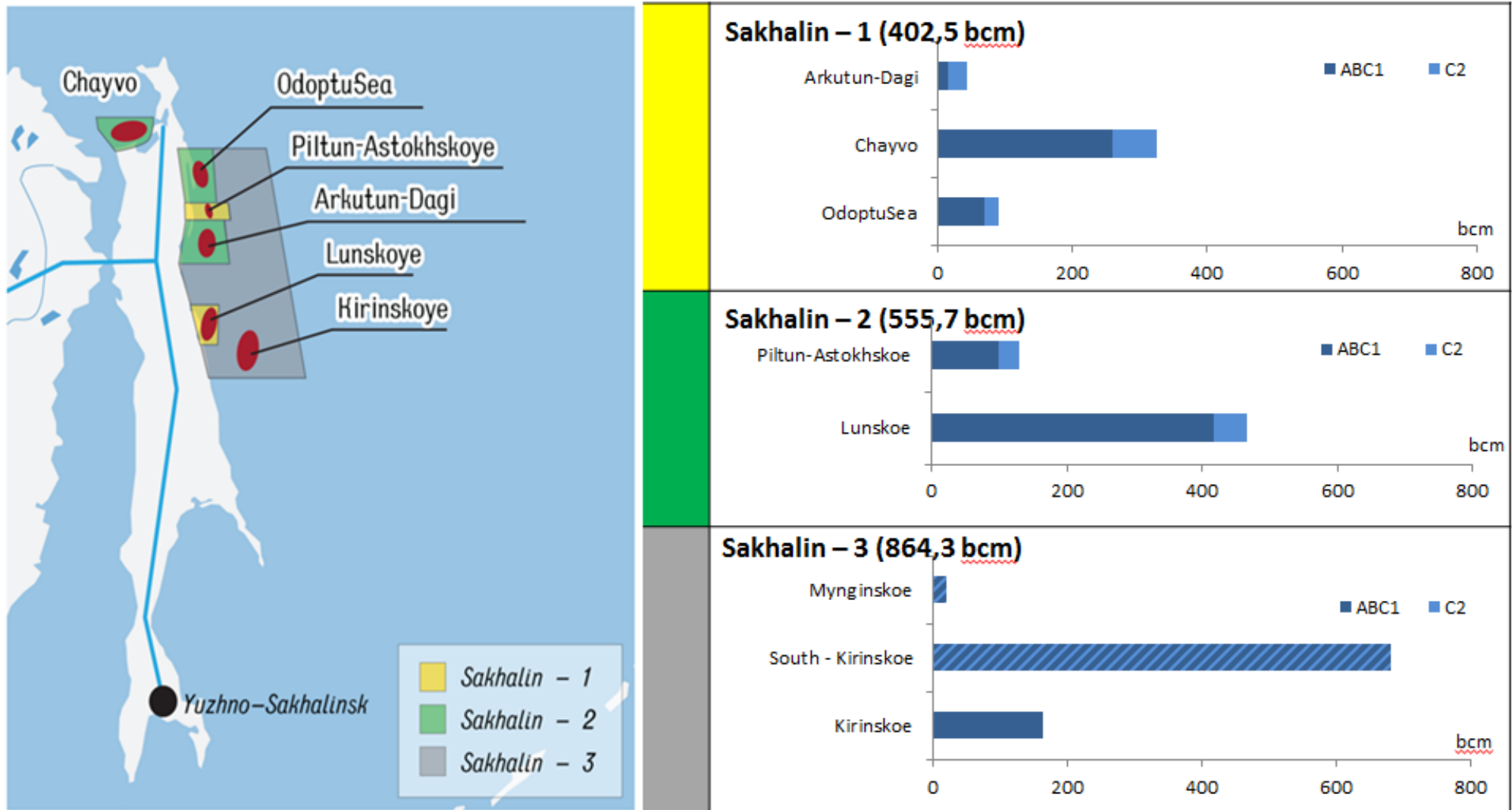
Sources: Key World Energy Statistics 2014, IEA, Rosstat

Eastern Gas Program still has many options, Chinese vector, sanctions and investment constraints pose new limitations



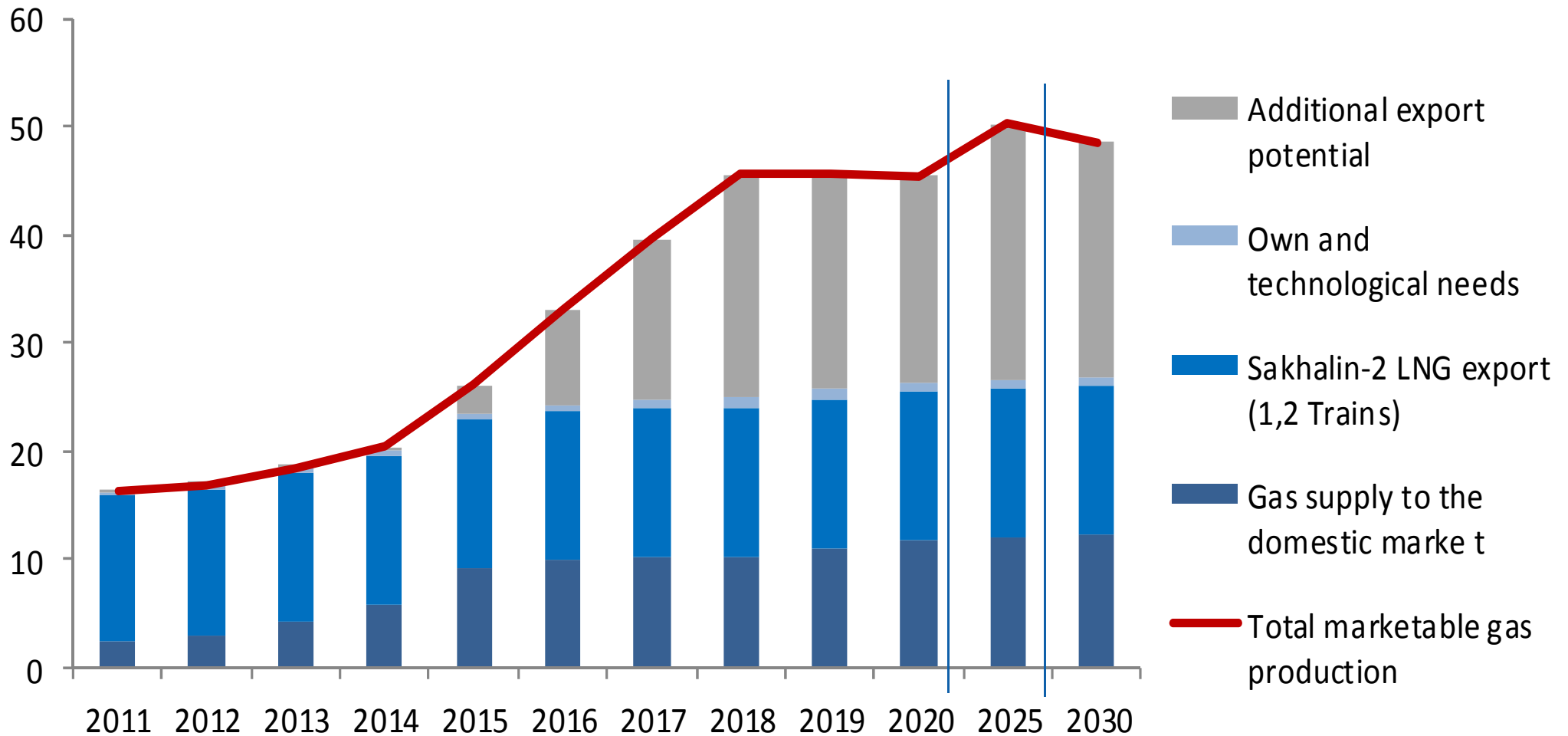
Source: Gazprom

Sakhalin island resource base is limited and insufficient for all the projects under discussion



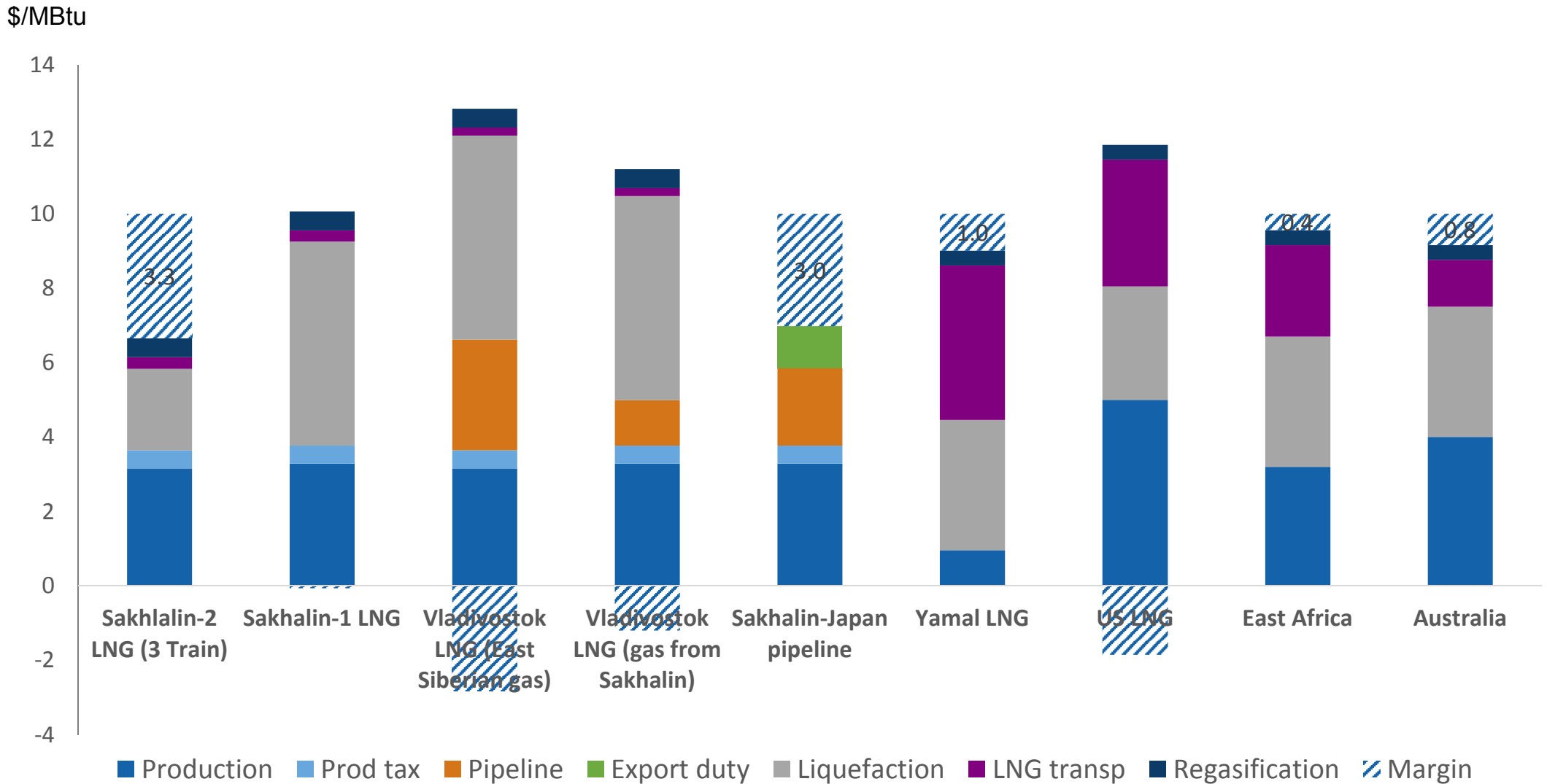
Sakhalin gas balance: total export potential (except Sakhalin-2) is below 22 bcm, with several projects competing for it

Marketable gas production in Sakhalin-1,2,3



Source: ERI RAS

Russian LNG and especially pipeline gas is more competitive at 10\$/Mbtu, some projects – even at 8\$/Mbtu



Source: ERI RAS

Contacts

Energy Research Institute of the Russian Academy of Sciences

“Global and Russian Energy Outlook up to 2040”

http://www.eriras.ru/files/2014/forecast_2040_en.pdf

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