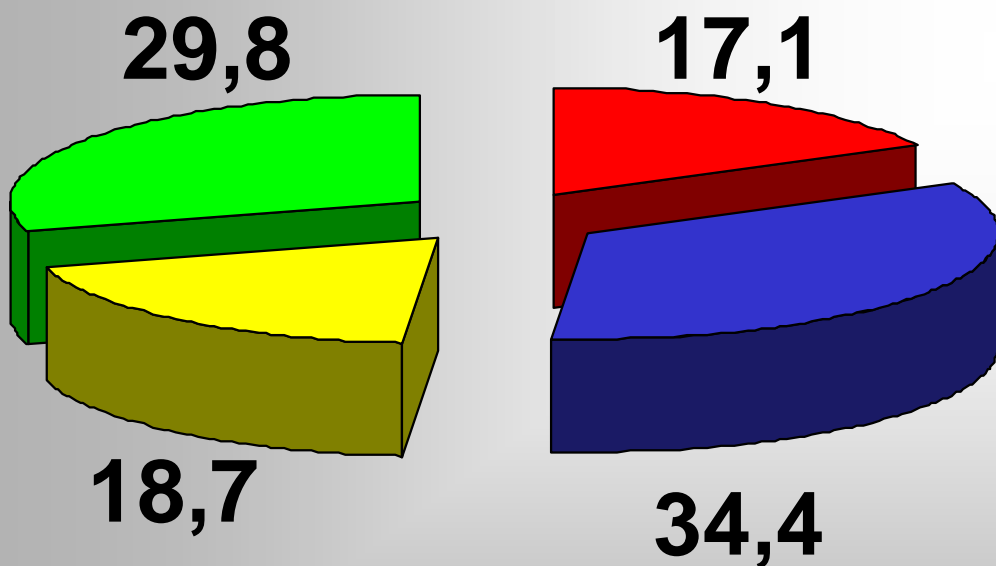




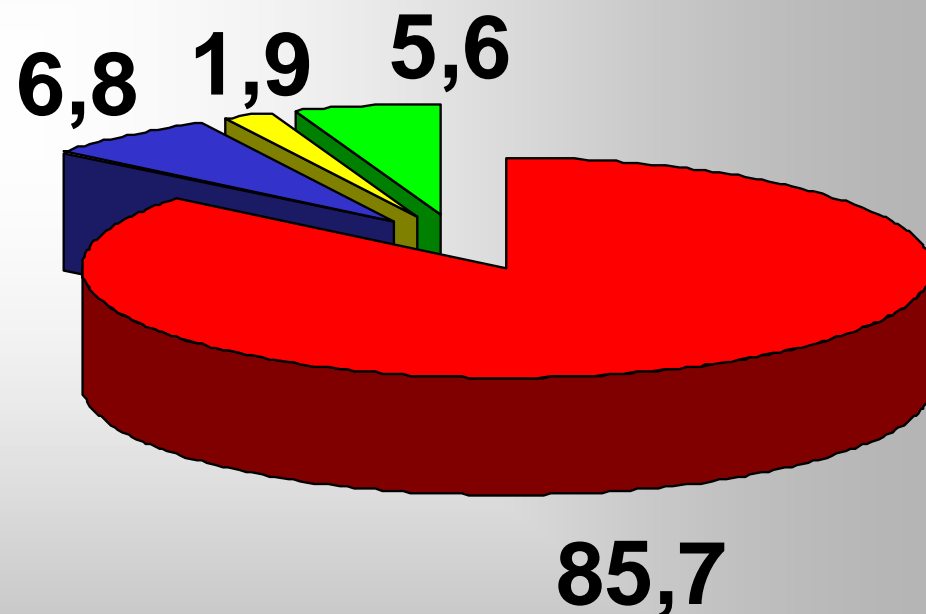
Russia and Cooperation with the APR States in the Field of Energy

Share of Regional Trade in Russia's and RFE Foreign Trade (% of the overall trade balance)

Russia



Russian Far East

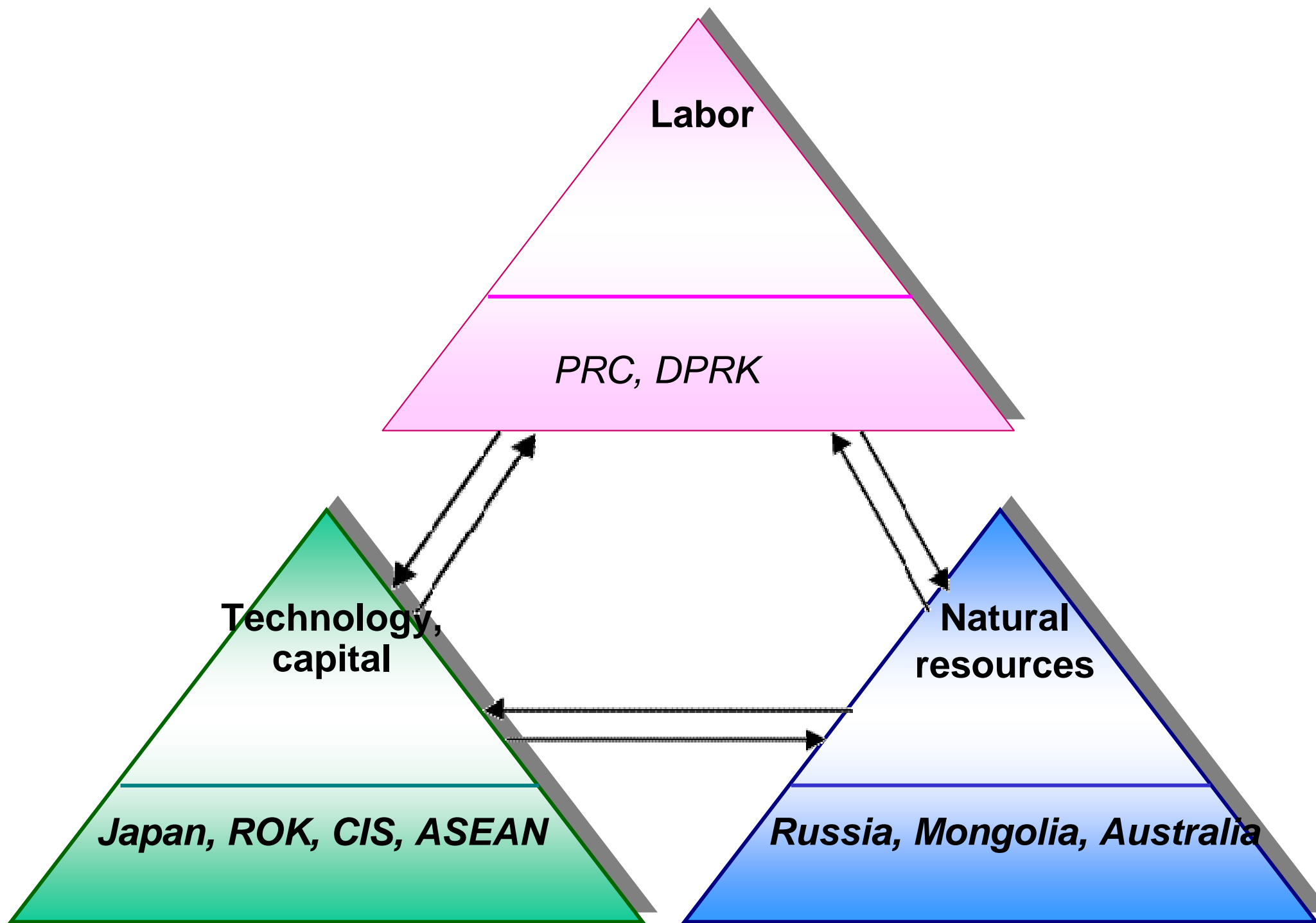


 APEC

 European Union

 CIS

 Other states



Labor

PRC, DPRK

**Technology,
capital**

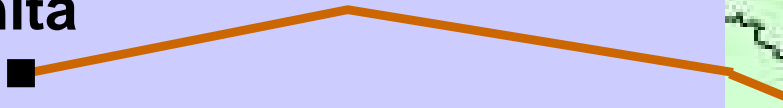
Japan, ROK, CIS, ASEAN

**Natural
resources**

Russia, Mongolia, Australia

Motorways

Chita



Nikolaevsk-na-Amure



Komsomolsk-na-Amure



Lidoga



Vanino



Khabarovsk



Nakhodka



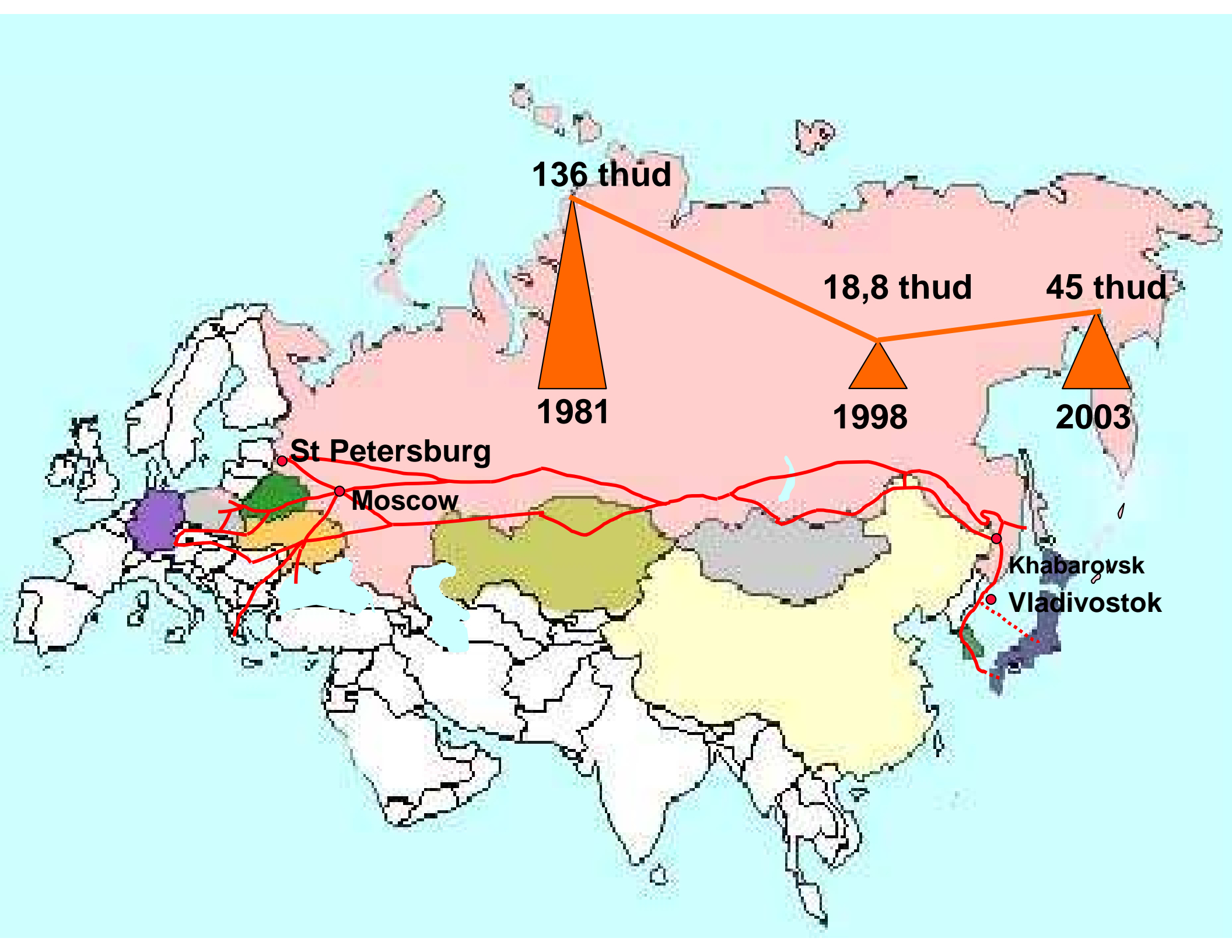
Vladivostok



DPRK

Japan





136 thud

1981

18,8 thud

1998

45 thud

2003

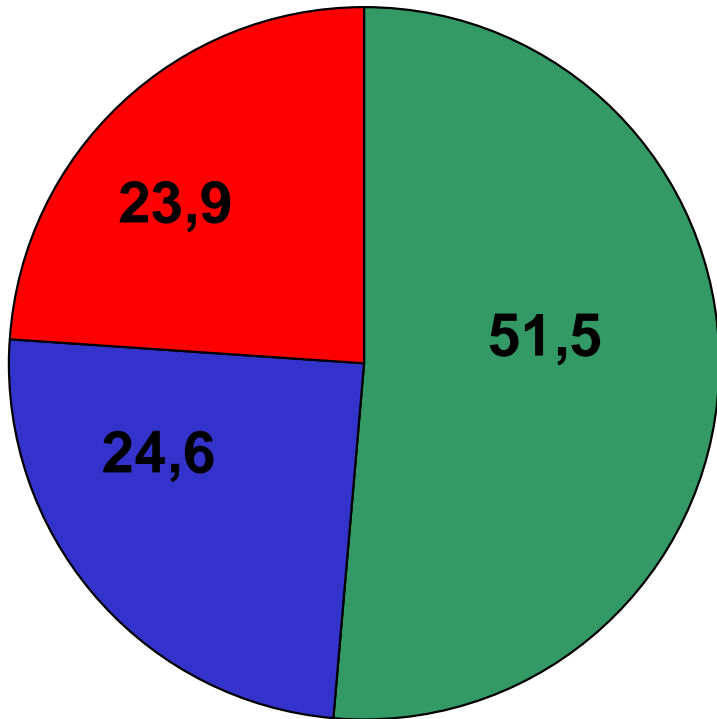
St Petersburg

Moscow

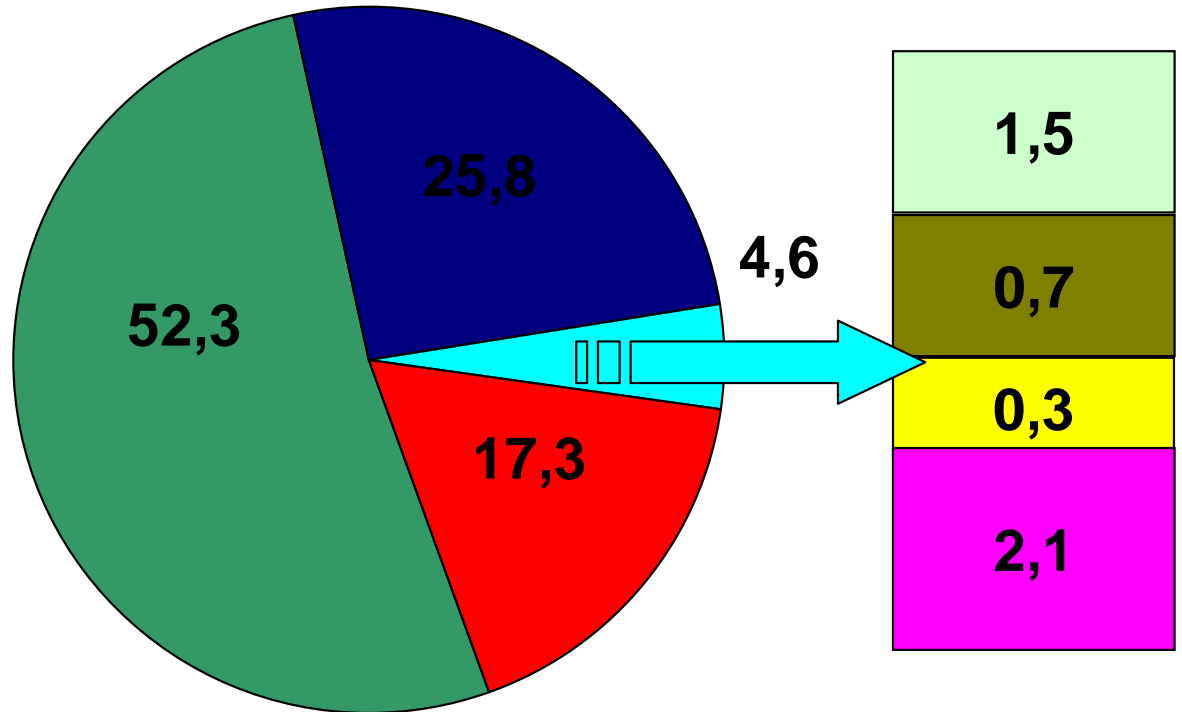
Khabarovsk

Vladivostok

Gas



Oil




- Eastern Europe
- Western Europe
- CIS
- Asia

- China
- South Korea
- Japan
- Others


Favorable Conditions for Growth in Russian Hydrocarbon Exports




Growth in Asian oil consumption levels to 35% between 2000 and 2010



Stabilization or decrease in oil production in Asia



Decrease of inter-regional oil supplies from 42 to 27-30%



Greater role of the Middle East, from 50 to 65%



Stronger monopoly role of Middle East states and more stress on energy security for the importing states

Favorable Conditions for Growth Russian Hydrocarbon Exports to NEA

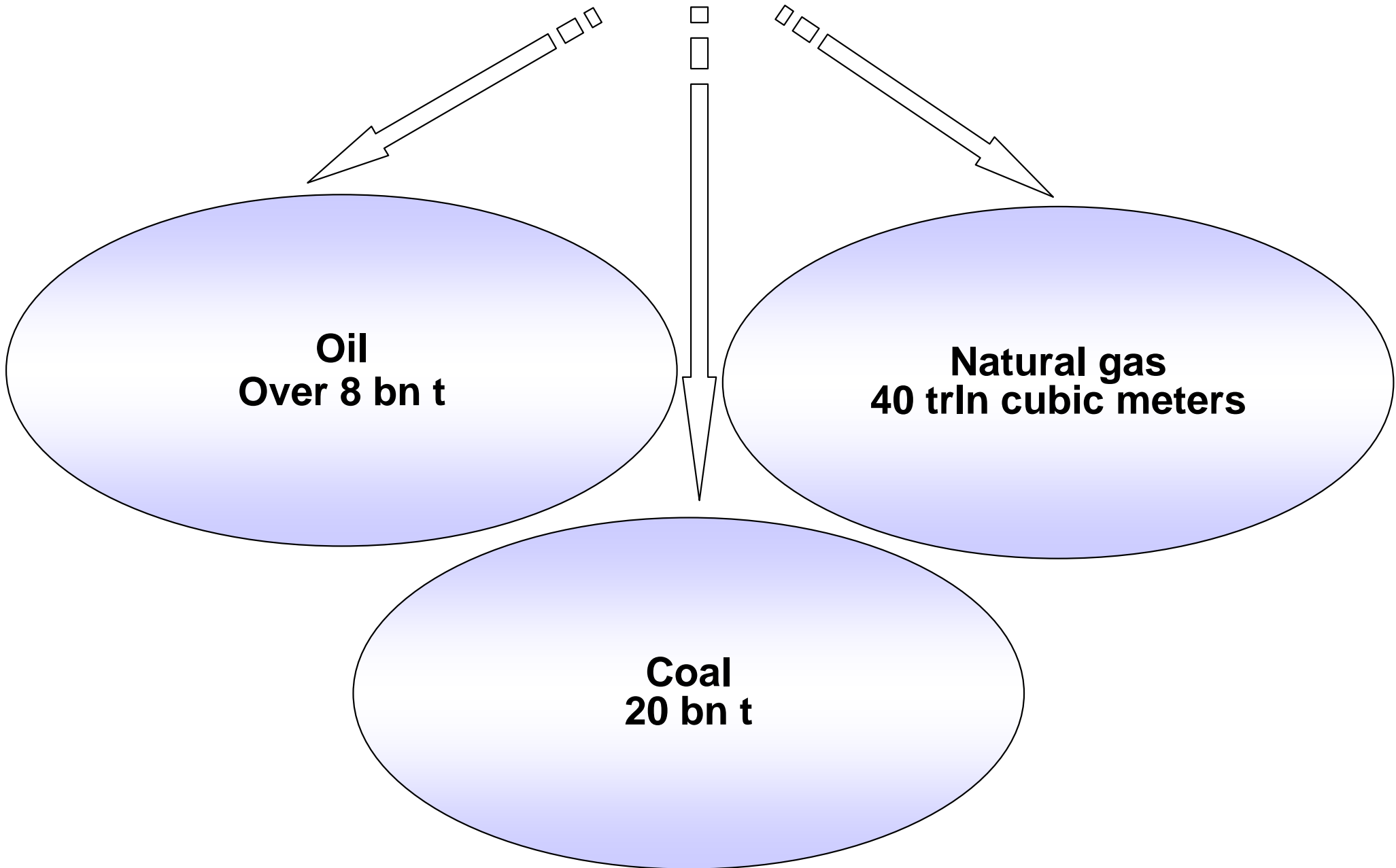
**Greater oil consumption rates in Asia
Pacific –growing monopoly role
of the Middle East states –
energy security issues for importing states**

NEA states becoming net importers

Need to diversify oil and gas import markets

**Common interests of Russia and NEA –
the infrastructure for cooperation**

Russian Far East Energy Resources



Sakhalin Oil and Gas Complex

**Oil
recovery**

annually

45-50

mln t

**Gas
production**

annually

45

45 bn t

RFE Prospective Oil and Gas Areas (outside Sakhalin)

Oil

4 bln MT

Natural Gas

19 trln CUM

Месторождения
Ванкорского блока
290
14

Месторождения
Пуровского блока
748
10

Среднеботубинское 62
3,3

Юрубчено-Тохомское

Чаяндинское 33
Талаканское 1,2

Верхнечонское 124
Дуисьминское 120
6,8

Яроктинское 25
120
6,8
1,2

Oil reserves at 1,153 mn t
Through capacity at 80 mn t
Length 4,000 km
Construction time terms 3.5 years

20/32
Нижняя Пойма

Taishet

Сковородино 8,8/8,8
Tynda

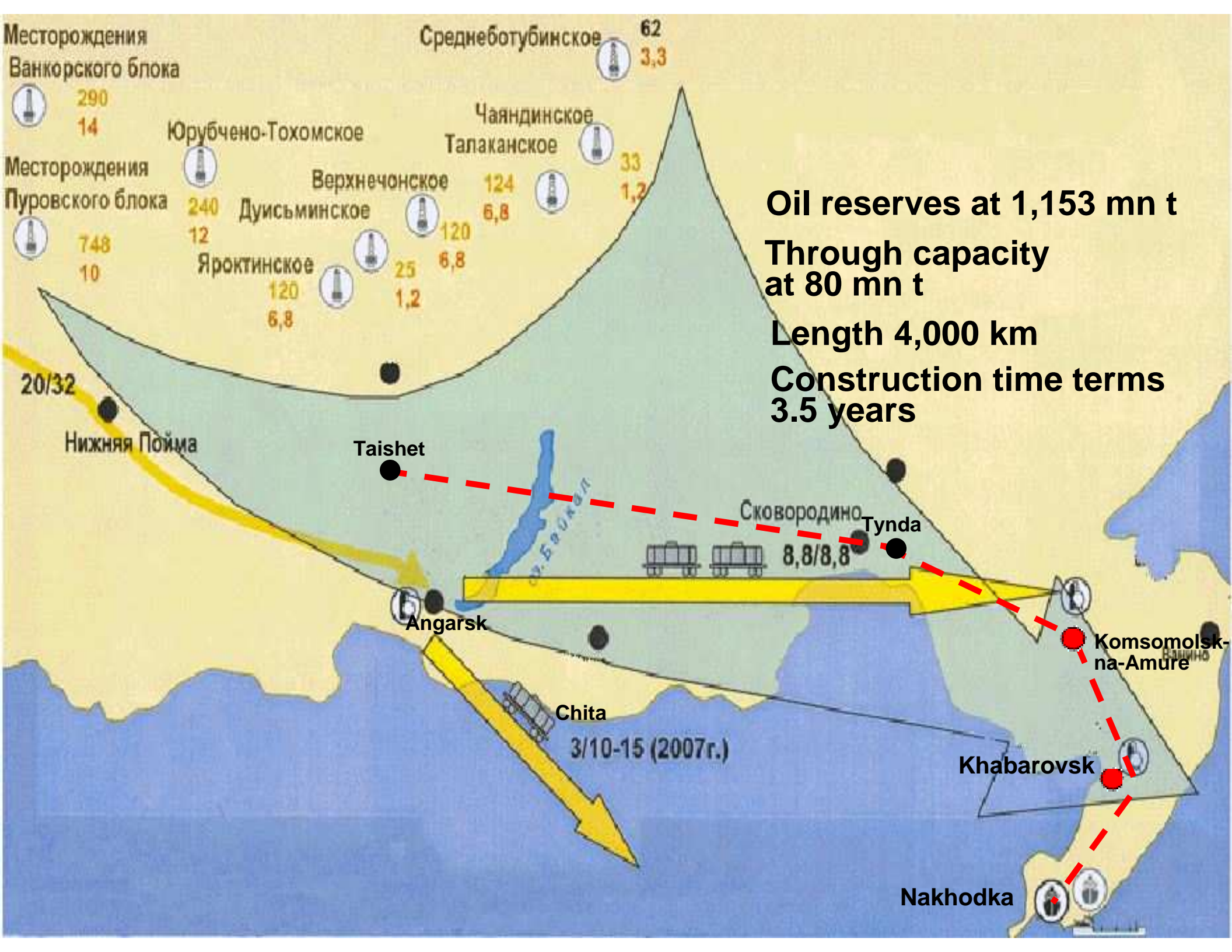
Angarsk

Komsomolsk-na-Amure

Chita 3/10-15 (2007г.)

Khabarovsk




Nakhodka





Sakhalin – Komsomolsk-na-Amure – Khabarovsk – Vladivostok Gas Pipeline

Legend

-  Operating gas pipeline
-  Gas pipeline under construction
-  Designed gas pipeline



International Electric Power Links in Eastern Russia (bln.kwh)

R U S S I A



Incentives for Cooperation

Realistic projects

- **Cross-border trade**
- **Energy bridge between Vostok United Power Systems and the Korean peninsula (in 2004 a feasibility study will be conducted for TLs)**
- **Energy bridge between Sakhalin and Japan (feasibility study is being prepared by Sumitomo of Japan, the project design proposals were drafted by United Energy Systems of Russia in 2000)**

Diversified electric power network along all the RFE borders

- **Forming the inter-system transit of TLs for 500 kV**



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