

Bering Strait Project



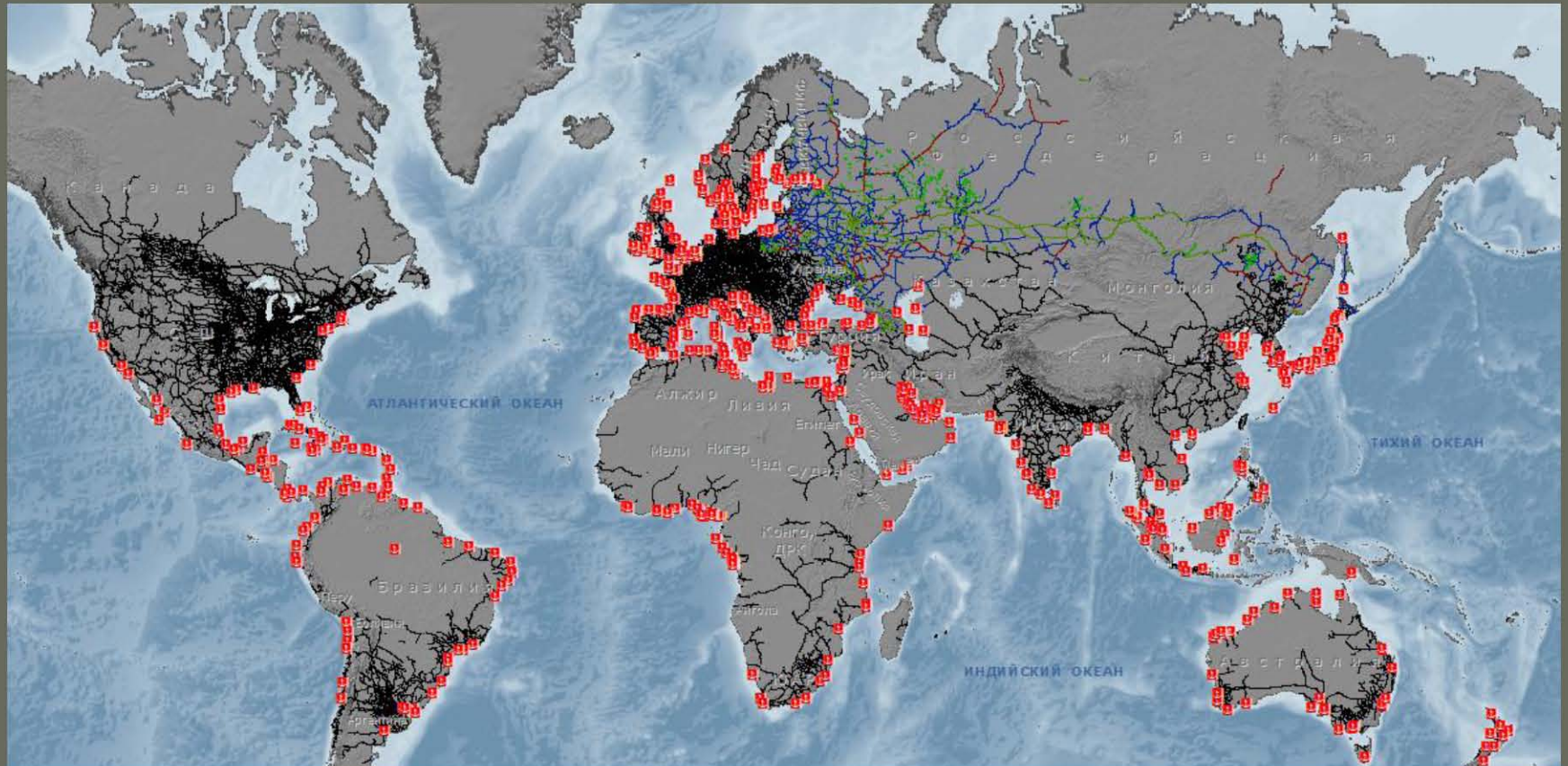
Multifunctional transportation Land Bridge «Eurasia-America»

Victor Razbegin
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Russia State Consul for
Productive Forces Investigations
vice president

“Interhemispheric Bering Strait
Tunnel and Railroad Group”

World railroads and sea ports



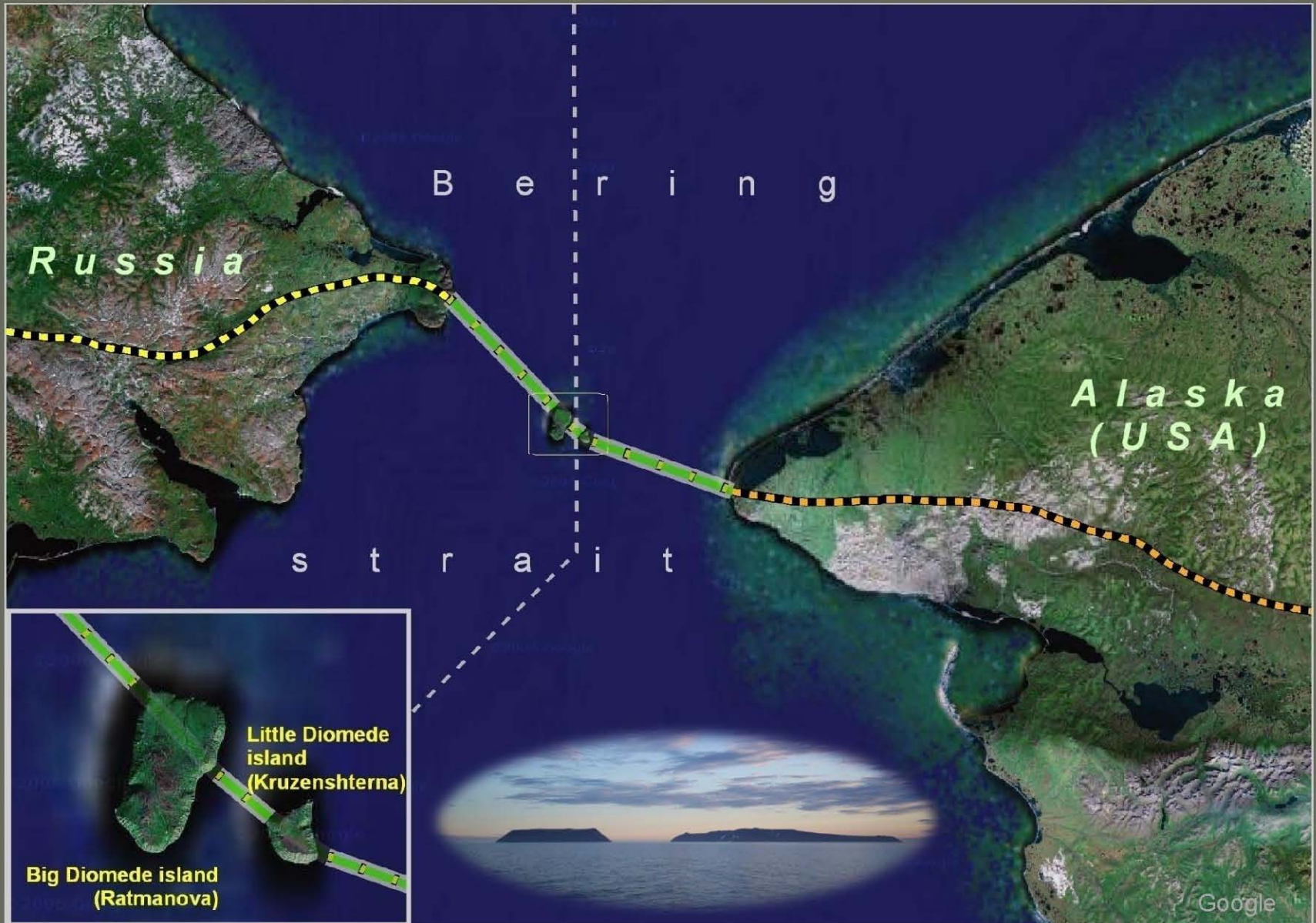
World transportation system



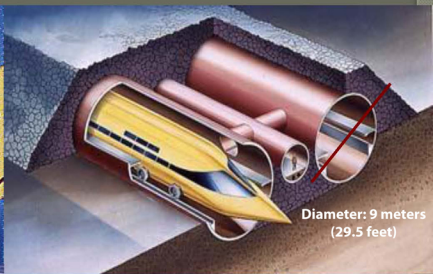
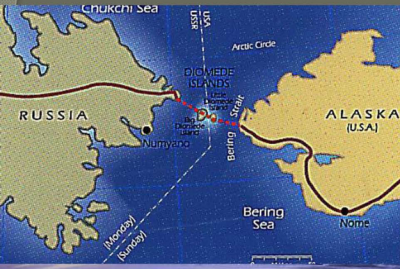
North Pole view



Satellite view

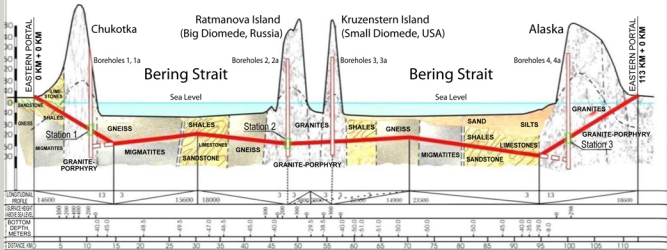


Engineering solutions Bering Strait Tunnel



IBSTRG - The tunnel is more advantageous because of the severe weather conditions (ice load 8.5 months during the year.)

Tunnel cross-sections



SYMBOLS: Boundary of the Permafrost Fault Displacements Separating Blocks With Different Intensities or Orientation

Transcontinental mainline, hydraulic power systems and mineral deposits

Viluy river
coordinated
hydroelectric
system



South Yakut
coordinated
hydroelectric
system

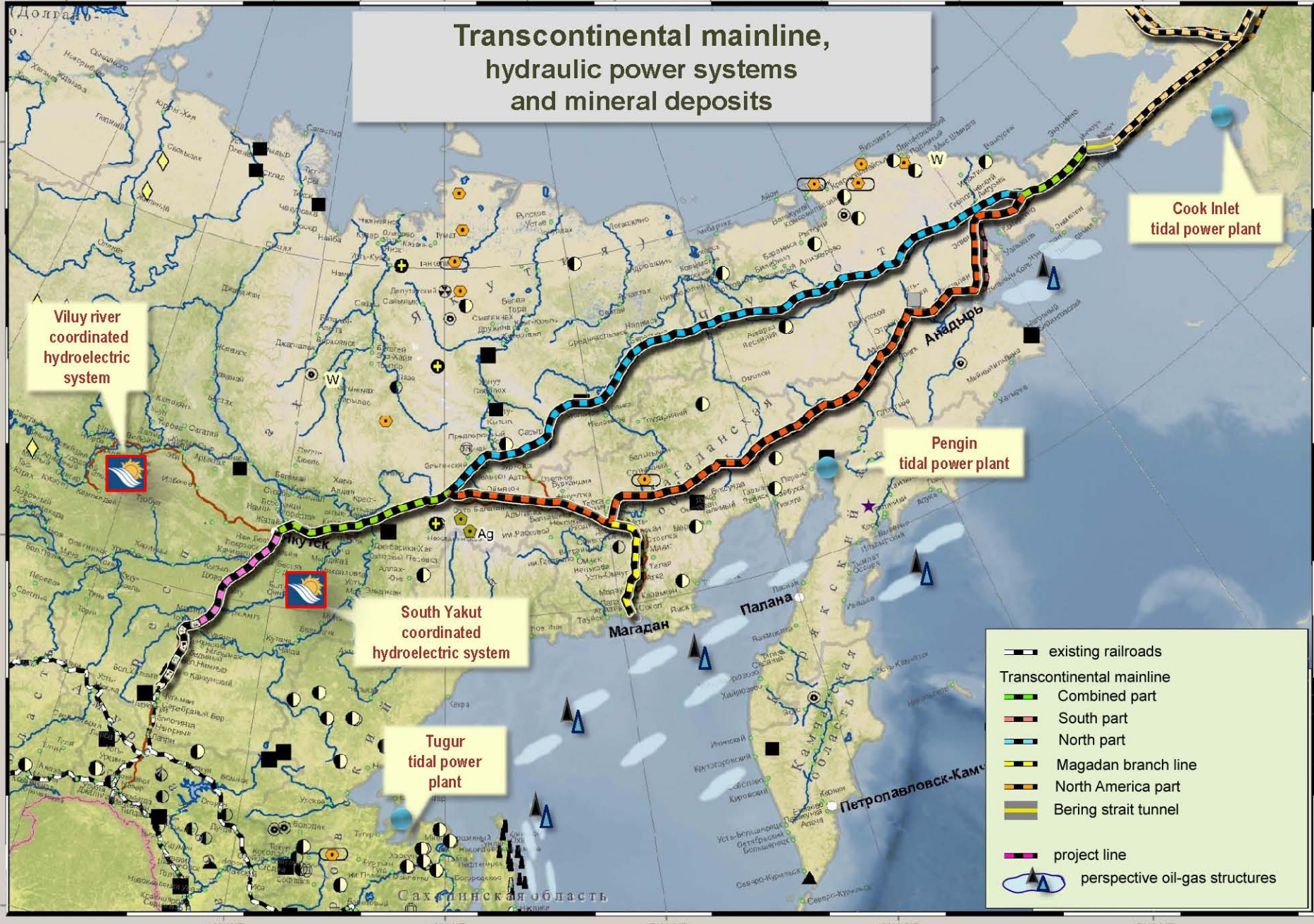


Tugur
tidal power
plant

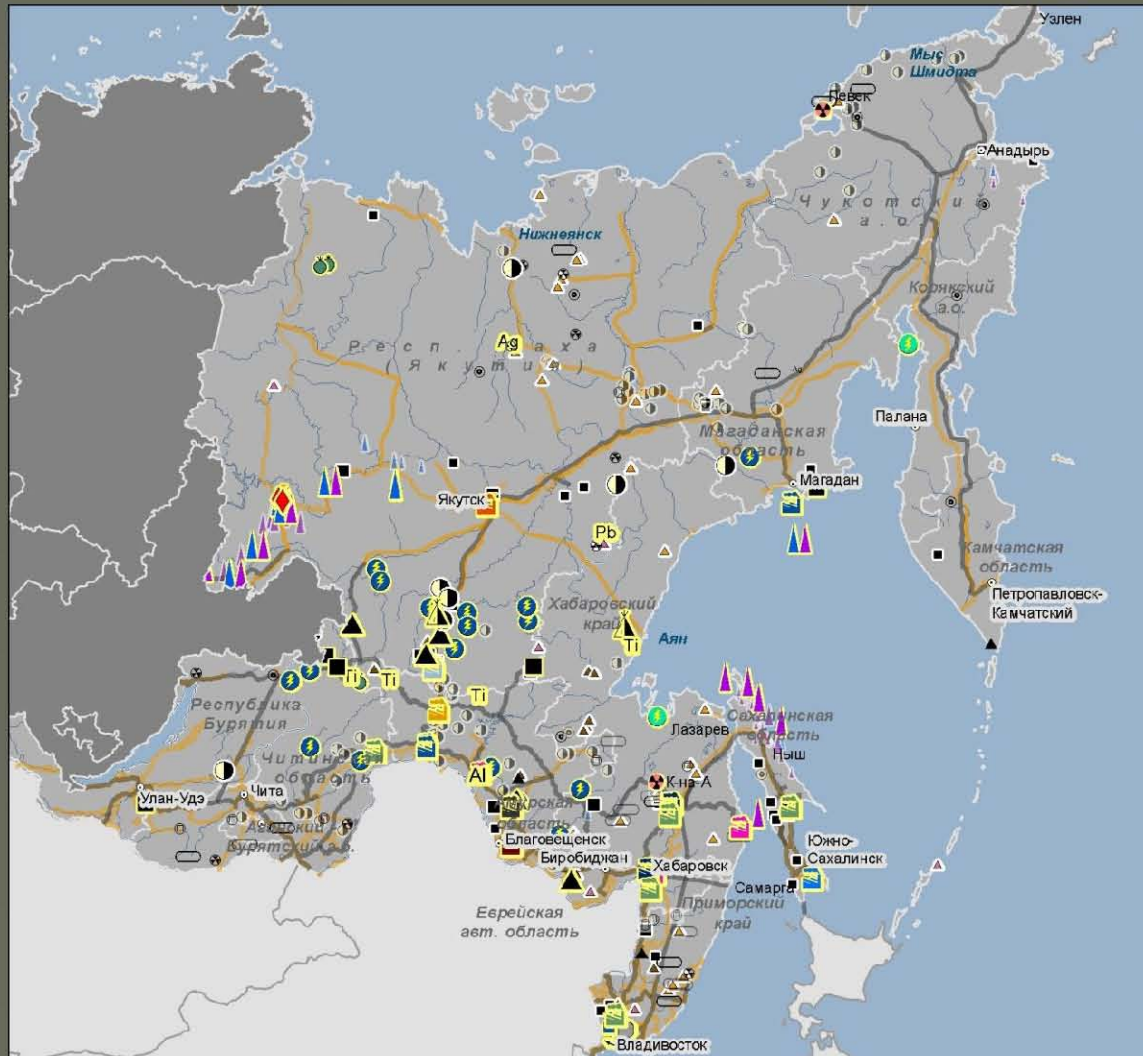
Cook Inlet
tidal power plant

Pengin
tidal power plant

- existing railroads
- Transcontinental mainline**
 - Combined part
 - South part
 - North part
 - Magadan branch line
 - North America part
 - Bering strait tunnel
- project line
- perspective oil-gas structures



Mineral resources and industrial developments in Russia Far East



- Промышленные предприятия**
- Metallurgical combine (black)
 - Metallurgical combine (copper)
 - Non-ferrous processing plant
 - Compressed natural gas
 - Coal
 - Aluminum plant
 - Nylon plant
 - Polyethylene production plant
 - Shipbuilding plant
 - Paper and pulp mill
- Месторождения полезных ископаемых**
- Oil
 - Gas
 - Oil and gas
 - Coal
 - Iron
 - Aluminum ores (bauxite, kaolin)
 - Diamonds
 - Gold
 - Silver
 - Lead
 - Deposits, Niobium rare earth elements
 - Titanium
 - Alloys
- Прочие**
- Port
 - Coal terminal
 - Conversion of consumers to electroheating
- проектируемые ГЭС и ПЭС**
- GЭС
 - ГЭС
 - ПЭС
- проектируемые АЭС**
- проектируемые АЭС

Recoverable Hydrocarbon Resources of the Russian Shelf



Multifunctional Land Bridge “Eurasia-America”

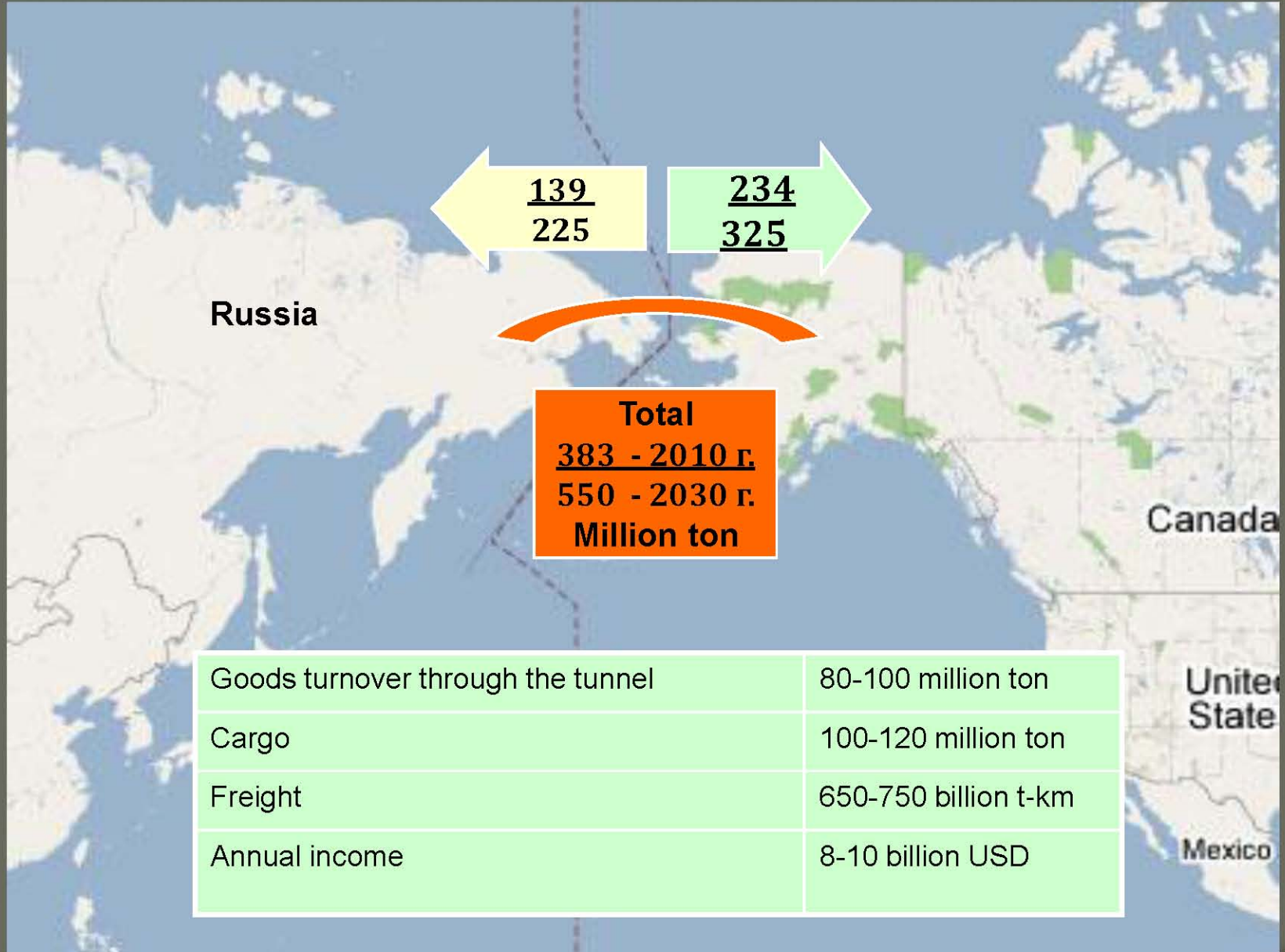
Double-track, full electrified, high-speed railway mainline “Asia-America”; New created part: Yakutsk – Zyryanka - Uelen- Wells - Fairbanks – Fort Nelson
~ 6000 km.

Power transmission line 1500 kV
Transit capacity 12-15 GW

Fiber-optic cable

Oil & Gas Pipelines

More than 3% world goods turnover



Main characteristic of railway project

Railway length Yakutsk-Uelen (estimate PLC «Mosgiprotrans»)	km.
- “North” alternative Yakutsk – Zyryanka – Uelen	3850
- “South” alternative Yakutsk-Susuman-Markovo-Anadir-Uelen	4020
- Railway Yakutsk-Magadan	1560
Railway length Wells – Fairbanks(Alaska)-Fort Nelson (British Columbia) (estimate PhD H.Cooper)	1925
Bering Tunnel length	98 - 113

Economic efficiency

INVESTMENTS:	(billion USD)
Railroad	20-25
Bering strait tunnel	10-12
Total	30-35
Electric power transcontinental transmission line	5-7
Other facilities(Fiber optic cable, Oil and Pipe lines)	?
Industrial development	?
Social development	?
INCOME	
Railroad	8-10 / per year
Electric power transcontinental transmission line	1.8-2.0 / per year
Other facilities	?
Payback period	13-15 years