

Digital technologies and green gas emission influence on the transport corridors

Julia Zvorykina

Deputy Director VEB Institute

Global trends affecting the development of transport corridors

- strengthening climate regulation creates new requirements for manufacturers of goods and the transport system
- creation in many regions of the world national carbon trading systems stimulates the transition to new types of fuels and the replacement of vehicles
- creation of new digital technologies allowing to optimize the route and count emissions
- ESG factor in making investment decisions

Main results of the impact of global trends on transport corridors

- Growth in transportation costs due to new requirements: payments for carbon dioxide emissions, investments in new vehicles running on alternative fuels, more paid infrastructure
- Implementation of green certificates in transport, creation of digital currencies for them
- Finding shorter routes
- Transition to sections of corridors located in countries with milder climate regulation

Example: the Northern Sea Route as an alternative to the Suez Canal

Route Shanghai – Rotterdam

Northern Sea Route = 8087

Indian Ocean and Suez Canal = 10498

Greenhouse gas emissions are **23% less** when using the Northern Sea Route

An additional factor is LNG as a fuel

Grand Total = **38% Reduction** in Emissions