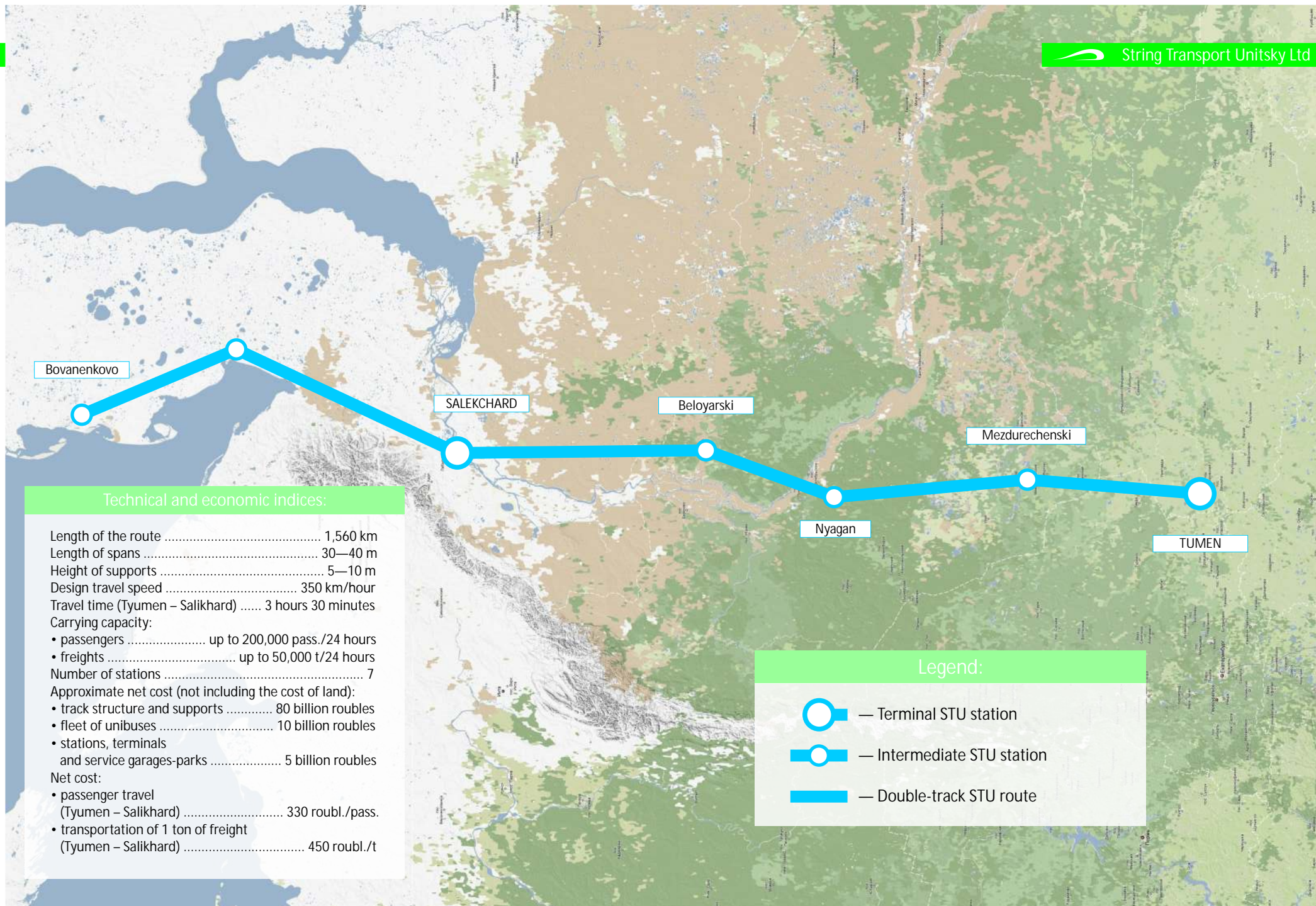




High-speed freight-passenger STU route «Tyumenskaya Vertical»



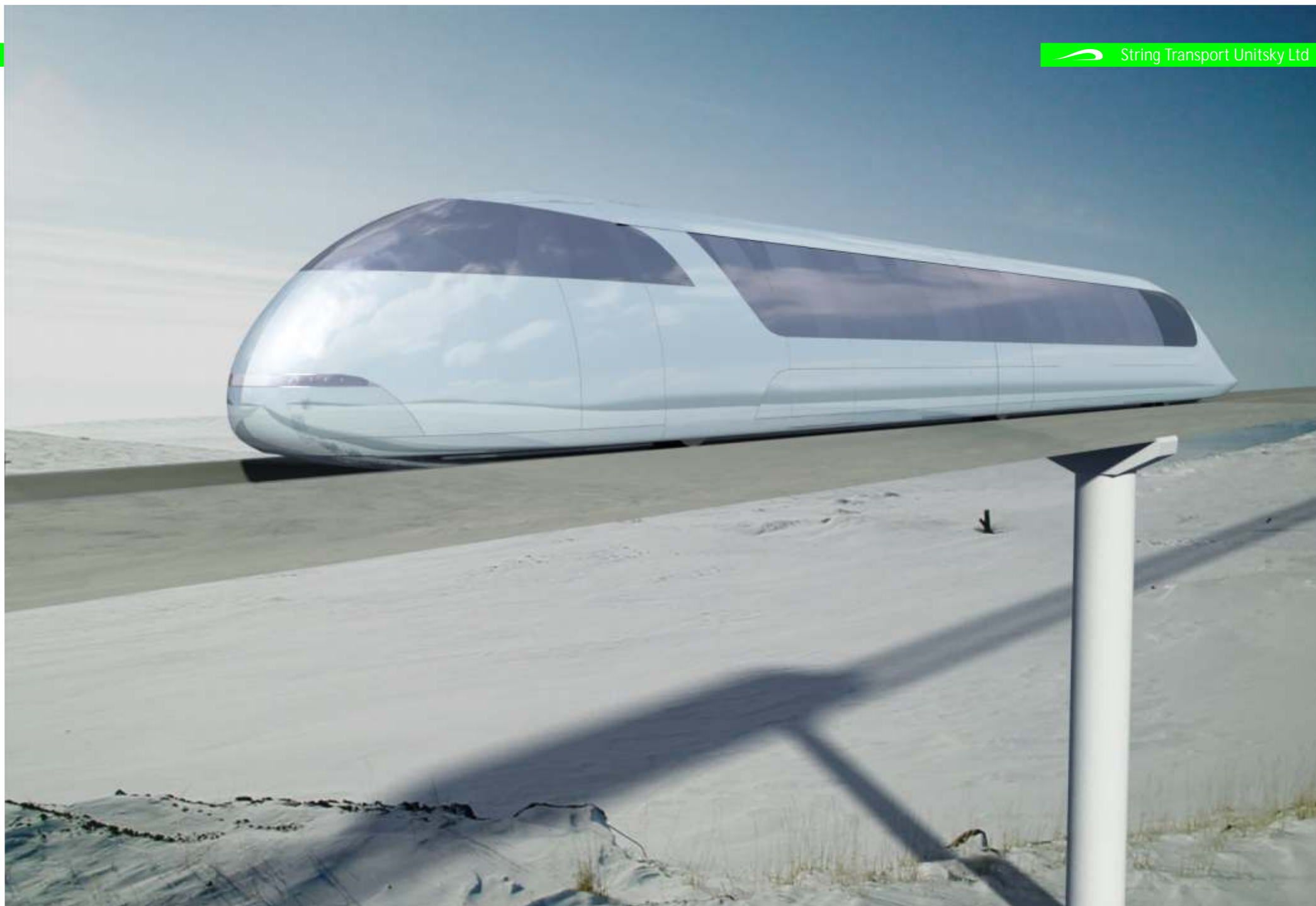






High-speed freight-passenger STU route «Tyumenskaya Vertical»

General view of the route  
(passenger alternative)



High-speed freight-passenger STU route «Tyumenskaya Vertical»

General view of the route  
(passenger alternative)

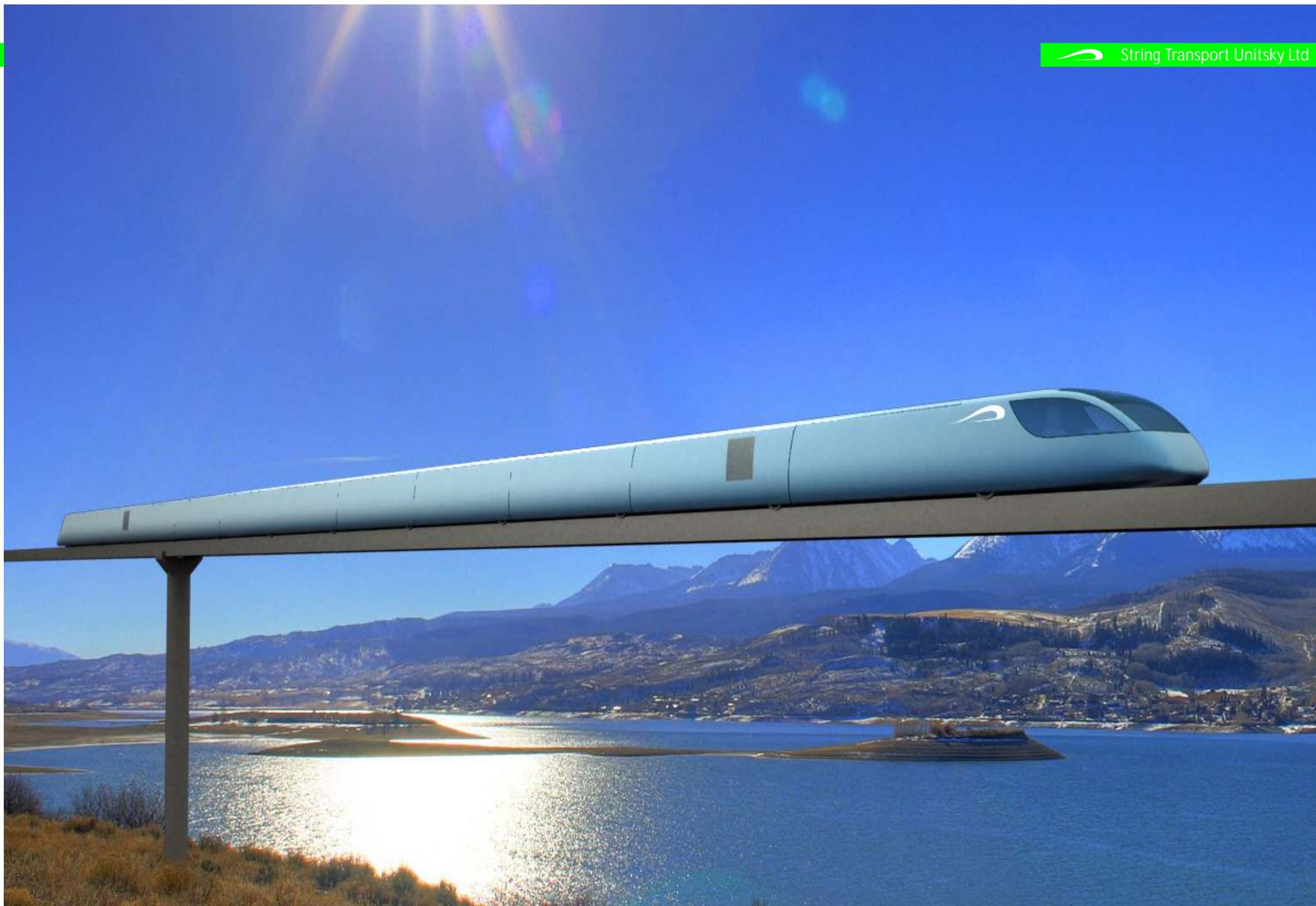




High-speed freight-passenger STU route «Tyumenskaya Vertical»

General view of the route  
(freight alternative)





High-speed freight-passenger STU route «Tyumenskaya Vertical»

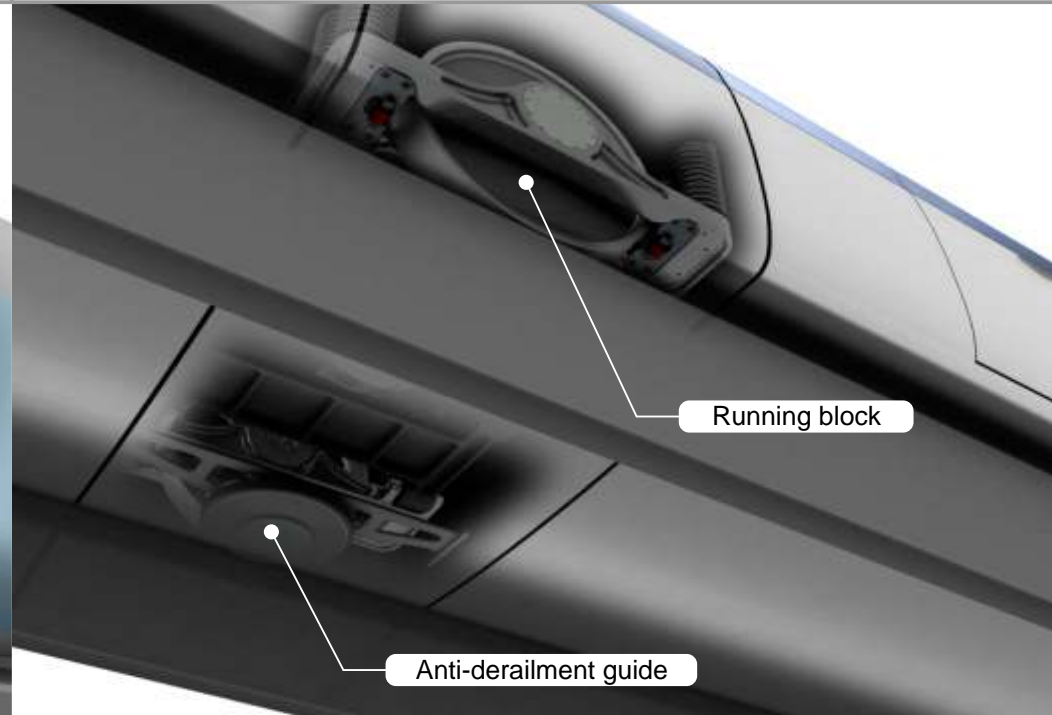
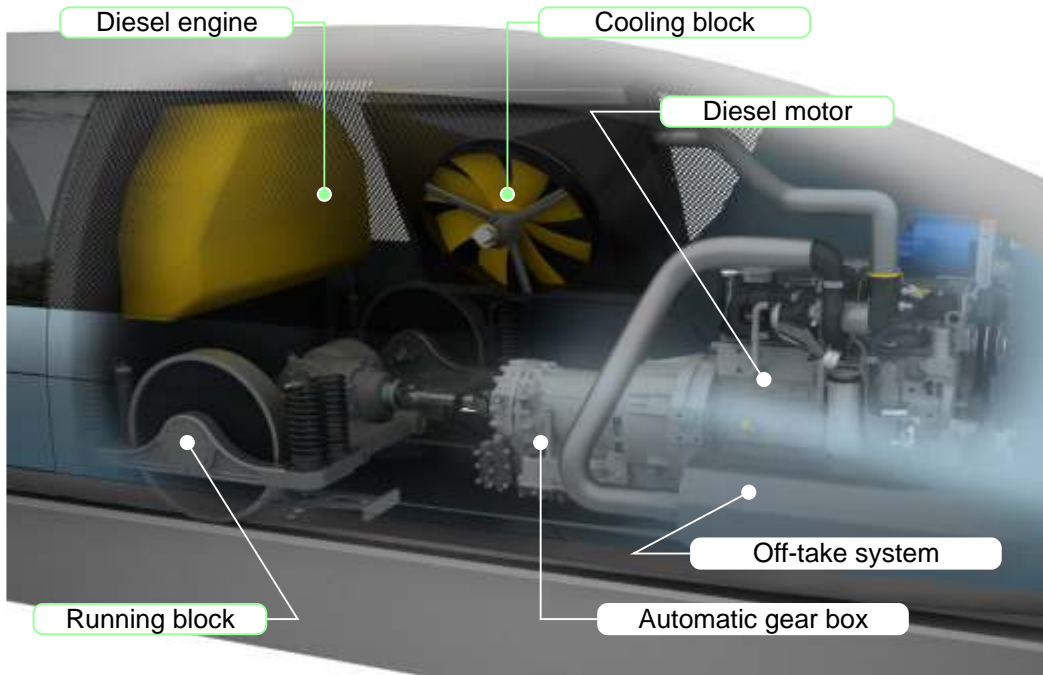
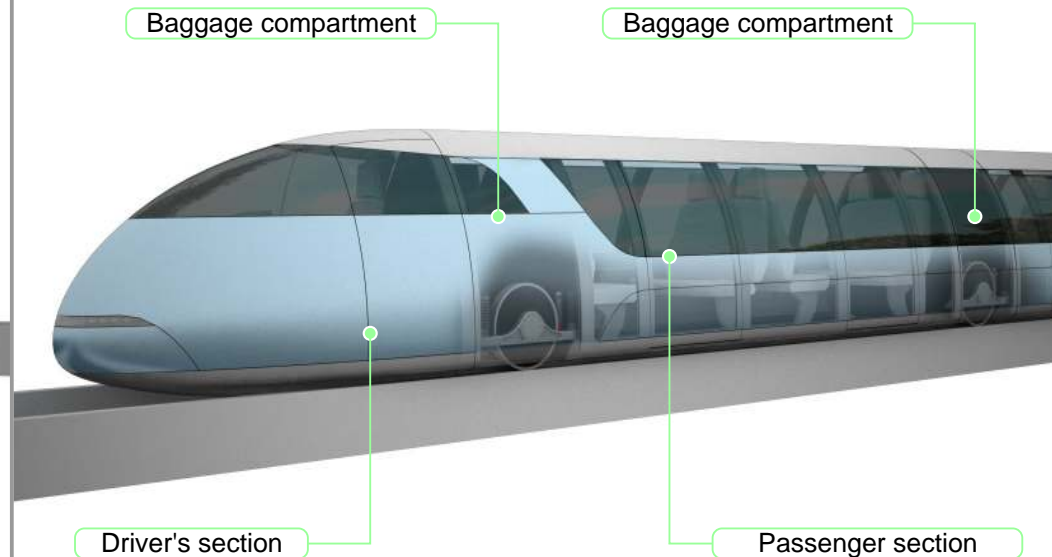
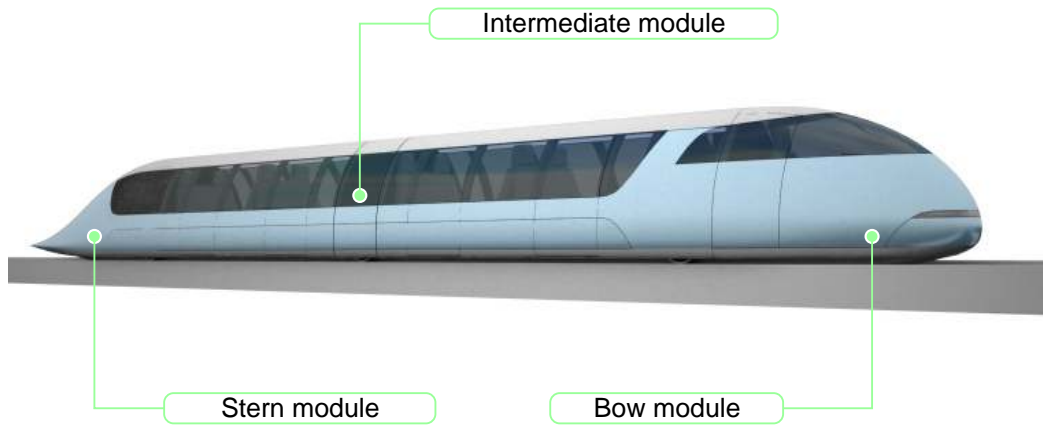
General view of the route  
(freight alternative)





High-speed freight-passenger STU route «Tyumenskaya Vertical»

Changing station to change from the international STU route to the citywide STU route



High-speed freight-passenger STU route «Tyumenskaya Vertical»

High-speed passenger diesel-electric STU train



High-speed diesel-electric STU train (model U-328 ) is intended for intercity passenger traffic along a special track structure built on the basis of string technology. A high-speed STU train is designed on the basis of a module scheme. In the train design the following four types of unified modules are used: bow, running, passenger and stern modules. Bow module contains: driver's section with the necessary control equipment, power section, VIP-class section. Running module contains: traction-support block, power electric equipment, aggregates responsible for micro-climate in passenger sections and, if necessary, a toilet. Passenger module contains: passenger couches, tables and places for hand baggage. Stern module includes a VIP-class passenger section, power section, baggage section.

**Technical characteristics of a train (model U-328GM)  
for the alternative with three-passenger modules**

1	Number of passenger seats	16
2	Equipped mass, kg	5,000
3	Maximal mass, kg	6,600
4	Standard-size dimensions, mm - length - width - height - gauge	19,000 1,600 1,675 1,250
5	Maximal speed, km/hour	350
6	Wheel formula	6 2
7	Fuel consumption (350 km/hour, full mass) - kg/100 km - kg/100 pass. x km	10 0.63
8	Smoothness of running along the rail-string track structure (W)	2.8