



CREATING A NETWORK OF ULTRA-HIGH-SPEED LINES IN RUSSIA



ULTRA-HIGH-SPEED LINES IN RUSSIA

The VSM – a specialist doubletrack electrified railway line with speeds of

200-400 kph





Russia's transport strategy

includes construction of

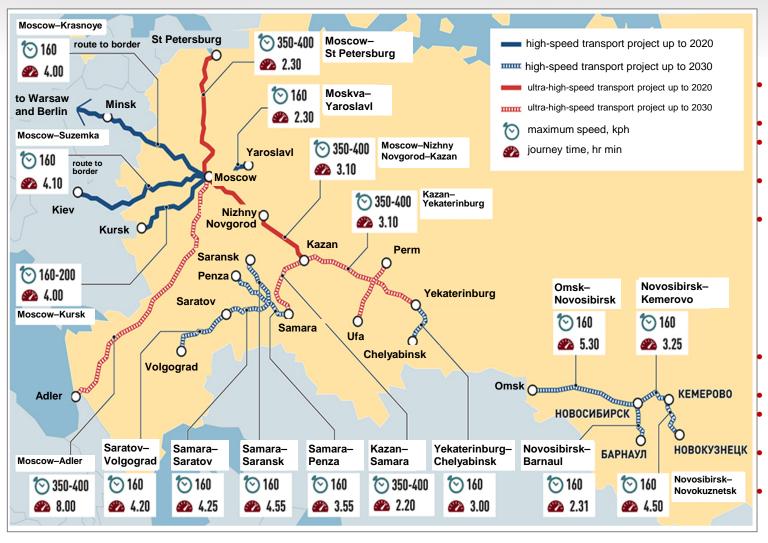
4,200 km of ultra-highspeed lines

by 2030





HIGH-SPEED AND ULTRA-HIGH-SPEED TRANSPORT PROJECTS IN RUSSIA



2009

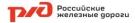


- First high-speed SAPSAN train brought into operation
- Speeds of up to 250 kph
- 8 trains per day on the St Petersburg—
 Moscow—Nizhny Novgorod route
- About 10 million passengers carried since train introduced on this line
- Train's seat occupancy rate > 80%

2010

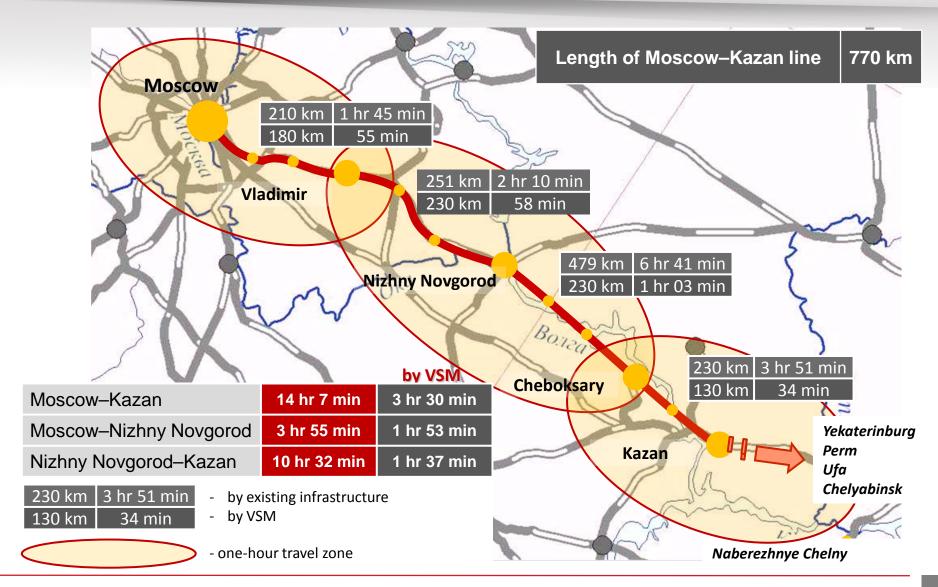


- First ALLEGRO international high-speed train in Russia brought into operation
- Speeds of up to 220 kph
- 8 trains per day on the St Petersburg Helsinki route
- About 1.5 million passengers carried since train introduced on this line
- Train's seat occupancy rate > 80%



Соединяя Россию

MOSCOW-KAZAN VSM PILOT PROJECT





VSM FOR EVERYONE

PEOPLE

Соединяя Россию







BUSINESS



RAILWAYS







INDUSTRY





CREATING NEW JOBS

- At the construction stage: **80,000** jobs, including **45,000** jobs in related industries
- At the operational stage: **30,000** jobs, including **15,000** jobs in related industries









BENEFITS OF THE MOSCOW-KAZAN VSM PROJECT

LOCALISING CUTTING-EDGE GLOBAL TECHNOLOGIES

- Developing systems for designing and building infrastructure facilities
- Organising production in Russia of ultra-high-speed rolling stock capable of speeds of up to 400 kph and high-performance construction equipment

DEVELOPING SCIENTIFIC SCHOOLS AND TRAINING WORLD-CLASS ENGINEERING STAFF









BIGGEST ORDER IN RUSSIAN INDUSTRY

Material type	Quantity	Estimated cost, billion roubles	Proportion, %
Non-metallic minerals, crushed stone	133 million cu m	86.1	32.3
Precast reinforced concrete and concrete, structures, poured concrete	19.4 million cu m	124.6	45.4
Steel and steel structures	1 million tonnes	19.6	10.0
Rails	0.2 million tonnes	5.7	2.1
Points	600 sets	1.2	0.4
Sleepers	4 million	10.3	3.8
Cable products, wire and materials	0.3 million km	26.4	6.0
Total		273.9	100



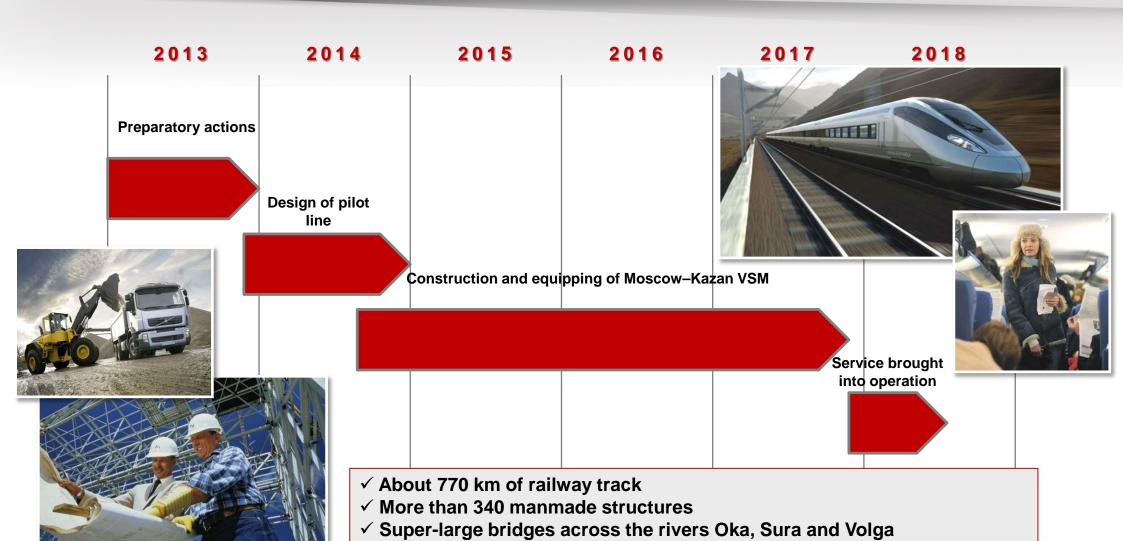








ROADMAP FOR IMPLEMENTATION OF THE MOSCOW-KAZAN VSM PROJECT



√ About 800 intersections with other types of transport infrastructure

