

## **Importance of Rail Infrastructure Investments**

Rail infrastructure is an important driver for economic growth

Rail infrastructure

is key to making economic

growth greener

Rail infrastructure
offers the fastest and
cost effective to any
other means of transport

Shift to on-rail
transport
will pull green
technologies for
on-rail applications

## **Negative Trend in Public Infrastructure Investments in the EU**

### Shift in financing models is needed to accelerate investments – increasing gap since 2008 crisis

- → Traditionally infrastructure investments have been financed by public funds
- → Public deficits , increased public debt to GDP ratios
- → Inability to deliver efficient investment spending have led to a dramatic reduction post financial crisis

Annual Investment Needs EU  Source: EIB, OECD 2017							
		(in EUR bn per annum)					
Area	Total of GDP (%)	Total	Energy	Transport	Water	Telecom	
EU	4.7	688	280	160	138	160	
World	7.5	5'678	1893	2434	811	541	

→ Total investment in EU infrastructure is at 1.8% of GDP – the gap currently growing exponentially.



## **Vehicles of Private Infrastructure Financing**

Asset Category	Instrument	Infrastructure Project		
		Project Bonds		
	Bonds	Municipal, Sovereign Bonds		
Fixed Income		Green Bonds, Sukuk		
	Loans	Direct/-Co-Investment, Lending to infrastructure project, Syndicated Project Loans		
Mixed	Hybrid	Subordinated Loans/Bonds, Mezzanine Finance		
	Listed	YieldCos		
Equity	Unlisted	Direct/Co-Investment in infrastructure project equity, PPP		

#### RZD – a successful role model for tapping into private financing

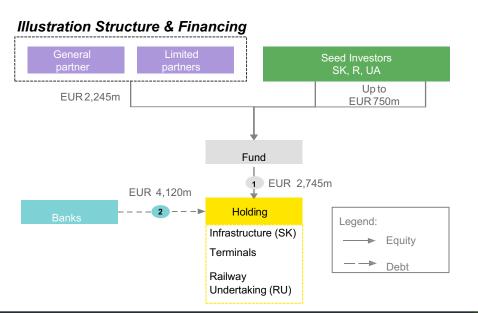
- → RZD placed over Euro 6 bn Eurobonds successfully in institutional market to finance infrastructure investment
- → Additional Placement of RUR 82.5 bn Eurobonds in local currency
- → Credit rating improvement to Baa2 (Moody's)



## 1520mm ERC – A Lighthouse Project in Central Europe

#### 1520mm ERC line investment grade with > 10% IRR on project level

- → Seamless connection from Far East through though the Russian Railway Network
- → Flow of goods are estimated to grow at >5% CAGR between 2030 and 2050



#### Selected Project Drivers



# Thank You

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