

COUNTRY FICHE

SPECIFIC INFORMATION

A: Legal Basis:

Art 20.9 of the Single Basic Act: The SRG shall report to the GB, and act as an interface with the JU, on the following matters:	Status of relevant national/regional R&I programmes DOPRAVA 2020+ (TRANSPORT 2020+) – programme closed 2025 DOPRAVA 2030 (TRANSPORT 2030) – ongoing programme, 4 th call to be opened in March 2026 TREND – ongoing programme Identification of cooperation areas including concrete actions for deployment/uptake of technologies/innovative solutions Dissemination events, communication activities Regular info days, communication through webpages, information spreading to relevant stakeholders and working groups National/regional measures concerning deployment activities in relation to JU Transport Policy of the Czech Republic covers also activities related to JU (similarly Transport Research Strategy) National/regional initiatives ensuring complementarities with JU SRIA Agenda/AWP
Art. 20.10 of the Single Basic Act:	Describing national/regional policies in the scope of the JU
The SRG shall submit, at the end of each	Priorities defined by strategic documents
calendar year, a report:	(Transport Policy of the Czech Republic,
	sectoral Transport Research Strategy)
	Identifying specific ways of cooperation with the actions funded by the JU
	the decions funded by the 30

B. Specific Information – to be filled in by each SRG representative and submitted to the EU-RAIL JU before SRG meetings:



- 1. Potential synergies and complementarities with EU-RAIL JU
 - a. Priority areas linked and/or related to EU-RAIL JU activities:

EU-RAIL JU area	Country's priority area
FA 2 FA 5	Automation, digitalization, radio communication Automation, digitalization
FA 6	Low emission and environmentally friendly rail
List of national funded projects related to areas	Ongoing projects
of interest at the JU level	CL02000022 Reliability limits of the human factor in the interaction with rail vehicle automation systems https://starfos.tacr.cz/en/projekty/CL02000022?query=r5ux77776ota
	CL02000125 Advanced Diagnostics of Railway Turnout Movable Parts https://starfos.tacr.cz/en/projekty/CL02000125?query=tlm777773shq
	CL02000139 5GRailCare Innovative Remote 5G Management of Railway Rolling Stock According to ECM Standard with Predictive Maintenance Estimation https://starfos.tacr.cz/en/projekty/CL02000139?query=tqtp77773h5a
	CL02000146 Sustainable Concept of Railway Capacity Allocation https://starfos.tacr.cz/en/projekty/CL02000146?query=tqtp77773h5a
	CL01000137 Modular Traction Converter for Substations and Flexible AC Transmission System (FACTS) https://starfos.tacr.cz/en/projekty/CL01000137?query=rhch777773ha
	CL01000180 Use of Artificial Intelligence in Support of Dispatcher Control of Rail Freight Transport https://starfos.tacr.cz/en/projekty/CL01000180?query=rhch777773ha



Projects before implementation (closed in 2025)

CK04000041

SmartRail - Automated data analysis related to rail freight traffic

https://starfos.tacr.cz/cs/project/CK04000041

CK04000082

Advanced cyber security methods in tunnel systems as a part of critical transport infrastructure https://starfos.tacr.cz/cs/project/CK04000082

CK04000088

Increasing of tunnel safety using continuous accurate vehicle location

https://starfos.tacr.cz/cs/project/CK04000088

CK03000182

Research of construction-technical requirements for the use of TEN-T ground infrastructure to solve large-scale crisis situations

https://starfos.tacr.cz/en/projekty/CK03000182?query=sot777775loa

FW08010072

Wagon 5G communication unit https://starfos.tacr.cz/cs/project/FW08010072

CK04000107

Research and development of advanced composite cylinders for alternative fuels https://starfos.tacr.cz/cs/project/CK04000107

CK04000109

Predictive diagnostics of ITS technological equipment using AI approaches

https://starfos.tacr.cz/cs/project/CK04000109

b. Priority areas linked and/or related to EU-RAIL specific objectives (art 85(2) SBA)

EU-RAIL Specific Objectives	If any Country's	Suggestions for
	objectives (in	potential synergies



	prioritization 1 st , 2 ^{nd,}	with on-going EU-
	3 rd)	RAIL projects
	-	
	With specific reference	
	to national project	
	developed	
	Note: presentation to	
	be delivered at SRG	
	meetings on project	
	details for sharing or	
	publication on EU-RAIL	
	website	
facilitate research and innovation		
activities to deliver an integrated		
European railway network by design,		
eliminating barriers to		
interoperability and providing		
solutions for full integration,		
covering traffic management,		
vehicles, infrastructure also including		
integration with national gauges,		
such as 1 520, 1 000 or 1 668 mm		
railway, and services, and providing		
the best answer to the needs of		
passengers and businesses,		
accelerating uptake of innovative		
solutions to support the Single		
European Railway Area, while		
increasing capacity and reliability		
and decreasing costs of railway		
transport;		
deliver a sustainable and resilient rail		
system by developing a zero-		
emission, silent rail system and		
climate resilient infrastructure,		
applying circular economy to the rail		



sector, piloting the use of innovative		
processes, technologies, designs and		
materials in the full life-cycle of rail		
systems and developing other		
innovative solutions to guided		
surface transport;		
develop through its System Pillar a		
unified operational concept and a		
functional, safe and secure system		
architecture, with due consideration		
of cyber-security aspects, focused on		
the European railway network to		
which Directive (EU) 2016/797 of the		
European Parliament and of the		
Council (39) applies, for integrated		
European rail traffic management,		
command, control and signalling		
systems, including automated train		
operation which shall ensure that		
research and innovation is targeted		
on commonly agreed and shared		
customer requirements and		
operational needs and is open to		
evolution;		
facilitate research and innovation	2 nd priority	Number of projects
activities related to rail freight and		are focused on rail
intermodal transport services to		freight, and the
deliver a competitive green rail		dual use military
freight fully integrated into the		mobility (with specific priorities)
logistic value chain, with automation		specific priorities)
and digitalisation of freight rail at the		
core;		
develop demonstration projects in	1 st priority	ATO validation test
interested Member States;		in Czech Republic
		and on cross-
		border line (in preparation,
		preparation, proposed)
		proposedy



contribute to the development of a	
strong and globally competitive	
European rail industry;	
enable, promote and exploit	
synergies with other Union policies,	
programmes, initiatives, instruments	
or funds in order to maximise its	
impact and added value.	

2.	Measures	concerning	deployment	activities in	relation t	o the JU

N/A

3. Specific project-level dissemination events, communication activities

N/A