



## COUNTRY FICHE

### SPECIFIC INFORMATION

#### A: Legal Basis:

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

#### ***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  FA 6  -----	<b>Automation, digitalization</b> <b>Automation, digitalization</b>  <b>Low emission and environmentally friendly rail</b>  -----
List of national funded projects related to areas of interest at the JU level	<p><b>CK04000041</b>            SmartRail - Automated data analysis related to rail freight traffic  <a href="https://starfos.tacr.cz/cs/project/CK04000041">https://starfos.tacr.cz/cs/project/CK04000041</a></p> <p><b>CK04000082</b>            Advanced cyber security methods in tunnel systems as a part of critical transport infrastructure  <a href="https://starfos.tacr.cz/cs/project/CK04000082">https://starfos.tacr.cz/cs/project/CK04000082</a></p> <p><b>CK04000088</b>            Increasing of tunnel safety using continuous accurate vehicle location  <a href="https://starfos.tacr.cz/cs/project/CK04000088">https://starfos.tacr.cz/cs/project/CK04000088</a></p> <p><b>FW08010072</b>            Wagon 5G communication unit  <a href="https://starfos.tacr.cz/cs/project/FW08010072">https://starfos.tacr.cz/cs/project/FW08010072</a></p> <p><b>CK03000168</b>            Intelligent methods of digital data acquisition and analysis for bridge inspections  <a href="https://starfos.tacr.cz/cs/project/CK03000168">https://starfos.tacr.cz/cs/project/CK03000168</a></p> <p><b>CK03000182</b>            Research of construction-technical requirements for the use of TEN-T ground infrastructure to solve large-scale crisis situations  <a href="https://starfos.tacr.cz/cs/project/CK03000182">https://starfos.tacr.cz/cs/project/CK03000182</a></p>

	<p><b>CK02000044</b> Progressive development of hydrogen economy in transport in the Czech Republic <a href="https://starfos.tacr.cz/cs/project/CK02000044">https://starfos.tacr.cz/cs/project/CK02000044</a></p> <p><b>CK02000218</b> Wayside diagnostic of railway vehicles running gear <a href="https://starfos.tacr.cz/cs/project/CK02000218">https://starfos.tacr.cz/cs/project/CK02000218</a></p> <p>-----</p> <p><b>CK04000107</b> Research and development of advanced composite cylinders for alternative fuels <a href="https://starfos.tacr.cz/cs/project/CK04000107">https://starfos.tacr.cz/cs/project/CK04000107</a></p> <p><b>CK04000109</b> Predictive diagnostics of ITS technological equipment using AI approaches <a href="https://starfos.tacr.cz/cs/project/CK04000109">https://starfos.tacr.cz/cs/project/CK04000109</a></p> <p><b>FW06010422</b> Simulation and design of structures from digital concrete <a href="https://starfos.tacr.cz/cs/project/FW06010422">https://starfos.tacr.cz/cs/project/FW06010422</a></p> <p><b>FW03010571</b> AI system for multimodal traffic data evaluation <a href="https://starfos.tacr.cz/cs/project/FW03010571">https://starfos.tacr.cz/cs/project/FW03010571</a></p>
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b. Priority areas linked and/or related to EU-RAIL specific objectives (art 85(2) SBA)

EU-RAIL Specific Objectives	If any Country's objectives (in prioritization 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> ..)  - With specific reference to national project developed	Suggestions for potential synergies with on-going EU-RAIL projects

	<p><i>Note: presentation to be delivered at SRG meetings on project details for sharing or publication on EU-RAIL website</i></p>	
<p>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;</p>		
<p>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;</p>		

<p>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;</p>		
<p>facilitate research and innovation activities related to rail freight and intermodal transport services to deliver a competitive green rail freight fully integrated into the logistic value chain, with automation and digitalisation of freight rail at the core;</p>	<p><b>2<sup>nd</sup> priority</b></p>	<p><b>Number of projects are focused on rail freight, also including the dual use military mobility</b></p>
<p>develop demonstration projects in interested Member States;</p>	<p><b>1<sup>st</sup> priority</b></p>	<p><b>ATO validation test in Czech Republic (in preparation, proposed)</b></p>
<p>contribute to the development of a strong and globally competitive European rail industry;</p>		
<p>enable, promote and exploit synergies with other Union policies, programmes, initiatives, instruments or funds in order to maximise its impact and added value.</p>		



2. Measures concerning deployment activities in relation to the JU

N/A

3. Specific project-level dissemination events, communication activities

N/A