1) Railway projects on the Core, extended core and Comprehensive Networks
(CEF-T-2024-CORECOEN, CEF-T-2024-COMPCOEN)

Projects to be supported:

➢ construction and upgrade of cross-border and missing links

➢ capacity and performance upgrade of existing lines

➢ capacity increase in nodes

➢ interconnections with other transport modes

➢ connections of freight terminals to the TEN-T

➢ electrification of railways

➢ **NO**: track side ERTMS, e-interlockings, Class A radio/data > ERTMS topic

Works / Studies / Mixed

Maximum co-funding rates:

Cohesion envelope: 85%

2) European Rail Traffic Management Systems (ERTMS)
(CEF-T-2024-SIMOBGEN, CEF-T-2024-SIMOBCOEN)

Works

ERTMS deployment **on-board** (OB) and **track-side**, incl. Class A radio com. and el. interlocking

No support for:

i) **fitment**

ii) **retrofitting** of vehicles put into operation **after 31/12/2020**

GEN envelope priorities: OB, Cross-border, 5G/FRMCS

Deliverables: demonstration of **TSI-compliance** and **traceability**, e.g. i) EC Decl./Cert. of the sub-system verification and ii) application for authorisation

Maximum co-funding rates:

General envelope: unit contribution	Cohesion envelope: unit contribution

ERTMS: unit contributions

Activities	Cost category	Scenario	Sub-scenario		Unit contribution (K€) GEN	Unit contribution (K€) COH
On-board **1 on-board unit**	Retrofitting	Prototype	International	/	/	900	1.500
			National	/	/	450	750
		Serial	International	/	/	110	190
			National	/	/	80	140
	Upgrade	Prototype	International	Software	Hardware	600	1.000
			National	Software	Hardware	350	600
		Serial	International	Software	/	18	30
			National	Software	/	15	25
			International	Software	Hardware	55	95
			National	Software	Hardware	55	95
Track-side **1 km of double track equivalent**	Deployment	Standard ETCS & associated upgrade costs			90	150
		ETCS & associated upgrade costs in urban nodes			200	340
		Class A radio communication			20	35
		Interlocking			80	140
		Interlocking in urban nodes			300	510
	Upgrade	/			20	35

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3) Actions removing interoperability barriers (REMIB)
(CEF-T-2024-SIMOBGEN)

Works/Studies/Mixed

Projects to be supported:

➢ Projects addressing Directive 2016/797 (**Interoperability** of the rail system) by implementing **compliance** of the rail system and its subsystems with the technical specifications for interoperability (**TSIs**), including TAF/TAP TSI (details: next slide)

➢ Automatic **gauge-change** facilities in rail freight traffic

➢ Studies on **Digital Automatic Coupling** (DAC) for freight operations, including validation of the system in commercial operations (involvement of >= 4 Member States). Possibility to fund investments for rolling stock.

➢ **NO** TSI CCS > ERTMS topic

Maximum co-funding rates:

General envelope: 50%

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REMIB: Telematics applications
(CEF-T-2024-SIMOBGEN)

Works/Studies/Mixed

➤ **Deployment of telematics applications**, or upgrade/renewal of existing ones;

➤ **Compliance** with **TSIs** relating to the Telematics subject to **ERA assessment**;

➤ Collaboration with ERA to implement the **rail ontology** (common understanding across railway data ensuring compatibility and consistency for their exchange) **for telematics** applications

➤ Eligible processes:

    ➤ Capacity and traffic management of rail infrastructure;

    ➤ Train preparation, including train composition;

    ➤ Management of freight wagons and their shipments;

    ➤ Rail ticketing services.

Maximum co-funding rates:

General envelope: 50%

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