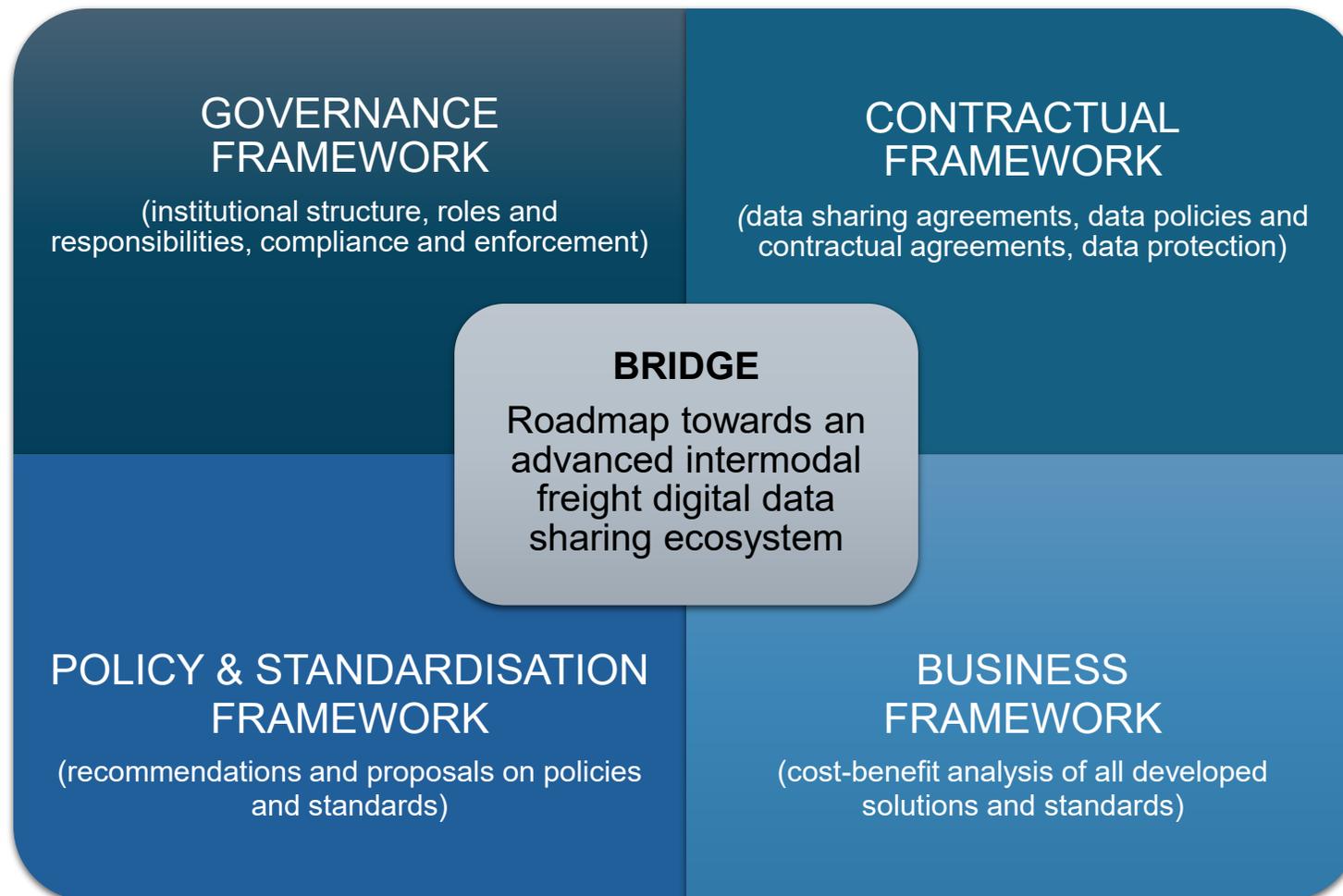




Vision for 2030 data sharing & process improvements

Roland FRINDIK – MARLO Consultants

Towards an advanced intermodal freight digital data sharing ecosystem



Door-to-Door view includes many stakeholders



Business + Public CT Ecosystem (BRIDGE)

Business Ecosystems

Commercial requirements to optimise supply chains, data sharing rules and practices

Dominantly privately owned **consignors, consignees, LSPs** and CTOs / TOs



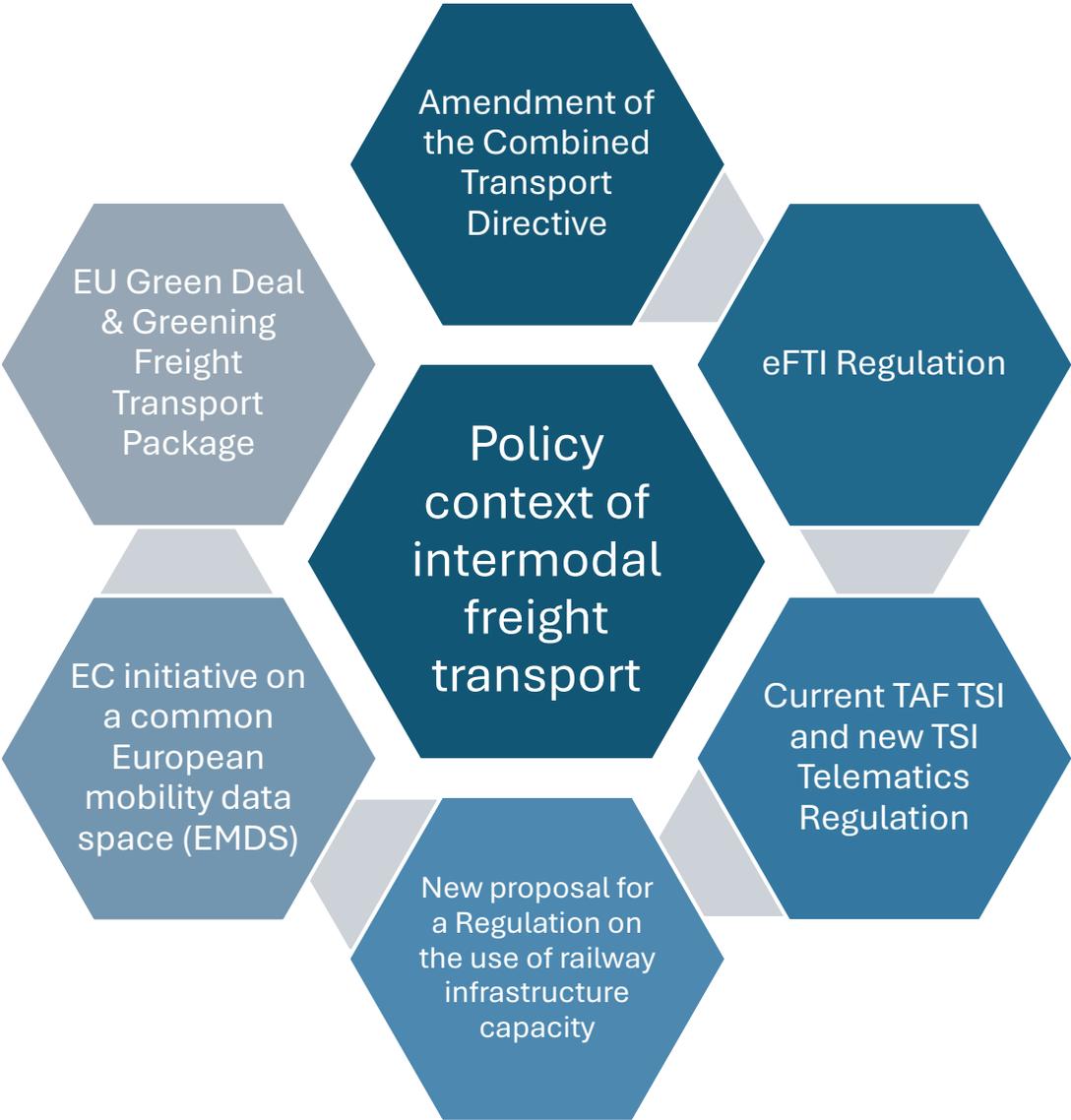
Public Ecosystems

Regulators & agencies foster and demand participation through compliance to standards in rail sector

Public authorities, regulators, agencies and dominantly publicly owned RUs and IMs



The Policy Context



Roles and transport chain elements

> holistic data exchange during the process



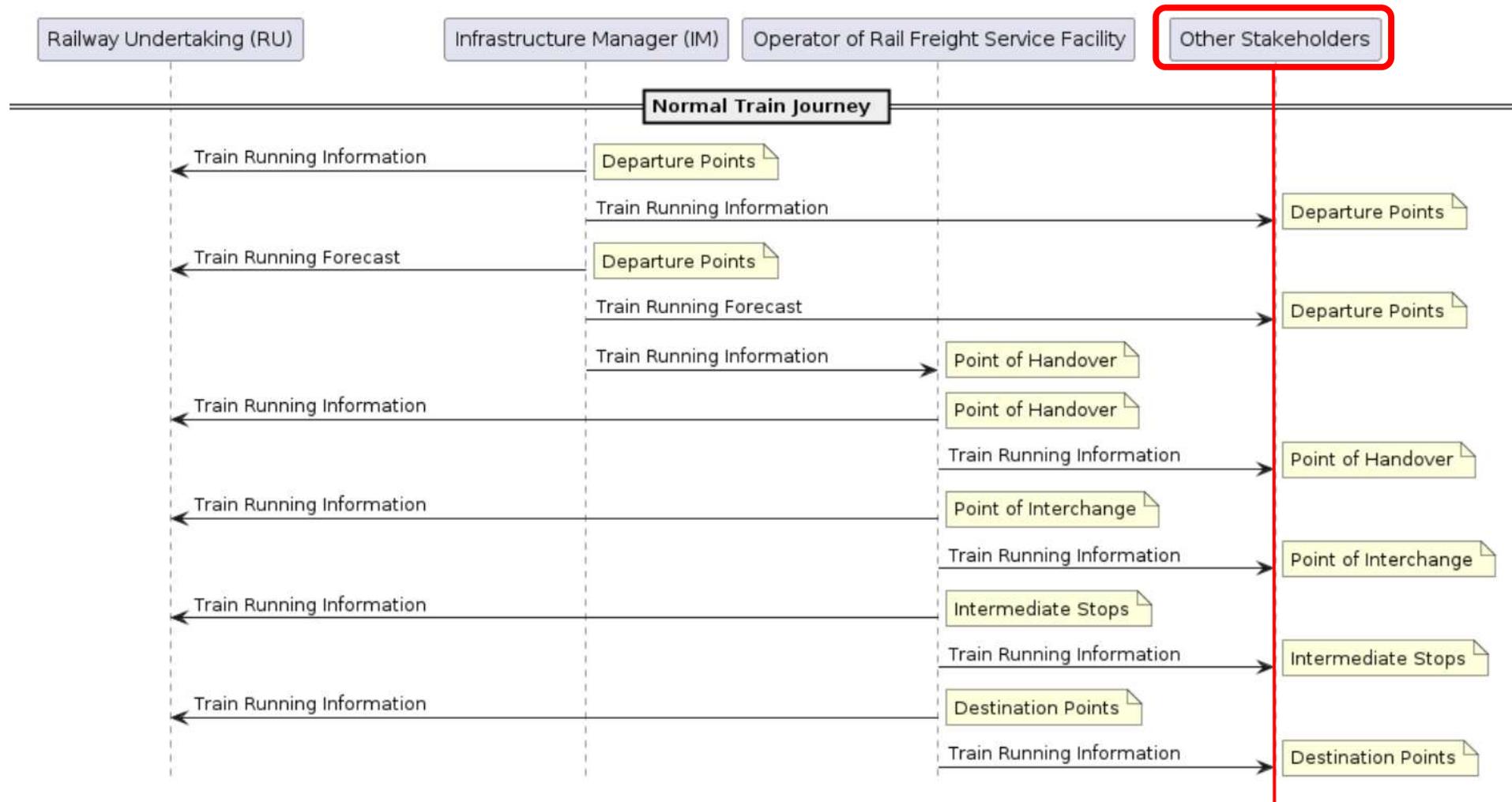
role	pre-transport process	pre-haulage (road)	terminal operation	main leg transport (rail)	post-haulage (road)	post-delivery process
consignor/consignee	↕	↕	↕		↕	↕
logistic service provider	↕	↕	↕		↕	↕
combined transport operator	↕	↕	↕		↕	
terminal operator		↕	↕		↕	
railway undertaking				↕		
infrastructure manager	↕			↕		



TSI Telematics: integration also of other stakeholders



Train
running
forecast

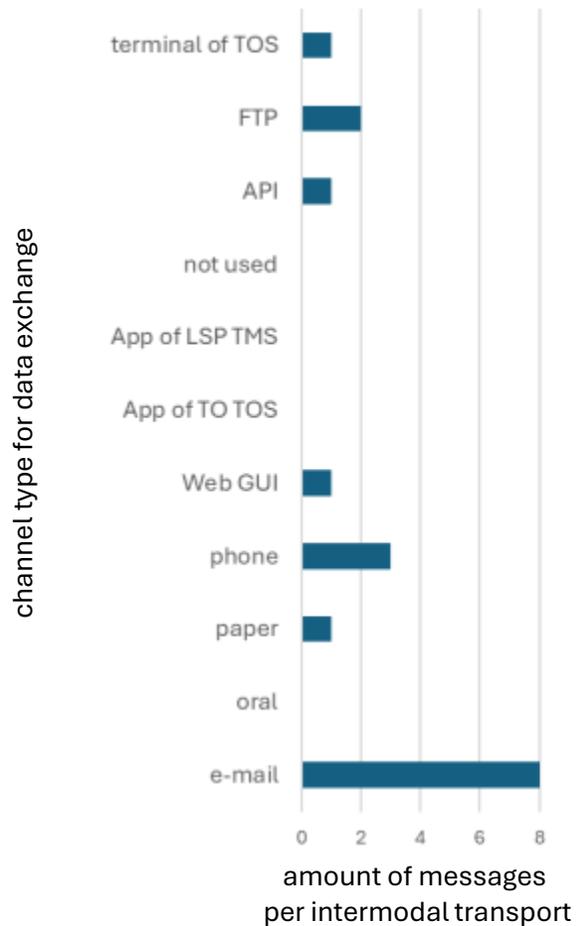


current channel types for data exchange

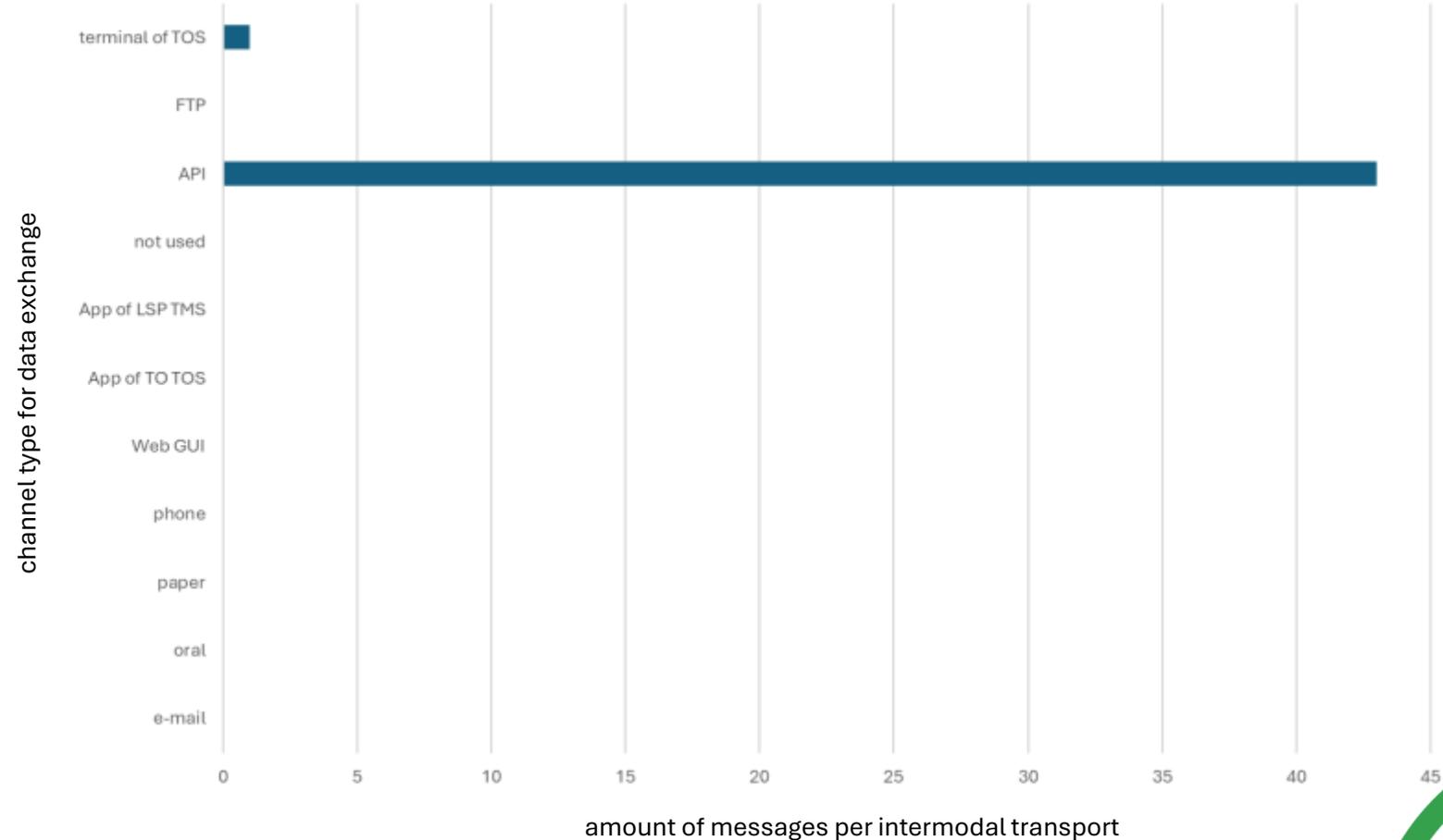
> 2 very different examples



„classic“ version



„digital“ version



visibility of intermodal transport for consigner/consignee



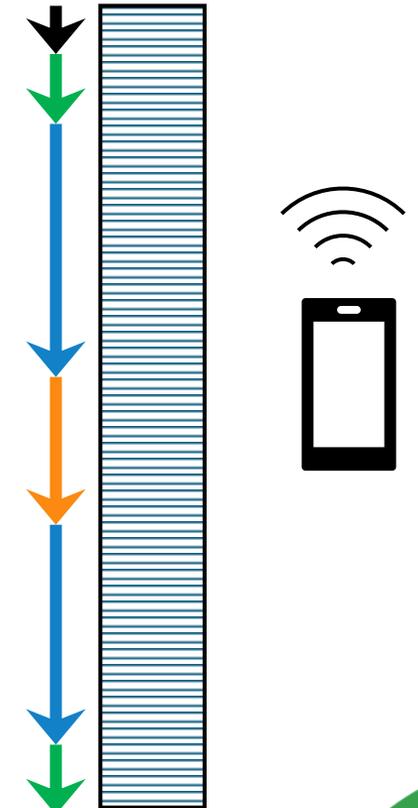
ready for pick-up/main legs

chain element	process steps
pre-transport	booking
pre-haulage	ILU loaded at origin
terminal (origin)	train departed
terminal (destination)	ready for pickup
post-haulage	ILU delivered
post-haulage	ILU unloaded at destination

dedicated waypoints

chain element	process steps	EDIGES
pre-transport	booking	S10
pre-haulage	ILU loaded at origin	
pre-haulage	estimated time of arrival of truck at terminal	S13
terminal (origin)	gate-in	S20
terminal (origin)	provide wagon for loading	
terminal (origin)	ILU unloaded from truck	
terminal (origin)	ILU loaded on wagon	S25
terminal (origin)	wagon set ready (for shunting, loading finished)	S70
terminal (origin)	train ready for departure	
terminal (origin)	train departed	S30
main leg	waypoint passed	S34/TRI
main leg	estimated time of arrival of train	S36/TRF
main leg	estimated time of pick-up (ETP)	S37
main leg	train arrived	S38
terminal (destination)	train arrival at terminal	S72
terminal (destination)	ready for pickup	S40
terminal (destination)	ILU delivered at gateway	S45
post-haulage	estimated time of arrival of truck at terminal	S43
terminal (destination)	unit pick-up	
terminal (destination)	gate-out	S50
post-haulage	ILU delivered	
post-haulage	ILU unloaded at destination	

frequent status update of ILU



and events as deviations from transport plan

deviation from transport plan - What is of interest: Only effect of or also reason for a deviation?



effect of a deviation:

- delay
- disruption



reason codes

high level reason codes

A01	Force majeure
A02	IT problems
A03	Infra works
A04	Missing resources
A05	Technical issues RU
A06	Operational issues RU
A07	Administrative issues RU
A08	Shunting issues
A09	Missing or wrong documents after HLR time
A10	Non-technical unit issues
A11	Technical unit issues
A12	Technical wagon issues
A13	Technical terminal problems
A14	Non-technical train related issues
A15	Technical train related issues
A16	CTO issues
C01	Cancellation

detailed reason codes

A0101	Railway accident
A0102	Railway incident
A0103	Strike
A0104	Weather Condition
A0105	Illegal immigrants
	•
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Thank you for your attention

Eric FEYEN

Project coordinator

efeyen@uirr.com



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