

# **Trackside Approval & Správa železnic**

Michal Bahenský Department of Project Planning Technological Projects Unit

November 8, 2023

### What did we expect

#### - Directive 2016/797, Article 19

#### Harmonised implementation of ERTMS in the Union

1. In the case of trackside control-command and signalling subsystems involving ETCS and/or GSM-R equipment, the Agency shall ensure the harmonised implementation of ERTMS in the Union.

2. In order to ensure the harmonised implementation of ERTMS and interoperability at Union level, before any call for tenders relating to ERTMS track-side equipment, the Agency shall check that the technical solutions envisaged are fully compliant with the relevant TSIs and are therefore fully interoperable.

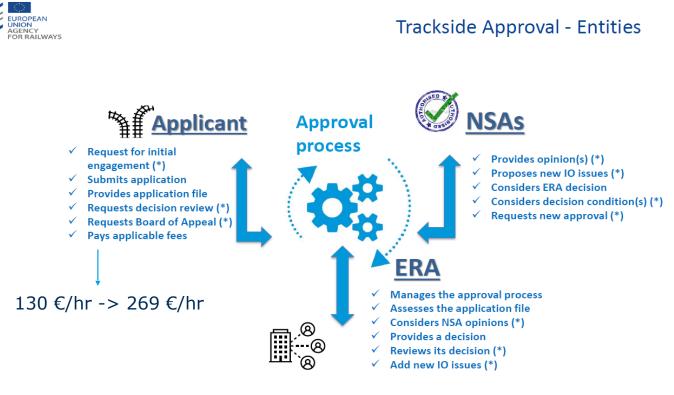
3. The applicant shall submit a request for the Agency's approval. The application relating to individual ERTMS projects or for a combination of projects, a line, a group of lines or a network, shall be accompanied by a file which includes:

- (a) the draft tender specifications or the description of the envisaged technical solutions;
- (b) documentary evidence of the conditions necessary for technical and operational compatibility of the subsystem with the vehicles intended to operate on the relevant network;
- (c) documentary evidence of the compliance of technical solutions envisaged with the relevant TSIs;
- (d) any other relevant documents, such as national safety authority opinions, declarations of verification or conformity certificates.

TA wb

#### What ERA says

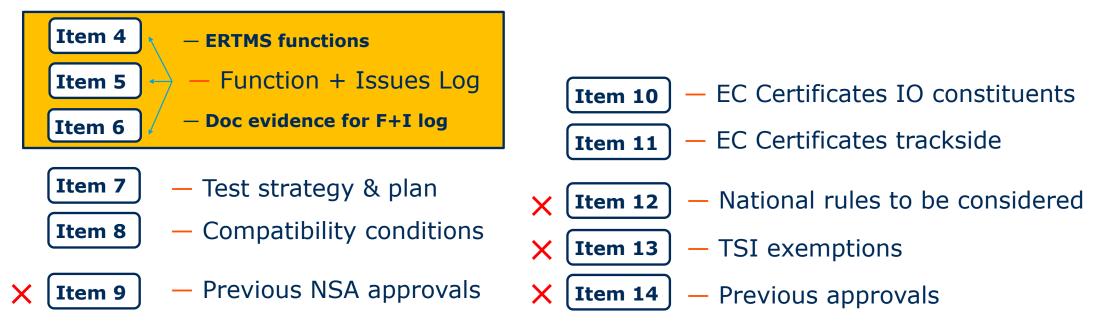
#### Responsibility assignment martix by ERA







- **Item 1** Project description
- **Item 2** Compliance with TSI (project/tender documentation)
- Item 3 📔 Planning



- Efficiency demands intensive involvement of both ERA and IM

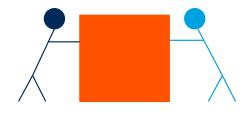
- Significant administrative force is required on IM side to deal with all issues and especially with pending issues in F+I list

- Some issues can be answered by 1 or 2 experts nationvide only!!!

- Closing of issues in F+I list takes months due to:

- Several modifications of initial answer needed to close issues
- Additional questions by ERA

- better understanding of the issues = better evidence = less time







Question 3	What are the applicable CCS TSI version (including amendments) and the M_Version that will be applied in the project?
	ERA V5: What is the project strategy towards the new CCS TSI 2023 ?
Applicant answer	TSI version 2016/919, amended by EC Regulation 2019/776 and 2020/387.
	M_Version 1.
Where to find	Please, indicate where to find the answer provided: the document name, availability date, reference, chapter, paragraph, requirement id,
Applicant	See B.pdf, page 38.
information	See 9300-KT_RBC.xlsx
Applicant action Status	In case of new document(s), please attach it/them also in the application issue answer ERA V1: Pending clarification/action
	<u>ERA V3</u> : Pending action: please link the document $[6]$ to the item 2 in the mapping table.
	ERA V5: Pending clarification

#### - F+I list statistics

Nr	Project	Level	Items in progress	Remaining items	Nr. of iterations F+I log / Other Items	Closed Apendix A Issues / Out of
1	GSM-R Uničov - Šumperk	Radio	1,2,3,4,5,6	7, 8,10,11	6 / 4	9 / 20
2	ETCS+DOZ Votice – České Budějovice	L2	1,2,3,4,5,6,7,8	8,10,11	4 / 5	94 / 105 (+ 11)
3	Implementace ETCS Regional Studénka - Bílovec	L0/L1	1,2,3,4,5,6,7	8,10,11	5/8	43 / 44 <mark>(+ 6)</mark>

#### (new query in V6)

### What do we propose

#### Focus on interoperability issues

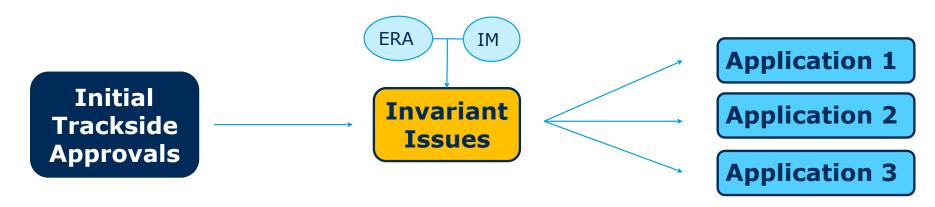
- Namely on F+I list core of the whole approval proces
- Reduce issues to interoperability related only
- Test strategy and conditions for vehicles are generic issues
   Can be assessed once only per project type?
- EC certificated usually delivered anyway = NSA, NoBo
  - This in fact may not be part of the TA process







#### Where should it lead to



Invariant minimum shall be defined per project type (radio, ETCS)

- Used for future applications
- ERA and IM participate in defining invariant issues
- GSM-R roaming, SIM card provisioning, various issues in F+I log related to central setting of the ERTMS

#### **Summary**

- TA is a complex, lengthy & costly process => does it enhance interoperability?
  - Significant demands on supplier and IM
  - Great level of detail verified by ERA
- Why does it take so long?
  - Great volume of documents needed for completion (project, supplier, tender docs)
  - Limited resources of ERTMS experts (IM, suppliers, designers)
  - Questions not related to scope of the application:
    - GSM-R status in ETCS project
    - Packet details examination on Item 1 (project description)
  - Still no ERA guidelines
  - ERA experts not available for applicants
  - Redundant activities with NoBo & NSA (testing, certification)
  - Lack of test lab/test track?

#### **Summary**

#### – Any positives?

- Feedback time is getting shorter
- ERA officers very cooperative, helpful
- Reuse of documents (no need of reassessment)

#### **Summary**

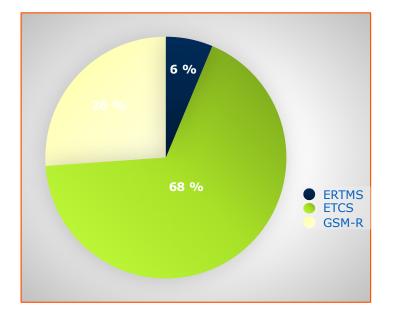
- Optimization of the process (new challenge for ERA and applicants)
   Proposals by IM working group by EUG and applicants already given to ERA
- ERA should consider these proposals



# #worktogether #godigital

## **TA overview up till today**

## 99 On going applications + 13 positive decisions



Trackside Approval o	on Správa železnic
----------------------	--------------------

Z

	A STATE		UK S
2.200.20	MS	TA	AMAAAAAAA
670	AT	1 delivered	AAAAAAA
	BG	3	
	CZ	11	
7	DE	15 (+2 delivered)	
4	EELTLV	1	
1.6	EL	5	
	ES	28 (+1 delivered)	
	EUROTUNNEL	1	67
2ª	FI	1	
	FR	2	
	FR/IT	1	
	HR	1	
	HU	2	1. 5
	IE	1 (+1 delivered)	-
	IT	20 (+5 delivered)	-
	NL	1 (+2 delivered)	
Se	PL	2 (+1 delivered)	
	PT	2	
-	RO	1	
	SV	1	1
	7 /	4	13



## Thank you for your attention

Michal Bahenský Dpt. of Project Planning Technological Design Unit

bahensky@spravazeleznic.cz

© Správa železnic, státní organizace Dlážděná 1003/7, 110 00 Praha 1

spravazeleznic.cz