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# **An efficient and effective Certification process**

**By Titia Los**

# CONTENT



What is NB Rail Coordination group

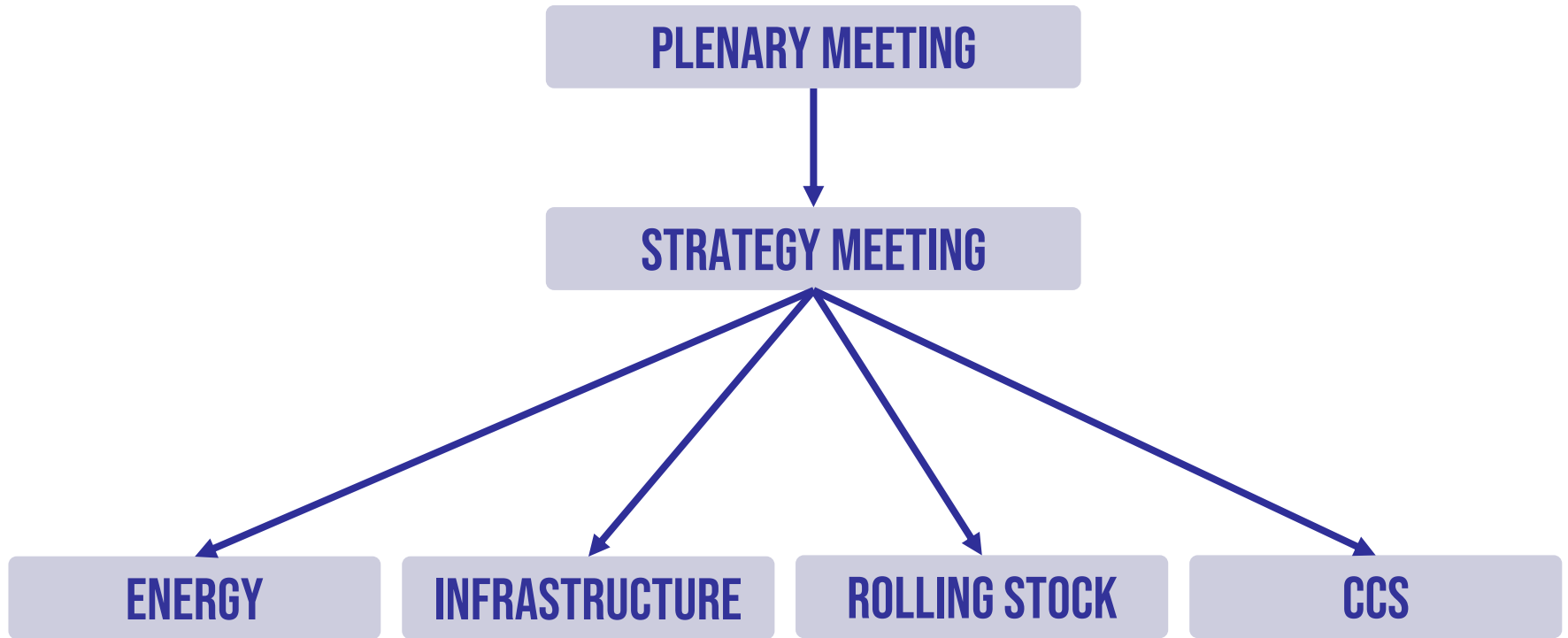


What has NB Rail CCS achieved in improving efficiency and effectiveness

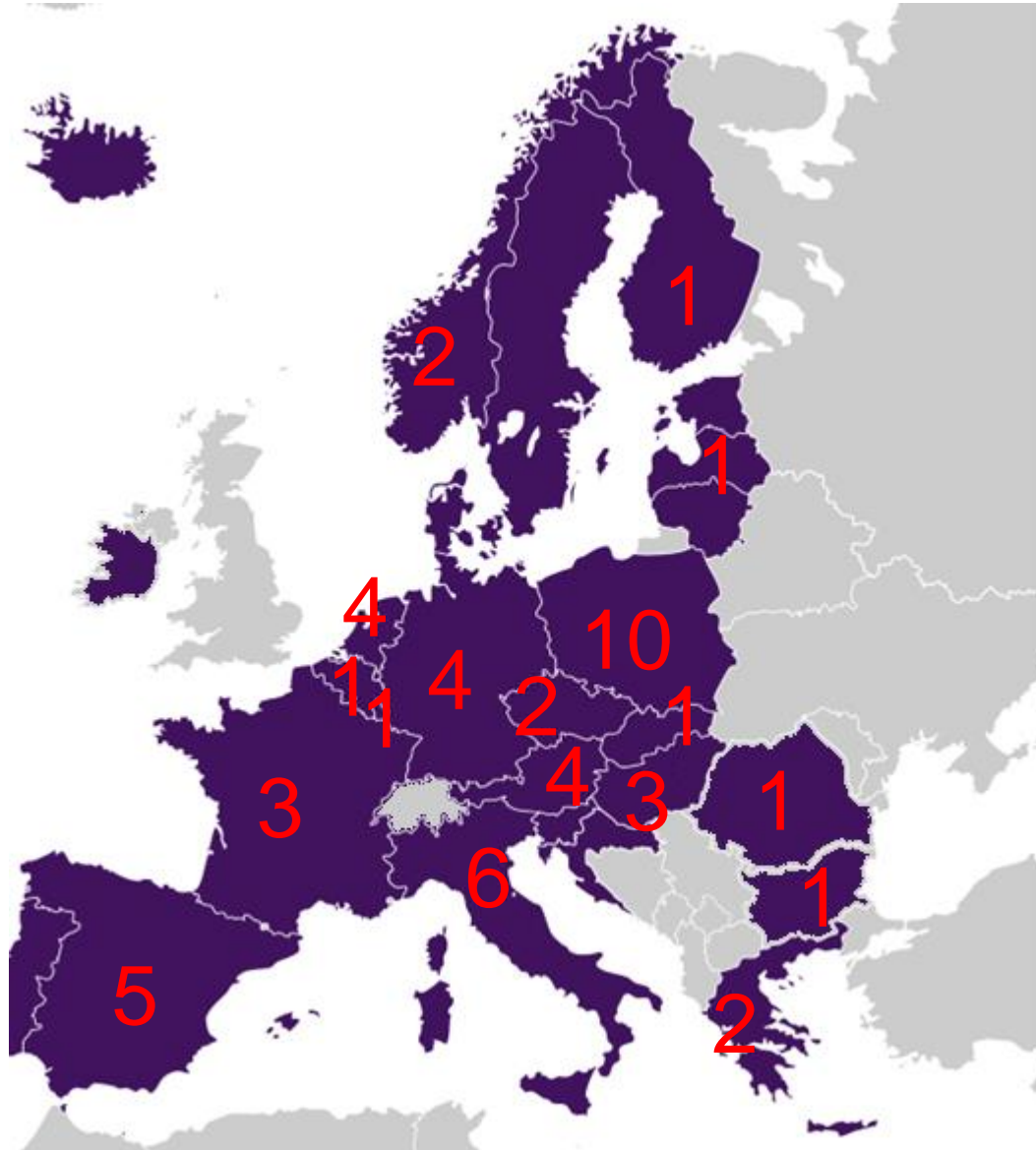


Coming challenges for the roll-out of ERTMS and how to handle the certification in an effective and efficient way.

# What is NB Rail?







# Number of CCS NoBo's in EU



TOTAL : 56

# Achievement improving efficiency and effectiveness NB Rail ?

 Supported by NB-Rail Association	<b>RECOMMENDATION FOR USE</b> <b>NB-RAIL COORDINATION GROUP</b> Administrative Decision according to Interoperability Directive (EU) 2016/797 art. 30.6	 Co-funded by the European Union
	Issue 12 Date 13/03/2023	
<b>RFU-STR-011</b>		
<b>TITLE</b> CONTENT OF THE NoBo-FILE AND OF THE NoBo-CONFORMITY ASSESSMENT REPORT		
<b>ORIGINATOR</b> STRATEGY SUBGROUP		<b>SUBJECT RELATED TO</b> (EU) 2016/797 AND ALL TSIs
<b>AMENDMENT RECORD:</b> Issue 12 (05/07/2022): General update to align requirements for NoBo File and NoBo Conformity Assessment Report. Issue 12 (13/03/2023): Correction of section referred in sections 4.2 & 5 of NoBo-File/CAR		
<b>DESCRIPTION AND BACKGROUND EXPLANATION</b>		
<b>Introduction</b> I. The NoBo shall perform conformity assessment (conformity assessment is the combination of evaluation and subsequent certification) of an Object of Assessment against the Basis of Assessment After that conformity		

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	Issue 03 Date 18/03/2020	
<b>RFU-CCS-067</b>		
<b>TITLE</b> HANDLING OF SUBSET-076 TEST SEQUENCES AND RESULTS		
<b>ORIGINATOR</b> Belgorail, TÜV SÜD Nederland, Certifer, RINA		<b>SUBJECT RELATED TO</b> TSI CCS 2012/88/EU and (EU) 2016/919 §6.2.4.1 amended by Regulation (EU) 2019/776. SUBSET-076-5-2, SUBSET-076-6-3
<b>AMENDMENT RECORD:</b> Issue 01: Creation on 05/10/2012 Issue 02: Amended on 21/10/2015 (aligned to the applicable CCS TSI) Issue 03: Amended on 18/03/2020 (aligned to the applicable CCS TSI)		
<b>DESCRIPTION AND BACKGROUND EXPLANATION</b>		
Manufacturers of the Interoperability Constituent (IC) "ETCS on-board" expect to have problem with the application of section 6.2.4.1 of the CCS TSI 2016 amended by Regulation (EU) 2019/776. Section 6.2.4.1 of the CCS TSI amended by Regulation (EU) 2019/776 requires that the Notified Body shall check that a specimen of the IC has passed the full set of mandatory test sequences referenced in Subset-076 and that these tests were carried out in an accredited laboratory! Since the Subset-076 is very complex, it has been detected that some difficulties in the interpretation of the test results may raise during test campaigns and certification processes. This because the configurations/options used when creating test cases or test sequences may differ from those being implemented by a specific supplier, e.g. different parameter settings, optional SRS requirements, different interface implementation etc. This difficulty is not originating from the Subset-076 but a		

→ **EFFICIENCY**

→ **EFFECTIVENESS**

# **Future & challenges**

**APPLICANT**

**ERA/ NSA**

**NOBO**

**MODULES**

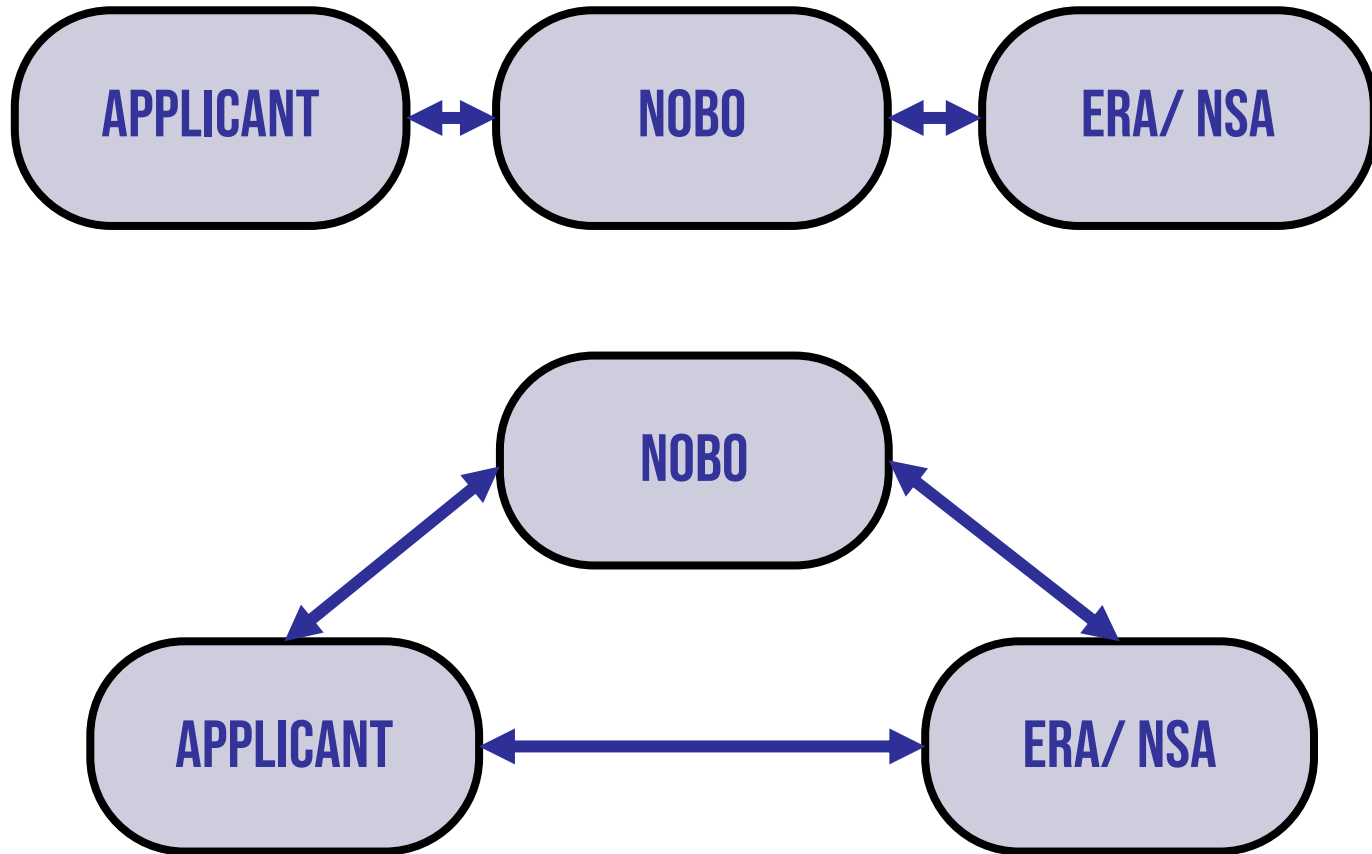
**TSI2023**

**ATO**

**FRMCS**

**ROLL-OUT ERTMS**

# Process of certification



# Applicant

→ CLEAR SCOPE INCL. OPTIONAL FUNCTIONS AND INTERFACES (GP,GA,SA)

→ CONTRACT NOBO AT START (PRE-ENGAGEMENT

→ SELECTION MODULE

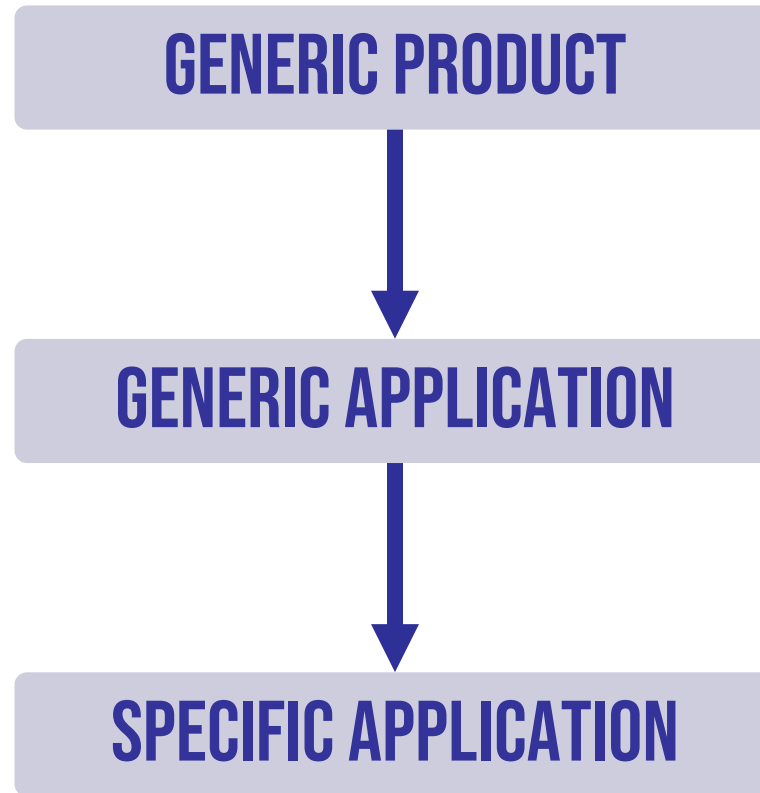
→ CLAUSE BY CLAUSE INFO TO NOBO (INCL. IC REPORTS)

→ REGULAR MEETINGS WITH NOBO AND ERA/ NSA

→ INFORM NOBO ABOUT UPDATE OF THE SYSTEM (ART 15 OF THE 2018/545)



# Different phases



# Modules

	Design & QMS	Design & testing	QMS production	Inspection	Design & inspection
Subsystem	SH1	SB	SD	SF	SG
IC's	CH1	CB	CD	CF	-

**B + D OR B + F**

**H1**

**G**

# How can the Infrastructure manager(IM) improve the process

**ESC AND RSC  
REDUCTION**

**CROSS  
ACCEPTANCE OF  
RESULTS  
ESC/RSC WITHIN  
COUNTRY AND  
ABROAD**

**REQUIREMENTS  
FOR FRMCS**

**REPORTS OF  
NOBO ALSO IN  
ENGLISH**

# **NOBO**

**SUPPORT THE APPLICANT BUT STAYING INDEPENDENT**

**KNOW-HOW OF LEGAL FRAMEWORK AND TECHNICAL NORMS**

**DIRECT CONTACT WITH ERA IN SUBGROUP CCS AND WORKING PARTY =>  
BETTER UNDERSTANDING OF TSI**

**PARTICIPATE IN MEETING APPLICANT/ERA/NSA**

**UPLOAD CERTIFICATES IN ERADIS**

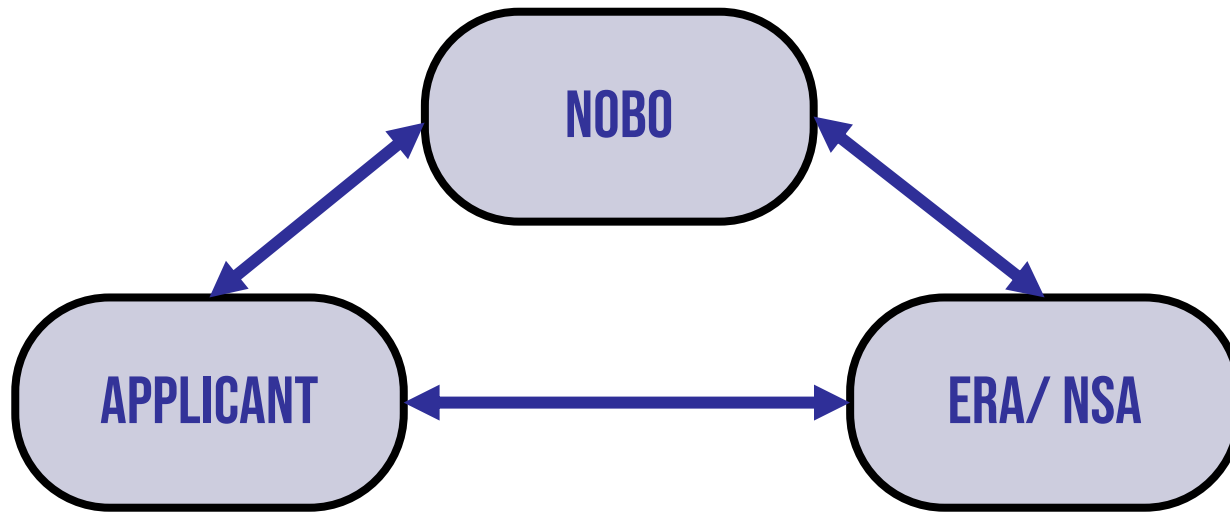
# ERA/ NSA

→ STABLE LEGISLATION → ALL INFO AVAILABLE AFTER A CHANGE

→ HANDLING NF AND CAR ALSO IN ENGLISH

→ PARTICIPATE IN MEETINGS WITH APPLICANT AND NOBO

# Roll-out of ERTMS





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**Thank you for your  
attention**

[www.NB-Rail.eu](http://www.NB-Rail.eu)