



Eisenbahn-Bundesamt

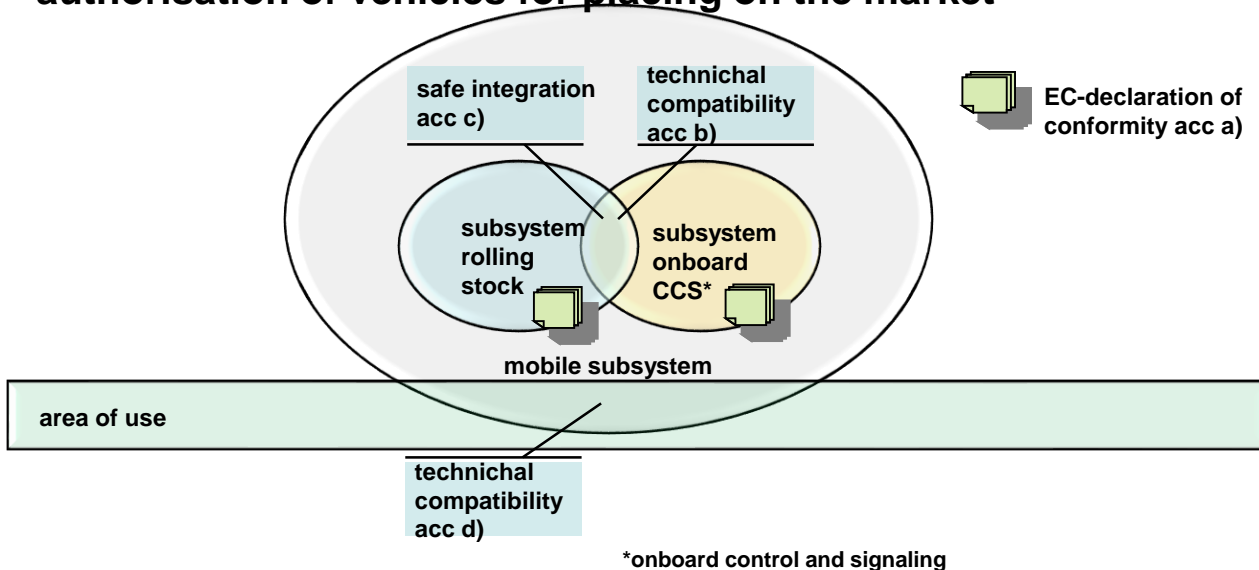
# *Vehicle authorization in 4<sup>th</sup> RP in Germany*

*7<sup>TH</sup> REGIONAL ERA WORKSHOP*  
**02.10.2019 in Budapest**



# Article 21 (3):

## authorisation of vehicles for placing on the market



**Implementing Regulation EU 545 / 2018  
establishing practical arrangements for the railway vehicle  
authorisation and railway vehicle type authorisation process  
pursuant to Directive (EU) 2016/797 of the European  
Parliament and of the Council**

**Guidelines for the practical arrangements for the vehicle  
authorisation process**

**TSI LOCPAS 2019, TSI WAG 2019, TSI CCS 2019, and other TSIs with e.g. definitions of basic design characteristics (bdc) and procedures for upgrade/renewal and type/variant/version**

**ERA TV 2019, RINF 2019**

**TSI OPE 2019 with e.g. parameters and procedures for route compatibility check after vehicle authorisation taking into account the authorisation file, ERA TV and RINF.**

## **general procedure (hasn't changed that much)**

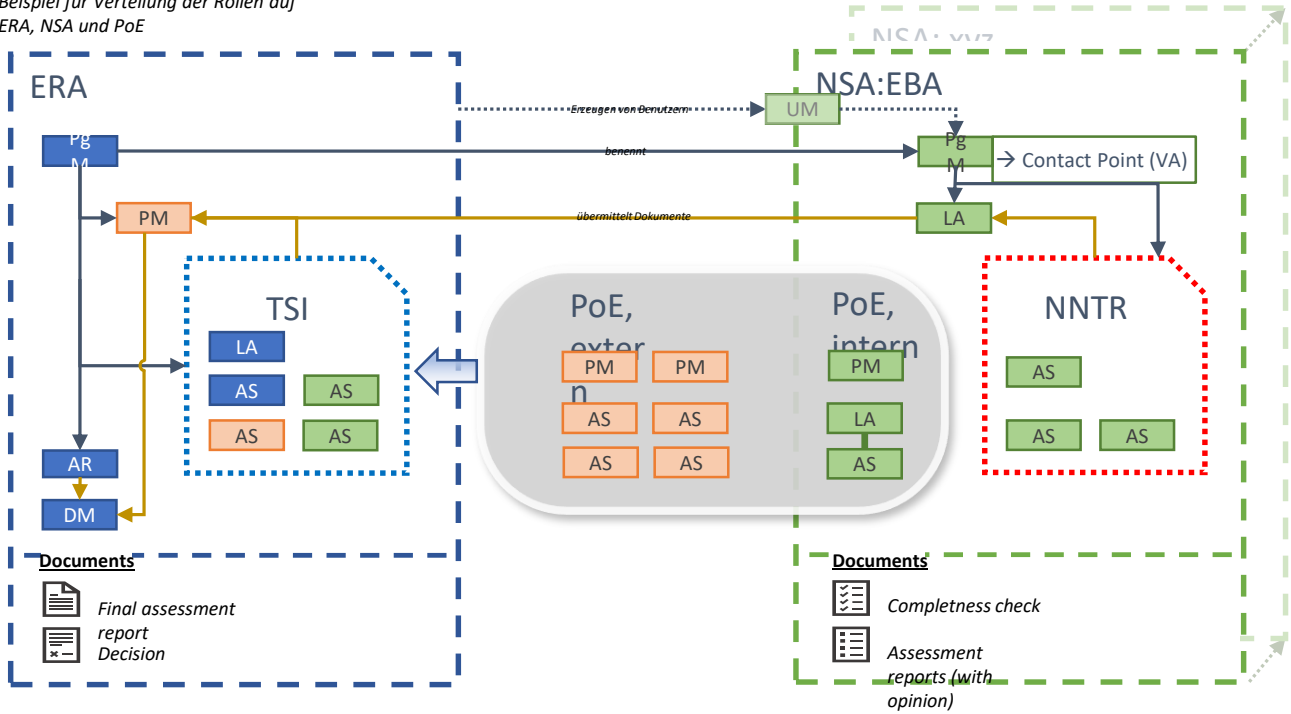
applicant / manufacturer designs and builds vehicles and sets up proofs and documents taking into account all information from current operation and authorisation / supervision processes

NoBo checks conformity zu TSIs, DeBo checks conformity to NNTRs,  
RAsBo checks proper use and results CSM RA

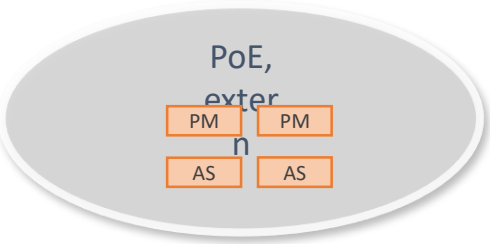
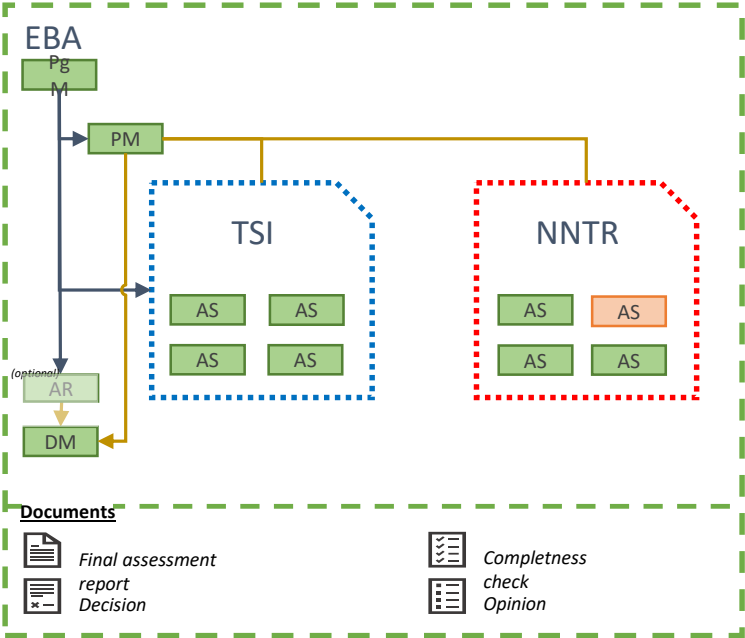
100% fulfillment of requirements leads to a fast and unrestricted authorisation for placing on the market

# ERA = Authorising Entity (AE) , EBA = Area of Use (AoU)

Beispiel für Verteilung der Rollen auf  
ERA, NSA und PoE



EBA = Authorising Entity (AE) , EBA = Area of Use (AoU)



# Former Learning Cases, Now Pre - Engagement

started end 2017

Participation of ERA in single or multinational vehicle authorisation projects

Former Learning cases are now followed as Pre Engagement

Current 11 authorisation cases new and upgrade; different project stages

including onboard CCS integration into vehicles

**Projects found;  
contents and details of parallel work in 3 RP and 4 RP are under construction  
in direction of full 4 RP**



# Learning Cases / Pre Engagement ERA with EBA

Project name	Applicant	Type authorisation (4RP terminology)
Thalys	Alstom F	NEW A. (ETCS & other) + extended aou
Regiolis - CEVA and FR-DE	Alstom F	NEW A.(FR, ETCS & other) + extended aou CH
EMU PKP 250	Alstom IT	Extended aou
EMU ICE 4	Siemens	NEW A. (ETCS + new config.) + extended aou
Loco VECTRON X4-E	Siemens	NEW A. (ETCS) + extended aou
EMU Mireo	Siemens	FIRST A.
Velaro D Class 407	DB (Siemens)	NEW A. (ETCS) + extended aou
TRAXX MS3	Bombardier	FIRST A. + Extended aou
EMU EC 250	Stadler CH	FIRST A. + Extended aou
EMU Talent 3 ÖBB	Bombardier AT	FIRST A + extended aou
ETR 610	Alstom IT	NEW A. (ETCS) + extended aou

## **experiences / frequently asked questions**

**known procedure of „requirement freeze“ / „time plan“ will be transferred into „pre - engagement“**

**known procedure of „serial authorisation“ for new and upgraded vehicles by registering them will be transferred into „authorisation in conformity to type“**

## **experiences / frequently asked questions**

**older „(serial) authorisation“ to be transferred into a „type authorisation“ followed by ERA TV entries**

**in clarification with ERA how this is foreseen and possible for**

- authorisations from different ages, even before any TSI or RP,**
- authorisations for new vehicles well as upgrade and renewal of vehicles,**
- already authorised areas of use have to be recorded,**
- all existing constraints, conditions of use or restrictions have to be recorded**

## **experiences / frequently asked questions**

**EBA has transferred a large number of valid serial authorisations into type authorisations by mid 2019 for GE wagons and multi country locos and entered them into ERA TV;**

**process ongoing and depending  
on before mentioned clarification**

**experiences / frequently asked questions**

**known procedure / cases of „first and variant authorisation“  
will be transferred into „authorisation cases“ using new  
definitions of „type, variant, version“**

**using the criteria as laid out in 2019 versions of  
TSI LOCPAS, TSI WAG, TSI CCS**

**experiences / frequently asked questions**

**known procedure of „onboard CCS type authorisation“ in advance of „vehicle authorisation“ to be transferred into „intermediate statements of verifications by NoBo and DeBo“**

**experiences / frequently asked questions**

**transition of running projects from old into new world  
according article 55 of 2018/545**

**OSS is ready since mid 2019, ERA is ready since mid 2019,**

**MS / NSA Germany will be ready by mid 2020**

**EBA has transferred 5 projects for GE wagons to ERA  
(3 new, 2 upgrades) by mid 2019**

**EBA / ERA have signed cooperation agreement in April 2019**

## **experiences / frequently asked questions**

**intermediate procedure when some MS are ready in 2019,  
some MS in 2020 is driven by current legislation,**

**some still under 3 RP, some already under 4 RP,  
using cross acceptance and cooperation agreements,**

**prepared e.g. by TFI group for D A CH I NL + ERA + applicants**



**experiences / frequently asked questions**

**known criteria for „upgrade and renewal“ were transferred into „2019 TSI RST and CCS criteria for type, variant, version“**

**to be counter checked by using the new criteria and procedure on real projects**

**applicants and EBA use the above mentioned TSI criteria already when setting up and deciding upgrade and renewal in current legislation**

**experiences / frequently asked questions**

**to facilitate using the new TSI criterias when setting up and deciding upgrade and renewal in current legislation**

**EBA has laid out a template on its website under**  
**[Kopie von Einstufung der geplanten Arbeiten.xlsx](#)**

**[https://www.eba.bund.de/SharedDocs/Downloads/DE/Fahrzeuge/Inbetriebnahme/EIGV/Vordrucke/Einstufung\\_der\\_geplanten\\_Arbeiten.xlsx?\\_\\_blob=publicationFile&v=6](https://www.eba.bund.de/SharedDocs/Downloads/DE/Fahrzeuge/Inbetriebnahme/EIGV/Vordrucke/Einstufung_der_geplanten_Arbeiten.xlsx?__blob=publicationFile&v=6)**

**experiences / frequently asked questions**

**known procedure for „network access“ after „APIS“ to be transferred into „route compatibility“ according 2019 TSI RST / CCS and TSI OPE“ after „APOM“**

**to be counter checked by using the new criteria and procedure on real projects**

**experiences to come**

**closer exchange between - sometimes of - staff ERA / EBA**

**working with detailed documents like EC declarations and certificates, technical files, restrictions and conditions of use**

**writing down the findings to contribute for a technical and juridical precise decision**

**thank you for listening**