



## FIRST CLASS ENGINEERING

Approval - Supervision by appraisers

# Company

About us

- Team with more than 110 employees at the locations **Basel**, **Bautzen**, **Chemnitz**, **Essen** and **Leipzig**
- More than **25 years** of market presence and specialisation in the rail vehicle sector
- Ensuring highest expertise in the redevelopment, modernisation or conversion of rail vehicles



# Company

Brief summary

**1992**

ESTABLISHMENT  
IKB Ingenieur- und  
Konstruktionsbüro  
GmbH

**2001**

ACCREDITION  
Surveyors &  
Welding Company

**2008**

OPENING  
Basel branch

**2003**

OPENING of  
branch  
Chemnitz

**2013**

INTEGRATION  
in Friedhelm  
Loh Group

1990

**1995**

ISO 9001  
CERTIFICATION

**2002**

RENAMING  
to CIDEON Engineering  
GmbH

**2008**

OPENING of  
Leipzig branch

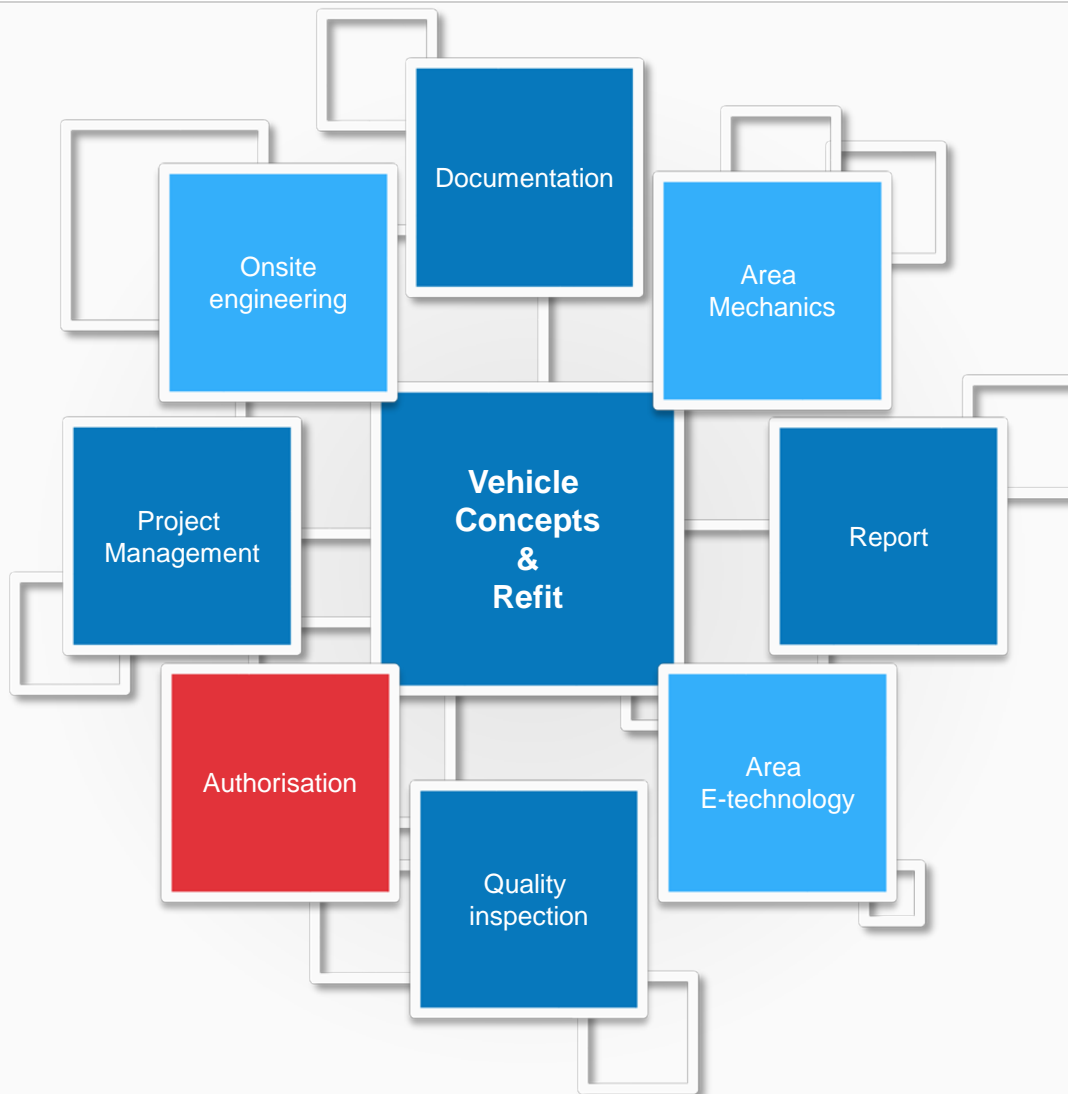
**2016**

INTEGRATION  
in CRCCE

2020

# Services

## Overview





Eisenbahn-Bundesamt

### Recognition as an Interim Designated Body by EBA(DE)

- Testing in accordance with NNTR and issuance of certificate

### ▪ Recognition as a Designated Body (BBS) by BAV(CH)

- Testing of vehicles in accordance with TSI Loc & Pas
- Verification of compliance by NNTV outside the TSI
- Issuing evaluation reports



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

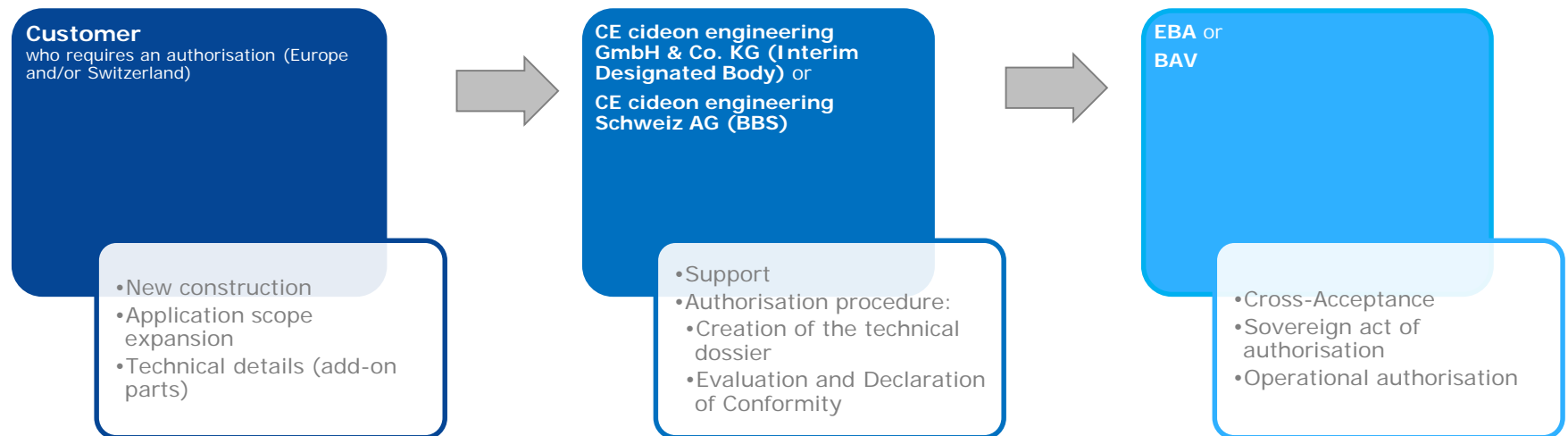
- **Support in the preparation of registration documents and / or supervision during the entire certification process**
- **Coordination with Notified Body (NoBo) for the European certification process**

- **Authorisation support**

- Agreeing on verification plans
- Generating authorisation documentation
- Test monitoring
- Review and evaluation of authorisation documents
- Coordination with experts
- Coordination with authorisation agencies  
(NoBo, Interim Designated Body, AsBo, EBA, BAV, BMVIT, TAB)

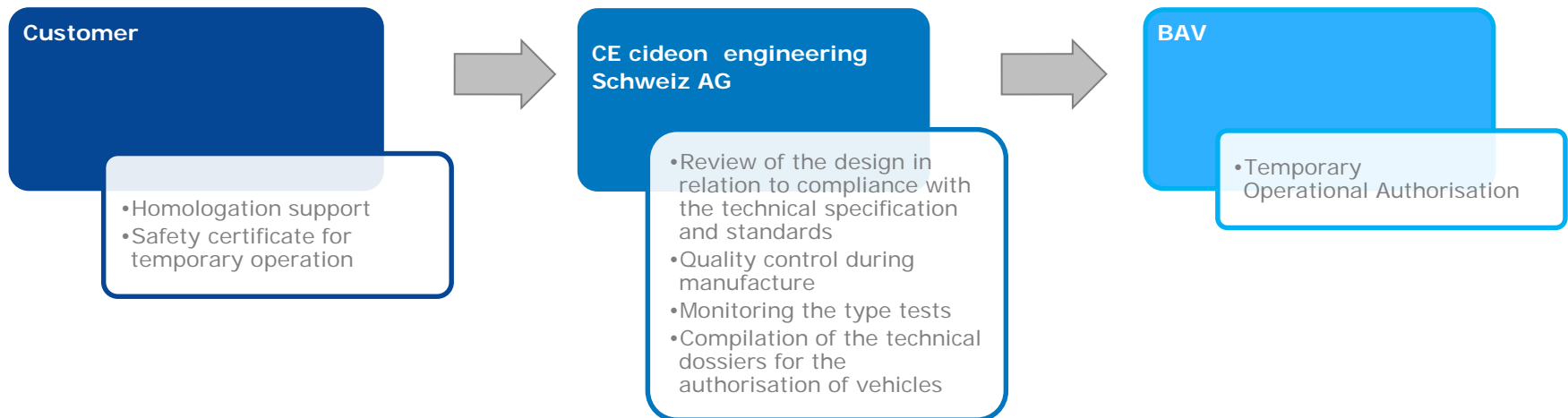


- **Authorisation TSI Loc & Pas** (technical specification for interoperability of locomotives and passenger cars)



- **Examination of the functional safety of the train control systems** (e.g. brake functions)

- **Experts' evaluations on safety according to CSM**
  - For example, analysis of safety, weaknesses, strengths
  - Coordination with EVU/TU to obtain the certificate and declaration of verification





# References

Project: Hamburg Cologne-Express | Customer: RDC Deutschland GmbH

## Requirements

- Support of customer for the EBA authorisation of the HKX vehicles
- Conversion support for existing vehicles

## Customer benefits



- Vehicles are allowed to run in Germany and Austria
- Unfortunately no utilisation of the vehicles

## Implementation

- First-time application of the "Memorandum of Understanding on the amendment of authorisation procedure for railway vehicles"
- Generation of the required NNTR documents
- Extension of the EBA authorisation to Austria



# References

Project: CD-Railjet | Customer: Siemens AG

## Requirements

- Authorisation of a vehicle variant of ÖBB-Railjet in Germany

## Customer benefits **SIEMENS**

- Vehicles are in use in the Czech Railways (CD)
- Vehicles are allowed to run in Germany **and** Austria

## Implementation

- Application of the "Memorandum of Understanding on the amendment of authorisation procedure for railway vehicles"
- Generation of the required NNTR documents
- Extension of the EBA authorisation to Austria



# References

Project: LIMEZ III | Customer: DB Systemtechnik

## Requirements

- Conversion of a VT614 to a clearance diagram measuring train
- Authorisation from EBA as ancillary vehicle

## Implementation

- Conversion design to adopt the necessary technology
- Calculations of statics and restriction
- Generation of authorisation documentation
- Submission to EBA

## Customer benefits *DB Systemtechnik*

- Vehicle is in use with the customer since 2006
- Cost saving through the use of existing vehicles



# References

Project: Vehicle transporter carriages | Customer: ARS Altmann

## Requirements

- Redevelopment of 2x2-axis, double-deck vehicles for the closed transportation of vehicles
- Integration into existing logistics concept of the customer (for example, loading terminal)

## Customer benefits



- Unrestricted use possible on almost all routes thanks to the compliance with the G1-profiles
- TSI authorisation allows international deployments
- G2-variant in the national transport offers higher capacity

## Implementation

- Design / Specifications
- Analysis of various loading options
- Design and calculation
- TSI authorisation support



# References

Project: Carrier vehicles DB emergency technology | Customer: Tatravagonka Poprad a.s.

## Requirements

- Design and calculation of carrier vehicles for DB emergency technology
- Modular construction for various applications
- Broad size range of the vehicle
- Deadlines
- Authorisation from EBA as ancillary vehicle

## Implementation

- Design / Specifications
- Design, calculation and test monitoring
- Authorisation support (verification plans, documents)

## Customer benefits



- Use of the know-how of CE as well as access to specialist areas of calculation, design and authorisation
- Authorisation from EBA as ancillary vehicle



# References

Project: MTR100 | Customer: Badische Gleisbaumaschinen GmbH

## Requirements

- Material transport vehicle with 100 t load capacity
- Possibility of reversible bulk freight transport
- Design for various requirements using a modular principle
- Authorisation for G2-profile
- Authorisation from EBA as ancillary vehicle

## Implementation

- Generation of authorisation documentation
- Submission to EBA

## Customer benefits



- Authorisation support with EBA as ancillary vehicle according to EBO §32
- Authorisation procedure in accordance with the "Memorandum of Understanding on the amendment of authorisation procedure for railway vehicles"
- Preparation of authorisation from BAV



Thank you for your attention!



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