



E.C.O. Group

Who we are ?

19 May 2022



DB

2

Topics

- Our group: Deutsche Bahn
- DB Engineering & Consulting Who we are
- DB Engineering & Consulting Design Center Romania
- Design Center Romania Development Opportunities



Our group

Deutsche Bahn

On 33,300 kilometers more than 25,700 bridges and 750 tunnels in the railway network of the DB

Around **4.6 million** passengers a day on trains and buses in Germany

336,000 employees

around the globe

On weekdays over

1 million metric tons of goods by rail in Germany and Europe

5,700 stations

in Germany



Our group

The DB history

1835

The beginning: Rail line connecting Nuremberg and Fürth with the steam train "Adler"

1933

First DMU trains from Hamburg to Berlin

1991

With the ICE (Inter City Express) starts the first regular high-speed traffic in Germany

2002-2010

Various acquisitions, i.a. Arriva, BAX Global, NS Cargo, DSB Gods, Spain-TIR, Romtrans ...

1920

German Imperial Railway (Deutsche Reichsbahn) established



and Deutsche Reichsbahn

1994

Deutsche Bundesbahn and Deutsche Reichsbahn merge to form Deutsche Bahn AG

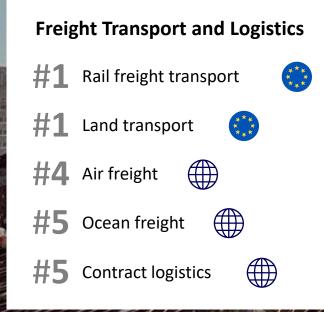
TODAY

A leading international mobility and logistics company



Our group

Top market positions – in Europe and worldwide



Infrastructure

*** * * ** **#1** Rail infrastructure

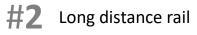
#1 Operation of rail stations

Passenger Transport

#1	Regional and local rail
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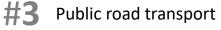


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Data as of Dec. 31, 2020



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Who we are

What we offer

Advising, designing and implementing infrastructure projects, from the idea to operations.

Economic and environmental aspects always taken into account

185 years of rail expertise

and subman and the subman

Den and the reaction

Cutting-edge

UNITED OF THE PARTY OF THE

technologies and construction

Always the right solution -

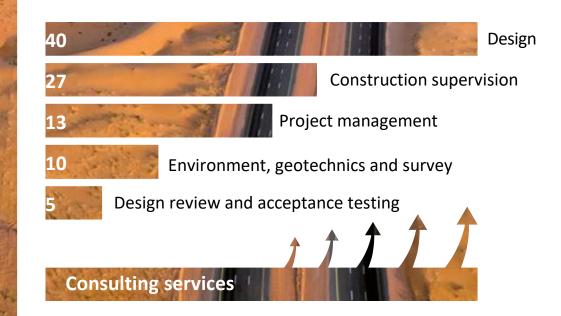
for individual jobs and large-scale projects alike



5,800 employees from 84 countries for all technical disciplines

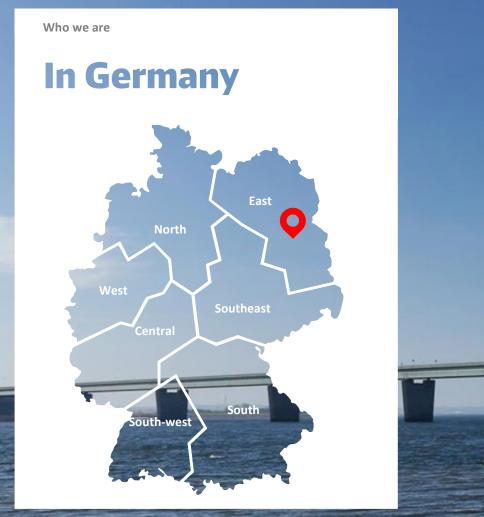
Who we are

Our specialists



Functional percentage of production staff, 5 % other (as of March 2021)





7 regions with more than 80 locations

Headquarters Berlin

DB Engineering & Consulting | 2022



Represented on every **CONTINENT**

Projects in over **100 countries** since **1966**

DB Engineering & Consulting | 2022

Who we are

Worldwide



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CENTRUL DE PROIECTARE DB IN ROMANIA DESIGN CENTER ROMANIA





German Market Insight



Signalling design



70 Engineers Various Specialties

Transport infrastructure planning



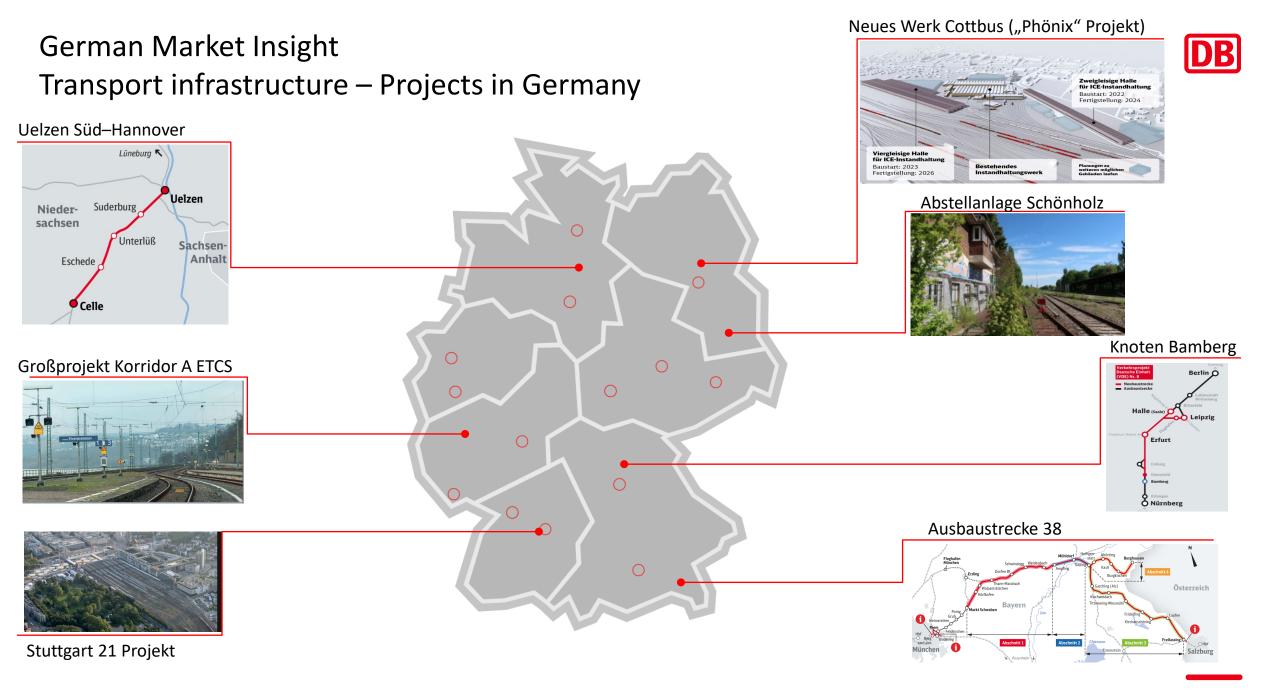
Bridge design



Buildings & Stations design



New construction, Rehabilitation, Demolition? We plan that for you! We offer support to the German regions.



German Market Insight Bridges & Structures Design – Projects in Germany





Lärmsanierung S4 Hamburg – Altona Entwurfsplanung



Rhein-Ruhr-Express BIM Lärmsanierung Lph2



S11 Bahnhof Köln Messe BIM Planung Lph2



Berlin

Dresden



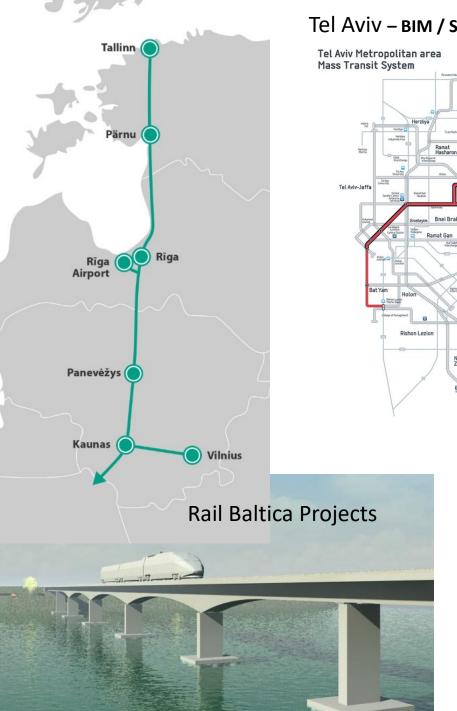
Erneuerung 4EÜ Großenhain Genehmigungsstatik Bauform: Rahmenbrücke, Stützweite zwischen 8-16m



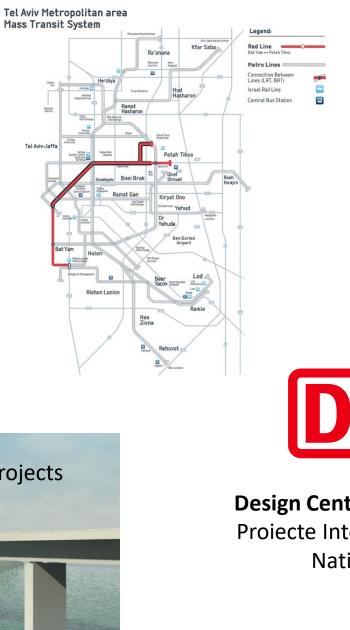
RC 2018 EÜ Flutbrücke Ausführungsplanung Bauform: Rahmenbrücke, Stützweite ca.30m



Ersatzneubau EÜ Rude -Ausführungsplanung Bauform: Stahltrog, Stützweite ca.43m



Tel Aviv – BIM / System integration







Design Center Romania -Proiecte Internationale si Nationale

Rail Baltica Projects

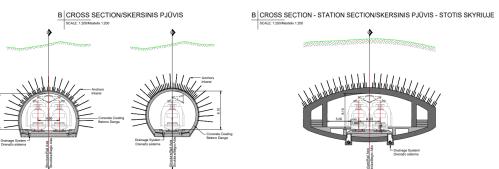
of Rail Bartica

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Kaunas-Vilnius (Lithuania)







Riga Main Station – (Latvia)

BIM Excellence Rail Baltica Projects

Rail Baltica

May 2022 | Bucharest

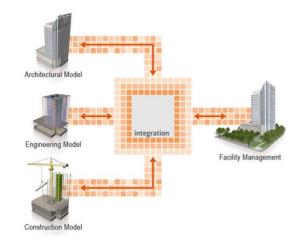
BIM – Building Information Modelling

Building Information Modeling (BIM) is an intelligent 3D model-based process that gives architecture, engineering, and construction (AEC) professionals the insight and tools to more efficiently plan, design, construct, and manage buildings and infrastructure.

Operation Preparation Construction Tendering

3D, 4D, 5D, 6D BIM

3D + scheduling = 4D4D + cost = 5Dmaintenance = FM 5D + FM = 6D

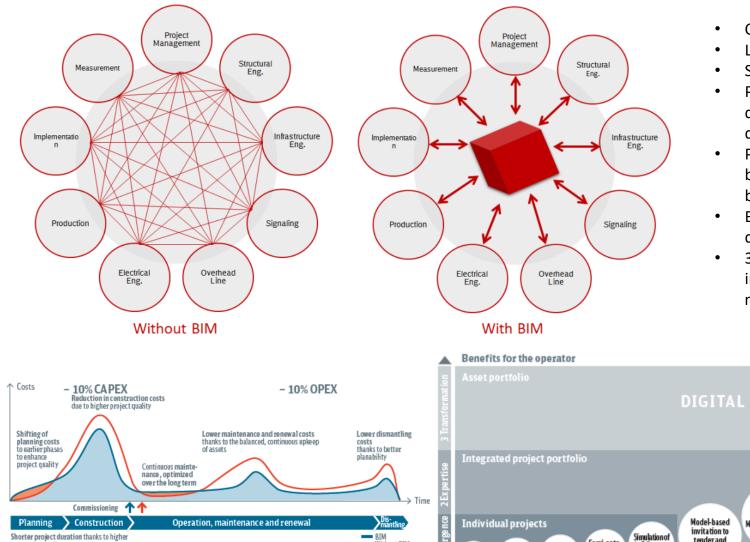


BIM = Project



BIM Advantages





- Collaborative design
- Life centric approach
- Single source of truth
- Preventing possible conflicts during building directly in the design phase
- Possibility to track costs during building and compare it to the baseline from design
- Better understanding of the designed solution from the client

Optimization of

operation and maintenance

Automate d

condition

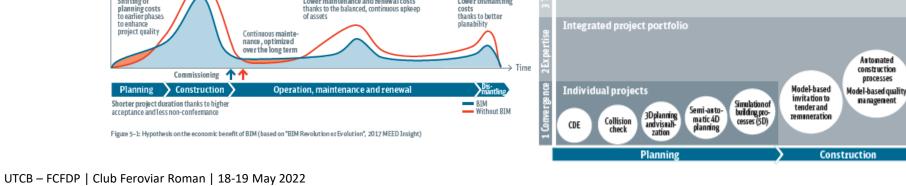
measurement

Operation

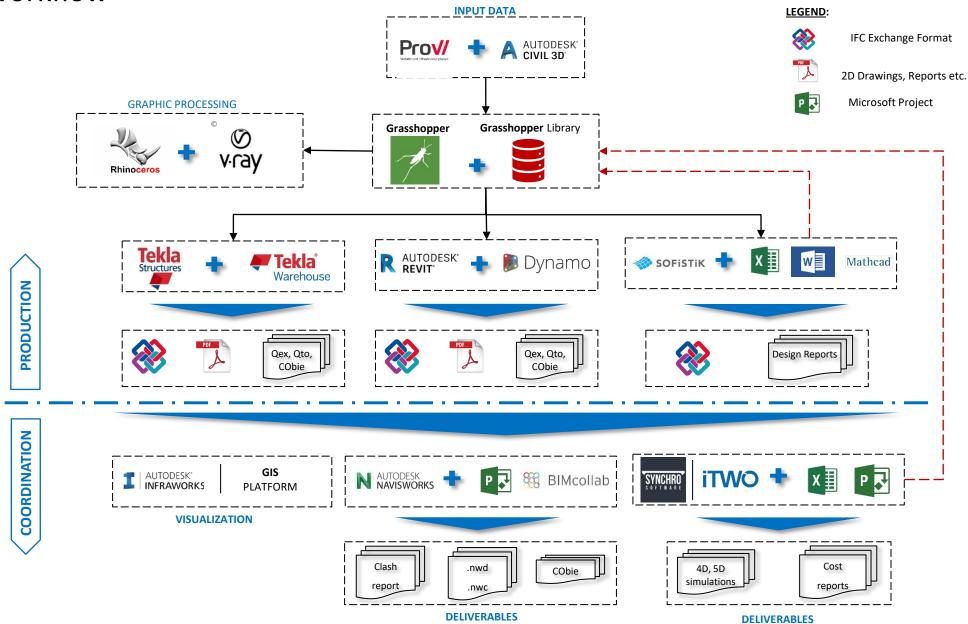
 3D model with all the information inside, basis for maintenance and operation

Execution

as a "digital twin"

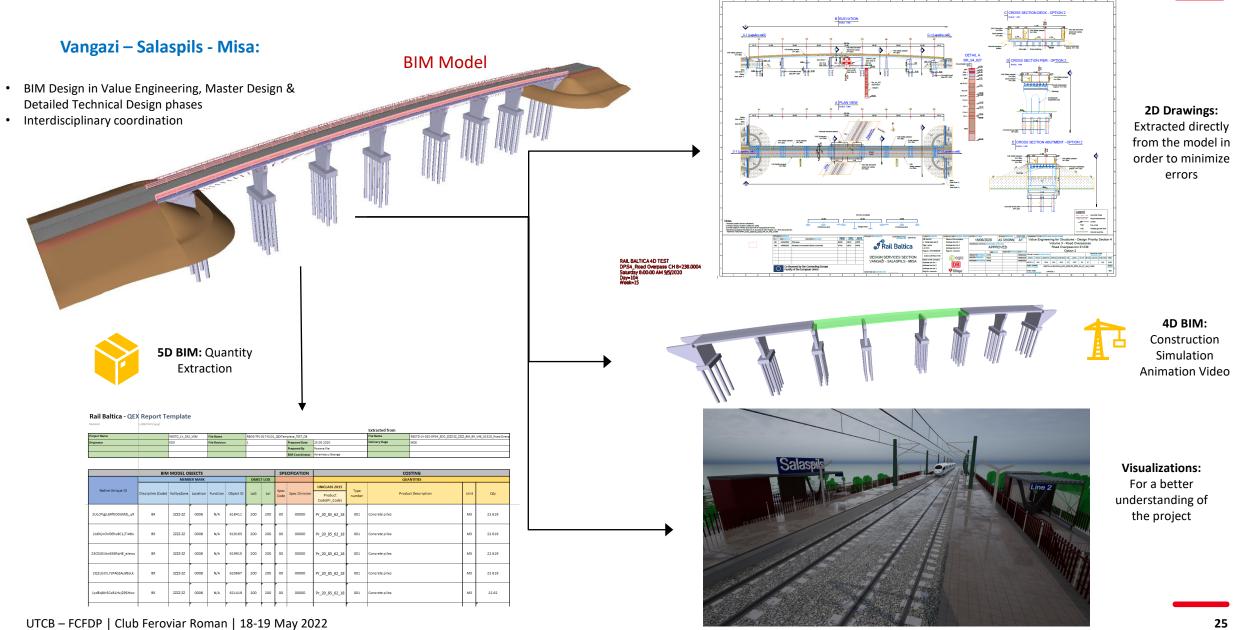


BIM Workflow



BIM for Rail Baltica







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28

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Dezvoltare profesionala - oportunitati

Cursuri de formare profesionala / perfectionare, intern / extern

- Cursuri de Limba Germana
- Cursuri de Limba Engleza
- Experienta Internationala / Nationala
- Deplasari internationale
- **Program flexibil**

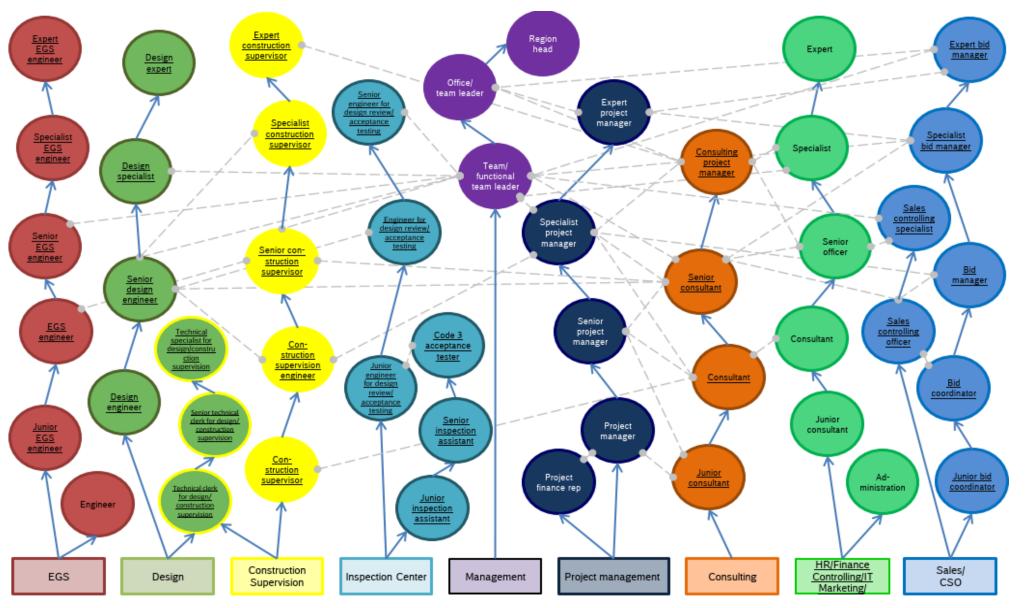
UTCB - FCFDP

Regim lucru hibrid

Jub Feroviar Roman | 18-19 May 2022

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Dezvoltare profesionala



DB Engineering & Consulting

DB

Job Openings within DB E&C – Design Centre Romania





Multumim pentru atentie !



CONTACT

- Asteptam aplicatiile voastre pe site-ul nostru de cariere:

https://jobs.deutschebahngroup.careers/en_US/jobsGlobal/SearchJobs/?3_387_3=235157&3_388_3=108523

Contact DB Engineering & Consulting Bucuresti
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