



Project Neues Werk Cottbus

InnoTrans 2024

DB AG | Digitalisierung und Technik | DB Fahrzeuginstandhaltung GmbH

A two-hall concept to cover the overhaul requirements for the ICE 4. Our vision: The fastest plant for the most modern train.

- 1 **Hall 1** | Four-track maintenance hall with painting track, warehouse and repair shops

Start of operation: 2026

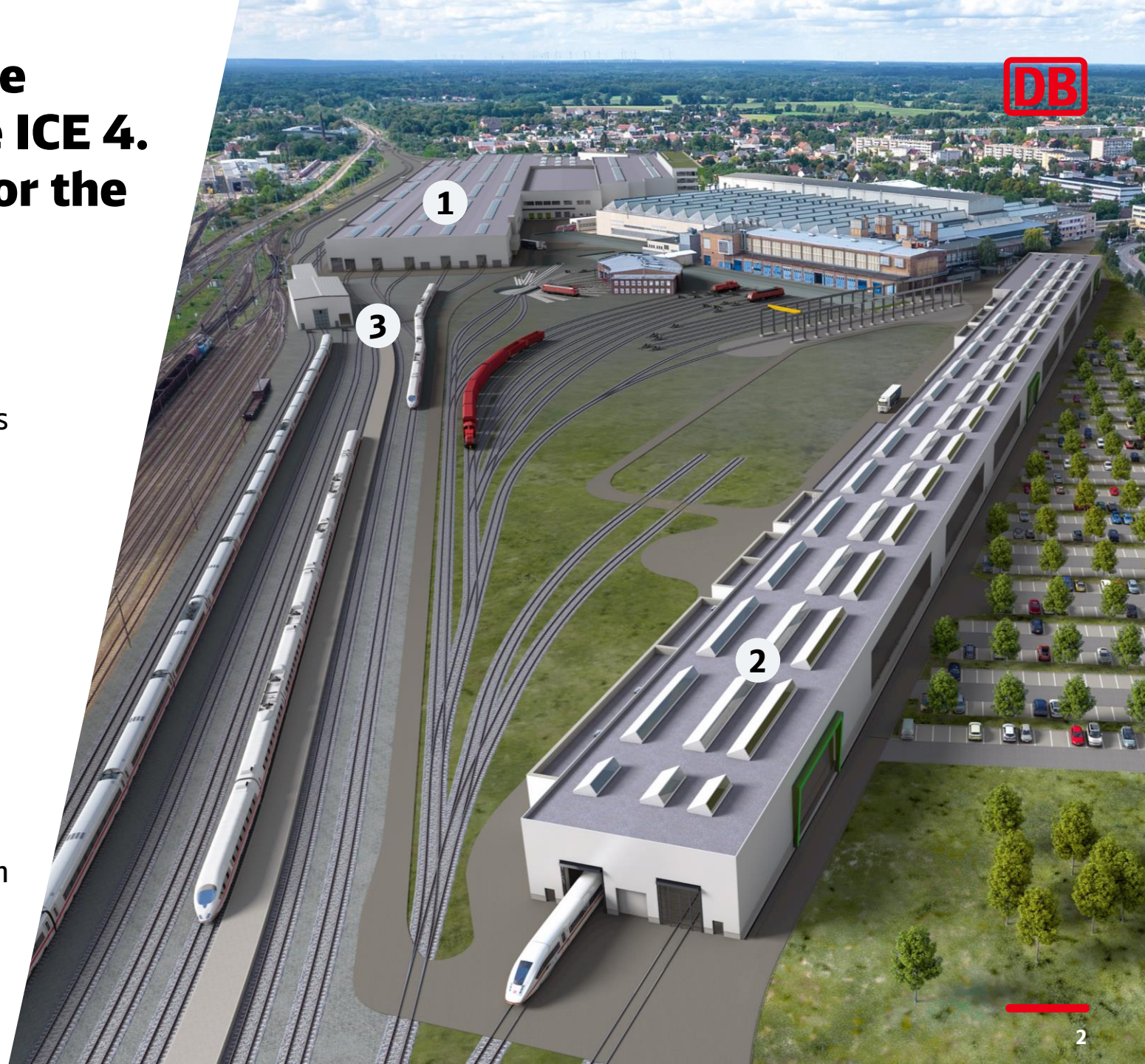
Length: 526 m
Width: 200 m
Height: 22 m

- 2 **Hall 2** | Double-track maintenance hall

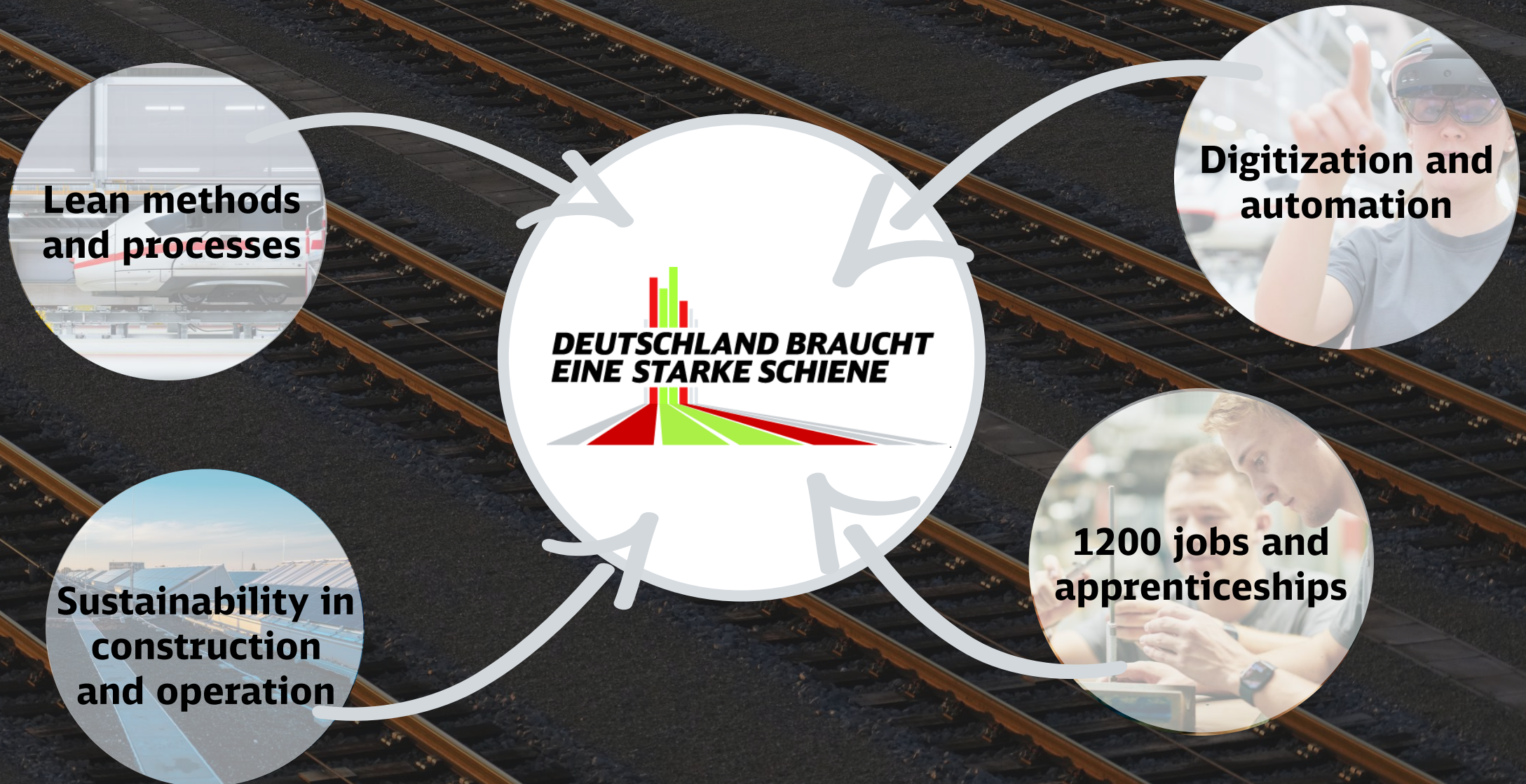
Start of operation: January 2024

Length: 445 m
Width: 33 m
Height: 11,5 m

- 3 Siding tracks and buildings for downstream maintenance



Our contribution to the roof strategy „Strong Rail“ of Deutsche Bahn AG



**The new plant is creating future prospects
for the people of Lusatia, a region
affected by structural change**





The processes are in the foreground and have defined the infrastructure

Our contribution to the roof strategy

-52%

Turnaround time*

-48%

Production hours*

+14%

Productivity*

*Compared to the infrastructure used so far (12-part ICE 4, IS600)

VR and AR used for process work instructions, training and support from other maintenance locations



„Don't touch anything...“

Automation replaces heavy work, high personnel deployment, and increases productivity



Autonomous crane truck with remote-controlled transport mounts for the exchange of bogies

The infrastructure has been designed with the goal to minimize the duration of stay of any train in the factory

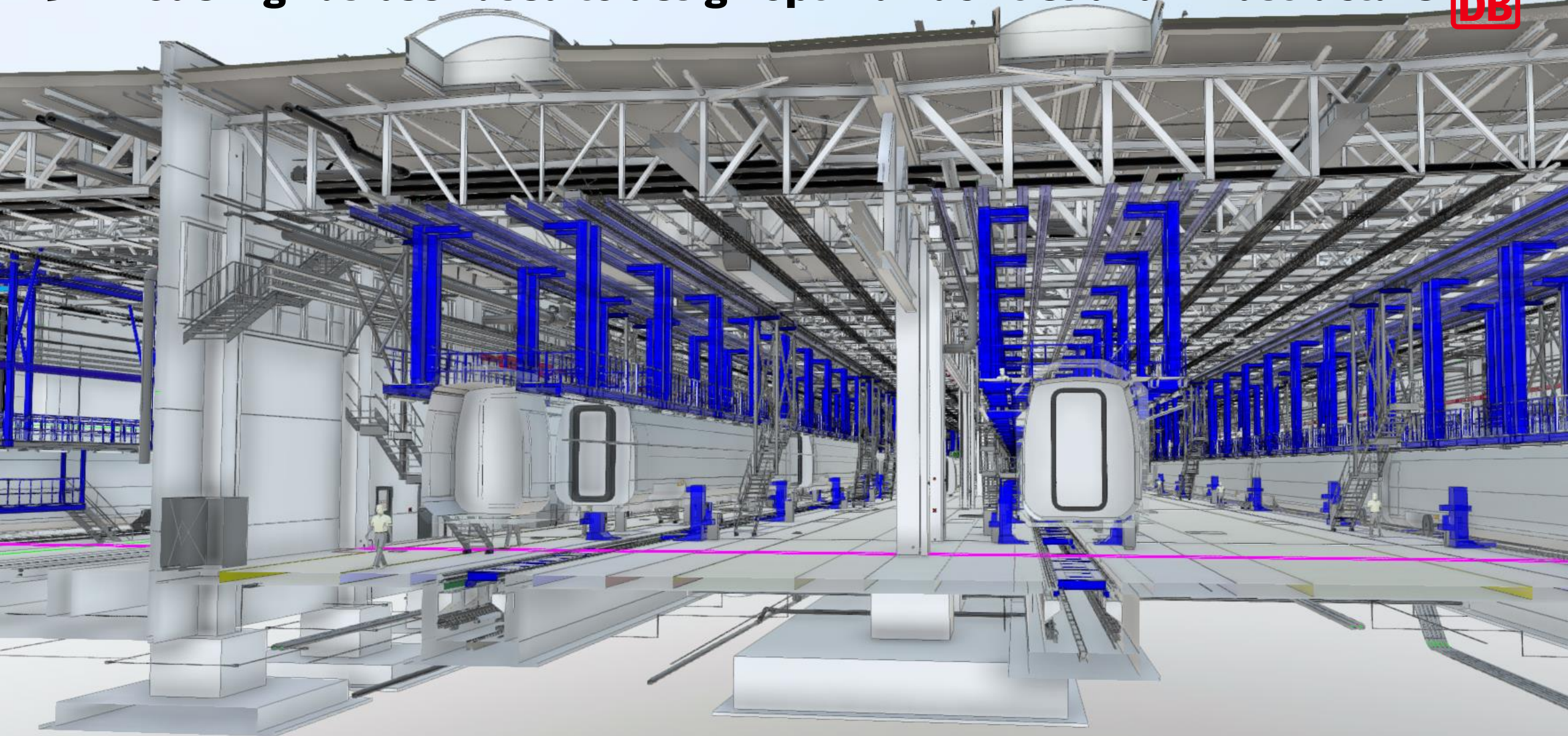


Measuring devices for wheel contact forces in number of wheels of a 13-part ICE 4 (106 pcs.)

Milestones Project NWC

- **01/22** Signing of Alliance agreement
- **05/22** Groundbreaking ceremony hall 2
- **03/23** Start interior work und mechanical eng. sys. hall 2
- **01/24** Start of production hall 2
- **03/24** Symbolic groundbreaking ceremony hall 1
- **05/24** Installation of the first pillar hall 1
- **09/24** Start of roof covering hall 1
- **10/26** Planned start of production / test operation hall 1

3D modeling has been used to design optimal facilities and infrastructure



Sustainability

The DB takes a holistic approach to sustainability, guiding the green transformation of the company and its social responsibility. The new maintenance plant in Cottbus is contributing to this transformation and to achieving the Group's climate targets.



By using 'green' concrete, the CO2 emissions generated during concrete production can be reduced by up to 30%



Photovoltaic systems on hall roofs to cover part of the power consumption



Delayed rainwater infiltration via infiltration trenches to return the water to the water cycle



Nature and species conservation measures such as providing new habitats for sand lizards and bats

Our partners in construction management



Client: **DB Fahrzeug-
instandhaltung GmbH**

Planning Partner 2:
Arcadis Deutschland GmbH

Planning Partner 1:
**Planungsbüro Baumert und
Peschos**



Transportation systems/civil
engineering/railway equipment:
Rhomberg Bahntechnik GmbH

Building construction, hall
construction, foundations,
concrete: **Wayss & Freytag
Ingenieurbau AG**

Technical building equipment:
ENGIE Deutschland

Logistic: **LOGSOL GmbH**

