



# 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

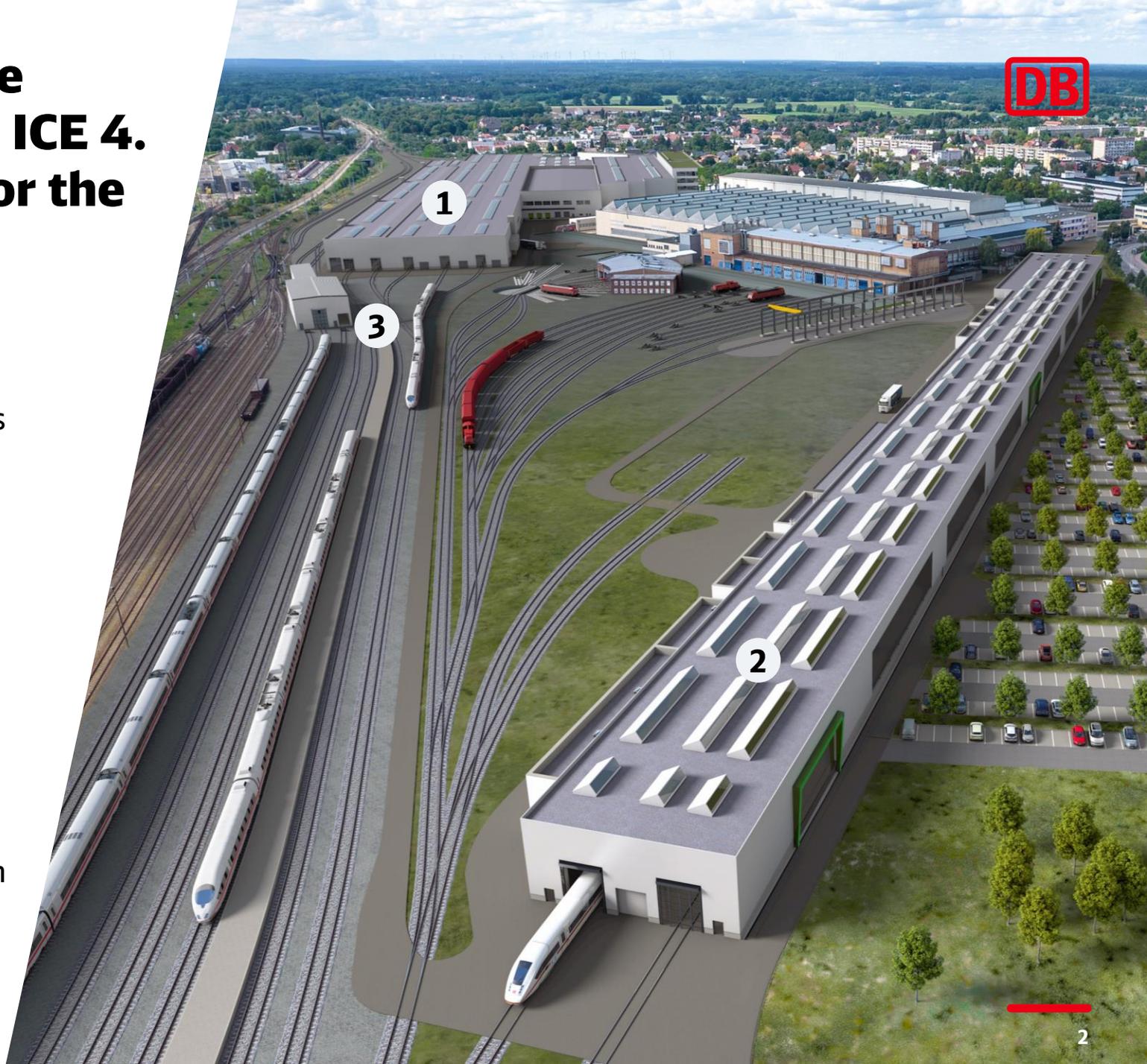
**Start of operation: January 2024**

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



**Lean methods  
and processes**



**DEUTSCHLAND BRAUCHT  
EINE STARKE SCHIENE**



**Digitization and  
automation**



**Sustainability in  
construction  
and operation**



**1200 jobs and  
apprenticeships**

**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



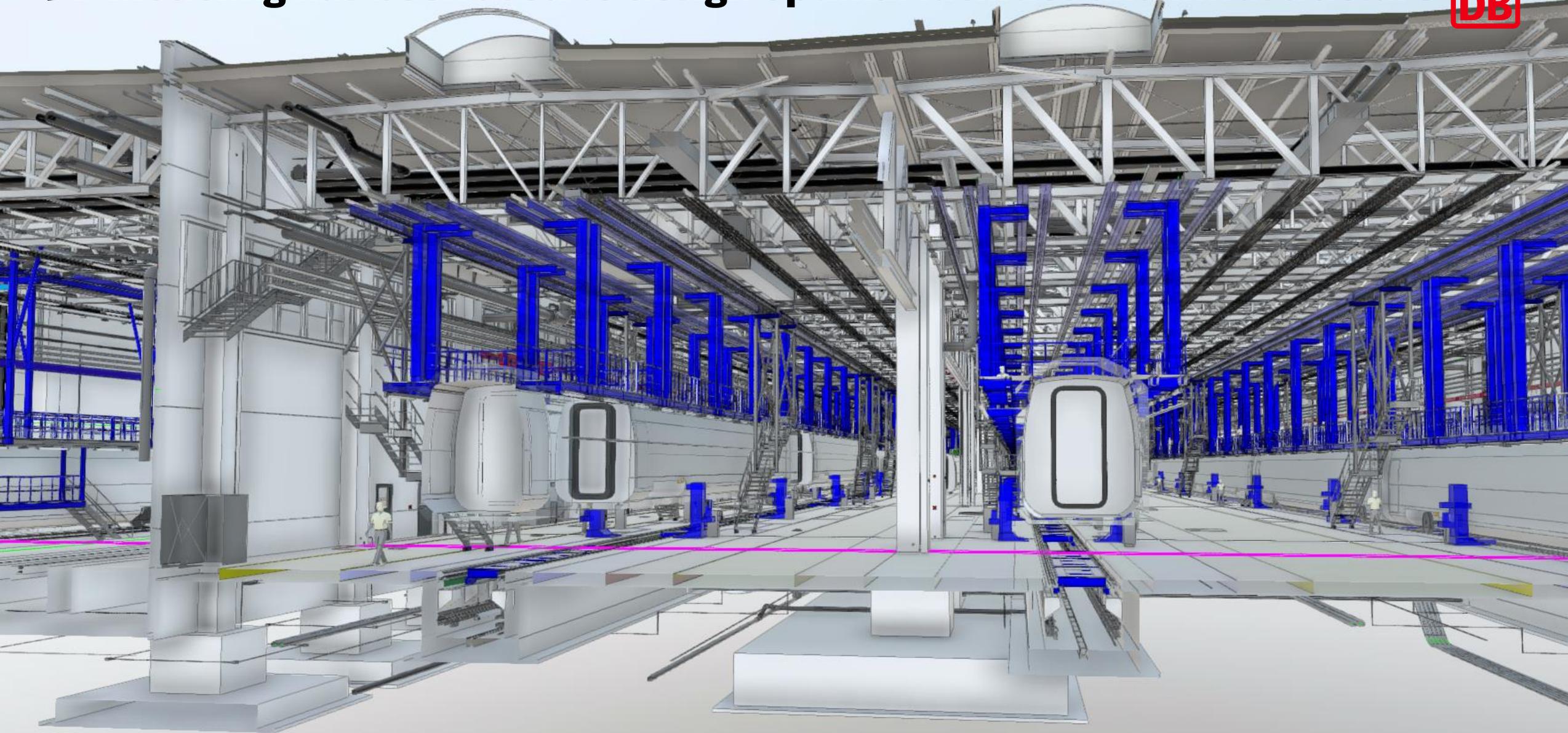
Measuring devices for wheel contact forces in number of wheels of a 13-part ICE 4 (106 pcs.)

# 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**

