

# SMART STATIONS IN SMART CITIES

6<sup>th</sup> International Conference on Railway Stations

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## Station Green The sustainable station building of DB

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2a Smart Design

UNDER THE HIGH PATRONAGE OF



**I.SBO the architects of DB**

**5.367** Stations in use

**1.500** Stations with station building

**15,4 Mio.** Travellers per day

**3 Mrd.** Travellers and visitors per year

**5.093** employees

**1** architecture office

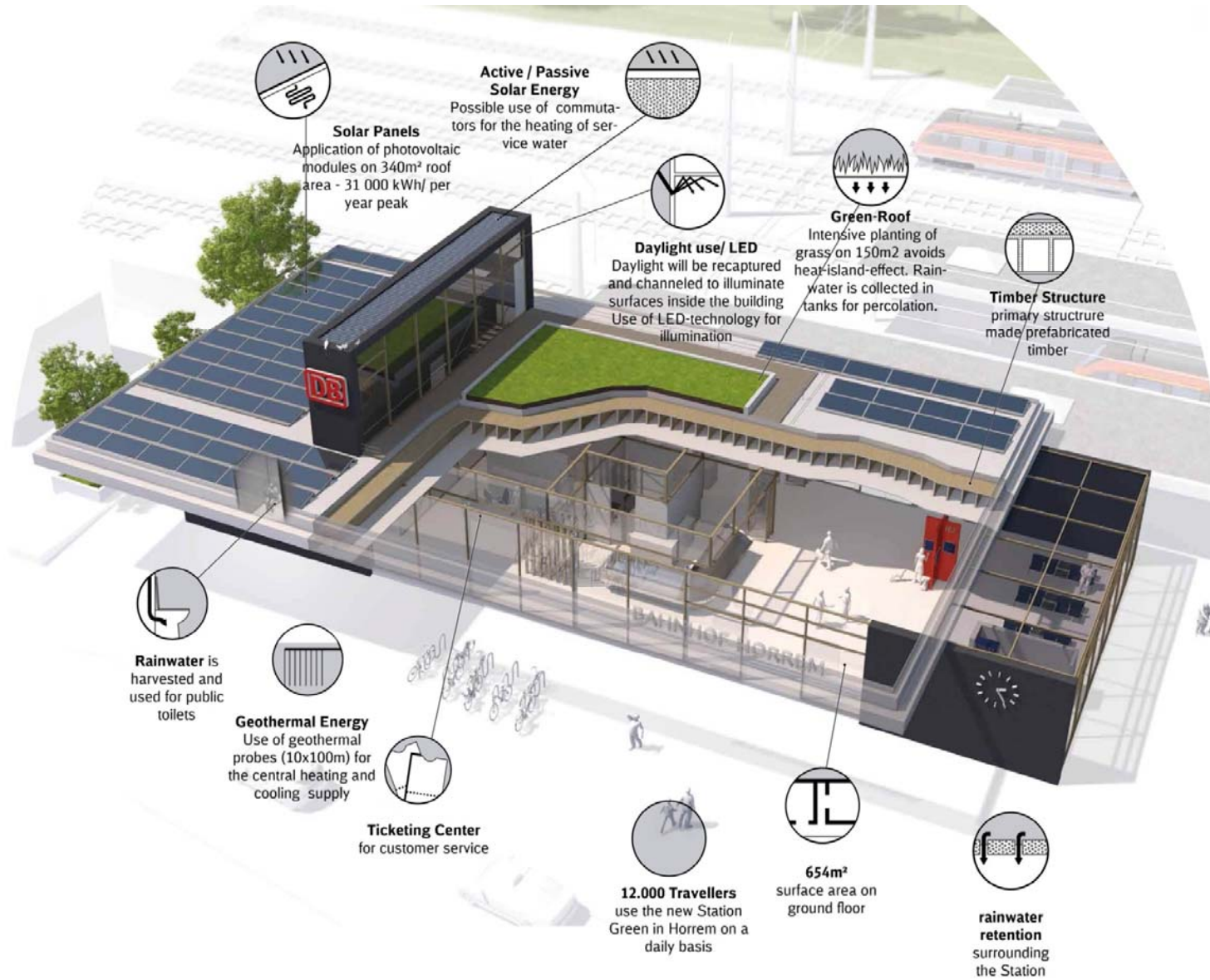
Hbf Düsseldorf Aufzug Bundespolizei Hbf Duisburg Neubau Gleishalle Bf Hildesheim Neubau Empfangsgebäude Bf Hildesheim Neubau Empfangsgebäude uPia München Hauptbahnhof

Bf Hammerstein Stumpfstraße Bf Hammeln Hauptbahnhof Bf Berlin Gesundbrunnen Neubau Empfangsgebäude uPia München Hauptbahnhof

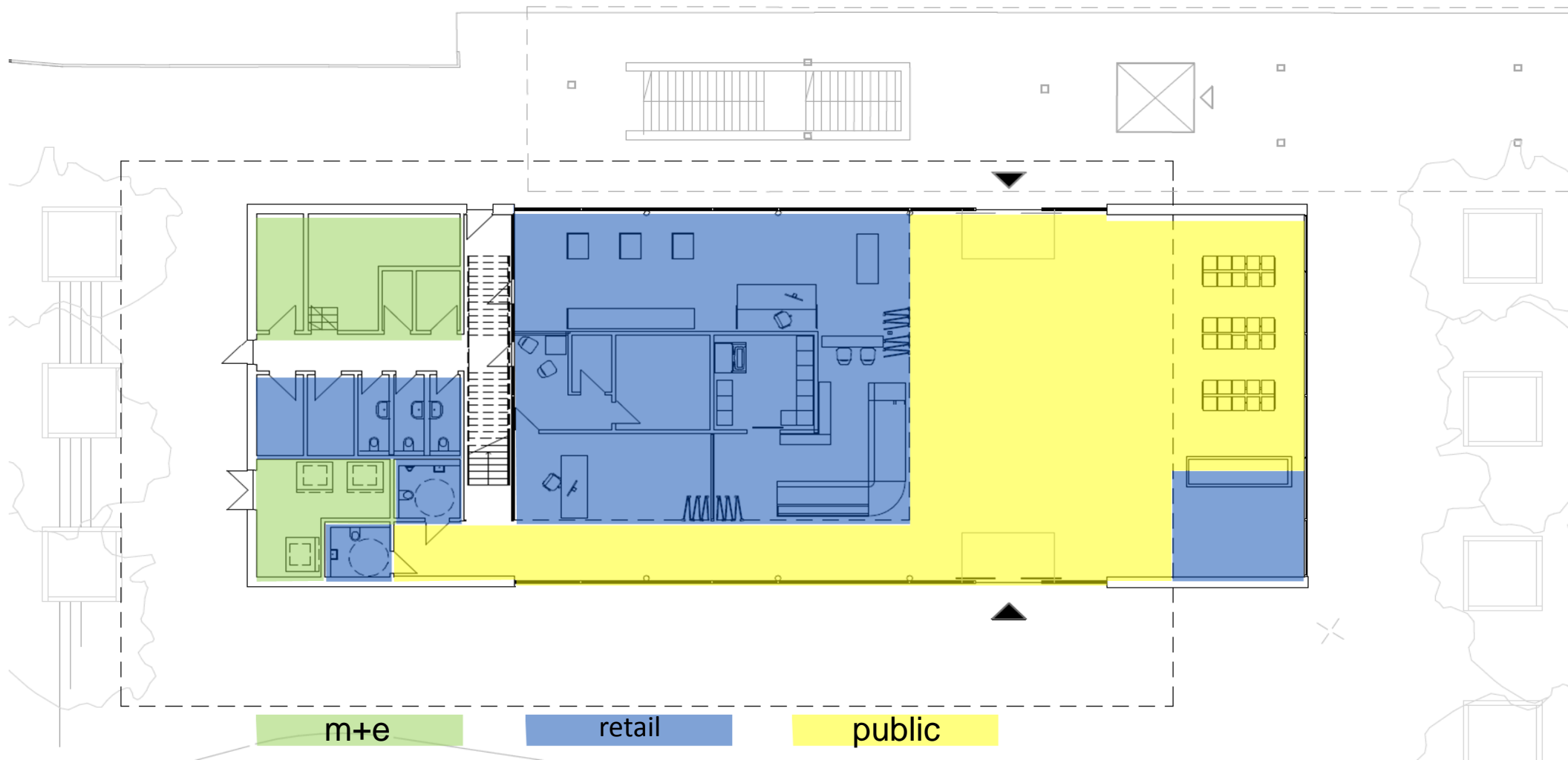
Hbf Nürnberg Neubau Empfangsgebäude Bf Berlin Zoologischer Garten Zooterrassen Bf Heidelberg Modernisierung Empfangsgebäude Hbf Duisburg Neubau Gleishalle

Standard Station Studie Hbf Braunschweig Studie Umfeld Bf Hamburg Altona Modernisierung Verteilerebene Warten 21 Pavillon Bf Südkreuz DB Info Terminal

# The Components



# Station Green Horrem



m+e

retail

public

## Station Green Horrem



90 t wood (primary construction)  
...and mere 25 t steel!

## Station Green Horrem



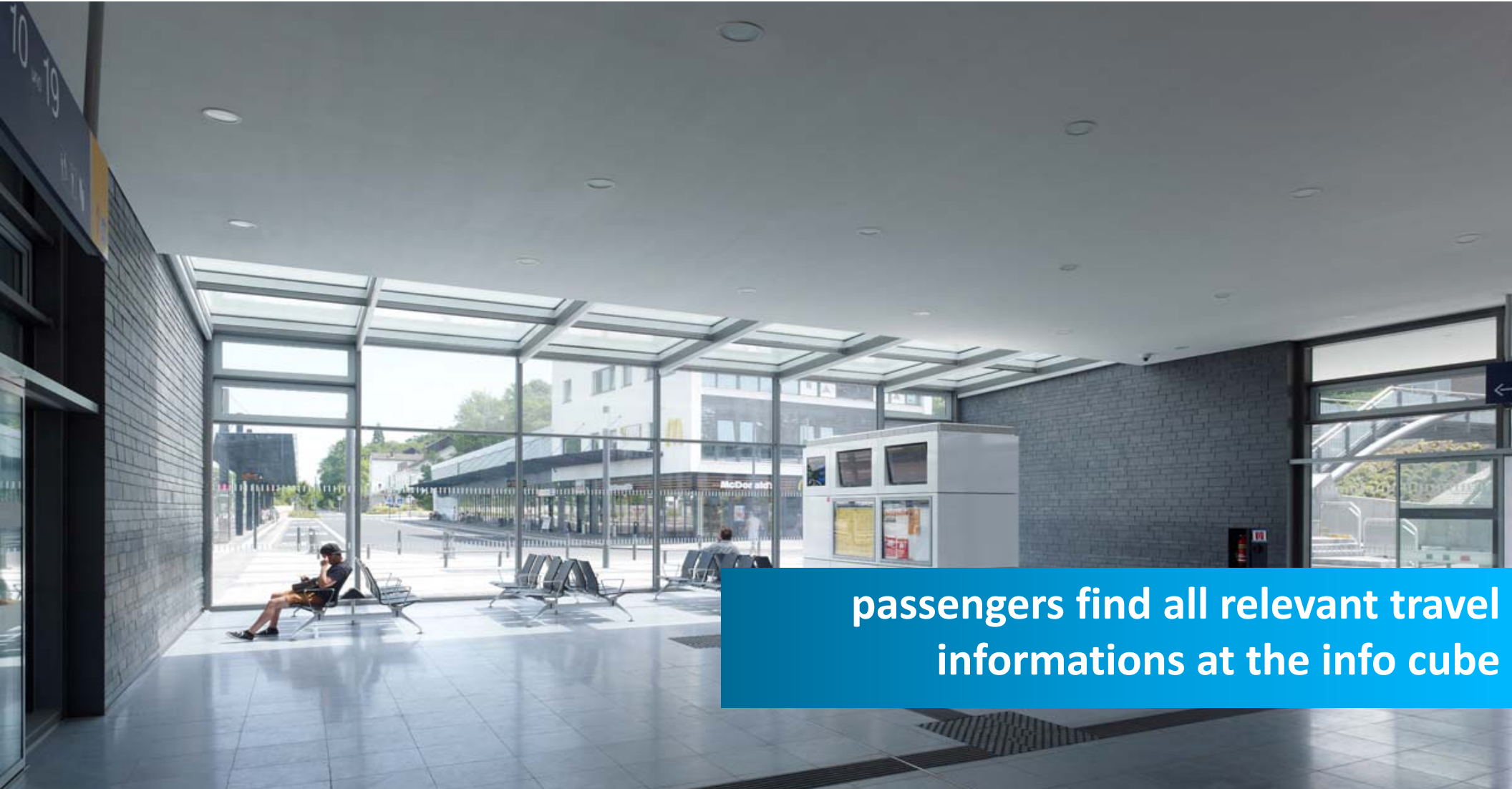
**use of renewable materials  
and use of materials with good  
recycling qualities**

## Station Green Horrem



**162 PV-modules produce 40.5 kWp  
respectively 31000kWh/a**

## Station Green Horrem



**passengers find all relevant travel informations at the info cube**

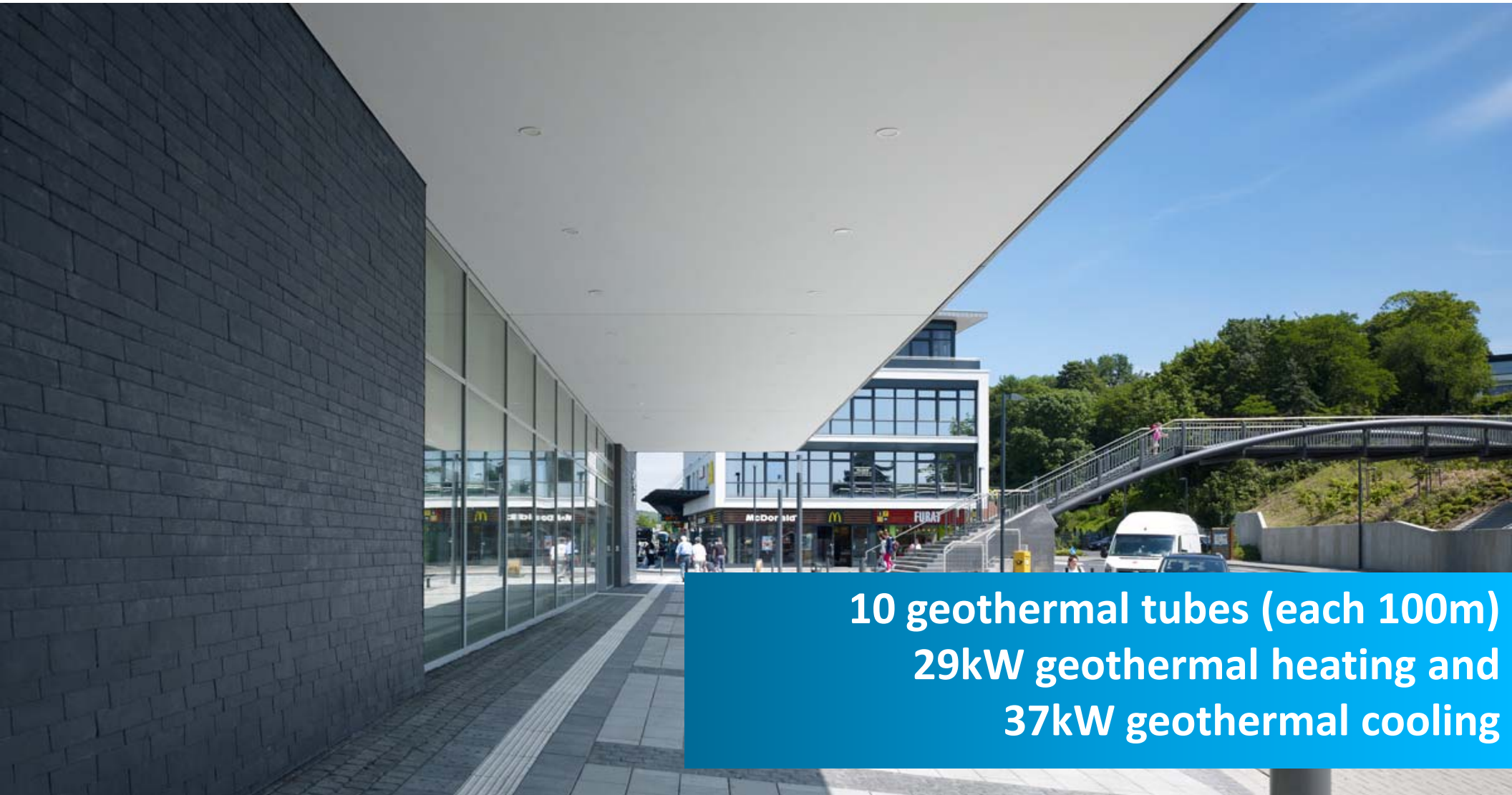


## Station Green Horrem



a well-balanced daylight concept and artificial light concept saves energy

## Station Green Horrem



**10 geothermal tubes (each 100m)  
29kW geothermal heating and  
37kW geothermal cooling**

## Station Green Horrem



station as intermodal hub to bus, P&R, Taxi, bicycle parking – and barrier free !

## Station Green Horrem



Rainwater concept with green roof and cistern for public WC (PRM)

## Station Green Horrem

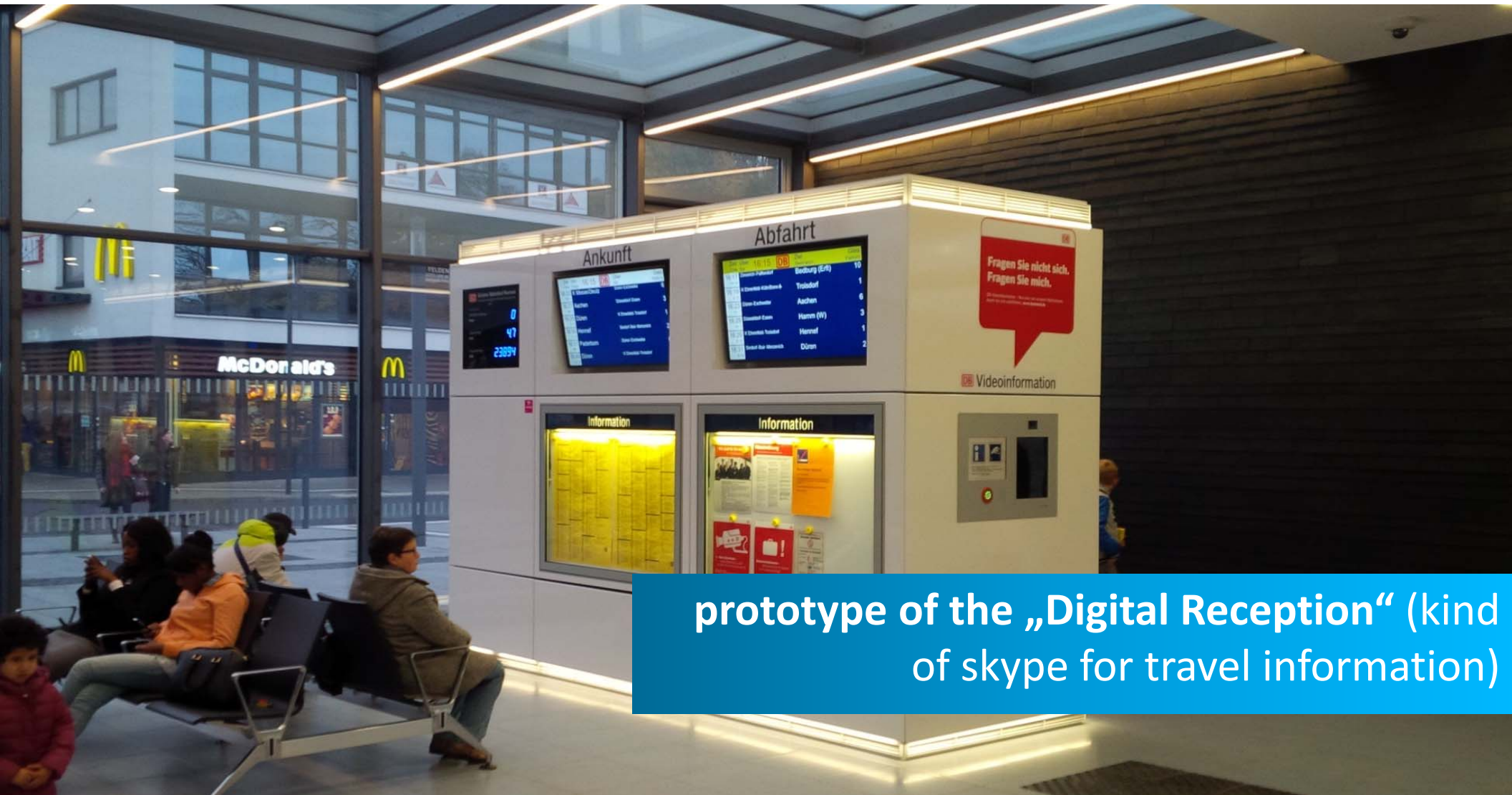


**visual transparency in the waiting hall,  
large waiting area,  
underfloor heating**

## Station Green Horrem

high spatial quality,  
chargers for mobil phone at the seat,  
Wifi Hotspot

Station Green Horrem



prototype of the „Digital Reception“ (kind of skype for travel information)

## Station Green Horrem



customer satisfaction has increased –  
vandalism has decreased.



# Station Green

Appearance integral to surroundings

Colours

Ambience

Texture

Vegetation

Facade

Construction



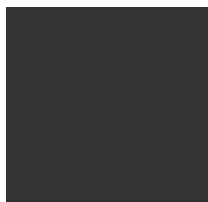
North  
Germany



Bavaria



Industrial  
Heritage Site



## Station Green Lutherstadt Wittenberg



## Station Green Lutherstadt Wittenberg



Brick facade -  
typical of the region and very durable

# Station Green Lutherstadt Wittenberg



No overhead glazing, but still plenty of light through the transparent facades

# Station Green Lutherstadt Wittenberg



**Award for the best station (2017)**

Abfahrt		Departure / Départ		Ziel
13:30	Leipzig	13:30	Leipzig	Leipzig
14:00	Leipzig	14:00	Leipzig	Leipzig
14:30	Leipzig	14:30	Leipzig	Leipzig
15:00	Leipzig	15:00	Leipzig	Leipzig
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22:30	Leipzig	22:30	Leipzig	Leipzig
23:00	Leipzig	23:00	Leipzig	Leipzig
23:30	Leipzig	23:30	Leipzig	Leipzig

## Contact

### I.SBO Objektentwicklung und Planung

DB Station&Service AG, I.SBO  
Leiter Oliver Hasenkamp

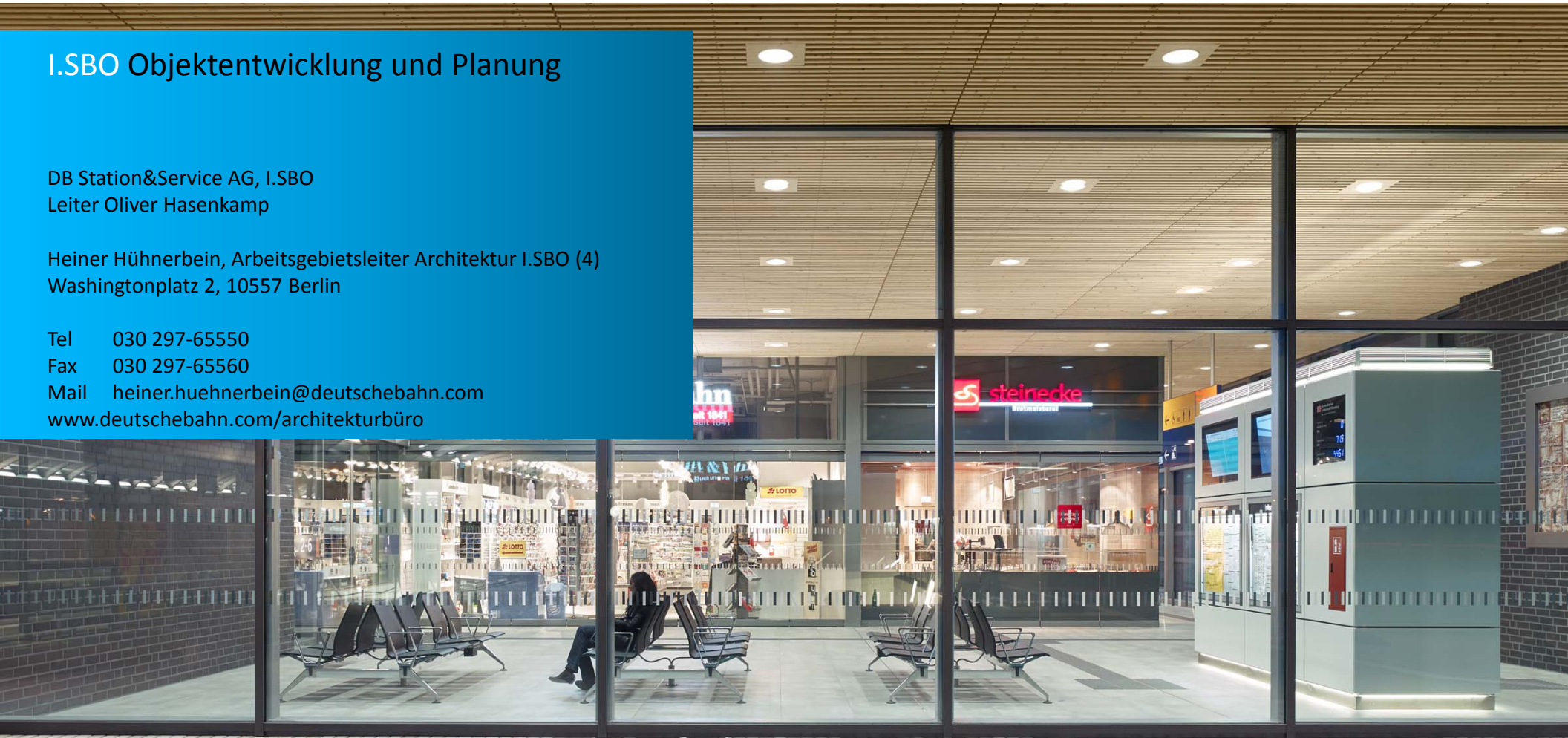
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THANK YOU  
GRACIAS

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