

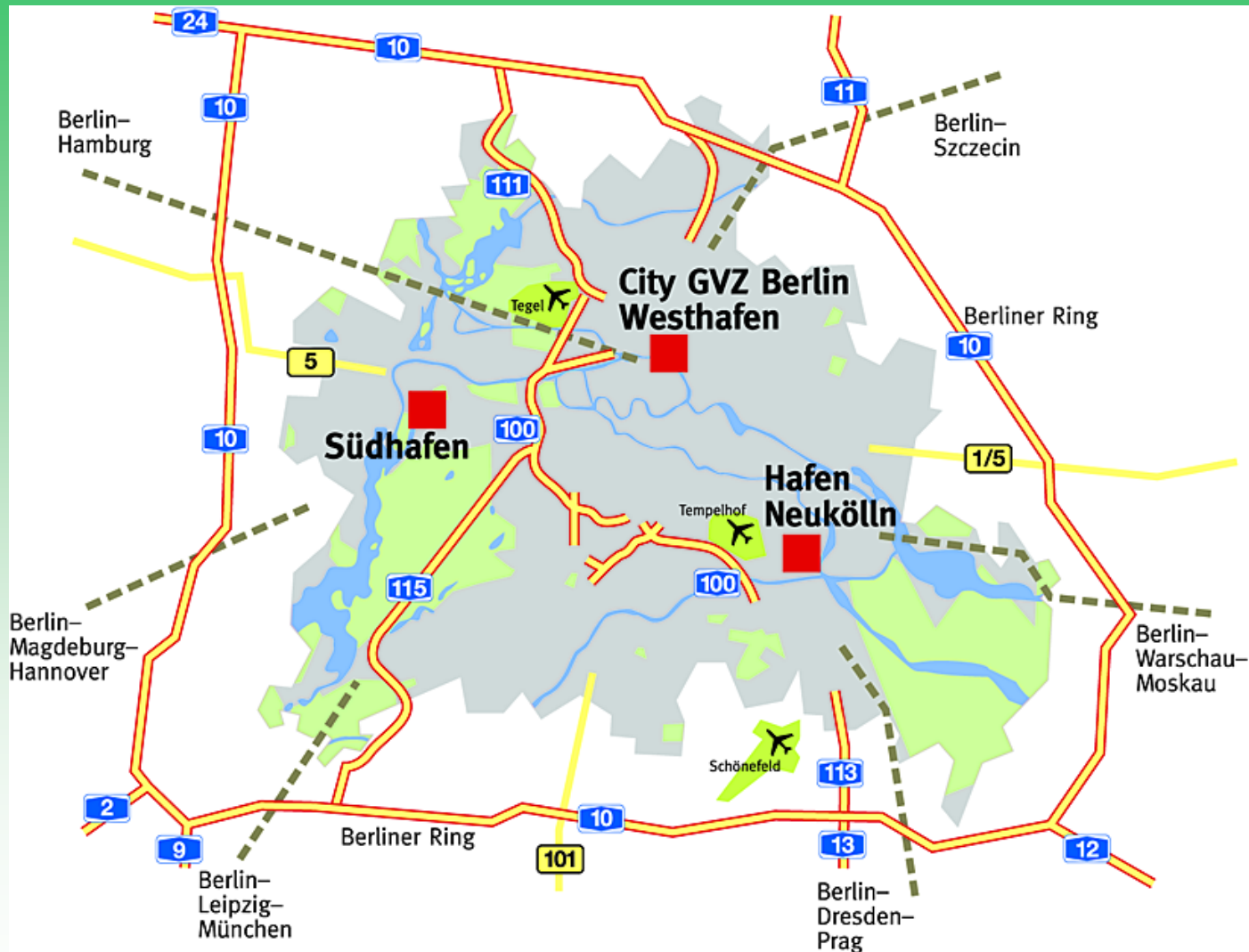


BEHALA

Logistic provider in the center of Berlin



BEHALA locations



Container Handling at Westhafen



Total transshipment 2017: **144.370 TEU**

➔ Strongest Terminal in Berlin - Brandenburg

Transshipment of bulk, general and heavy cargo



Rail Traffic and Rail Infrastructure



- regional rail transport with own locomotives
- collection of freight trains at the freight stations in Berlin
- delivery to our clients at Westhafen and Südhafen

Heavy Cargo Shuttle



- BEHALA-Roll-on/Roll-off-barge

length: 64,50 m

width: 9,50 m

capacity: 1.200 t

E-Mobility in the daily port operations



Use of a fully electric truck



- producer: Terberg Benschop
- Total volume 40 t
- Registration date 27.06.2014
- Maximum speed 40 km/h
- Siemens direct current motor
- Motor power 140 kW
- Lithium Ion 112 kWh/614V with integrated battery management system

E-Mobility in the Berlin city traffic



Electrical two-way vehicle



- two-way vehicle for shunting wagons up to 800 t train weight
- Producer Windhoff
- Year of construction 2014
- Motor power 35 kW
- Capacity of the battery 1.500 Ah
- Maximum speed 8 km/h

Vehicle for escorting heavy transports (pilot car)



- NISSAN E – NV 200
- Year of construction 2014
- Motor power 80 kW
- Maximum speed 120 km/h

Electric locomotive



- **Alstom H3 test**

Electric locomotive



	H3 Akku	H3 Hybrid	H3 DualEngine	H3 SingleEngine
Energie- erzeugung	Externe Versorgung	350 kW Generator	2 x 350 kW Generator	1000 kW Generator
Energie-speicher	NiCd Batterie	NiCd Batterie	-	-
Leistung	600 kW	700 kW	700 kW	1000 kW
Tankvolumen	-	2.000 l	2.000 l	2.000 l
Verbrauch	-	9-21l/h	15-20l/h	25-40l/h
Anwendung	leichter Rangiereinsatz	mittelschwerer Rangiereinsatz	schwerer Rangiereinsatz	Mittelstrecken- einsatz
Vorteil	Emissionsfrei	30-60% Dieselersparnis Autonomie	15% Dieselersparnis, Redundanz	8% Dieselersparnis, Leistung

H3 M344 - 05/06/2019 - D 40

Problems out of practice



- High costs
- Limited mobility
- Low offer from producers

Simple example



70.000 € net



28.000 € net

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