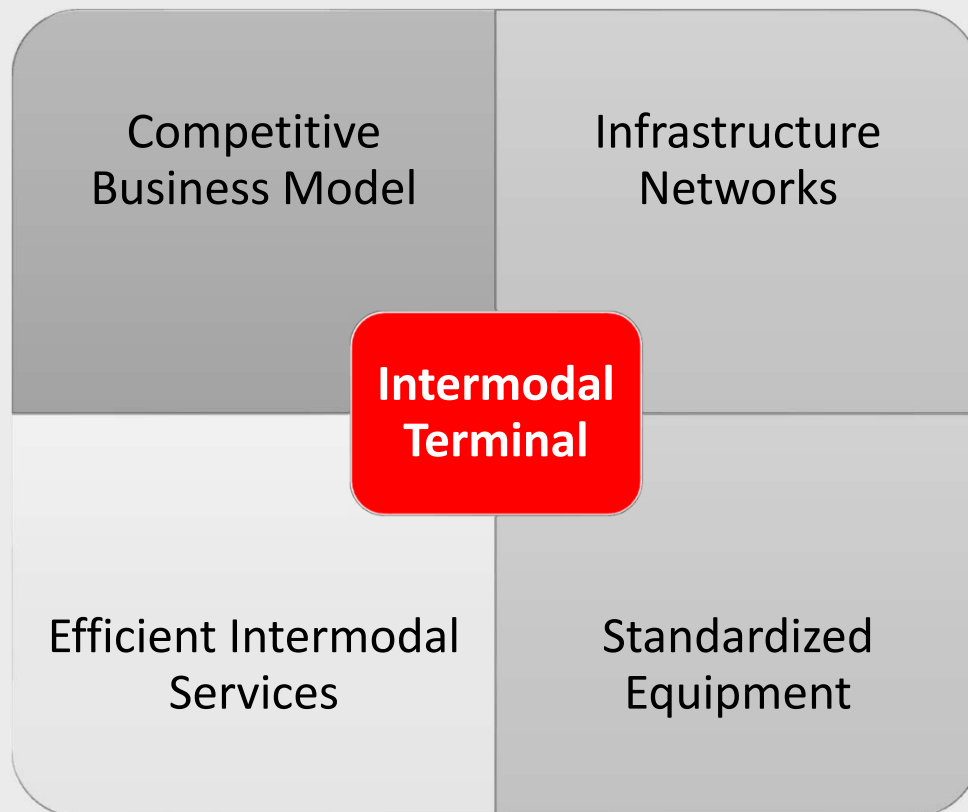


Transfer Conference & REIF Shift to Regional Rail Award

Intermodal terminals – key to modal shift

by Klaus-Uwe Sondermann, Managing Director, KombiConsult GmbH

Key(s) to modal shift Intermodal Terminals



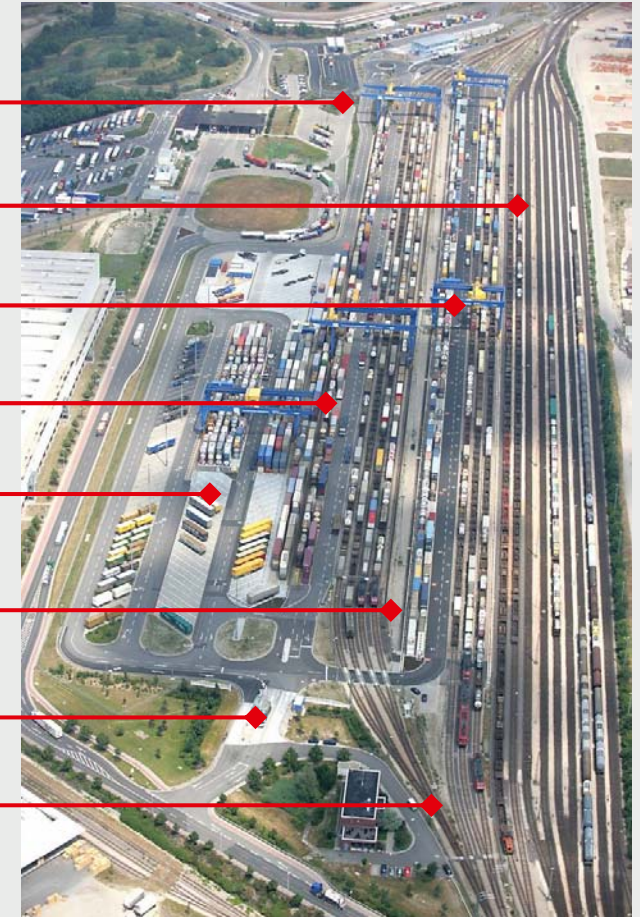
Agenda

- Development of CT volumes in Germany 2013-2019(-2021)
- Illustration of CT transshipment facilities in Germany until 2019
- Performance review of the existing funding guidelines
- Forecast of CT development and transshipment demand until 2030
- Proposals for the design of the future funding guideline
- Take-aways

Key(s) to modal shift

Intermodal Terminal design features

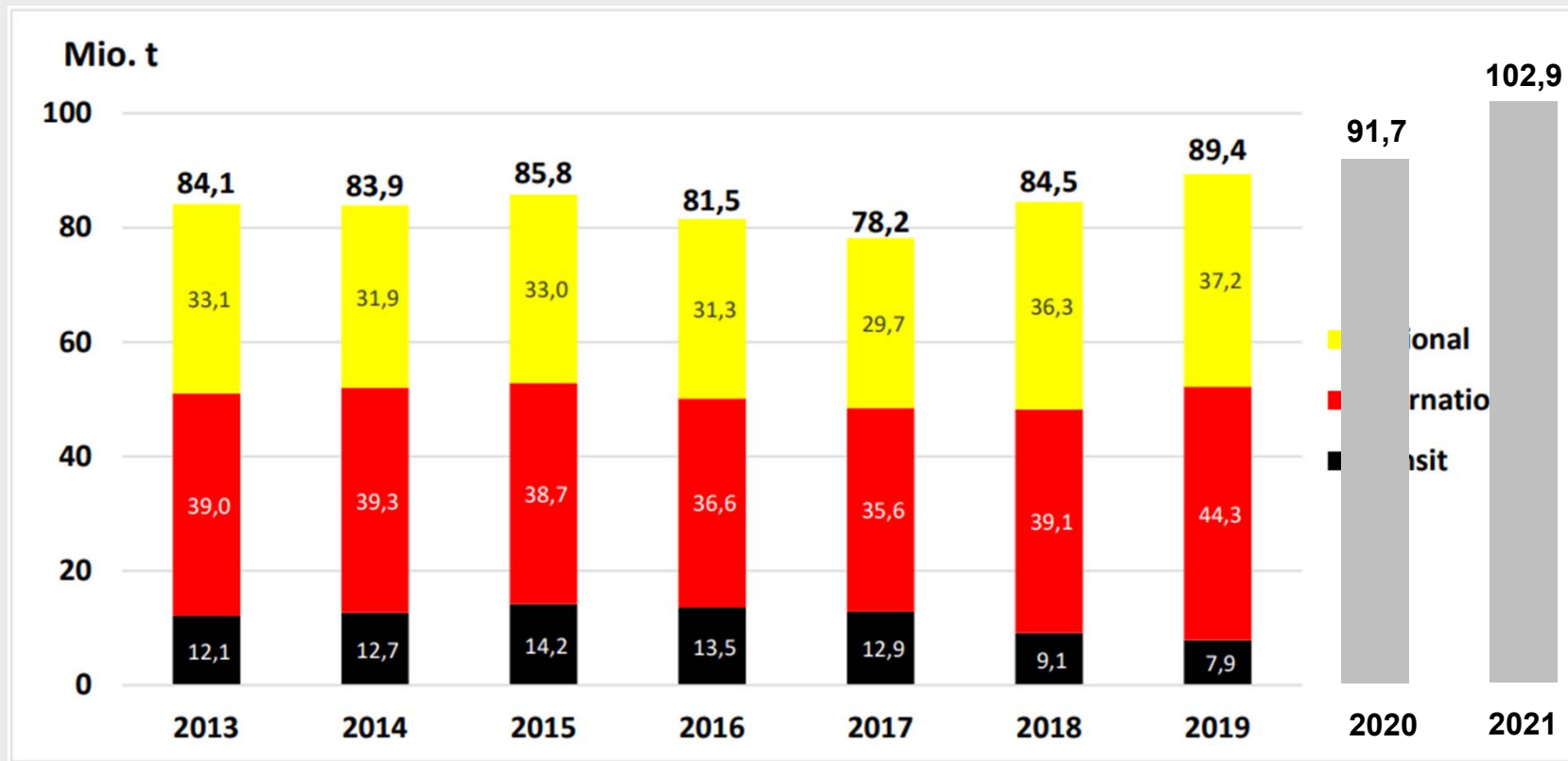
- Gate Area with (automated) check-in
- Buffer tracks
- Transshipment Tracks (“train long” = 740 m)
- Buffer Lanes
- Storage / Depot
- Loading and Driving Lanes
- Road Access
- Direct (electrified) Rail Access (with OCR-Gate)



Source: BASF, KombiConsult analysis

Development of CT-Volume in Germany

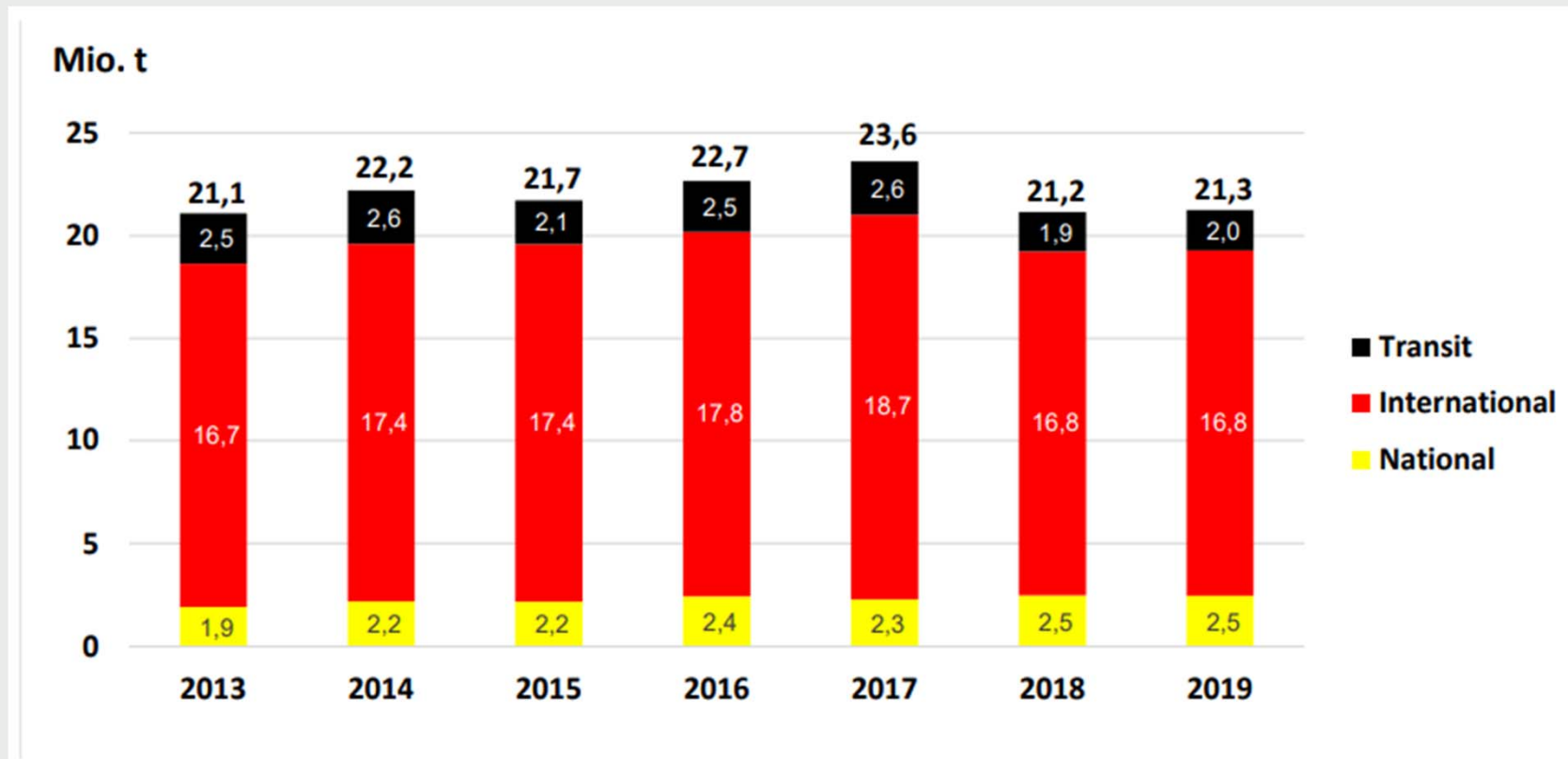
Unaccompanied CT Rail-Road: Types of Traffic, 2013-2019



Source: Destatis, KombiConsult analysis

Development of CT-Volume in Germany

Unaccompanied CT Inland Waterway-Road: Types of Traffic, 2013-2019



Source: Destatis, KombiConsult analysis

All terminals by terminal class and category, 2019

*Guidelines for the funding of Combined Transport transshipment facilities of owners in private legal form, different programmes since 1998, the last 2017-2021; KombiConsult analysis.

**Terminals for Combined Transport by Rail and
Inland Waterways in Germany 2019**

CT-Terminals in Germany

Funding of Combined Transport transshipment facilities in Germany

- Financial contribution to the building costs of intermodal terminals in Germany
 - DB Netz AG as investor → Law for Expansion of Federal Railways (BSchwAG)
 - Private legal form → **Guidelines for the funding of CT transshipment facilities**
- Construction of new and upgrading of existing sites
- Up to 80% of the components eligible for funding (listed in the Guidelines)
- No start of works before handing-in the application;
Application can be handed-in any time (according to project maturity)
- Economical viability (with the requested funding)
- Assessment by permanent staff of competent authorities (EBA, GDWS)
- Security must be provided for the repayment of funds
- Terminal owner/investor independent from operator (tendering)
- Non-discriminatory access to terminal services assured

Source: BMDV, KombiConsult analysis



Evaluation of Funding Success

Funded projects since 1998, Status: October 2020

Class of Terminals and Category	N°	Share	Investment* (Milion €)	Funding Amount (Milion €)	Ø Funding Rate (%)
Inland Terminal Rail-Road	43	36%	480.5	344.3	72%
Inland Terminal IWW-Road	6	5%	59.8	43.0	72%
Inland Terminal Trimodal	54	45%	659.6	447.3	68%
Terminal near Ferry Port	7	6%	54.1	37.8	70%
Terminal near Sea Port	10	8%	221.6	128.5	58%
Total	120	100%	1 475.6	1 000.9	68%

* Eligible investment costs incl. Planning costs

Additional investment in supplementary service facilities such as Depots (approx. €200 million)

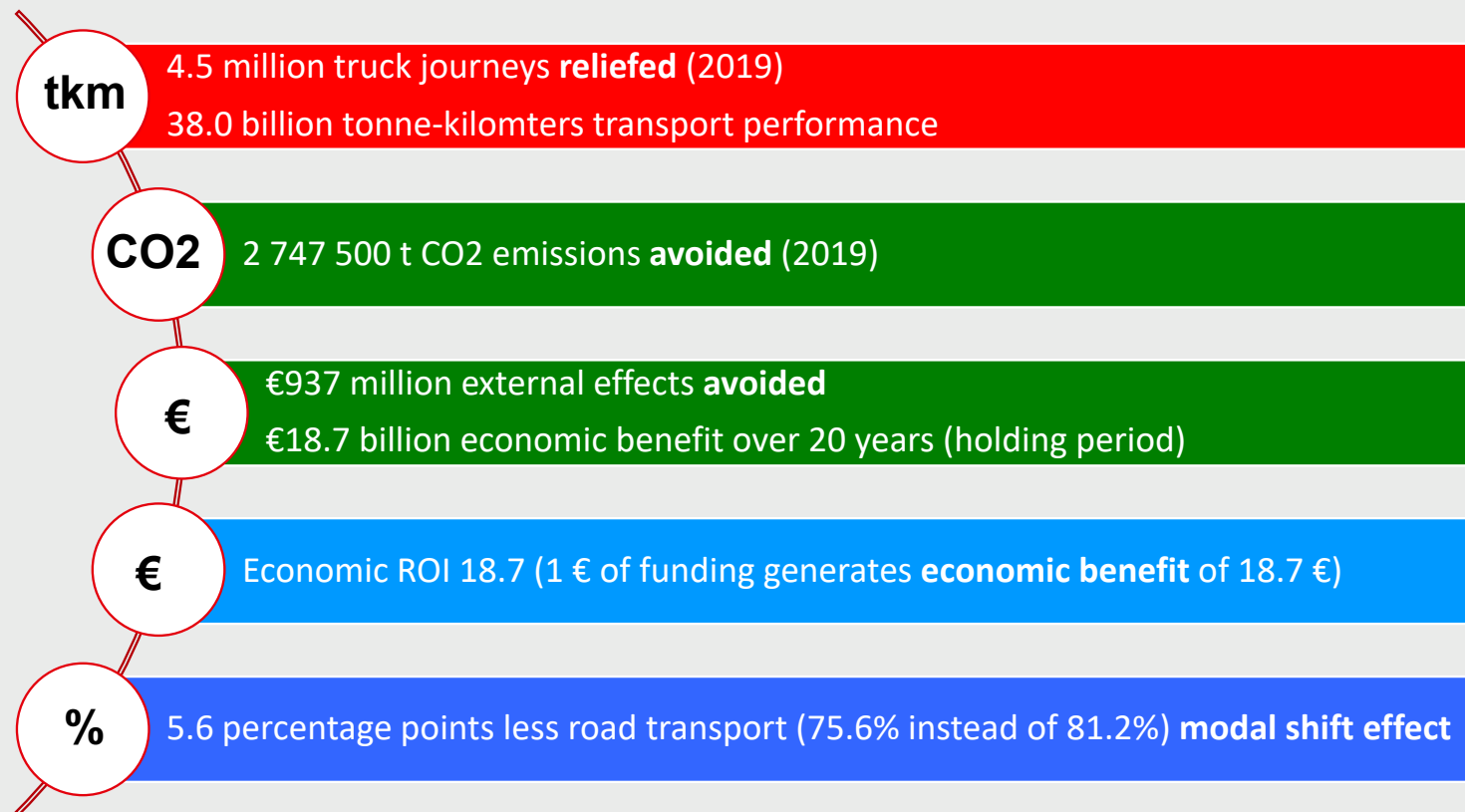
Total additional capacity per year: 7.713 million loading units of which

3.238 million loading units of expansion and

4.475 million loading units for new builds

Evaluation of Funding Success

Effectiveness and efficiency of Guidelines for funding CT transshipment facilities

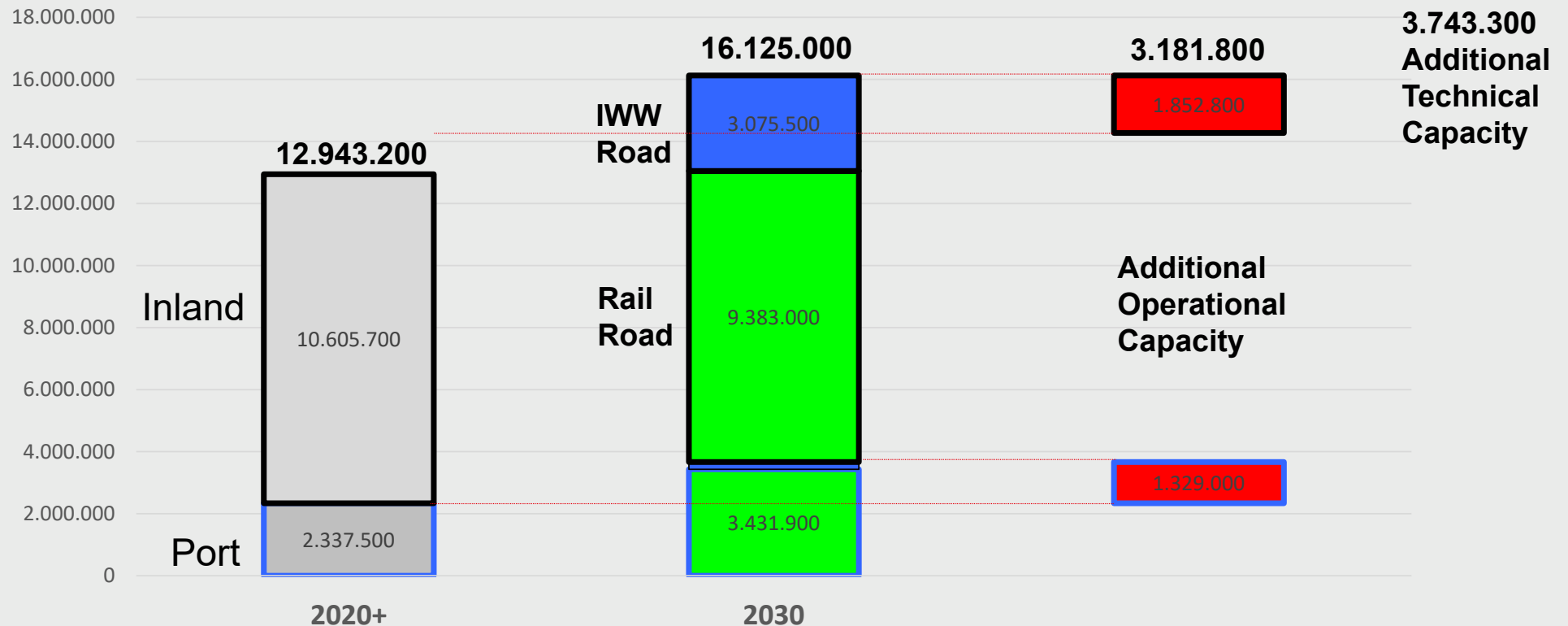


Source: KombiConsult, Evaluation of the Guidelines, May 2021

Forecast of CT-Volume and Handling Capacity Need by 2030

Total need of handling capacity by 2030

Loading Units p.a.



Source: KombiConsult, Evaluation of the Guidelines, May 2021; „2020+“: incl. 32 planned projects delivering 1.2 million loading units

Proposals for the design of the future funding guideline

Main Points

- Maintain/Continue the basic principles
- Investment in new, extension and replacement in existing of facilities
- Technology openness
- Improvements in details
 - Appropriateness
 - Eligibility list
 - Owner/operator regulations
 - Bureaucratic efforts of application

Take aways



- Intermodal Terminals are key for modal shift
- Funding of the infrastructure cost rather than operational aid is an appropriate means of improving the competitiveness of intermodal supply chains
- Modal-Shift targets, socio-economic benefits and CO2-reduction are achieved
- Programme-based funding of individual terminal measures upon application
- Sustainable and economic viable through market drive
- Necessary capacity rather than “compliance”

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Terminals für den Kombinierten Verkehr über Schiene und Wasserstraße in Deutschland 2022

Terminals for Combined Transport by Rail and Inland Waterways in Germany 2022



¹⁾ DB Netz/DUSS Terminal