

DISKUSSIONSRUNDE II

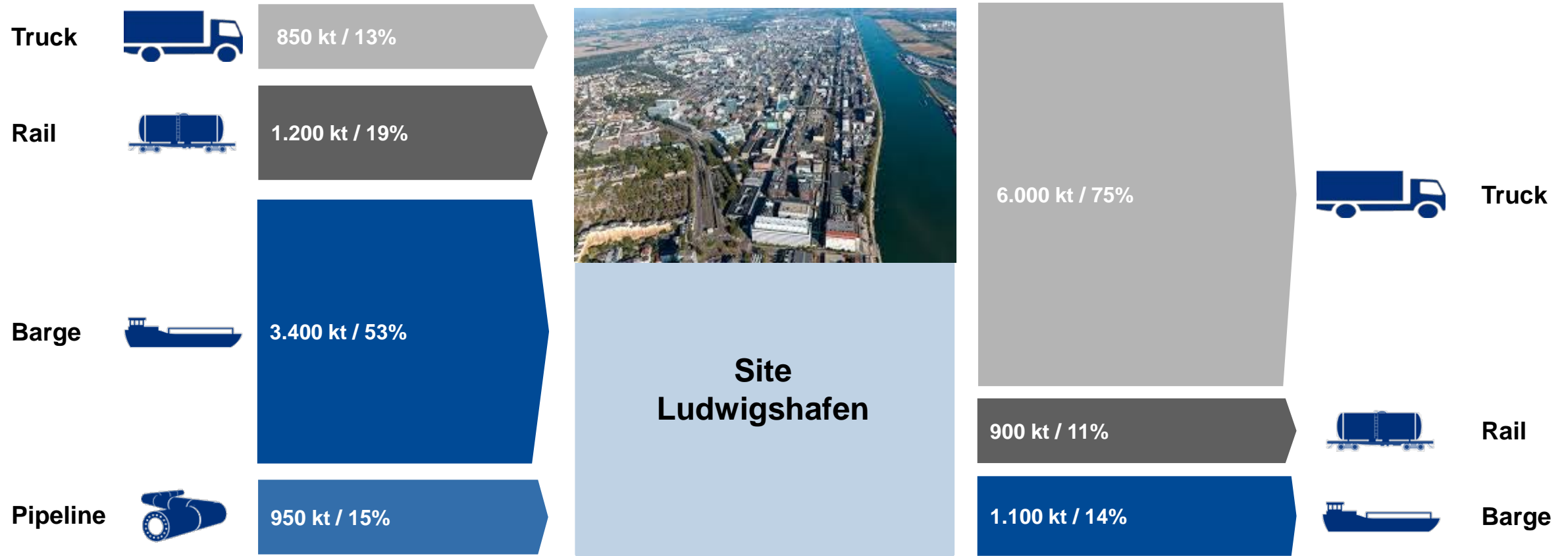
Anpassung von Logistikkonzepten an Niedrigwasser

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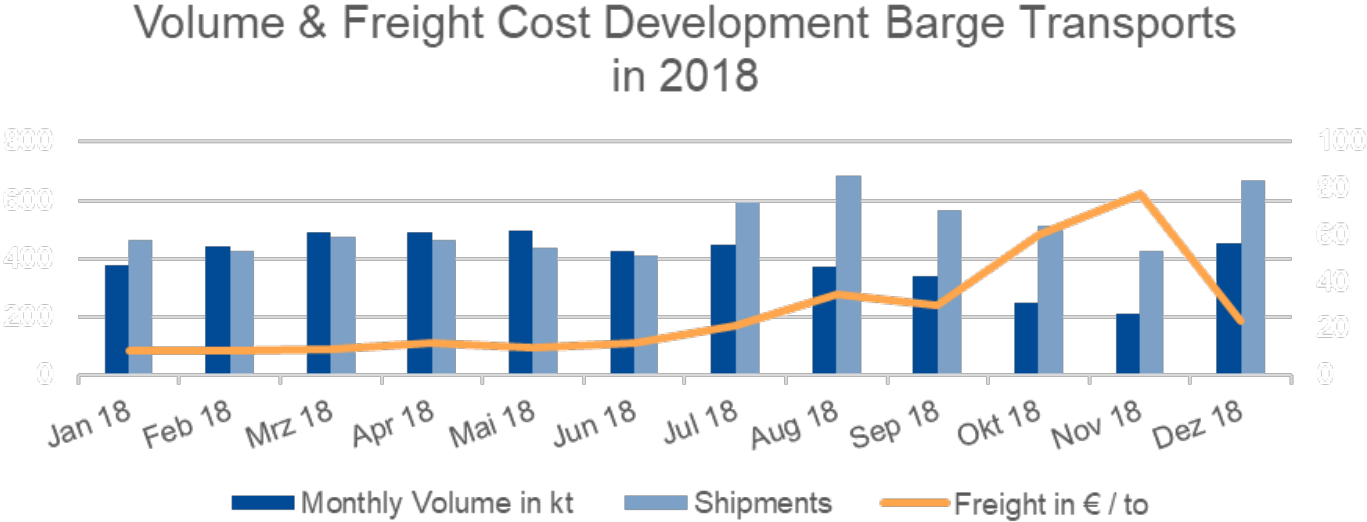


The Rhine and barge operations are of critical importance for the raw material supply of the Verbund Site Ludwigshafen

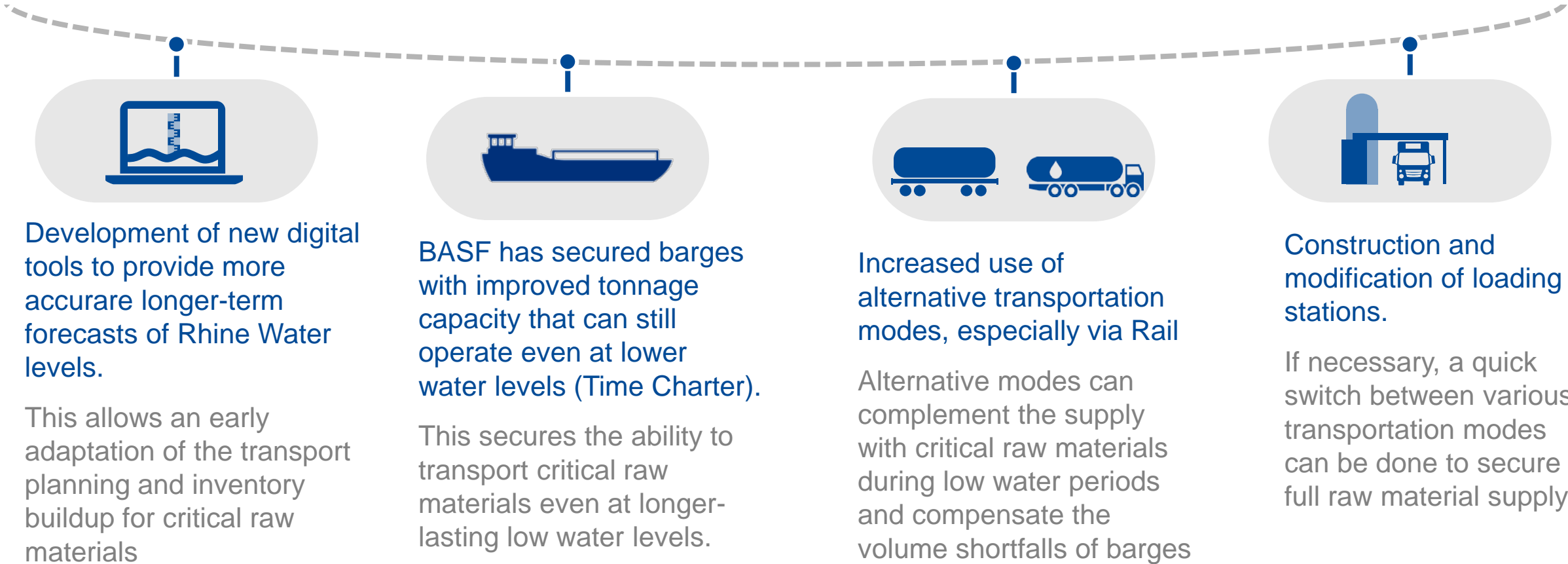


Extreme low water levels in September / October 2018 significantly impacted BASF and the barging market

- Barge capacity dropped significantly (200-300t per barge)
- Major increase in number of shipments, shortage of barge capacity & availability in the market
- Freight costs (incl. demurrage) up to seven times higher than during normal water levels
- Logistics flows significantly disturbed and supply to the Ludwigshafen Site strongly impacted



BASF adapts its logistics chains for low water periods to be prepared for a dryness period as seen in 2018



Development of new digital tools to provide more accurate longer-term forecasts of Rhine Water levels.

This allows an early adaptation of the transport planning and inventory buildup for critical raw materials

BASF has secured barges with improved tonnage capacity that can still operate even at lower water levels (Time Charter).

This secures the ability to transport critical raw materials even at longer-lasting low water levels.

Increased use of alternative transportation modes, especially via Rail

Alternative modes can complement the supply with critical raw materials during low water periods and compensate the volume shortfalls of barges

Construction and modification of loading stations.

If necessary, a quick switch between various transportation modes can be done to secure full raw material supply

The roadmap "Niedrigwasser Rhein" is an important milestone. Prioritize the implementation of the defined measures!



Aktionsplan „Niedrigwasser Rhein“

- Informationsbereitstellung**
 1. Wasserstandsvorhersage verbessern
 2. DAS-Basisdienst Klima & Wasser
 3. Aktuelle Tiefeninformationen bereitstellen
- Transport & Logistik**
 4. Transportkonzepte anpassen & Technik optimieren
- Infrastruktur**
 5. „Abladeoptimierung am Mittel- & Niederrhein“ beschleunigen
 6. Schnellere Genehmigungen durch Maßnahmengesetz
- Langfristige Lösungsansätze**
 7. Wasserbau- & wasserwirtschaftliche Optionen prüfen
 8. Gesellschaftlicher Dialog

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