



Mastering Complexity: How DACHSER Tackles Challenges and Trends in Chemical goods Logistics

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■ Something is cooking...



When the grain becomes something more...



Who we are?

DACHSER
Intelligent Logistics

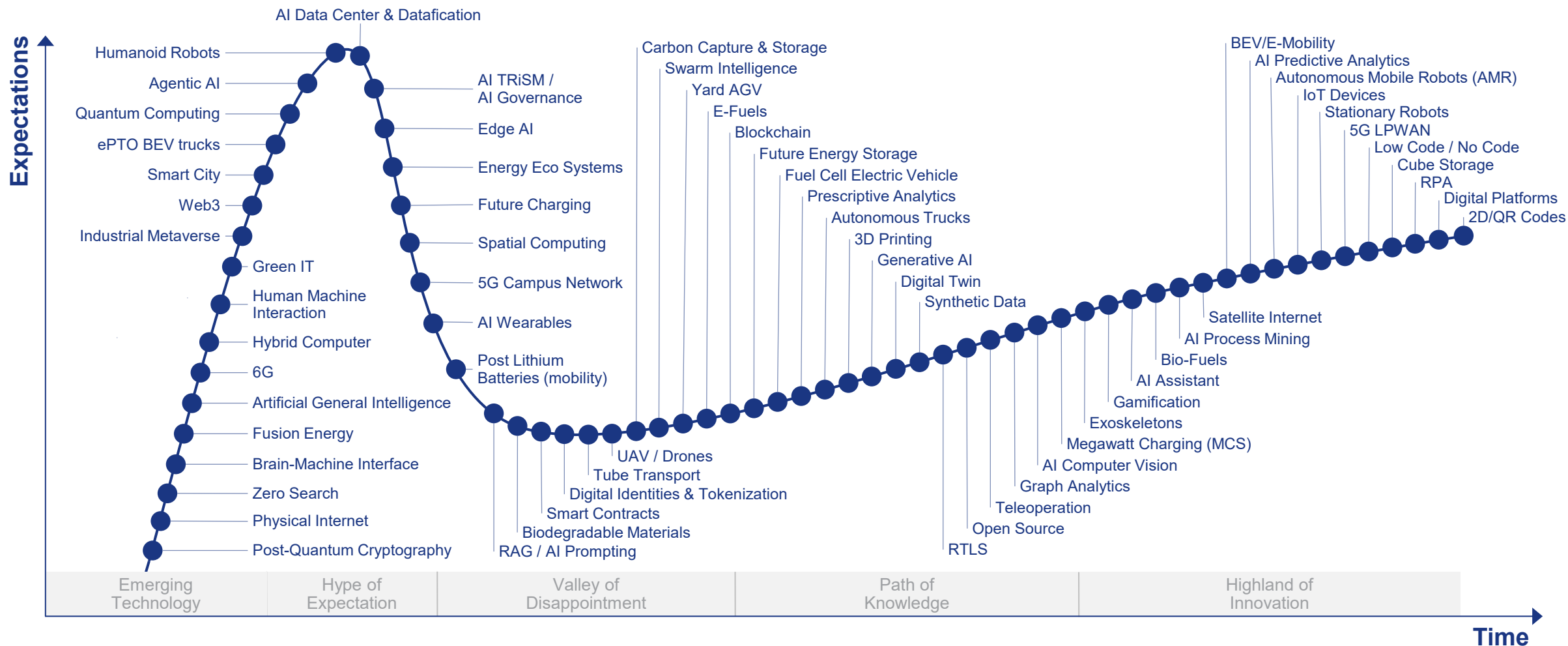


Tailor-made logistics services for your chemical industry needs



Notable Technologies for Logistics

R&D Technology Cycle 2025



■ Making dynamic adjustments



/ Michael Kriegel (left) with the authors of the study "Chemical logistics on the move - scenarios and outlook for Germany" Christian Kille (center) and Andreas Backhaus (right) at the Dachser branch in Malsch. Picture: Jan Bürgermeister/DACHSER

Chemical Goods Logistics – The Complexity

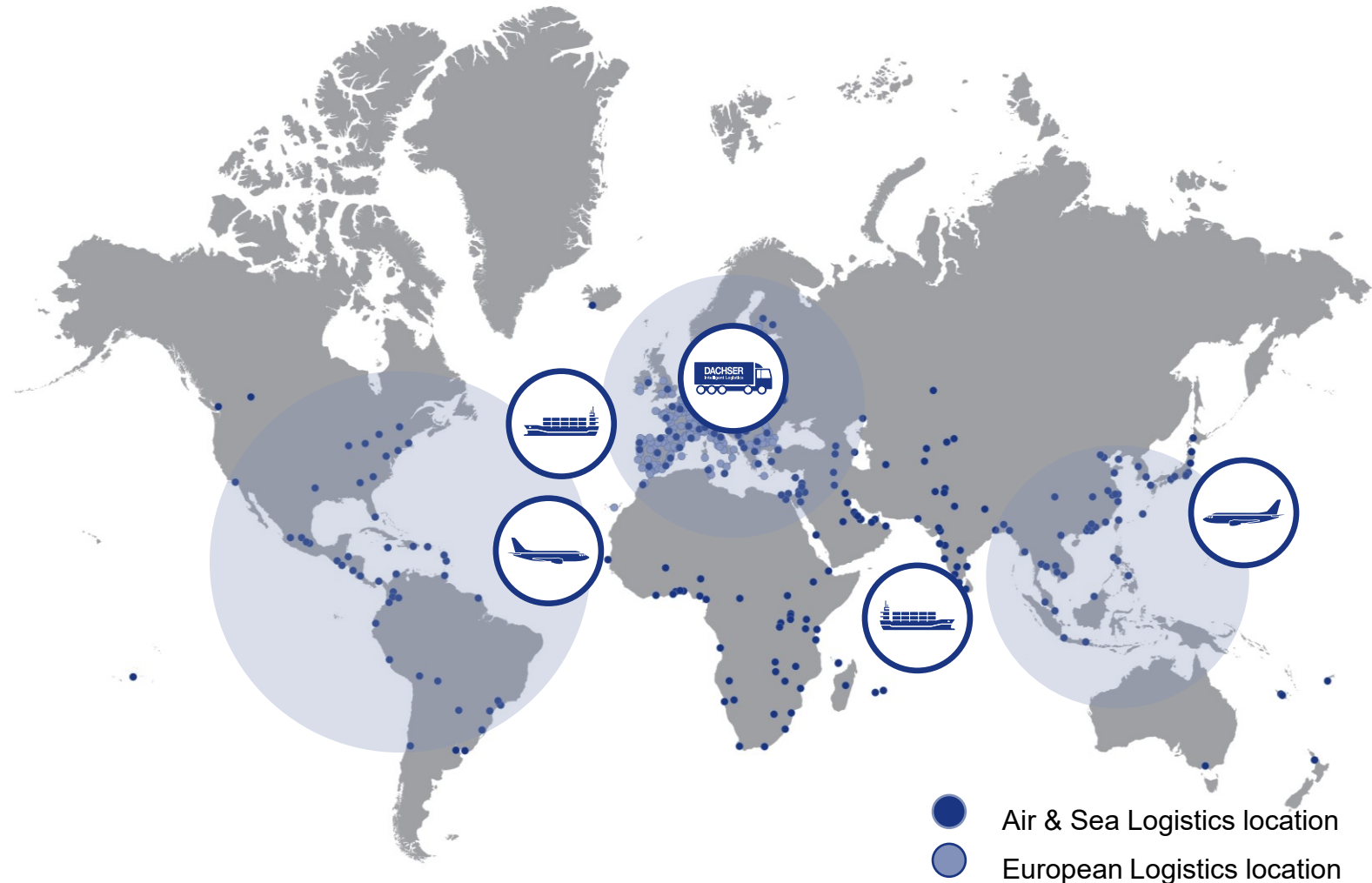
- Stringent regulations (ADR, REACH, IMDG, IATA, EKAR, SENT etc.)
- Safety and environmental concerns
- Documentation and compliance challenges
- Supply chain disruptions and market volatility
- Temperature-controlled transport



Global supply chain management solutions

**Across land, by air, by sea,
in the warehouse:
Get globally connected**

- Global end-to-end solutions including dangerous goods
- A single source for solutions ensuring operational consistency and efficiency
- Integrated supply chain management
- Transparency and visibility
- Local expertise, global reach
- Transit times for dangerous goods the same as for neutrals



■ Lack of qualified personnel



Digitalization – An Unstoppable Trend

- The last decades have been a time of rapid change and the pursuit of service and process digitalization.
- Competition in the areas of investment in AI, algorithms, and cloud solutions.
- Big Data management.
- An increasingly complex and hybrid logistics chain.



■ Digitalization and innovation

Innovation is the key to sustainable success

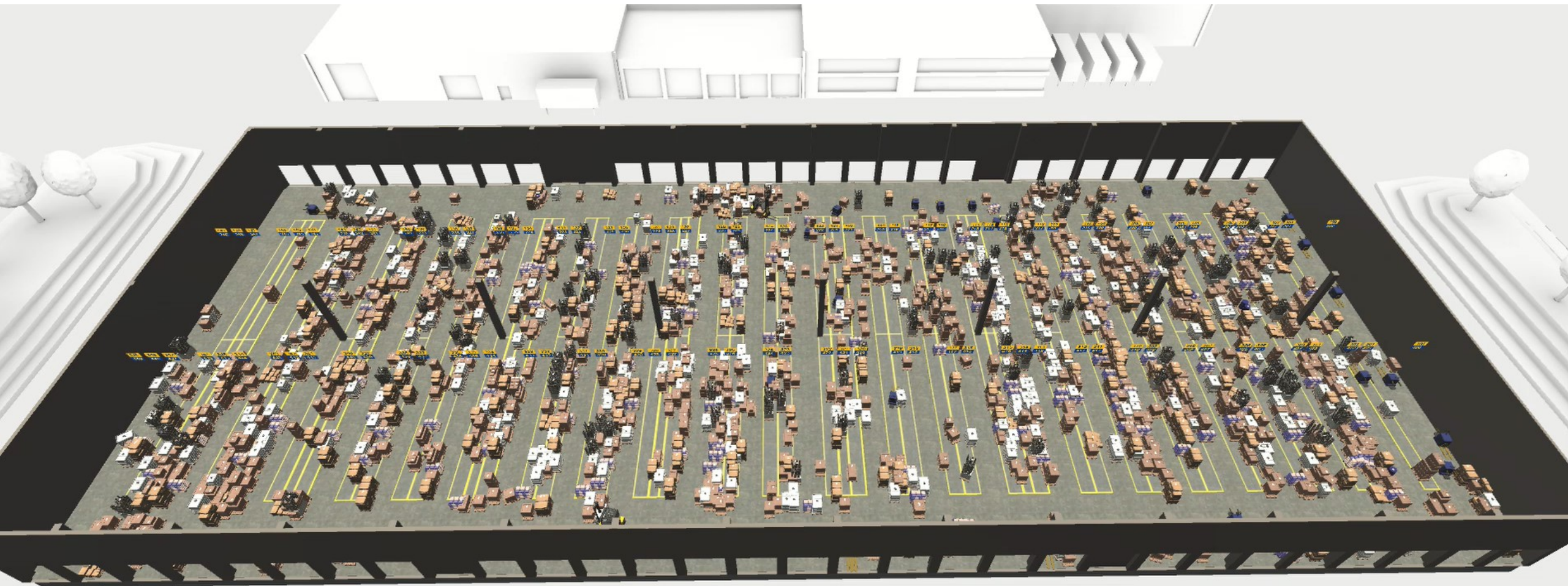
- DACHSER Enterprise Lab
 - Collaboration between Fraunhofer IML and DACHSER since October 2017
 - Research of new technologies and applications in digitalization
- @ILO (Advanced Indoor Localization and Operations)
 - Digital twin in groupage handling
 - Image of all packages, assets and processes
 - German Award for Supply Chain Management 2023
- Prototyping and testing of new technologies
 - Automated intelligent transportation systems
 - Use of active exoskeletons
 - Use of collaborative robots



■ Digital twin of a transshipment terminal.



■ @ILO – when vision becomes reality.



AI Predictive Analytics

„Predictive Analytics Dachser”— PAnDA One

- **AI-powered Predictive Analytics:** Enhancing logistics efficiency through data-driven forecasting.
- **PAnDA One Model:** Forecasts inbound volumes up to 25 weeks ahead, optimizing capacity planning.
- **Continuous Improvement:** Algorithm refinement has reduced forecast deviation to below 5% in key markets.



Sustainability and climate protection

Our contribution to sustainable logistic processes

- EcoVadis assessment (2024 score: 56%)
- CDP (Carbon Disclosure Project) rated at a B level*
- 100% renewable electricity in DACHSER facilities since 2022
- Continuous monitoring of customers' carbon footprint for transport activity with DACHSER
- Optimization of transport capacity thanks to double-deck loading and mega trailers
- Individualized GHG calculations at shipment level, available upon customer request

*on a scale from A - D



■ Something is still cooking...



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#ChemicalIndustry

