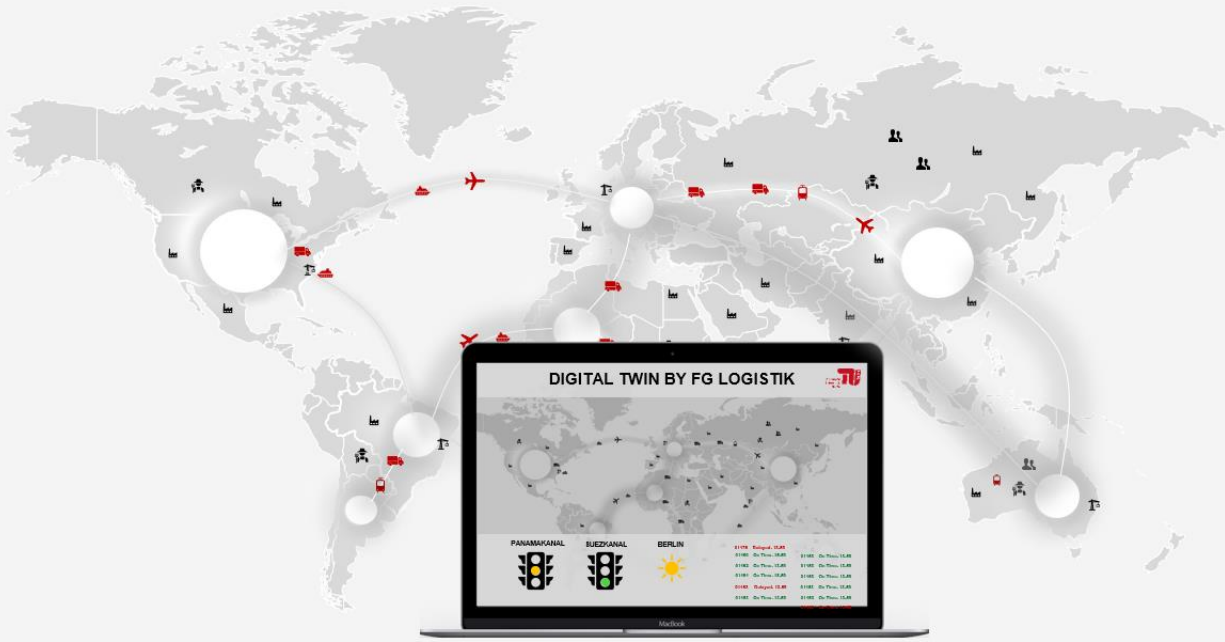
Technische Universität Berlin

Chair of Logistics

INVITATION: EXPERT WORKSHOP



Digital Logistics Twins

an expert workshop on the **technological, organizational and processual requirements** for successful implementation

07.July 2022: 9:00 – 16:30

Technische Universität Berlin, Straße des 17. Juni 135, 10623 Berlin

Head of Chair of Logistics: Prof. Dr.-Ing. Frank Straube

Dr.-Ing. Benjamin Nitsche

Benno Gerlach, M.Sc.

Simon Zarnitz, M.Sc.

Info

Digital Logistics Twins are gaining increased attention in academia and practice as they emerge as one of the most important trends in logistics and supply chain management (LSCM). From the historical development, DT were initially developed exclusively for individual assets such as machines. During the technological evolution, DT of entire production sites and warehouses were developed and partly implemented by industry. The next logical step is the implementation of DTs at **network level**. Penetration at the industry level is still very rare. However, academic research has identified major potentials based on holistic optimization of the systems, such as increased **flexibility, resilience or reductions in climate-relevant emissions**. Still unclear, however, are the technological, process-related and organizational prerequisites that need to be created in companies and global value systems in order to implement a Digital Logistics Twin. The aim of the workshop is to work out the **technical, procedural and organizational challenges** and strategies to overcome them.
You will gain **exclusive insights** into current **research projects** of the Chair of Logistics, which are dealing with the opportunities of digital logistics twins for transport planning in road freight transport and data-driven modeling as well as predictive planning and control of global logistics systems. The workshop results will help you and your business to be better prepared for upcoming challenges regarding this innovation.

Agenda

06.07.2022	19:00 - 22:30	Group Dinner *(optional)*
07.07.2022	08:30 – 09:00	Registration, Welcome tea & coffee

09:00 – 09:10	Opening note and workshop goals
09:10 – 09:30	Presentation of the research project: Digital Logistics Twins
09:30 – 10:00	Introduction of the workshop topic and structure
10:00 – 10:15	Tea and coffee break
10:15 – 12:00	**Workshop I: Requirements of DSCTs**
12:00 – 13:00	Lunchtime
13:00 – 13:15	Introduction to Workshop II
13:15 – 14:30	**Workshop II: Strategies to leverage potentials**
14:30 – 15:00	Presentation of Workshop Results
15:00 – 15:15	Tee and coffee break
15:15 – 16:30	Summary, feedback and farewells

Language:	German
Registration fee:	**Free of Charge**

Please **contact** Simon Zarnitz for **registration** with your name, company and phone number

simon.zarnitz@tu-berlin.de

The Workshop

- The workshop is organized by the Digital Twin Project, funded by Schaeffler AG and the Competence Center for International Logistics Networks, funded by the Kuehne Foundation
- The Digital Twin project aims to research the potentials of planning and controlling logistics systems by using Digital Twins.
- The Competence Center aims at supporting businesses in strategically managing their international supply chains.
- The **goal** of the workshop is to provide a platform for companies from different industries and to establish a regular **knowledge exchange** about this important topic among industry experts.

Your Benefits

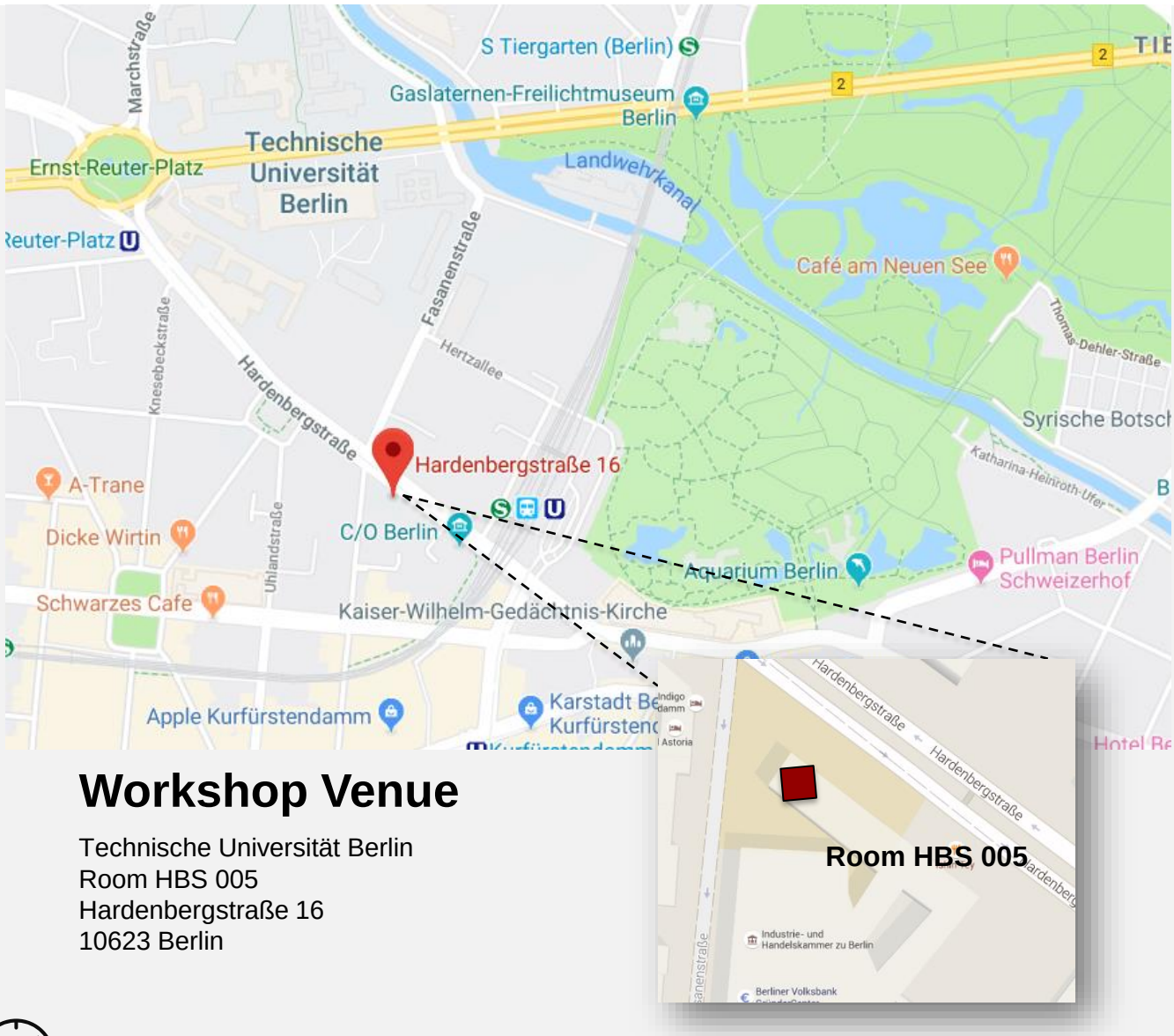
- **Free participation** in the workshop.
- You get exclusive access to the **latest findings and results** of current DT research. The Chair of Logistics has already methodically developed **fields of application, use cases and benefits** and have investigated **industry penetration** and potential assessment
- You get **exclusive insight** into dissertations which deal with the potentials of digital logistics twins for road freight transport and the predictive planning and control of logistics systems.
- You are able to exchange **approaches, best practices and surveys** from different industries including current industry penetration and
- You have the chance to expand your **professional network.**

Your Contribution

- You are ready to get involved in discussions about solutions of current and future challenges in international logistics networks
- You will be asked to complete a 10-minute survey before and after the workshop, which is necessary to start the workshop efficiently and summarize and assess the main results afterwards. The survey will primarily focus on the Digital Logistics Twin potentials and the implementation requirements.

Registration

- Please **send an email** with your name, company and phone number to Simon Zarnitz
- Contact: **simon.zarnitz@tu-berlin.de**



Workshop Venue

Technische Universität Berlin
Room HBS 005
Hardenbergstraße 16
10623 Berlin

How to get there

The venue is located between “Zoologischer Garten” and “Ernst-Reuter-Platz”, in Hardenbergstraße 16. It is situated centrally in Berlin’s City-West and can be easily reached by public transport and by car. The building’s entrance is directly on Hardenbergstraße. Room HBS 005 is on the ground floor.

Accommodation

Here you can find a non-exhaustive selection of hotels in close walking distance:

- Hotel Indigo Berlin – Ku’damm****, Hardenbergstraße 15, 10623 Berlin
- Hotel Otto ****, Knesebeckstraße 10, 10623 Berlin
- Hotel Motel One Berlin Ku’Damm ***, Kantstraße 10, 10623 Berlin

Thank you for your interest!

Prof. Dr.-Ing. Frank Straube
Head of Chair of Logistics
Technische Universität Berlin

Dr.-Ing. Benjamin Nitsche
Postdoctoral Researcher, Chair of Logistics
Manager of Competence Center for
International Logistics Network

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If you have any **questions**, please **contact Simon Zarnitz**

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