

LOGISTICS PLANNING 4.0

IMPROVING DECISION MAKING PROCESSES
WITH VIRTUAL REALITY

- ✓ **Comprehensive insight and rapid adaptation to changes**
- ✓ **3D visualizations improve understanding of the process**
- ✓ **Can be used directly for further planning, e.g. simulation or emulation**



BENEFITS

- Reduction in effort and time for planning delivers savings
- High level of planning reliability by integrating material flow data
- Training before implementation and familiarization

WHAT DO USERS SAY?

- It's easy to design projects
- You can actively participate in planning
- Changes are quick and easy

Actively involving customers is particularly important when planning and designing complex, in-company warehousing and material flow concepts. Ehrhardt + Partner Consulting (EPC) uses virtual reality technology to do just that. Visualization using virtual reality also gives you comprehensive insight into planning and design and lets you adapt your planning fast.

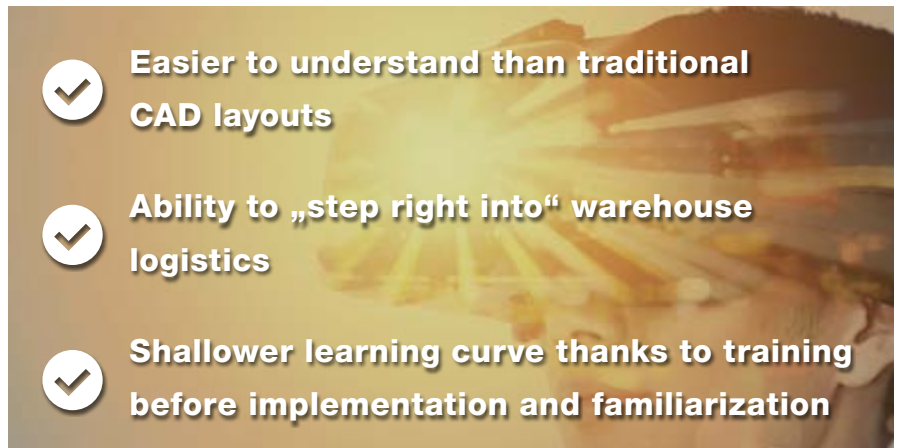
Actively shape your logistics.

Virtual reality is used to plan warehousing and material flow concepts in three dimensions, thereby bringing concepts to life. You can not just visualize the data in a model, but simulate and emulate it too. The visualization can therefore be enriched with real material flow data, exposing bottlenecks on transport routes, for example.

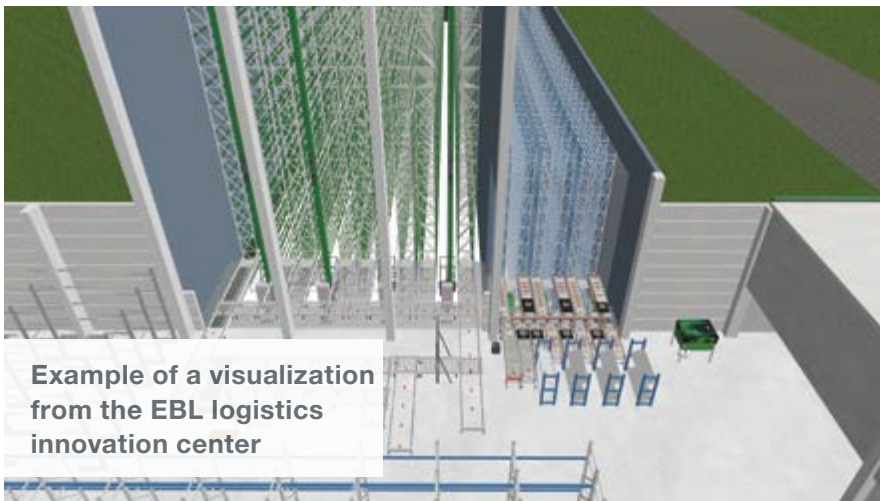
The result is that you can plan proactively and avoid errors before they occur.

We would be delighted to support you through planning and implementation of your project and as an expert partner after implementation – we neutral and independent of any manufacturer.

Particularly for complex projects, visualization and simulation are a key advantage that further increases planning reliability. Oculus Rift, Google Cardboard or similar virtual reality hardware can be used to present the solution easily, in a way that is easy to understand and with a focus on the final outcome. Emulation also lets you test all the functions of the system before installing anything.



- ✓ **Easier to understand than traditional CAD layouts**
- ✓ **Ability to „step right into“ warehouse logistics**
- ✓ **Shallower learning curve thanks to training before implementation and familiarization**



Example of a visualization from the EBL logistics innovation center

The models created by EPC can also be used for other processes. For example, the models can be easily sent by e-mail and displayed on computers or mobile devices, such as smartphones or tablets. The model can also be printed using a 3D printer.

Take control of your logistics planning and avoid errors before they occur.



APPLICATIONS

- Redesigning/replanning, expanding, retrofitting
- Optimizing existing logistics systems
- As the basis for simulation and emulation



BENEFITS

- Increases planning reliability
- Reduces planning effort
- Simulation and emulation are also available, in addition to visualization



USES

- Planning tool
- Virtual warehouse tours
- Training before implementation and familiarization

EPC – Ehrhardt + Partner Consulting GmbH
 Alte Römerstraße 3 • D-56154 Boppard-Buchholz • Germany
 Telefon (+49) 67 42-87 27 0 • Fax (+49) 67 42-87 27 50
 E-Mail info@epg.com
 Internet www.epg.com

