Industrial Mobility

The term “Industrial Mobility” coins a novel sector, which combines three major research areas: freight mobility, passenger mobility and intelligent transport systems (ITS). Joining these fields with the area of sustainability or sustainable location planning will gather knowledge, which will substantially affect the future developments in the sectors of freight and passenger mobility.

Mobility, transport and ITS are current issues, which are frequently being explored and discussed in science, economy and society. Especially the areas of freight and passenger mobility are being studied and analyzed individually in the literature. However, due to the increasing interconnection in the economy, these contemplations have been outdated and can fulfill the current requirements only partly.

Due to the high traffic density, especially in agglomerations, industrial companies are faced with problems concerning their internal logistic processes. Furthermore, there are only limited possibilities for operational expansions at these business sites, what leads to an efficient working with the available resources. This indicates that within the discussion about freight and passenger mobility, the business area itself plays an important part in the development of mobility.

Therefore, the research area “industrial mobility” follows an approach, which tries to find joining elements between freight traffic, passenger traffic as well as location area and ITS. Sustainability, for example, poses one of these joining elements, whereas the long-term orientation of the research field is being emphasized.

Joining freight mobility, passenger mobility and ITS creates fundamentals for the development of novel methods and approaches in the fields of Physical Internet and corporate mobility management. Furthermore, new developments in the area of freight mobility will efficiently contribute to the mobility processes at business- and industrial areas.

The research field “industrial mobility” focuses on the following questions:

- What kind of new possibilities arise from the joining of freight mobility, economically induced passenger mobility and ITS with reference to sustainability of companies in the context of Physical Internet?
- How can business- and industrial-areas be evaluated under aspects of sustainability?
- How can local sustainability evaluations of business- and industrial-areas contribute to the attainment of national aims concerning Physical Internet?

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