**PROJECT**

**StandPI**

**Cross-system control of transport and intralogistics for sustainable distribution in the physical Internet**

*Systemübergreifende Steuerung von Transport- und Intralogistik zur nachhaltigen Distribution im Physical Internet*

**Funding:** National (Austria)  
**Duration:** Jan 2019 - Dec 2021  
**Status:** Ongoing

**Objectives:**

The research project StandPI enables the efficient usage of Crowdsourcing Delivery for the loading industry. Therefore, internal and external system parameters will be continuously monitored, and these real-time data will be further processed by a machine learning algorithm. By the means of this algorithm, the matching of the loader’s product supply and the dynamic available transportation capacities in respect to Crowdsourcing Delivery will be optimized.

Eventually, in contrast to the nowadays commonly used sequentially controlling and optimization of the transportation and inner logistics systems, the aim of this research project is a self-learning controlling, which acts at the interface of these system, concerning a cross system optimization. Hence, consistent exploitation of the remaining capacities of vehicles en route will significantly contribute to economical, ecological and social sustainability concerning physical distribution.

**Parent Programmes:**  
MOTF - Mobility of the Future

**Institute type:** Public institution  
**Institute name:** FFG - Die Österreichische Forschungsförderungsgesellschaft  
**Funding type:** Public (national/regional/local)  
**Other programmes:** 10. AS Gütermobilität 2017

**Lead Organisation:**

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**Technologies:**  
- Freight transport technologies  
- Integrative logistics strategies  

**Development phase:** Research/Invention

**STRIA Roadmaps:** Network and traffic management systems  
**Transport mode:** Multimodal transport  
**Transport sectors:** Freight transport  
**Transport policies:** Other specified  
**Geo-spatial type:** Other