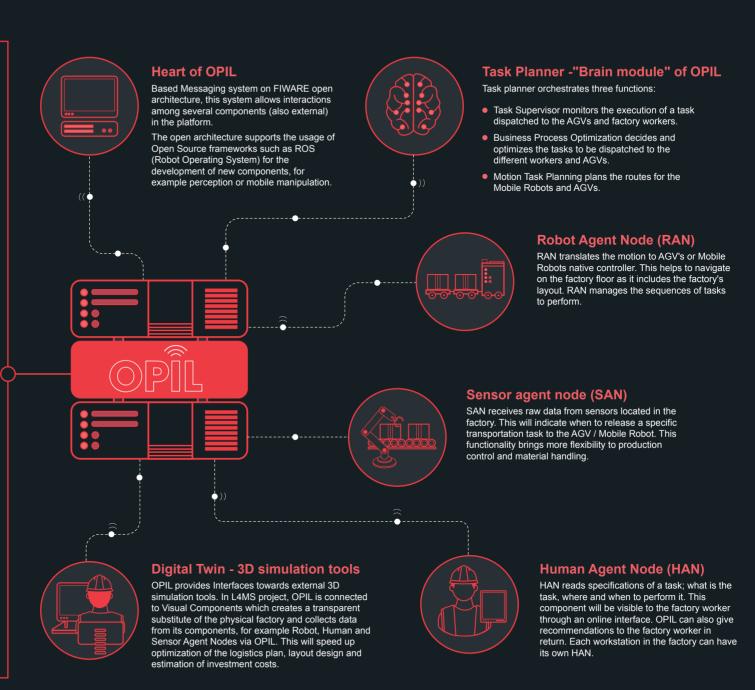
Open Platform for Innovations in Logistics

OPIL is a set of software modules providing ready connectivity with physical factory equipment and other modules for optimal material handling. These include (but not limited to) Mobile Robots, Automated Guided Vehicles, forklifts, workers, sensors as well as IT software such as ERP (Enterprise Resource Planning) system.

In L4MS project, a 3D simulator (Visual Components®) connected to OPIL, allows virtual testing of factory logistics. Due to the identical behavior of the virtual agents (e.g. mobile robots or workers) inside Visual Components and the real physical agents in your factory, the adoption of holistic logistics approach from layout changes to material handling will be smooth and easy. This approach helps to reduce the planning, optimization and installation time of the new logistics solution. For system integrators, this makes the process faster thanks to the data OPIL can provide.

OPIL is based on Open Source components and it supports the adaptation of new technologies and other Open Source frameworks. This reduces dependency of one service provider and cuts back installation time. OPIL also enables customization which is crucial especially for small and medium sized companies.





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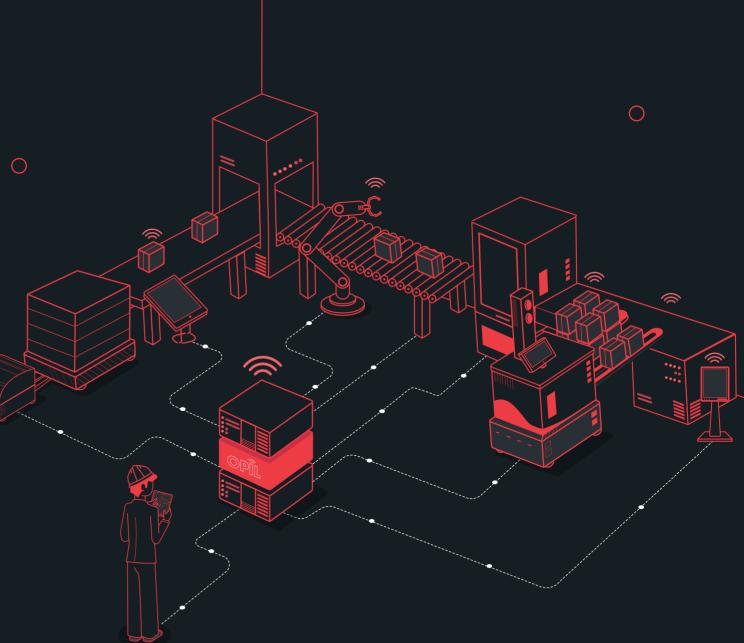
Developers' Guide available at readthedocs.io and DockerHub



Open Platform for Innovations in Logistics

Effective deployment of mobile robots through IoT and virtualization

- L4MS acceleration program offers an Industrial IoT platform OPIL (Open Platform for Innovations in Logistics OPIL) for manufacturers and automation providers to enhance communication between different factory floor elements.
- Automated factory logistic systems are usually configured for one structured, well defined operation environment with one or fleet of Mobile Robots. Costly reconfiguration, scalability and 'vendor lock' brings limits especially for small & medium-sized manufacturers and technology suppliers who often require customization from the solution.
- OPIL can help turn factory's operation environment into a flexible and responsive logistic system by introducing a 3D factory simulator to the process. This enables virtual testing before investment decision and helps validate most cost-effective human-robot-logistics solutions.



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