

Control
Room

Asset
Digitalization

Smart Train
& Vehicle

Smart
Station

Information
Hub



Information Hub

Emerging trends in mobility and logistics field are leading to the need of better handling and integrating huge amounts of data coming from different sources.

A customer-centric approach means that customers can consistently access multiple informations that are easy to view and highly effective.

Enabling mobility and logistics ecosystems that supply e2e services to customers, requires handling an integrated

offer which guarantees interoperability between different players involved in a multi-service, multi-modal and multi-company background.

The ever increasing spread of IoT paradigm can associate the actual matter of production asset with processes and quality of service, enabling a ready for use assets' digital copy (digital twin) which links all the informations in an integrated, detailed and consistent view of the whole transport process.

This transport digital view provides for all we need to increase proactive responsiveness in case of sudden incidents and to make faster, more effective and more accurate analysis for service improvement actions and production optimisation.

That's the landscape where Information Hub plays a critical role processing data coming to and from different transport players, people, means and on-site systems, thus enabling a single digital view of physical events which encompasses future, present and past in an information continuum made of service, operations, staff, users and freight data.

Starting from this data it's possible to make complex analysis through specialised

algorithms which calculate derivative informations (e.g., forecast) and performance markers (e.g., punctuality) in order to detect anomalous situations and generate alerts, therefore enabling rich and advanced reporting features.

All this happens using an inherently multimodal information model based on international standards and market best practice, enhancing interoperability through standard protocols and data exchange, such as GTFS, NeTEx, SIRI, etc. Protocol and format consolidation can increasingly enable the development of open, configurable specialised platforms, which are essential tools for enhancing transformation processes in mobility ecosystems.