

Asset information management for European roads using linked data

European Road OTL framework

The European consortium INTERLINK is conducting a Conference of European Directors of Roads (CEDR) research programme which will improve interoperability between European National Road Authorities (NRAs) and their stakeholders. The aims of the programme are to:

- Explore how we can gather asset information – leading to more effective projects and asset management systems
- Explore BIM data structures
- Establish common principles for the European Road Object Type Library (OTL)
- Design and test the European Road OTL

INTERLINK has now developed this European Road OTL framework, using powerful semantic web technology, which draw on online available standardized open data about roads, traffic and their environment on a European level.

The INTERLINK European Road OTL framework is based on the so-called Hybrid Approach: related to hybrid formats ('multiple languages'), hybrid styles ('multiple ways of modelling' in such a language) and hybrid specifications ('multiple views'). The modern 'Linked Data' approach is used with data not converted but linked together as a network of data sets. This allows you to share infrastructure asset information and knowledge with ease, as well as to integrate current and future BIM standards. It will help stakeholders make informed strategic, tactical and operational decisions about life cycle road asset management.

A roadmap is developed that shows the transition from document to object-oriented road asset management.
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