



AM4INFRA builds a common framework for a European life-cycle based asset management approach for transport infrastructure

Final Results of AM4INFRA

HORIZON 2020 Project

AM4INFRA has received funding from the European Union's Horizon 2020 research and innovation programme under grant 713793.



PROJECT COORDINATOR

Ruud Smit
Rijkswaterstaat
ruud.smit@rws.nl
<http://www.am4infra.eu/>

PROJECT PARTNERS



After two years of intensive work, the AM4INFRA project has delivered a common approach for asset management on transport infrastructure (Figure 1).

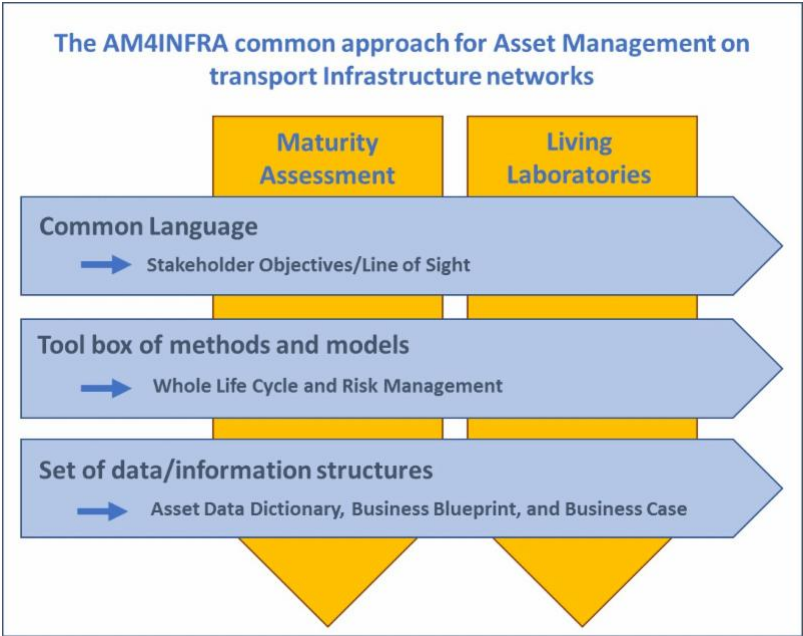


Figure 1. A common approach for asset management on transport infrastructure

The project was structured into three principal work packages for delivery (horizontal blue arrows in the figure). The 1st Work package ("Common Language") provides a common language framework that spans the line of sight from policy outcomes on the overarching transport network level to the condition and



functionality of the individual assets at the deepest operational level. The common framework/language enables transport infrastructure managers to determine what synergetic benefits their mutual cooperation would bring in reference to their respective policy objectives (performance targets) as well as how they could achieve such cooperation without abandoning their specific organisational contexts (legislation, organisation). This is supported by a tool box of methods and models for whole life cycle and risk management that enables transparent and fact-based decision making across the line of sight (Work package 2 - "Tool box of methods and tools"). This in turn is supported by a set of data and information structures and tools, including an Asset Data Dictionary providing common definitions, a common core model for an asset information management system facilitating the exchange and interoperability of data enabling the sharing and comparison of multiple datasets from different sources, and a Business Case providing a concrete example. (Work package 3 - "Set of data/information structures"). (click [here](#) for reports of the three Work packages).

In order to relate the common approach to the objective of learning from the practices of the participating organisations, the project deployed two demonstration and verification activities (the yellow arrows in the figure):

- **Living Laboratories** : A series of three living laboratories were organised in which the approach was demonstrated and verified in a real practice context i.e. on existing section of the national (road) networks. Click [here](#) for the report.
- **Maturity assessment:** Following the model recommended by former CEDR (Conference of European Directors of Roads) Task Group N2, five national infrastructure agencies were assessed on their organisational maturity concerning asset management systems. This quick assessment enables the organisations involved to learn from each other's strengths which in turn deepens the organisations' awareness of their asset management systems. Click [here](#) for the report.

Even though this common approach has been demonstrated and verified in particular for national road networks, it's applicability extends to the supporting regional and municipal networks as well as towards the other modes (rail, waterways) for which several of CEDR's members are also responsible.

Throughout the project the team engaged with CEDR members and relevant other stakeholders in order to raise awareness, trust, understanding and commitment for the common approach. The key events were the three living labs in which other network managers and operators were involved, such as Transport for London, Municipality of Rome, the A24-A25 Toll Motorway, and ProRail. In addition, the project results were discussed in a CEDR Executive Board workshop in March 2018. In June 2018 the CEDR Executive Board discussed and concluded on the legacy of the project (i.e. activities on Asset Management in CEDR after the project's ending in August 2018). The common view emerged that such legacy could be built through the launch of a CEDR Working Group on Network Governance.

This working group has two objectives:

- to provide a standing, strategic advisory board to the CEDR Governing Board: The WG will address the key trends and developments in network management with a horizon of 5 to 10 years in support of common positions of the CEDR Governing Board.
- to provide a knowledge portal to CEDR's members. The aim here is to support CEDR's members with expertise and relevant documentation on asset management, such as guidelines, case examples, learning environments. The Working Group will be launched early 2019.

For more details on AM4INFRA, see www.am4infra.eu watch the videos below or contact the Dissemination and Communication leader [Adewole Adesiyun](#).

- AM4INFRA [project video](#).
- AM4INFRA [Stakeholder meeting video](#)
- AM4INFRA [London Living Lab video](#)