



AM4INFRA to deliver the first ever common European asset management framework approach

PROJECT COORDINATOR

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AM4INFRA is a 24-month H2020 project that is supported by the Conference of European Directors of Roads (CEDR) and ProRail, the Dutch national rail agency.

AM4INFRA aims to deliver the first ever common European asset management framework approach that enables consistent and coherent cross-asset, cross-modal and cross-border decision-making, building on ongoing bottom-up actions, best practices and contemporary experiences of four National Infrastructure Agencies that are considered frontrunners in the development and application of asset management in their networks' governance.

PROJECT PARTNERS

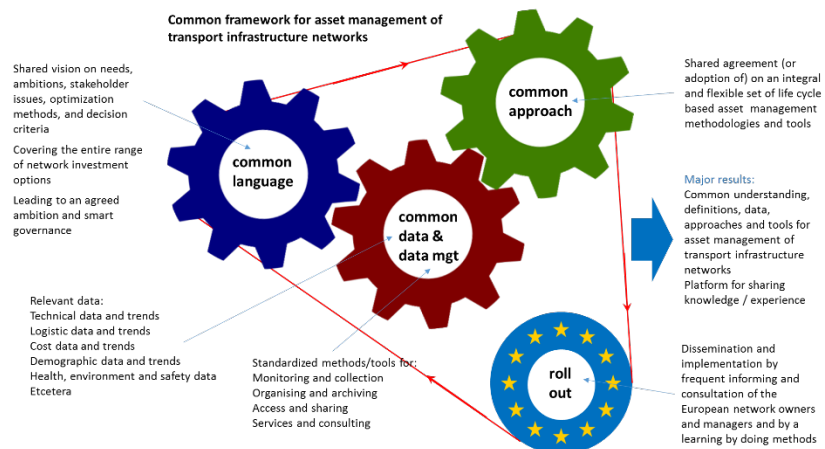


The overall objective of this project is to launch a life cycle and risk based Asset Management framework approach enabling the effective governance of transport infrastructure networks across Europe. The framework approach will be supported by data management tools that ensure the transparency and compatibility of optimisation and collaboration actions of the infrastructure authorities within the modes, across the modes and across Europe.

The overall concept, its major conceptual elements and the targeted results are depicted in Figure 1 below. The envisioned common



framework comprises three major elements: common language, common data and data management, and common approach, represented as three separate cogwheels. These three cogwheel elements need to be aligned and in place to make the framework operational and to enable the roll out to network owners and assist managers in Europe.



Current Status of project

Common Language

The objective here is to develop a common language to push forward in cross-modal and cross-border optimisation of transport networks.

A framework architecture for smart governance of infrastructure networks has been designed that connects new investments to available networks. It includes cross border and cross-modal considerations and it relates to policy ambitions and generic concepts to be pursued. The framework architecture is not a detailed guideline ready for use for infrastructure agencies. It does however provide a very generic overview of the coherence of decision making and optimisation of networks in order to provide best value. Such a generic overview is useful to support a common dialogue and common learning processes. This framework will be followed by specific guidelines that are far more detailed and will be more diversified towards specific challenges or network issues.

Along with the guidelines, the framework architecture will be tested and validated in three living labs. The purpose of the living labs is to demonstrate the added value of the common framework to a setting of external stakeholders. The living labs demonstrations are to be completed in March 2018, in time to utilise the TRA2018 event in Vienna to present the results to an (invited) audience of experts in asset management.

Common Approach

The current practices and criteria for assessing network investment, improvement (major and minor), maintenance and operational needs for 5 - 10 year horizon were reviewed. The emphasis was on the application of a minimum whole life cost (or life cycle) and risk based approach.

As a first step to proposing a framework for adopting whole life cost models and risk based approaches across Europe, building blocks that should be in place, as part of a larger asset management system

HORIZON 2020 Project

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were outlined.

The building blocks (appropriate governance and processes, whole life cost calculation etc.) highlight the essence of established best practice for managing risk within an asset management framework. It is hoped that the simple outline approach will encourage a basic level of investment and consistency across the TEN-T network with the aim of harmonising asset management across the different modes of transport in Europe.

The next task will be to provide case examples of good practice for applying whole life cost and risk based approaches on strategic, tactical and operational levels as well as a framework for adopting whole life cost models and risk based approaches across Europe.

Common Data and Information Management

To support improvement of asset data management across transportation network stakeholders (owners, managers and operators) an Asset Data Dictionary (ADD) has been designed as a first pillar of an asset data common approach. The ADD identifies which are the relevant information and related attributes that can constitute a common data dictionary for asset data management.

The next step will be to design the functional and technical aspects of a possible Asset Information Management System. The application of this system will take place on a specific road stretch of a TEN-T itinerary.

Upcoming activity/event

The first Stakeholder event of the project will take place in October 2017. The main focus will be

- the guideline for the use of the framework architecture, case examples of good practice for applying whole life cycle as well as business blue print of an asset information management core system.
- to present and discuss the three living labs (Italy: Rome Ringway- data and information framework; Netherlands: Eindhoven hub - integrated common framework and UK: Heathrow-London Ring- whole life cycle and risk based models).

For more information, see <http://www.am4infra.eu>, the [Linked In group](#) or contact Project Coordinator Jenne van der Velde at jenne.vander.velde@rws.nl.

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