

## RAGTIME

# RAGTIME Platform Business Offer – available options

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#### **Context**

**Infrastructure asset management** is the combination of management, financial, economic, engineering, and other practices applied to physical assets with the objective of **providing the best value level of service for the costs involved**.

In a constrained budget environment, the operation and maintenance of assets require <u>efficiency and a prioritization scheme</u>.



Shift from a Condition Based Assessment to a Risk Based Approach



#### THE NEED

Transportation authorities are facing severe financial pressures that emphasize the need for developing risk-based asset management plans and financial plans.

#### Up to now:

- Does not exist a harmonised approach for infrastructure asset management;
- Data management and data quality should be improved;
- There is the lack of a common risk-based approach;
- There is the need for a tool able to prioritize and plan asset investments;
- There is the need for building a coordinated asset management strategy at corporate level.

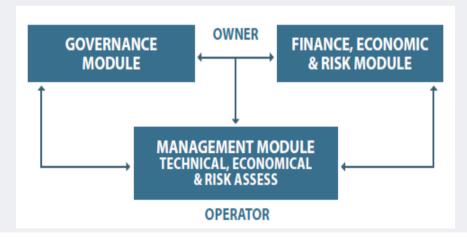




### **RAGTIME's Offering**

RAGTIME develop, demonstrate and validate an innovative management approach and to lay out a planning software platform able to facilitate a holistic management throughout the entire lifecycle of the infrastructure, implementing risk based models and smart monitoring in order to implement effective mitigation actions.

An Advanced Asset Integrity Management (AAIM) system based on three modules:







## The Offering: Governance Module

The Governance Module is a **Lean procurement software** for Tender process.

The innovation content of this module resides in a **lean and innovative procurement process which integrates a standard methodology** for common evaluating the tenders from different administrations and different countries.

**Main Stakeholders** are Public Bodies, Civil Engineering Offices, Construction Companies, Funding and Credit Entities.





## The Offering: Technical Management Module

Technical management module is a group of software tools and App for advanced consultancy projects related to support in the design phase, the construction phase and the maintenance phase of infrastructures.

The innovation content of this module resides in the implementation of a **risk based mitigation actions** in the design, operation and maintenance of the multimodal infrastructure network.

Lifecycle condition assessment advanced solutions are deployed to enable **predictive maintenance** interaction, including the use of Health Monitoring

**Main Stakeholders** are Public Bodies, Civil Engineering Offices, Construction Companies, Funding and Credit Entities and Representatives from the Society.





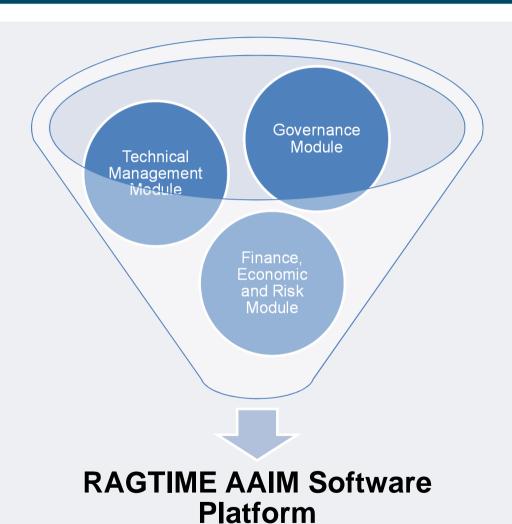
## The Offering: Finance, economic and Risk Module

The Governance Module is a microservice integrated into the RAGTIME platform able to present a **Operational Risks Assessment**. The platform can be accessed via RESTful APIs and the module raises the awareness of the operational risks of the infrastructure during all phases of the life-cycle processes Real-time and dynamic Monitor whenever a risk is about to occur (for those that can be monitored through KPIs).

The module proposes solutions to ensure the **operative continuity of the infrastructure**, **improving the NPV of investing in it**, and thus evaluating the **feasibility of the investment**.

Stakeholders are Transport Infrastructures managing companies







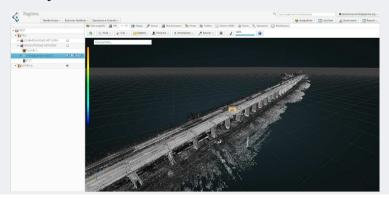


## **The Offering: The AAIM Platform**

The RAGTIME platform is a cloud-based solution able to manage, in an integrated and complete way, the following assets: roads, tunnels, bridges and open rail track, using a risk-based approach.

Predictive maintenance service is provided.

Structural health monitoring (SHM) tool, real-time monitoring and governance tool allow the prioritarization of the risks and keep under control all the assets during the entire life-cycle







#### WHO ARE THE USERS

- Infrastructure Managers and Operators (road and rail)
- ☐ General Contractors (including construction & maintenance companies)
- □ (Public) Authorities which are in charge of monitoring and maintaining the transport network and the related infrastructure (e.g. province or regions, special transport authorities, municipalities, etc.)





### **Available Options:**

- The stakeholders' favourite distribution channel is the provision of a software as a service (SaaS) respect to licensing. The possible reason is that a cloudbased subscription model like SaaS means no expense in acquiring and maintaining in-house servers and operations staff.
- A Freemium Business model for the platform could be taken into account by offering basic-level services for free
- Functionalities of the Platform could be sold as Application Programming Interface (APIs). APIs allow one platform (e.g a proprietary platform of an Infrastructure managing company) to incorporate data or functionality from RAGTIME services



































www.ragtime-asset.eu