

RAGTIME

General overview of RAGTIME

María Zalbide
TECNALIA

Disclaimer: This presentation reflects only the author's views and neither the Agency nor the Commission are responsible for any use that may be made of the information contained therein



This project has received funding from the European Union's Horizon 2020 research and innovation programmes under grant agreement No 690660

www.ragtime-asset.eu

RAGTIME

Risk based approaches for **asset** integrity **multimodal** transport infrastructure **management**

Transportation Asset Management (TAM) has long been recognized as a sound, long-term approach to managing infrastructure. It provides decision makers with a rational, long-term systematic process for making difficult and complex decisions about how to achieve the highest system condition levels for the lowest cost, over the longest term.

*Butch Wlaschin
Director Office of Asset Management
US Department of Transportation
Federal Highway Administration*



Risk: The effect of uncertainty over the objectives *ISO*

Why RAGTIME?

- Infrastructure asset management generally focuses on the later stages of a facility's life cycle, specifically maintenance, rehabilitation and replacement;
- Risk-based approaches are not always integrated
- Network resilience perspective is not implemented throughout the lifecycle
- There is not a harmonized approach

Why RAGTIME?

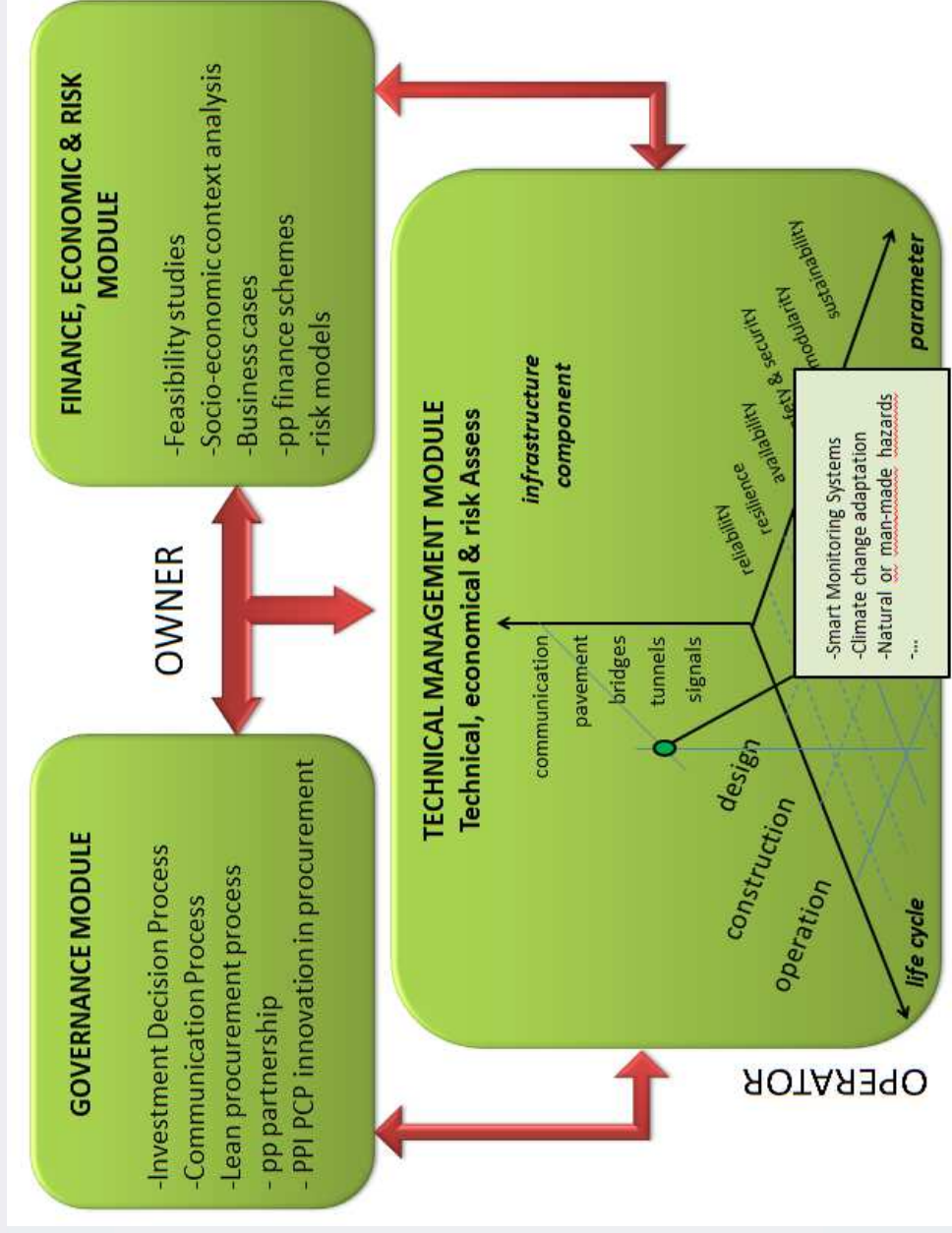
An advanced asset integrity management is needed to meet transport future challenges:

- defining methods and tools for asset tracking along its lifecycle
- determine the life cycle and replacement costs of the assets,
- assist in determining funding strategies, optimise capital investments in operation and maintenance,
- help with the replacement of assets.

RAGTIME: How?

We have developed a validated tool for multimodal infrastructure for their whole life cycle, addressing:

- Lean and innovative procurement processes
- Reliability, vulnerability, sustainability, safety, modularity, accessibility and adaptability concepts
- Risk-based approach processes
- Interoperability and Multiscale data model, capable of managing changing information across all systems,
- Smart Monitoring Systems embedded into the infrastructure



RAGTIME outcomes

RAGTIME has laid out a validated whole system planning **software platform**, able to facilitate a holistic risk-based management of multimodal infrastructure throughout their entire lifecycle.

RAGTIME outcomes

The **validation strategy** applied to the UK, Italian and Slovenian case studies has enabled direct comparison of the project approach and results with current solutions/methodologies applied to a real renewal project.

<https://youtu.be/6JX6VLNnz2k?t=27>



tecnalia

RINA

UC
UNIVERSIDAD
DE CANTABRIA

acciona
Construcción



 **Slovenske železnice**

AON
Empower Results®

 **Antea**
our eyes, your security

 **SMARTEC**

LGi
sustainable innovation

ZAG

 **AISCATSERVIZI**

NetworkRail

FEHRL



This project has received funding from the European Union's Horizon 2020 research and innovation programmes under grant agreement No 690660

www.ragtime-asset.eu