



*Special Issue Reprint*

## **The 1st International Online Conference on Infrastructures**

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Roads are essential for sustainability, the development of resilient transportation networks being one of the Sustainable Development Goals (SDG) for the UN's 2030 Agenda.

There is a need for new visions to improve the efficiency and resilience of infrastructures, prioritizing investments and considering several aspects that can be simplified in KPIs such as in the acronym RAMSSHEEP, which stands for Reliability, Availability, Maintainability, Safety, Security, Health, Environment, Economics, and Politics. Topics related to road sustainability include:

Predictive maintenance to infer the condition rating (CR) to forecast asset deterioration during the whole lifecycle of the infrastructure;

The need for a focus on Sustainability, fostering recycling and reuse of materials;

Need for improving circularity through the large valorisation potential of construction and demolition (C&D) waste;

Fostering digital transition in infrastructure management through BIM as an information model that represents the physical and attribute elements of construction;

Information models for high-value applications from the design to the way to the



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