



Mims

Ministero delle infrastrutture
e della mobilità sostenibili

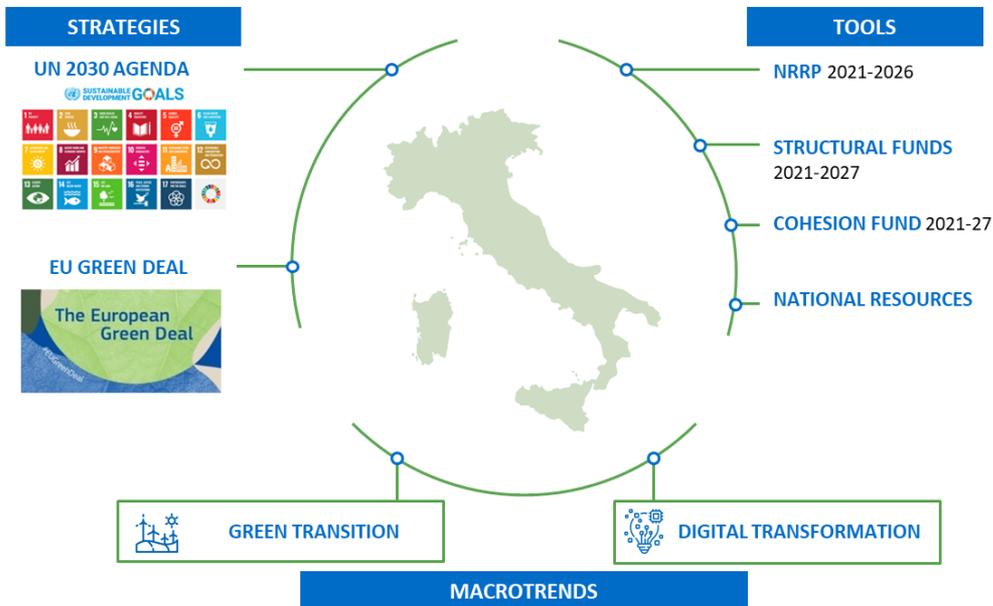


Towards a new framework for sustainable infrastructure assessment

15th Annual Meeting of the OECD Network of Senior Infrastructure and PPP Officials
Infrastructure governance for green and climate-resilient infrastructure

Paris - October 10, 2022

Priorities and policy objectives



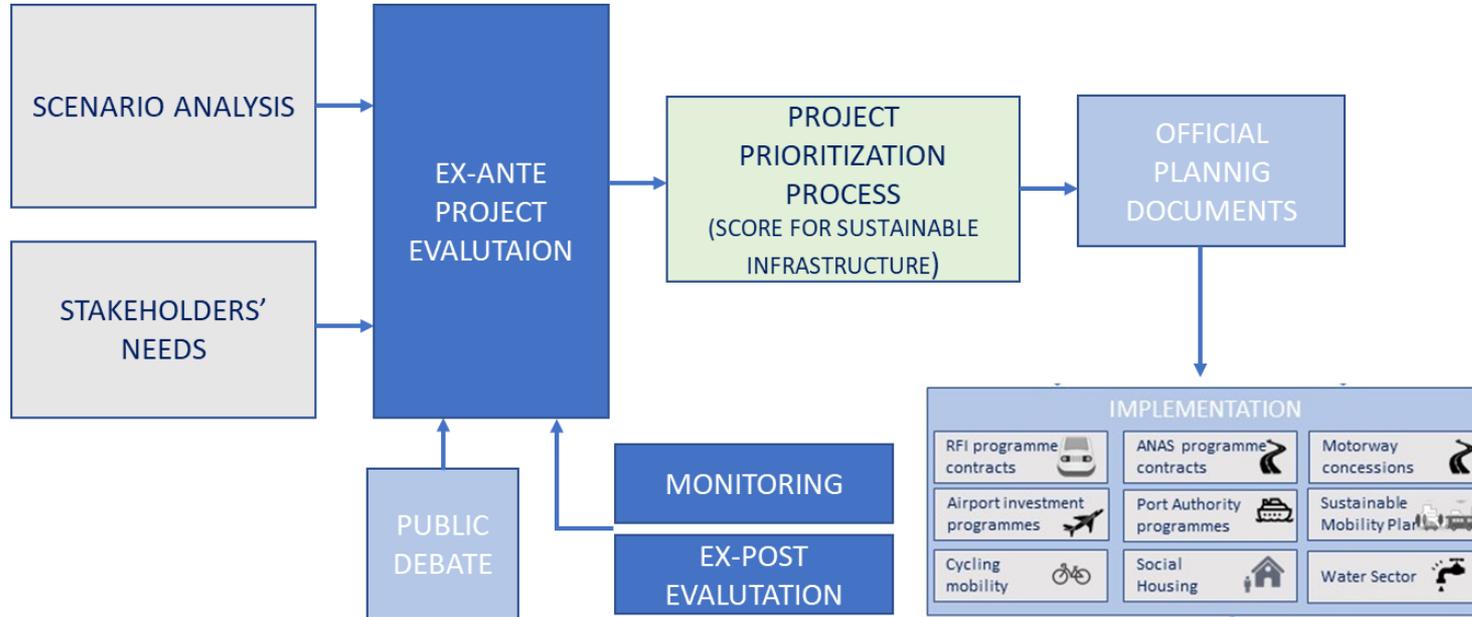
Mims' priorities and objectives



One of the priorities of the Ministry for Sustainable Infrastructures and Mobility has been to carry out the digital and green transition through the **introduction of sustainability in project planning**, the design of **policies to decarbonize transport**, the improvement of **security for all infrastructures against climate change** and the **planning of resilient infrastructure** to accelerate the transition towards a zero-carbon economy.

Our ecological transition is based on a people centred approach through **integrated and systemic interventions aimed at improving the quality of life of citizens** and the competitiveness of companies, **reducing inequalities between various territories**, as new investments in infrastructure and mobility must also ensure the **economic, social and environmental sustainability**.

A new framework for sustainable infrastructure assessment



A new framework for sustainable infrastructure assessment: principles

CONSISTENCY

Policy coherence with clear synergies with respect to action to be taken

EFFICIENCY AND EFFECTIVENESS

Feasible process with respect to timeline and targets

FLEXIBILITY

Defining criteria and scenarios must take into account the uncertainty related to **technological change**

PROPORTIONALITY

Growing level of detail and robustness for the analyses, in accordance with the value of the work and/or its impact

ACCOUNTABILITY

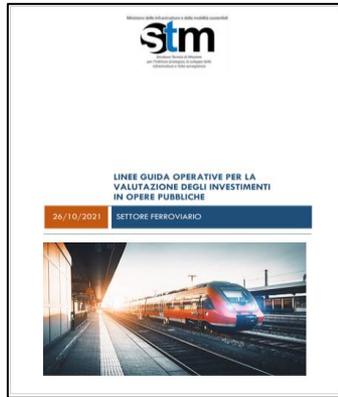
An accountable **decision-making process** in order to ensure a structured **stakeholder engagement**

The need of an integrated set of information

MIMS has published a set of **technical and sector-based Guidelines** with the aim to ensure **a set of integrated** information for project evaluation and assessment

Guidelines for ex-ante evaluation

Railways



Roads



Water sector



Guidelines for the Technical and Economic Feasibility Project of Public Works



“Which/What”

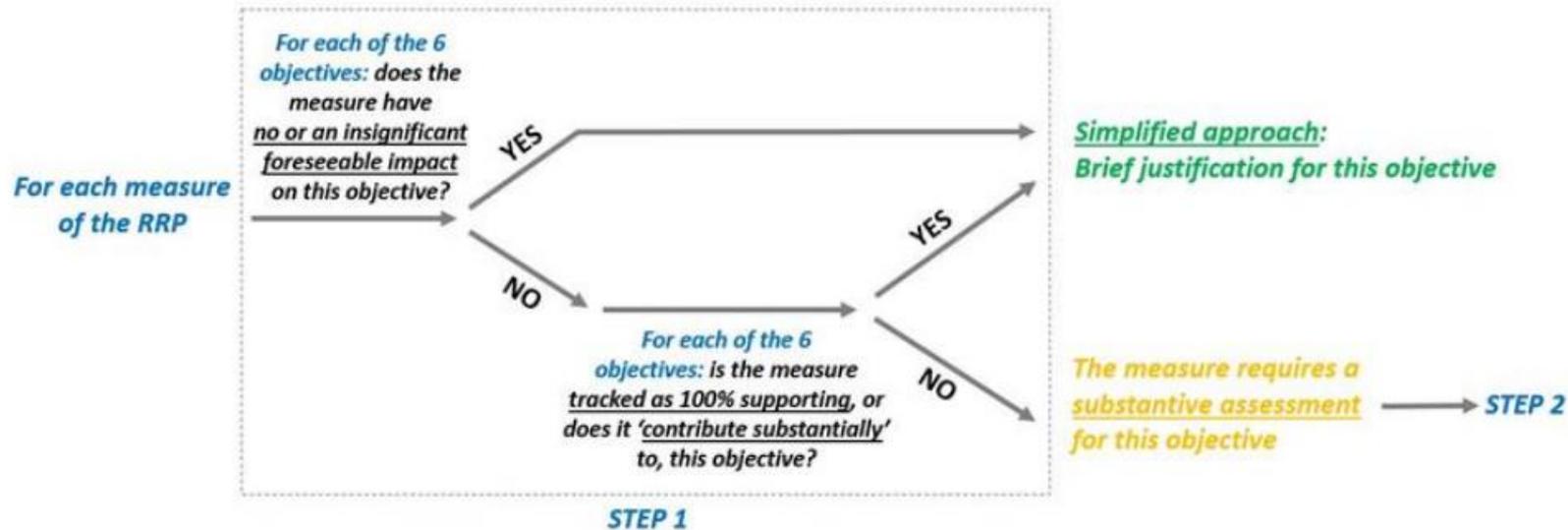
“How”

The Guidelines structure and the “Sustainability Report”

A “**Sustainability Report**” must be presented by project promoter according to following dimensions:

Dimensions	Main elements of evaluation
Economic	<ul style="list-style-type: none">• Contribution to the Sustainable Development Goals (SDGs)• Estimate of medium-long term impacts in terms of economic and social development of the territory
Environmental	<ul style="list-style-type: none">• “Substantial contribution” and DNSH• Carbon Footprint of the work and Energy Balance• Life Cycle Assessment and Resilience Analysis
Social	<ul style="list-style-type: none">• Employment impacts• Measures to protect decent work along the whole procurement chain
Institutional and Governance	<ul style="list-style-type: none">• Policy coherence• Models and tools for stakeholder engagement

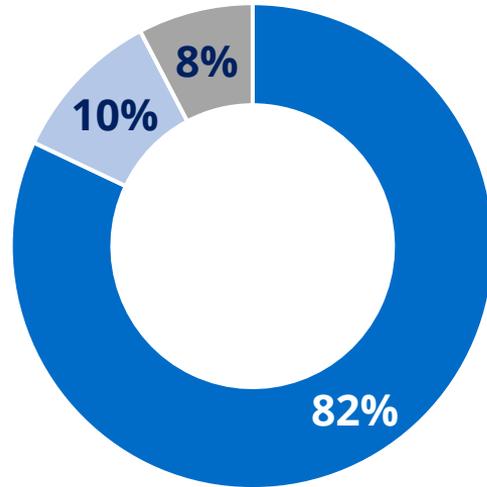
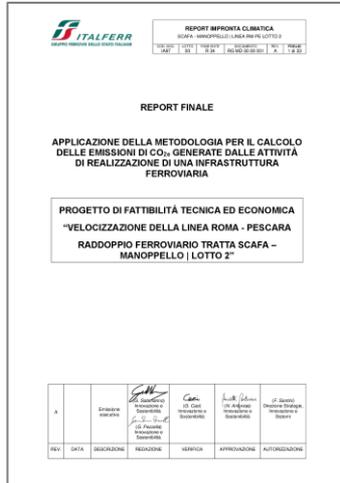
DNSH assessment within the «Sustainability Report»



Decision tree

Sustainability report: infrastructure carbon footprint

An application to a NRRP railway project:



GHG emissions sources

- Construction materials
- Construction material transportation
- Construction site

Sustainability report: mitigation options

An application to a NRRP railway project:

Worst case

- No reuse of excavated materials
- All construction materials are taken «outside»

35.557 tCO_{2e}

Mitigation option

- Reuse of excavated materials (80%)
- Landfilling and other utilization(20%)

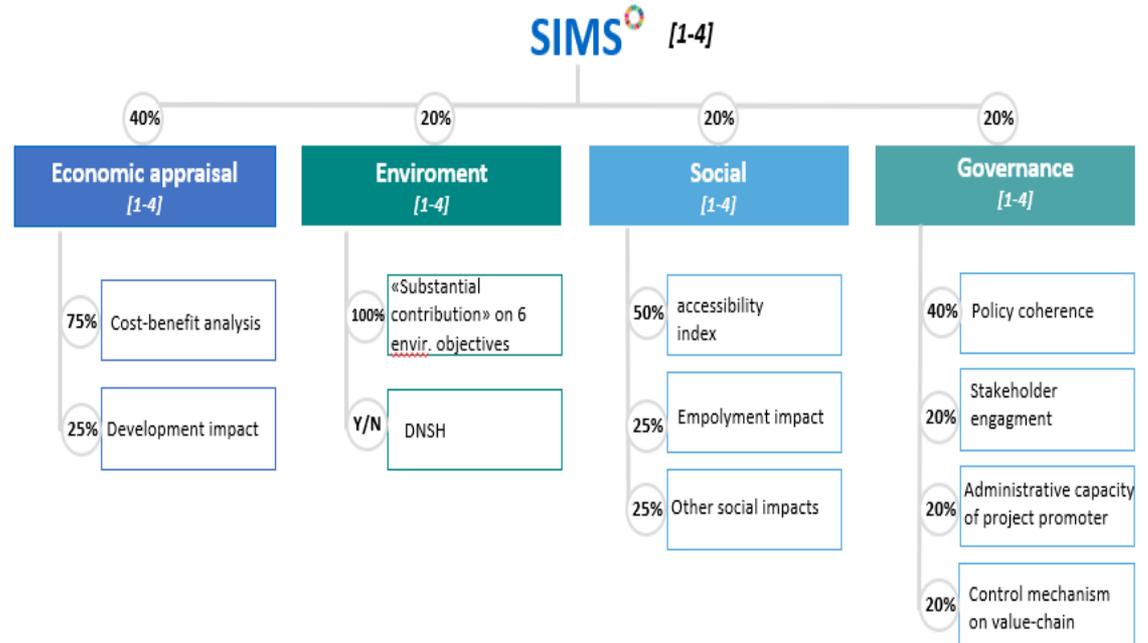
23.865 tCO_{2e}

Saving: -33%
11.692 tCO_{2e}

A scoring model for project prioritization

The Sustainable Infrastructure and Mobility Scoring Model (SIMS)

Every dimensions and sub-domains are evaluated using a **linear scale**:





Thank for your attention