



## INSTITUTE OF ROCK MECHANICS AND TUNNELLING

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# FACT SHEET for the research project MORICE

### SHORT TITLE / ACRONYM

MORICE

### LONG TITLE

Maintenance and Operation of Road and rail Infrastructure subjected to Climate change Effects

### DESCRIPTION

The MORICE project investigates the impact of climate change on transportation infrastructure, led by TU Graz, Vill Ziviltechniker GmbH, and other partners. Running from 2024 to 2027, the project aims to analyse existing infrastructures such as roads, bridges and tunnels and develop adaptation strategies to enhance their resilience to climatic changes.

It involves developing specific inspection methods and monitoring strategies to assess the effects of temperature changes, wet-dry cycles, and other climatic influences. The classification of structures is based on exposure and damage processes. The Institute of Rock Mechanics and Tunnelling (RMT) is tasked with analysing the structural reaction to temperature, developing preliminary methods for water, rock, and material characterization, and utilizing remote sensing methods for terrain monitoring. Workshops and a comprehensive project report aim to distribute the findings and lay the groundwork for future standards and guidelines. The goal is to address both short- and long-term impacts of climate change and integrate the findings into new RVS standards, better preparing Austria's transportation infrastructure for future challenges.

Ultimately, MORICE seeks to significantly contribute to the resilience and sustainability of Austria's transportation networks, ensuring their safety and functionality in the face of climate change.

### PROJECT COORDINATOR

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