

## Foreword

Transport infrastructure represents a significant sunken public and private investment that is fundamental to the functioning of society. These assets are often long-lived and, if regularly maintained, are designed to deliver specified and predictable services over their entire lifetime. Hazards that may degrade asset performance or interrupt network services are generally well-known and are accounted for in transport infrastructure, network planning and design. Thus, even though the natural variability of extreme weather events have sometimes caused significant disruption, these risks were knowable and their impacts have historically been mitigated. With climate change, this is no longer true. This report reviews the range of threats to transport system performance that are posed by climate change and provides guidance to transportation asset owners and network managers to help ensure asset integrity and contribute to continued network performance.

This report benefitted from the contributions of many individuals. Substantial inputs to the work were provided by Butch Wlaschin, Chair of the Working Group, Bill Dwyer, Arianne Dupont-Keiffer, Matthew Karlaftis, Gabrielle Grimm and Denis François. The report's principal authors were Pekka Leviäkangas (Chapters 2 and 3), Michael Taylor (Chapter 3) and Philippe Crist (Chapters 1, 2, 3, 4 and 5). Shinri Sone and the Institute for National Institute for Land and Infrastructure Management (Japan) hosted an invaluable Working Group seminar and a series of technical visits. Dominique Bouquet provided essential support throughout the course of the project and Liv Gudmundson capably edited the report.