

Rodney van der Ree

Abstract 1 | Mitigating the ecological impacts of transportation infrastructure – A compilation of global case studies

One of the greatest challenges in planning and designing roads, railways and other linear infrastructure is that there is no single book containing mitigation knowledge and experience. Consequently, many engineers, planners and project managers are still unaware of the accumulated knowledge and experience that the ‘road ecology’ community has amassed through research and experience.

To address this, I am proposing to edit an open access book that brings together case studies of mitigation from around the world in an accessible style and format. Ideally, each case study will:

- Be co-authored by an ecologist and a designer and/or engineer who were both involved in the project
 - Include things that worked as well as those that didn’t - because failures are just as important as success!
 - Be written for ecologists, engineers, planners, landscape architects and project managers, etc. Importantly, the book will include:
 - Case studies that are geographically and taxonomically diverse
 - Be widely sourced from all continents
 - A companion website with a rich diversity of supplementary material, such as videos, photos, project plans and reports to enhance the reader experience. This book will be published as an open access E-book, so that everyone, everywhere, can access it at anytime, for free! There are two invitations
1. Content: Do you know of any mitigation projects that must be highlighted in this book? Maybe it is yours and you would like to write it, or maybe it is one you know of.
 2. Funding: High-quality open-access books are free to read, but are expensive to produce. There are two potential funding models I am pursuing:
 - If the chapter authors have sufficient financial support, they pay a modest publication fee;
 - Sponsorship from road agencies, development banks, private companies, NGOs or philanthropic sources to fund the whole project or in part.

If you are interested in being involved as an author, funder or eventual reader, please email me at rvdr@unimelb.edu.au

Bio | Rodney van der Ree



Rodney van der Ree is the Director of Ecology and Infrastructure International Pty Ltd – a research and consultancy company focussing on the interactions between ecology and built infrastructure, such as roads, railways and cities. He is also an Adjunct Associate Professor in the School of BioSciences at The University of Melbourne where he undertakes applied ecological research and student supervision. Rodney is recognised internationally as an expert on the ecology of linear infrastructure, such as roads, railways and utility easements and has presented the results of his research in plenary lectures and invited seminars across Australia and in Europe, USA, South Africa, and Asia, including India, Singapore, Vietnam, Malaysia and Taiwan. He consults widely with industry, government and NGOs, including with all levels of Government in Australia, the European Union and elsewhere. Rodney co-founded the Australasian Network for Ecology and Transportation (www.ecologyandtransport.com) and edited the international award-winning 62-chapter “Handbook of Road Ecology” , with over 100 authors from 25 countries. Rodney has authored or co-authored over 70 refereed publications, 80 reports or popular articles, 100 conference presentations or public lectures and >30 media appearances.