



20th Transport Sector Coordinating Committee Meeting

24–25 May 2023 • Tbilisi, Georgia

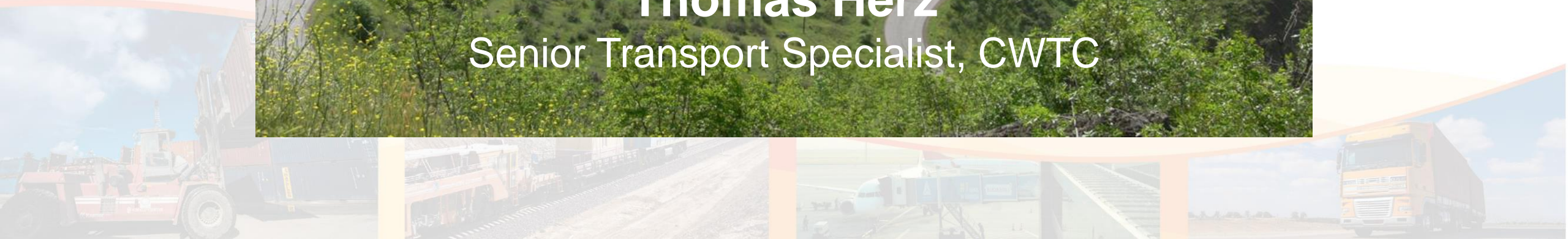
20-е заседание Координационного комитета по транспортному сектору

24–25 мая 2023 года • Тбилиси, Грузия

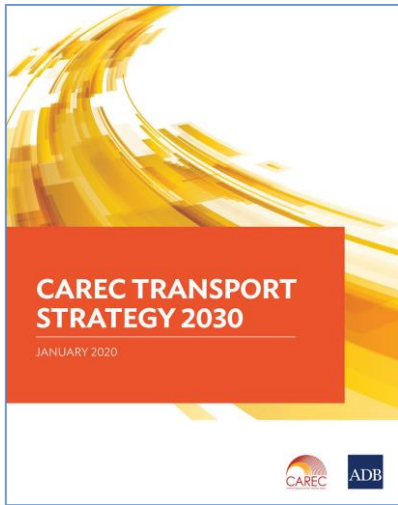


ADB and Road Asset Management

Thomas Herz
Senior Transport Specialist, CWTC



Guiding Documents for Road Asset Management

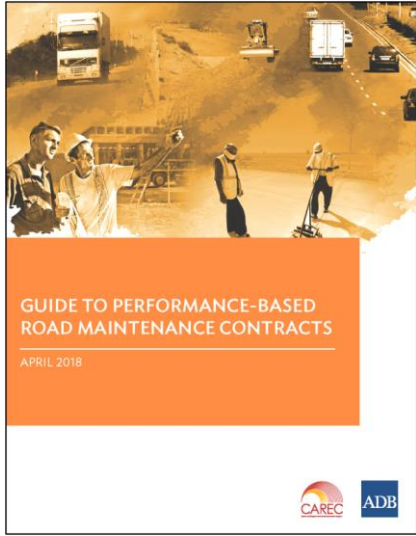


- **CAREC Transport Strategy 2030** pays high attention to establishing effective and efficient practices of road asset management (RAM) across the CAREC region.
- CAREC countries invested considerably in improving their highways.
- Management of these new and old road assets remains a challenge.
- The key premise of RAM is: Preventive knowledge-based maintenance extends the road asset life without capital repair.



- **Compendium of Best Practices in Road Asset Management** provides a general introduction to the concept of road asset management and Presents the best practices for the introduction and development of road asset management.
- Elaborates on the objective of road asset management to optimize economic benefits by minimizing maintenance costs and road user costs.
- Reflects common problems the different CAREC member countries face.
- Presents the most successful solutions in the development of road asset management.

Guiding Documents for Road Asset Management

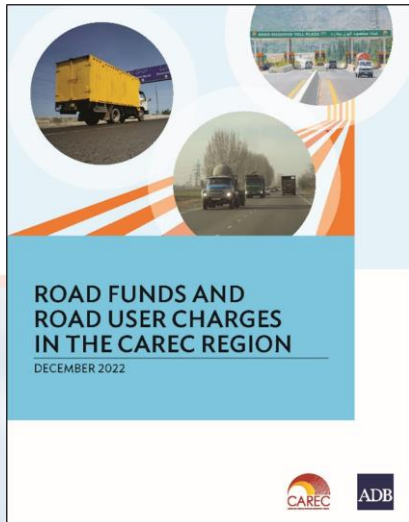


The objective of this **Guide to Performance-Based Road Maintenance Contracts** (PBC) is to assist CAREC member countries to better understand the concept of PBC and its implementation.

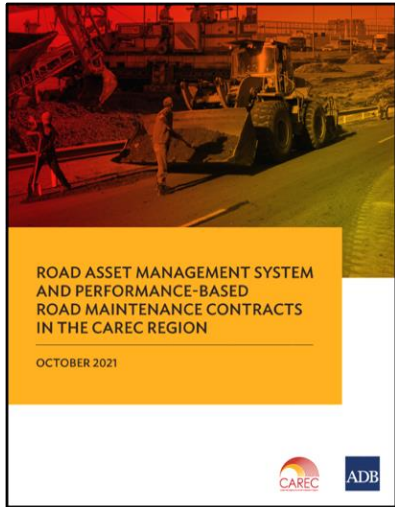
- Describes different delivery modes of road maintenance, a brief history of PBCs, discusses advantages and disadvantages of the contract modalities.
- Defines various types of PBCs and their variable elements e.g., scope, duration, extension, performance levels, payment and incentive systems, and risk mitigation.

Road Funds and Road User Charges, published in December 2022 aims to improve the financing, management, and maintenance of CAREC road corridors through the sharing of best practices regarding road funds and the earmarking of road user charges.

- For five CAREC member countries an assessment of their road funds was undertaken, including their history and current operation.
- Presents the institutional aspects and operational procedures of the road funds in the CAREC region, and the road user charge revenues that finance them.
- drawing lessons for the introduction and continued development of road funds in the region and beyond.

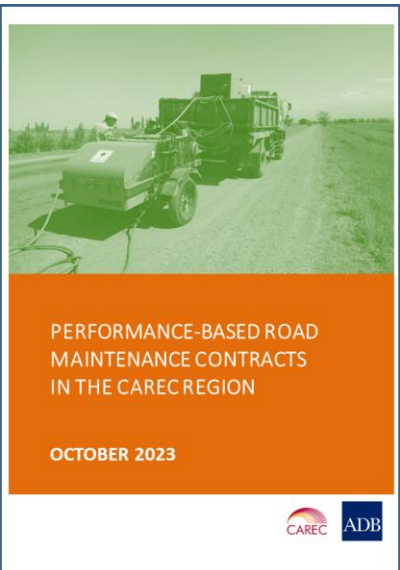


Guiding Documents for Road Asset Management



Published in 2021 the **Status Assessment of RAM and PBC** aims to improve the management and maintenance of CAREC road corridors through the sharing of best practices that exist within CAREC countries regarding RAMS and PBCs.

- For each CAREC member country, presents an overview of the road network,
- the institutional responsibilities for its management,
- the involvement of government units and private sector contractors,
- the levels and sources of funding for the road sector and especially for road maintenance and repairs,
- lessons learned and a way forward for future activities.

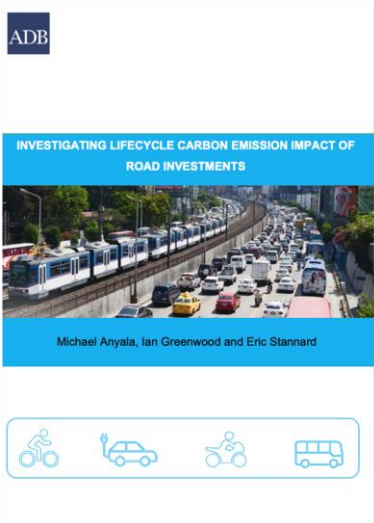


This latest publication on **Performance Based Road Maintenance contracts (PBRM)**, will be published in 2023 shares the best practices that exist within CAREC countries regarding (PBRM) and examines:

- Contract scope
- Performance standards
- Inspections
- Response times
- Payments and deductions
- Procurement and contract costs

The publication will identify lessons learned for the improvement of PBRM contracts.

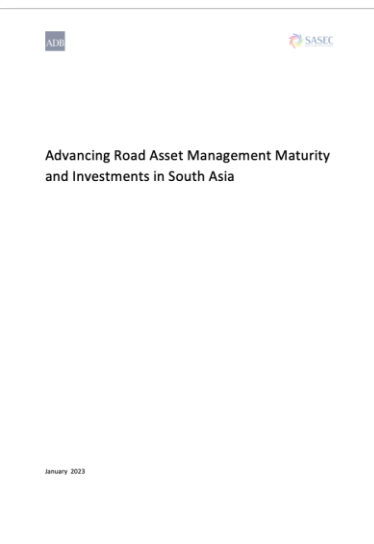
Guiding Documents for Road Asset Management



This publication: **Investigating Lifecycle Emission Impact of Road Investments**, to be published in 2023 will present a toolkit for evaluating CO₂e emissions related to various road investment policies, strategies and projects.

Presents a comprehensive methodology for lifecycle assessment of road transport emissions, using a toolkit that works with the widely used HDM-4.

The tool can be applied by practitioners to guide decisions on effective avoid-shift-improve measures to reduce emissions and plan road projects and programs that are aligned with the goals of the Paris Agreement on Climate Change and the 2030 Sustainable Development Agenda.



This forthcoming **Advancing Road Asset Management Maturity and Investments in South Asia** study covers six countries in South Asia. The scope includes assessment of the quality of the road asset management within each country, promoting the assurance that any future investment in infrastructure will deliver the full benefits expected of it.

A Strategic level assessment of funding needs for the existing road network then provides a key input to the development of a sustainable funding model in each country.

The study reaffirm the scale of work to be undertaken to achieve the development goals across the region and provide a basis for further country specific and regional support.

Recap of Highways Workshop from 22 May 2023

Session 1:

- **Road Funds and Road User Charges in the CAREC Region** - Mr. Serge Cartier, Road Asset Management Specialist, ADB Consultant
- **Evolution of the State Road Fund in Mongolia** - Mr. Martin Horseling, Consultant EBRD
- **Mapping the Future of Road User charging for sustainable roads** - Mr. Michael Anyala, Senior Transport Specialist, ADB

Session 2:

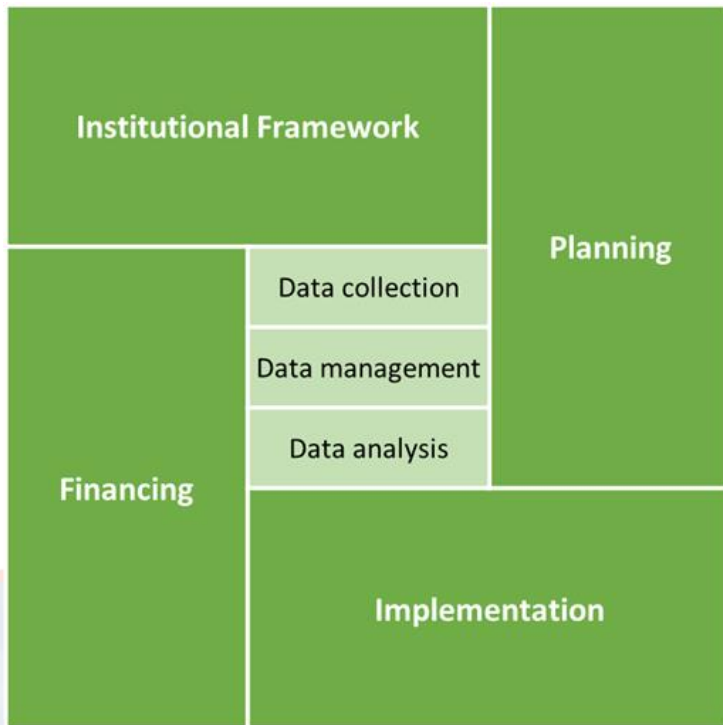
- **Road asset management maturity in CAREC and lessons learnt from SASEC** - Mr. Ian Greenwood, Road Asset Management Specialist, ADB Consultant

Session 3:

- **Performance based contracts in the CAREC region** - Mr. Serge Cartier, Road Asset Management Specialist, ADB Consultant
- **Performance based contracts in the CAREC region (cont'd)** - Mr. Irakli Kobidze, OPRC Contracts Manager, Roads Department of Georgia

Session 4:

- **Monitoring of road asset management in the CAREC region** - Mr. Michael Anyala, Senior Transport Specialist, ADB



Key take aways of Highways Workshop 22 May 2023

- Active participation and interest by the delegates.
- General agreement for the need to improve RAMS beyond data collection and roughness assessments, adopt a holistic view.
- Recognition of the considerable efforts undertaken by ADB in the preparation of knowledge products on RAM, funding and user charges, contract modalities, RAM maturity assessment, and effects of decarbonization on road funding.
- Discussed future activities such as introducing a monitoring mechanism for tracking progress in RAM development.



Key take aways of Highways Workshop 22 May 2023

Reactions by participants:

- Active participation in the event and presentations.
- Strong interest by participants in future events such as the HWW.
- Country presentation by Georgia on OPRC generated strong interest.
- Representatives from Pakistan and Uzbekistan expressed interest in including their countries in the ADB study on Mapping the Future of Road User Charges.
- Representatives indicated that they would be keen to be consulted on topics for future HWW events



Key take aways of Highways Workshop 22 May 2023

Topics raised:

- Severe underfunding of road maintenance needs is a challenge.
- Interest in studying the relationship of GDP growth and increase in maintenance spending.
- Assess PPP options to address the funding gap.
- Continue to assess the effect of RAMS on technical condition of the road, reduction in crashes.
- How to include road side establishment in the funding of maintenance,
- Assess the impact of corruption on road and road asset management investments.
- Assess the effects of long term international loans on road network development.
- Use of new technology in road construction and maintenance, particularly in mountainous countries.
- Issuing of a RAMS Action Plan that is guiding further development of road asset management

Key take aways of Highways Workshop 22 May 2023

Proposed Next Steps

1. ADB will support implementation of a study to finalize indicators for monitoring progress in Road Asset Management in alignment with RAM objectives of the CAREC Transport Strategy.
2. Deliver additional workshops (in coordination with CAREC institute) focusing on specific topics of interests such as PBCs.
3. Assess the possibility to incorporate the feedback received during HWW in ongoing and future studies.



Thank you

Thomas Herz, Senior Transport Specialist
therz@adb.org

