



**Draft Knowledge and Capacity Building Needs
for the CAREC Road Working Group (2026–2028)**
(For discussion and adoption at the 1st Road WG Meeting)

As of 10 Mar 2026

AZE

1. RAM: Digital asset inventory and condition assessment systems, PBM, WIM
2. Road Safety: Safety engineering and EU-aligned standards.
3. Digitalization: Single-Window transport digitalization, ITS
4. Climate Resilience: Climate-resilient road design.

GEO

1. RAM and Maintenance: PBM, integration of AI tools, tunnel Maintenance
2. Road Safety
3. Environmental and Social Safeguard
4. Procurement: FIDIC Contract Management

KAZ

1. Road Safety: Digital solutions
2. Design and Maintenance: Assessment of emerging technologies and pavement mixes.
3. AI-based construction and rehabilitation technologies

PAK

1. RAM and Maintenance: Life-cycle costing, Maintenance prioritization tools
2. Road Safety: RSA and Inspections, Institutional strengthening for enforcement
3. Digitalization and Technology
 - Intelligent Transport Systems (ITS)
 - Traffic monitoring and analytics
 - Electronic tolling and enforcement
4. Climate-resilient Infrastructure
 - Resilient design and materials
 - Risk assessment and vulnerability mapping
 - Emergency response planning
5. Project preparation and PPP capacity
 - Feasibility and economic analysis skills
 - PPP structuring and risk allocation

TAJ

1. RAM and Digitalization
 - Development of digital asset inventory and condition assessment systems
 - Training on preventive maintenance planning.
 - Capacity in axle-load control and weigh-in-motion enforcement.
2. Climate Resiliency: Climate-resilient design (mudflow, slopes, geohazard mitigation).
3. Design Modernization
 - Modern design and maintenance standards.
 - Value Engineering.

PRC, KGZ, MON, TKM, UZB: No specific requests