

# Renewal of Mountain Tunnel Linings in Service

– A method for partial lining replacement while maintaining traffic flow –

Aging tunnel linings develop cracks and persistent water leakage. As deterioration progresses, structural capacity is reduced, leading to increased overall vulnerability.

Our method enables in-service renewal by removing damaged lining concrete, adding waterproofing, and constructing a new lining layer. Pilot construction is underway on expressway tunnels in 2025 and 2026.

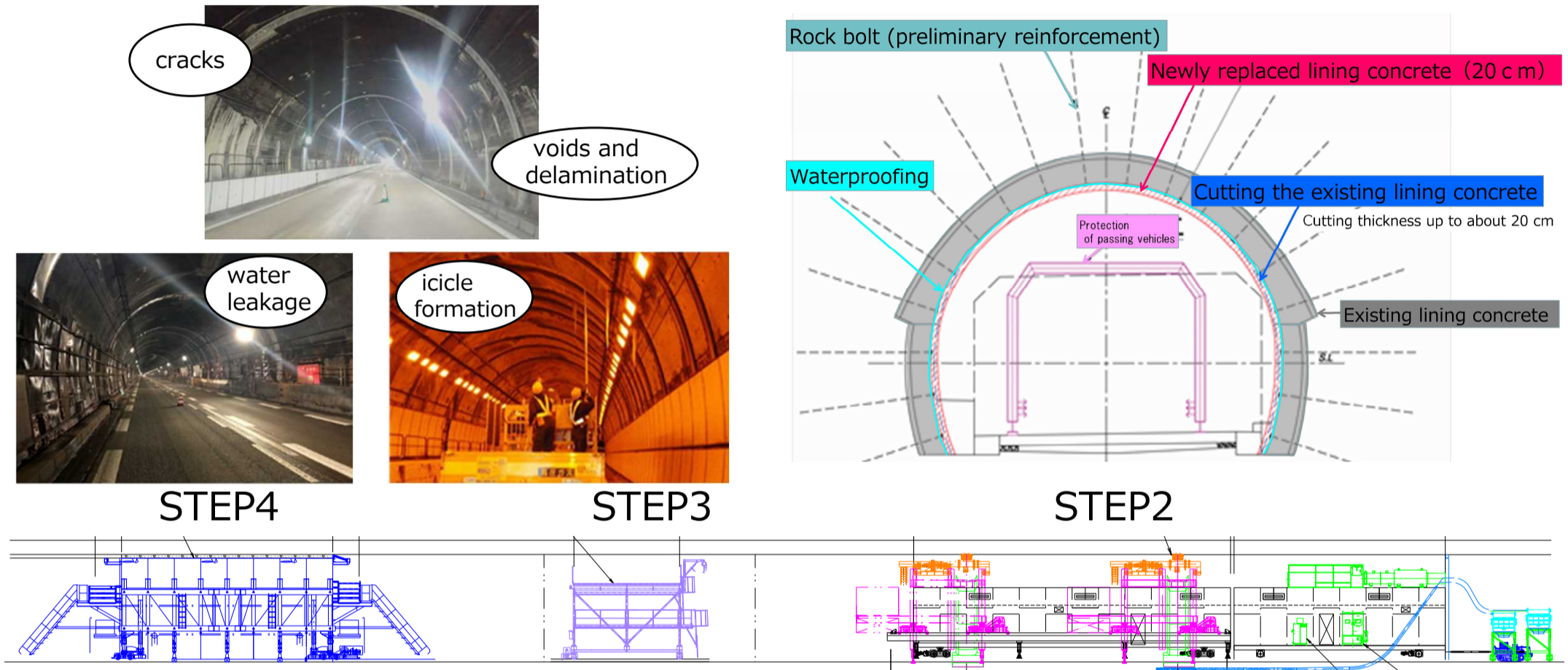


Fig. Construction system (appearance diagram)

Construction direction →

