

Transportation Network Cascade Resilience

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Transport Cascade Reality

Documented cascade events: Suez Canal Ever Given (2021), East-Coast U.S. port disruptions (2024), aviation-network cascades from major weather events. Cross-network coordination operates through DOT, FAA, USCG, and emerging private-sector platforms.

Climate-driven transport disruption intensifies cascade complexity.

Cascade Substrate

Each transport-network party contributes credentialed topology and operational observations. Cross-network cascade analysis operates through declared federation; cross-mode operations admit through declared multi-mode federation.

Preemptive cascade-mitigation (alternative routing, capacity reallocation), cascade-halting, and post-event reconstruction all operate against architectural records.

Transportation Resilience Trajectory

Emerging climate-resilient transport frameworks, emerging supply-chain resilience reform, emerging multi-modal coordination standards all benefit from architectural cascade substrate.