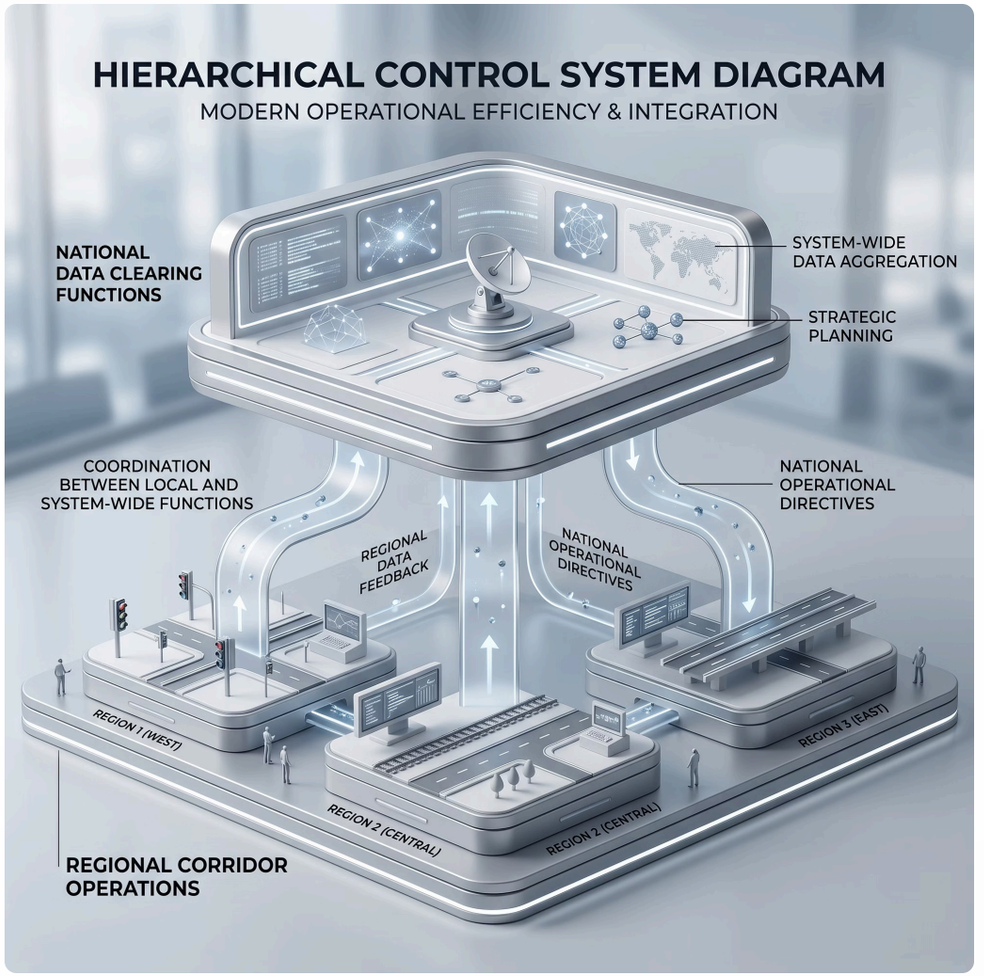
Regional & National Control Center Architecture

A unified framework for corridor operations, incident management, and national-scale interoperability.

Two-Tier Control Architecture



A **two-tier model** separates day-to-day corridor operations from national-level data and financial functions — enabling both local responsiveness and system-wide coordination.

Regional

Corridor & field operations

National

Clearing, settlement & analytics

Regional Control Centers

Frontline operations across corridors — real-time monitoring, incident response, and traveler information.

Regional Center Functions

Corridor Operations

End-to-end monitoring and management of designated road and transit corridors.

CCTV Monitoring

Live video feeds across the corridor network for situational awareness and incident verification.

Incident Management

Detection, classification, and coordinated response to disruptions and emergencies.

VMS Control

Dynamic messaging to drivers via variable message signs for guidance and safety alerts.

National Control Centers

The backbone of system-wide financial integrity, interoperability, and strategic intelligence.

National Center Functions

Clearing

Reconciliation of transactions across operators and corridors.

Settlement

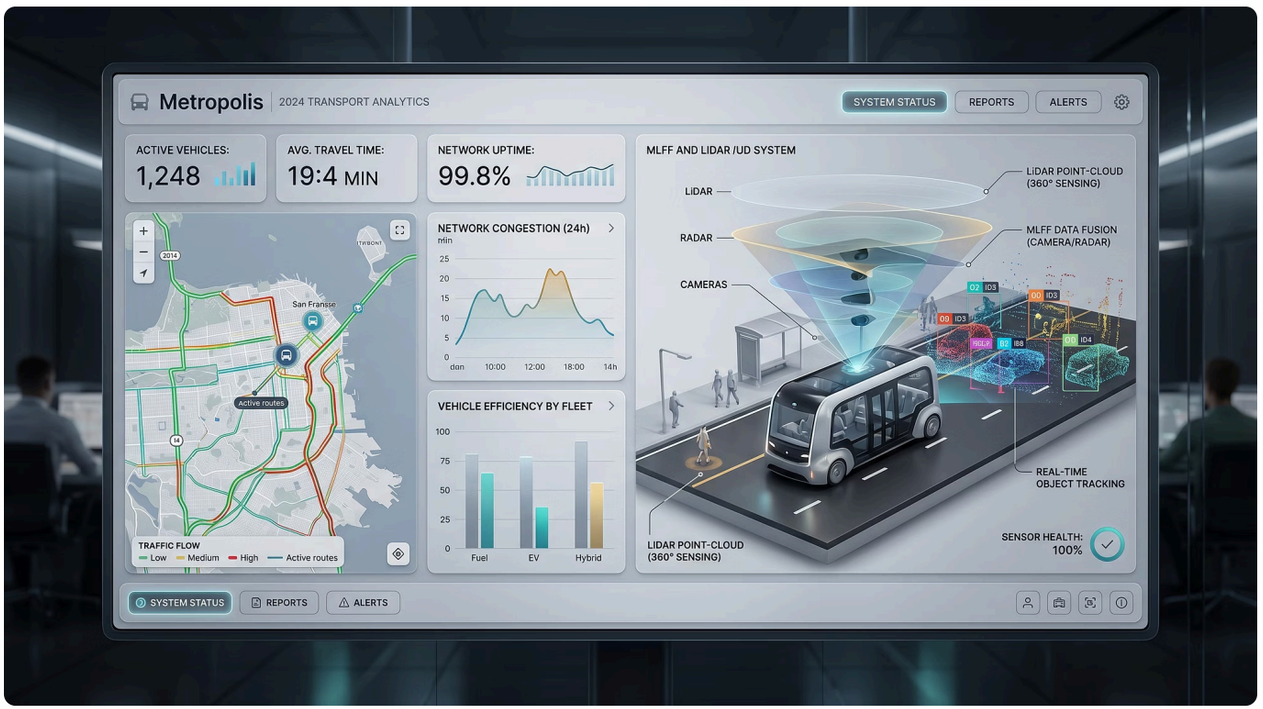
Financial settlement between participating agencies and operators.

Analytics

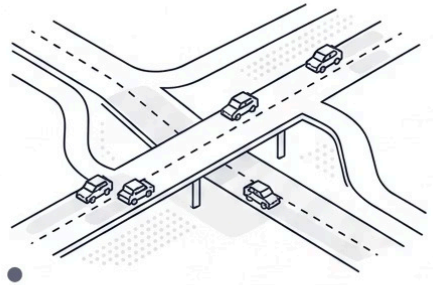
Aggregated performance data, reporting, and demand insights.

Interoperability

Seamless integration across regional systems, standards, and protocols.



Regional vs. National: Key Distinctions

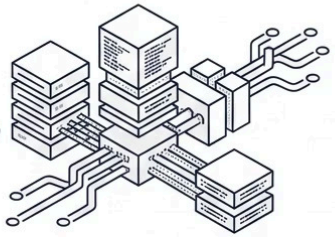


CORRIDOR OPERATIONS

CCTV
& INCIDENT
MANAGEMENT

FIELD VMS CONTROL

REGIONAL: FIELD-LEVEL,
REAL-TIME, LOCALIZED



CLEARING & SETTLEMENT

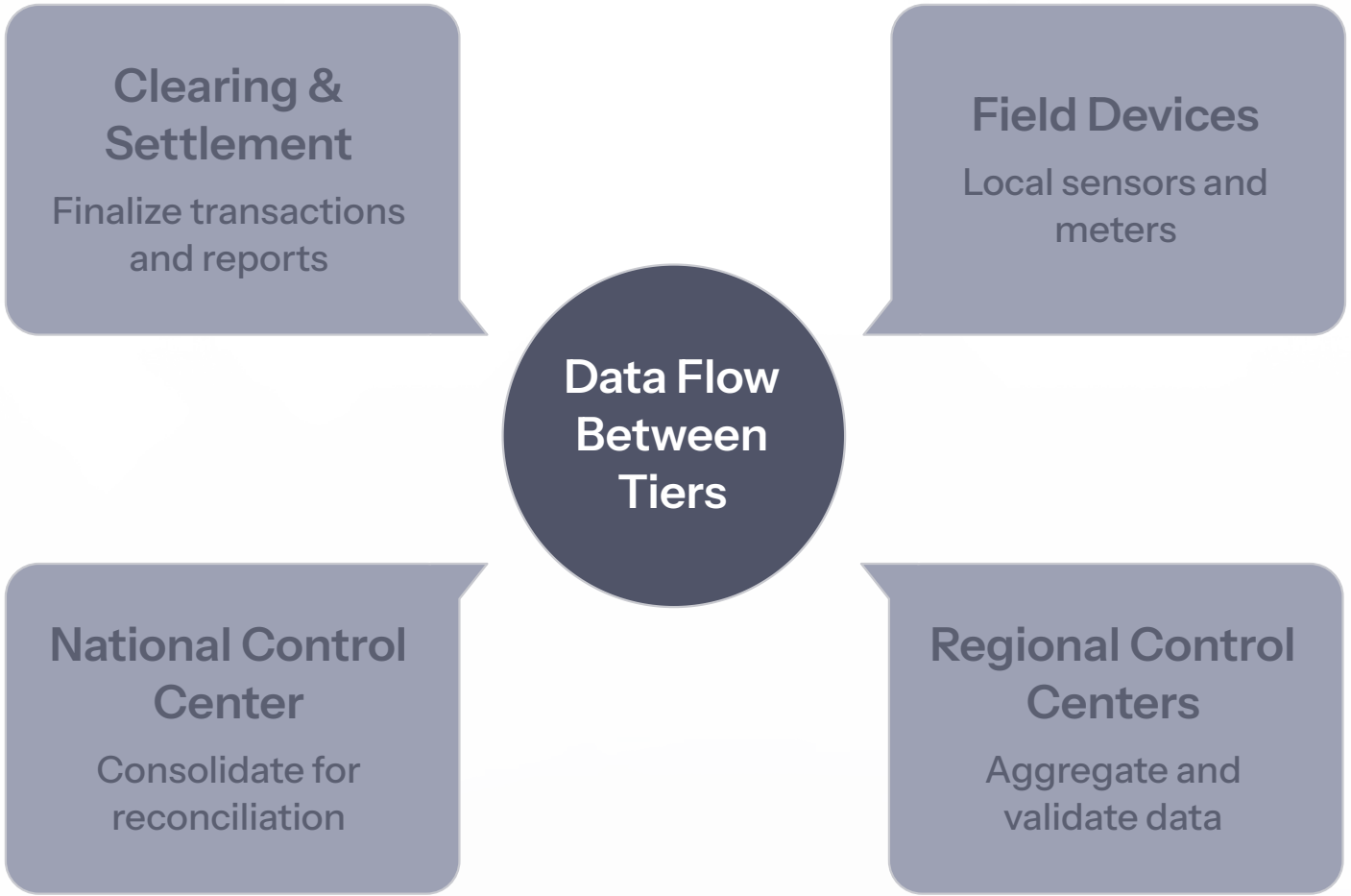
ANALYTICS & REPORTING

SYSTEM INTEROPEIABILITY

NATIONAL: SYSTEM-LEVEL,
FINANCIAL, STRATEGIC

Each tier has a distinct mandate — regional centers prioritize **operational responsiveness** while national centers ensure **financial accuracy and system cohesion**.

Data Flow Between Tiers



Operational data generated at the regional level flows upstream to national systems for aggregation, reconciliation, and strategic reporting.

Interoperability by Design

The architecture is built to bridge regional boundaries — ensuring travelers, operators, and agencies experience a **seamless, unified network** regardless of jurisdiction.

Architecture at a Glance

Full architecture diagram available for download — contact your regional systems coordinator for the latest version.