SHRP2

STRATEGIC HIGHWAY RESEARCH PROGRAM

Accelerating solutions for highway safety, renewal, reliability, and capacity

Regional Operations Forum
Planning for Operations

TRANSPORTATION RESEARCH BOARD

OF THE NATIONAL ACADEMIES

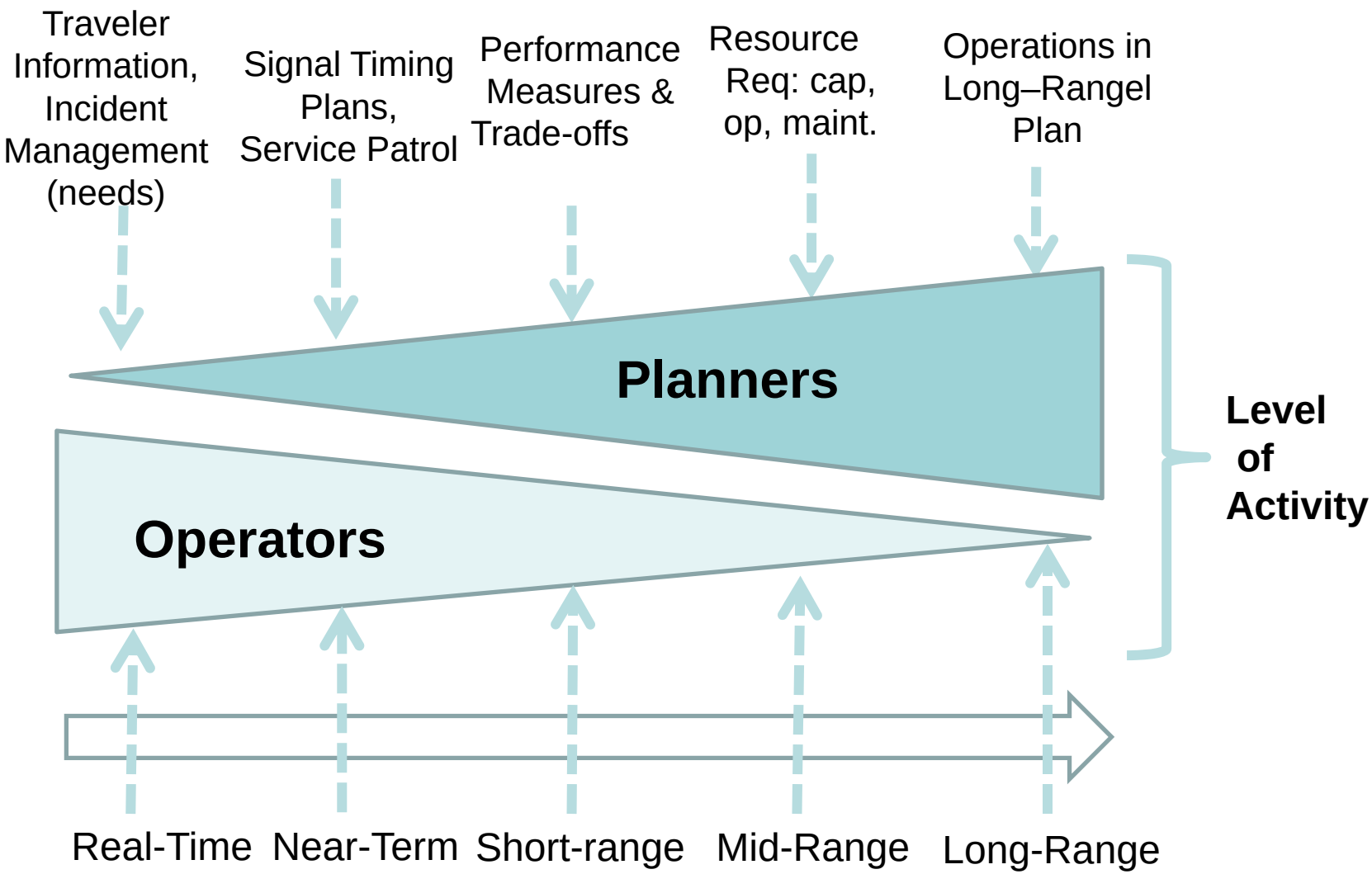
What do our travelers want?

Consistency across modes & jurisdictional boundaries

ordinated Across the Region

What is Planning for Operations?

Operators/Planners Collaboration



How about the Congestion Management Process (CMP)?

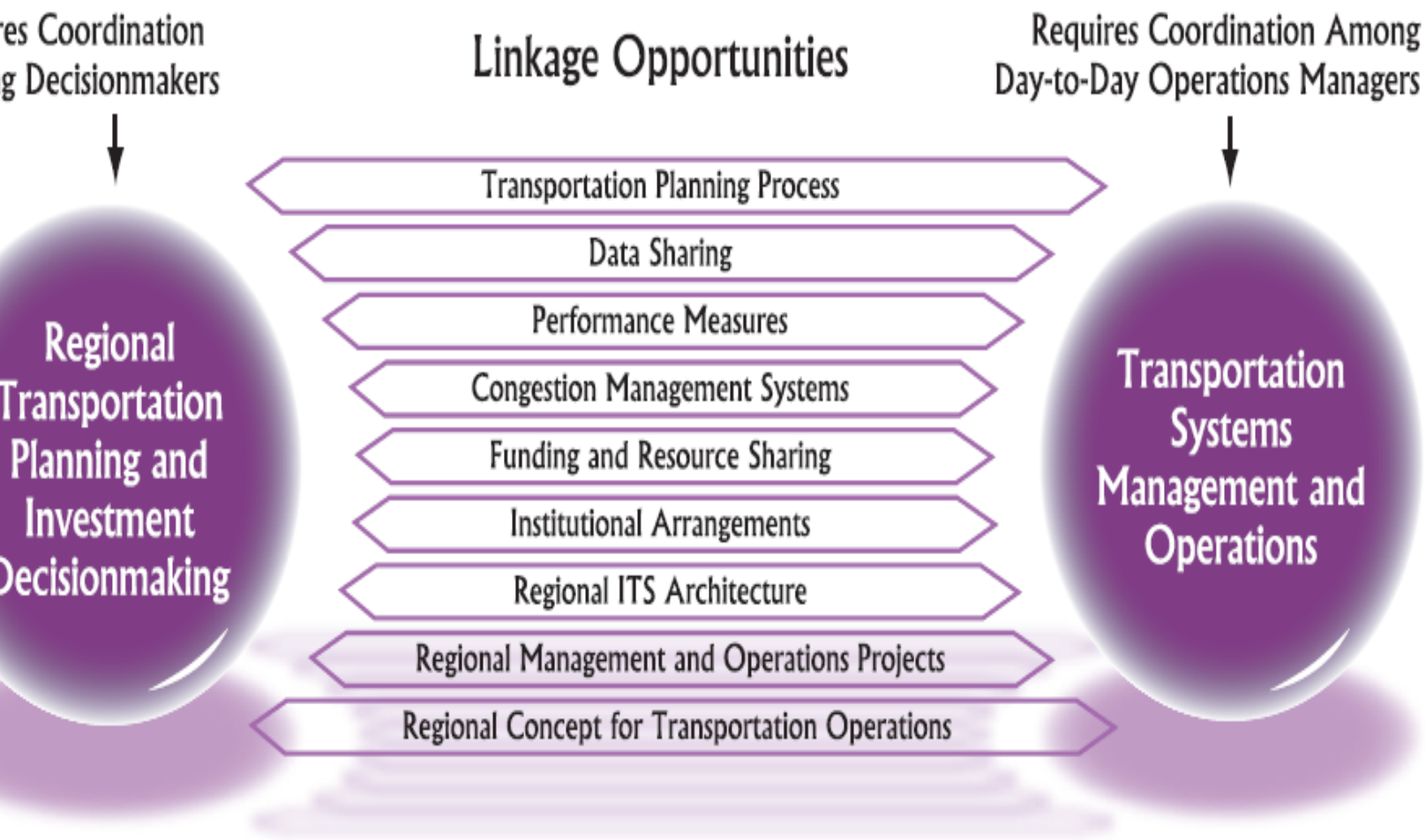
How is the CMP Related to Planning for Operations?

How do we effectively integrate TSMO and CMP into our planning processes?

egrating TSMO into Metro and Statewide Planning

MO strategies are programmed &
plemented in collaboration with local agencies

The Scope of Linking TSMO strategic anning into the formal regional/statewide planning process



“TSMO Program Plan” Compared to Conventional “Plan”

- Identifies the Mobility objectives, deficiencies with special attention to non-recurring congestion and related strategies
- Recognizes synergism among various TSMO strategies
- Addresses all the procedures and related roles of participants to conduct TSMO strategies
- Identifies *complete range of resources* required for effective operations – not just technology/capital, not just capital and maintenance, but also approach to staffing/training, conops, role definitions, real-time/field procedures and protocols , development/utilization of performance information
- Incorporates incremental approach

Who Prepares a TSMO Program Plan?

Who Has a Comprehensive Metropolitan Plan that includes TSMO?

Does the Plan include discussion of TSMO as related to policy?

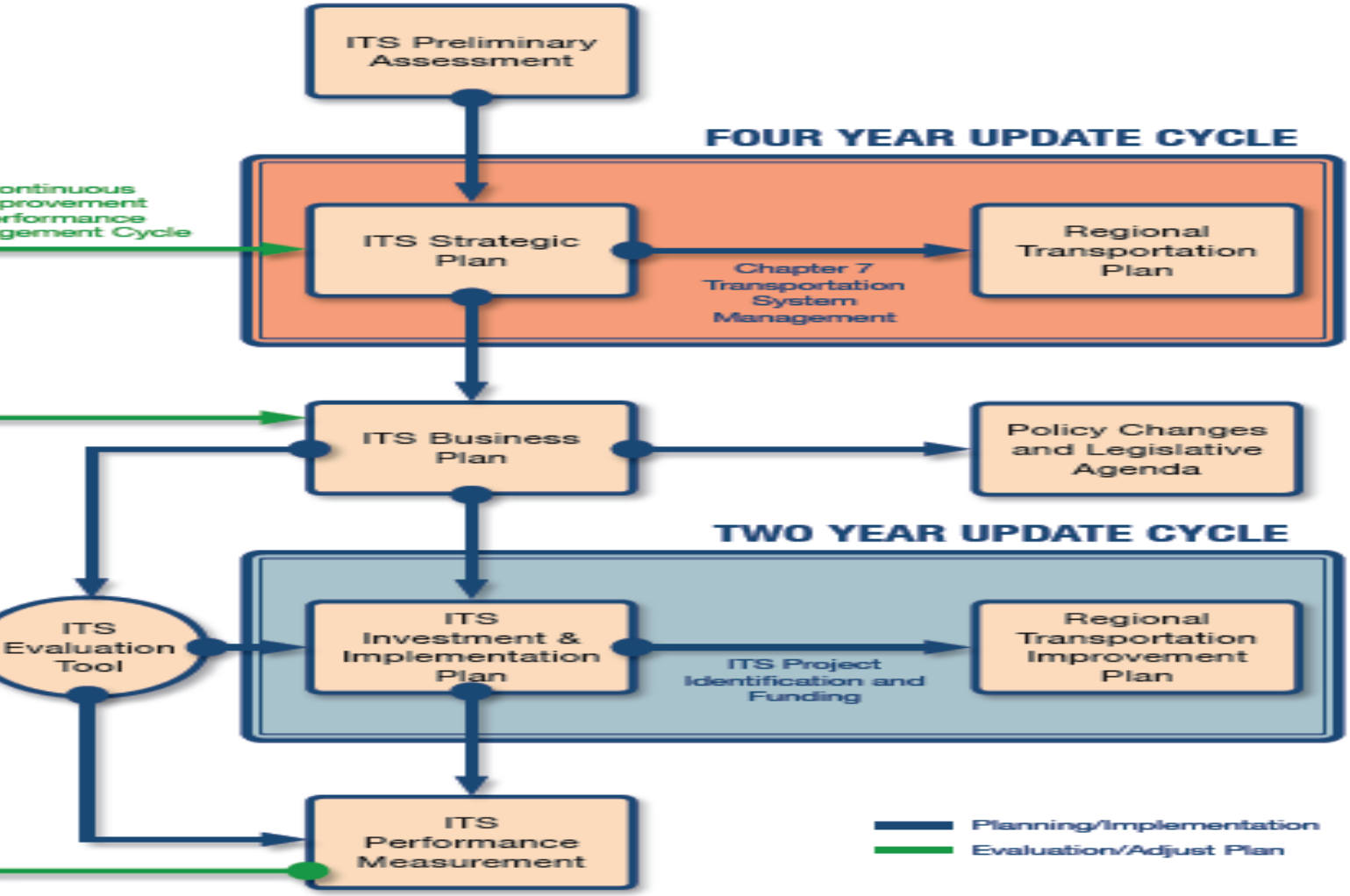
Are projects identified – or a program?

Is there a line item with investment level?

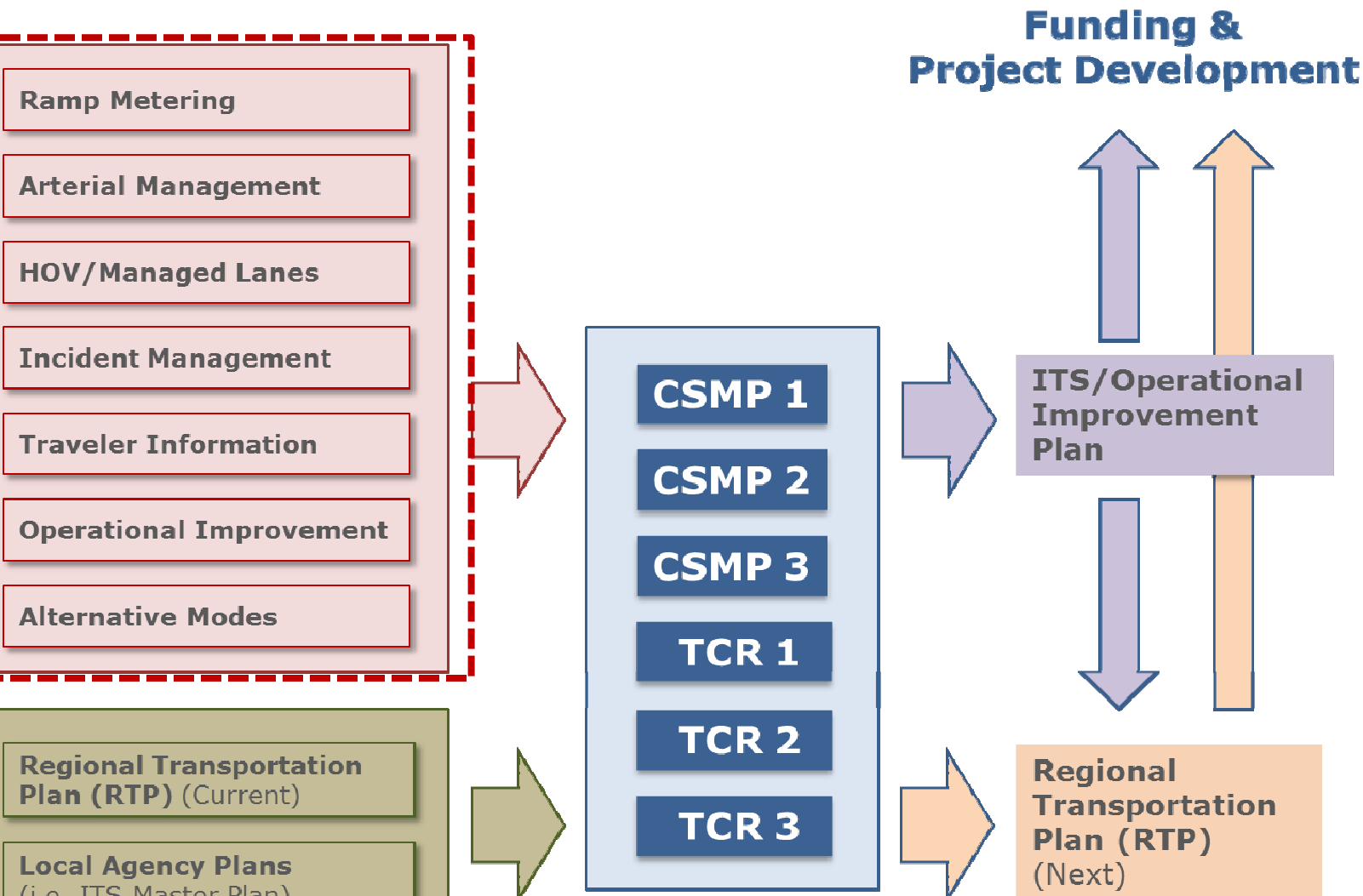
What level of detail?

Who prepared it?

Integration TSMO into the Metro Planning Process



3 Operations Planning Process



Bottom Line

If TSMO is part of agency mission – and TSMO strategies are being deployed/operated, they need their own program plan (just like other agency programs)

This is new – to both TSMO managers – and to planners

There is new ground to be broken – in defining what should be in a TSMO program plan, who does it, how it is done, etc.

You can be part of the solution

Useful Publications:
USDOT (www.plan4operations.dot.gov)

rimer – Statewide Opportunities for Linking Planning and Operations

vancing Metropolitan Planning for Operations: An Objectives-Driven, formance-Based Approach – A Guidebook

vancing Metropolitan Planning for Operations: Set Objectives, Measure gress, See Results

vancing Metropolitan Planning for Operations: The Building Blocks of a Model nsportation Plan Incorporating Operations – A Desk Reference

Interim Guidebook on the Congestion Management Process in Metropolitan nsportation Planning

plying a Regional ITS Architecture to Support Planning for Operations: A Primer

ating an Effective Program to Advance Transportation Systems Management Operations: Primer

aware Valley Regional Planning Commission Philadelphia Metropolitan Region se Study

veloping Decision maker Support for Management and Operations at MetroPlan ando

Useful Publications:

USDOT (www.plan4operations.dot.gov)

tting More by Working Together – Opportunities for Linking Planning and erations: A Reference Manual

nagement & Operations in the Metropolitan Transportation Plan: A Guidebook Creating an Objectives-Driven, Performance-Based Approach

erations Benefit/Cost Analysis Desk Reference

gional Concept for Transportation Operations: A Tool for Strengthening and ding Regional Transportation Operations Collaboration and Coordination

gional Concept for Transportation Operations: The Blueprint for Action – A mer

gional Transportation Operations Collaboration and Coordination: A Primer for rking Together to Improve Transportation Safety, Reliability, and Security

e Collaborative Advantage: Realizing the Tangible Benefits of Regional nsportation Operations Collaboration

e Regional Concept for Transportation Operations: A Practitioner's Guide

mington Area Planning Council New Castle County, Delaware and Cecil unty, Maryland Case Study

Useful Publications: SHRP2 Reliability

(www.trb.org/StrategicHighwayResearchProgram2SHRP2/Pages/Reliability_Projects_302.aspx)

egrating Business Processes to Improve Reliability
tablishing Monitoring Programs for Mobility and Travel Time Reliability
alytic Procedures for Determining the Impacts of Reliability Mitigation Strategies
corporating Reliability Performance Measures in Operations and Planning Modeling Tools
corporating Reliability Performance Measures into the Transportation Planning and ogramming Processes
stitutional Architectures to Advance Operational Strategies
aluation of Cost-Effectiveness of Highway Design Features
corporation of Travel Time Reliability into the Highway Capacity Manual
corporation of Non-recurrent Congestion Factors into the AASHTO Policy on Geometric sign
asibility of Using In-Vehicle Video Data to Explore How to Modify Driver Behavior that uses Non-Recurring Congestion
aluating Alternative Operations Strategies to Improve Travel Time Reliability
proving Traffic Incident Scene Management
chive for Reliability and Related Data

Useful Publications: SHRP2 Reliability

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esign and Implement a System for Archiving and Disseminating Data from SHRP 2
eliabilities and Related Studies/ Assistance to Contractors to Archive their Data for
eliability Projects
aveler Information and Travel Time Reliability
novative IDEA Projects
sistance to Contractors to Archive Their Data for Reliability and Related Projects
Framework for Improving Travel Time Reliability
Learning for Training Traffic Incident Responders and Managers
ost-Course Assessment and Reporting Tool for Trainers and TIM Responders Using the
HRP 2 Interdisciplinary Traffic Incident Management Curriculum
lidation of Urban Freeway Models
Tool for Business Processes to Improve Travel Time Reliability
cal Methods for Modeling, Economic Evaluation, Justification and Use of the Value of
avel Time Reliability in Transportation Decision Making
egional Operations Forums for Advancing Systems Operations, Management, and
eliability
ot Testing of SHRP 2 Reliability Data and Analytical Products
eliability Implementation Support