

Integrating Effective Transportation Performance, Risk, and Asset Management Practices

National Cooperative Highway Research Program 08- 113

NCHRP 08-113 demonstrates the value of a fully integrated program for managing:

PERFORMANCE | *What you're trying to accomplish*

ASSET MANAGEMENT | *How you're accomplishing it*

RISK | *How confident you are that you'll accomplish it – and why*

Each agency can find its own unique path toward integrated management by assessing and then investigating in five key areas. Use the links below to read the guidance and learn more!

The Guidance and Executive Summary for NCHRP 08-113 are available for download at....



HOW DOES AN AGENCY BUILD AN INTEGRATED PRACTICE?

FOLLOW HOW PEOPLE ALREADY THINK!



APPROACHES TO INTEGRATION

"Our annual capital planning process is what gets everyone's attention around here. To make a difference, let's call out projects that address climate resilience."



DATA AND SOFTWARE

"I'm 90% sure that between 400,000 and 600,000 square feet of deck area will become poor next year."



PERSONNEL AND SKILLS

"We'd look so much better to our legislature if we had people who know how to build visualizations in Tableau."



POLICY AND AGENCY STRUCTURE

"If we had a cross-silo task force for integrated asset, performance, and risk management, we could share data and collaborate more."



RESOURCE REQUIREMENTS

"I've heard about a pooled fund research study we could join to pilot vulnerability assessments on a cross-border highway corridor. Sign us up!"

HOW CAN I HELP TO INTEGRATE MANAGEMENT AT MY AGENCY?

- ✓ You need **executive-level buy-in**.
 - ✓ You should **foster an agency culture that celebrates change and innovation**.
 - ✓ You should **pursue comprehensive data governance**.
 - ✓ You should set **enterprise-level standard operating procedures**.
 - ✓ You should **share policy frameworks with stakeholders and partners**.
 - ✓ You should **incorporate performance, risk, and asset management in long-term investment planning**.
 - ✓ You should be looking for ways to **incorporate uncertainty into your thinking**.
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WE ASKED PRACTITIONERS WHAT BENEFITS THEY SAW...

“ A proven way to raise morale, reduce costs of maintaining the transportation network, and improve customer service. ”

– Vermont Agency of Transportation

“ We need to better communicate what we’re doing and why to better integrate with local partners. ”

– Caltrans

“ We need to clearly stretch and maximize taxpayer dollars. ”

– Minnesota Department of Transportation

“ We own \$6B worth of assets and spend \$100M per year on replacement. If we can’t maximize performance under uncertainty for the whole lifecycle, we’ll be wasting a lot of money. ”

– TriMet