

# Shifting the Culture

## Reactive

- ✓ **Budgets based on prior years**
- ✓ Reactive
- ✓ Break/fix
- ✓ Projects based on oldest or loudest stakeholder
- ✓ Run-to-fail
- ✓ Reactive projects
- ✓ Funds spent with little risk reduction

## Proactive

- ✓ **Budgets based on future needs**
- ✓ Planning/scheduling work – improved service
- ✓ Risk-based work prioritization
- ✓ Repair/replace algorithms
- ✓ Better resource allocation
- ✓ Better long-term financial planning



*Proactive organizations effectively manage assets & facilities over entire lifecycle, using **performance metrics** to make best O&M and financial decisions*



*Resulting in improved customer service & reduced asset total cost of ownership*

## Conceptual Framework

# TRB Consensus Study – Investing in Transportation Resilience

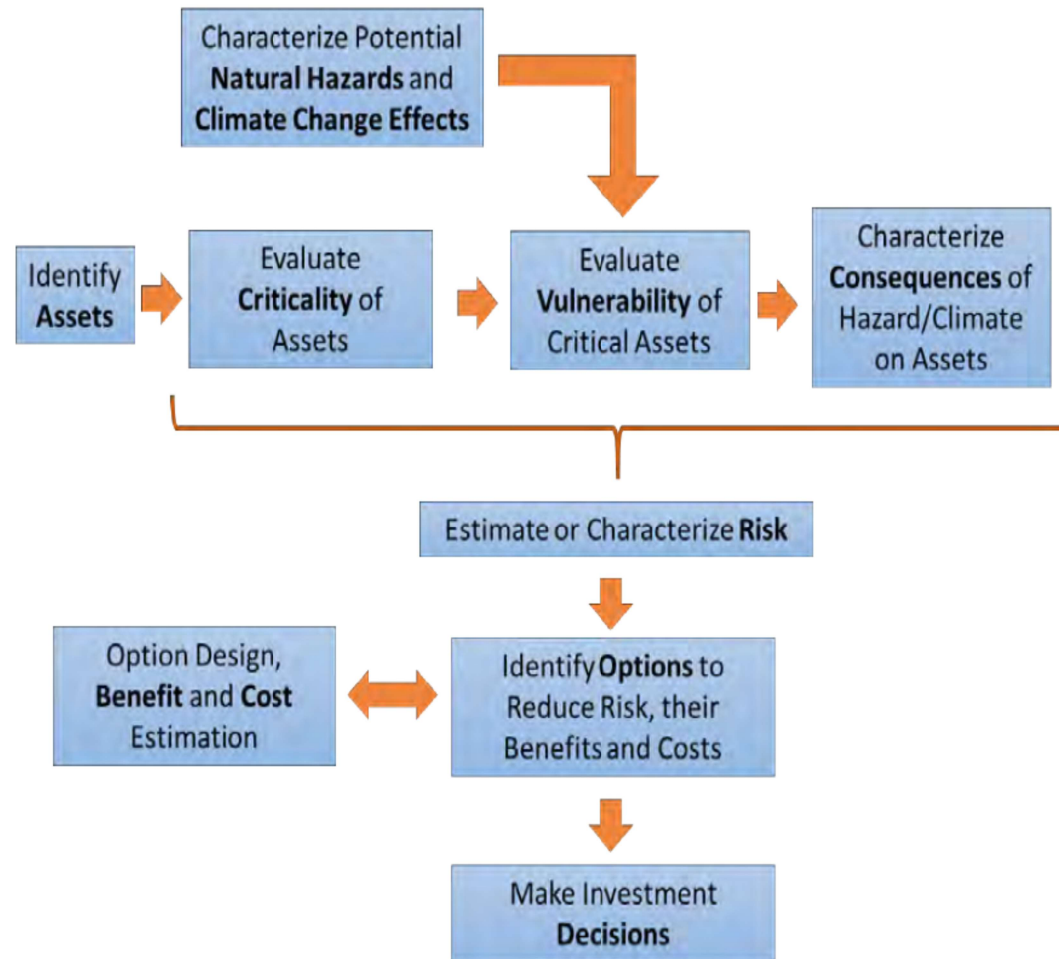
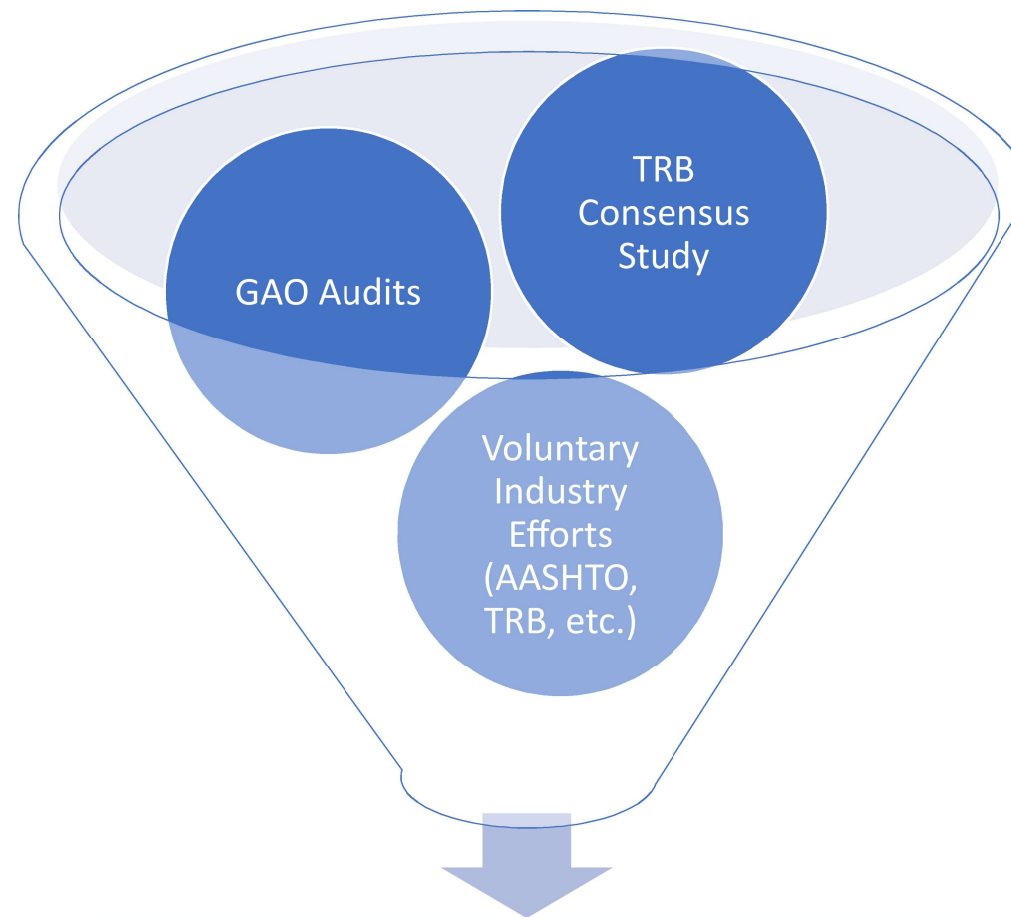


FIGURE 5-1 Components of the proposed decision support framework.

Questions Outstanding: Does this meet industry needs?  
What models and data are needed to deploy?

**FY2020, 2021 Appropriations &  
BIL Section 25007  
Risk and Resilience**

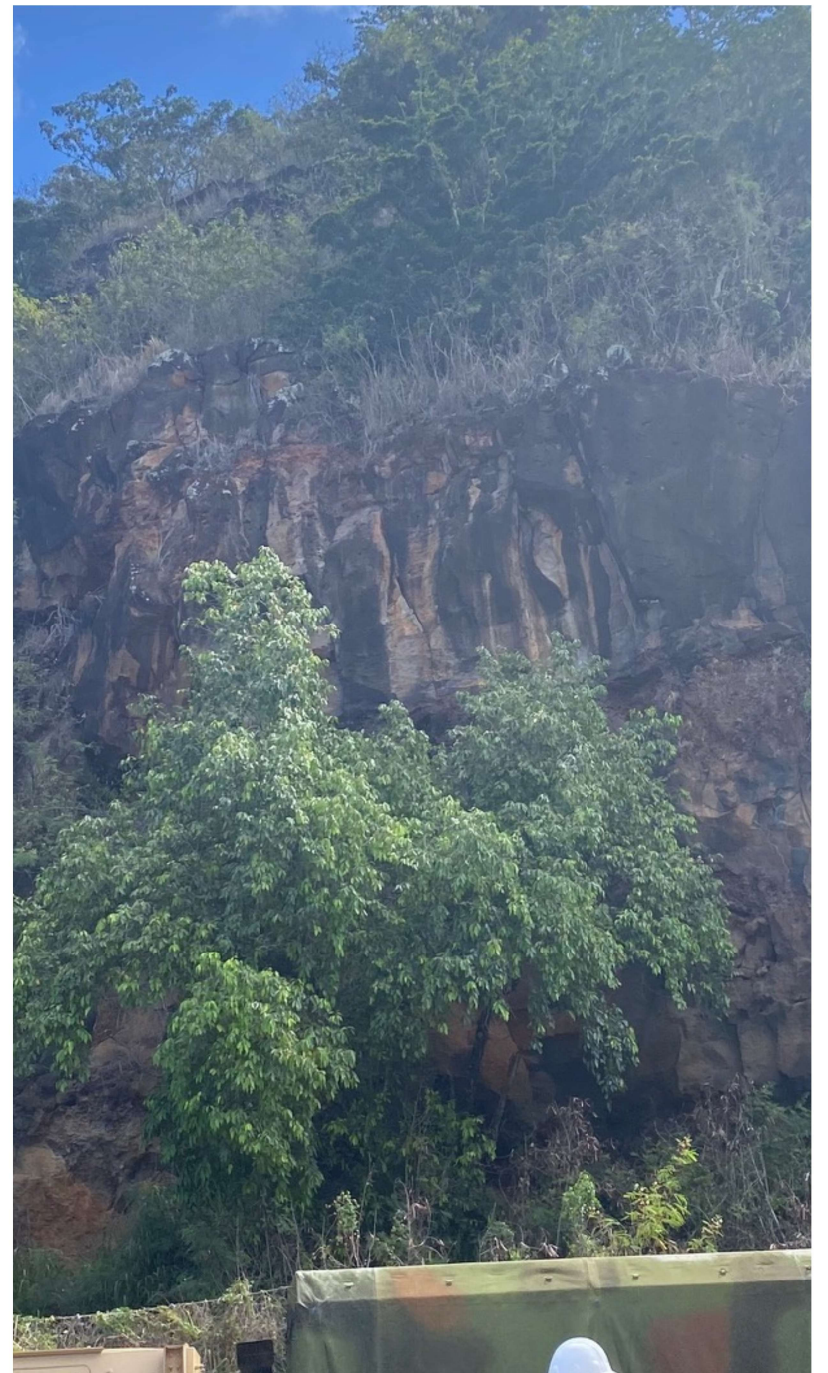
January 2021 Executive Orders:  
**EO 14030 Climate-Related  
Financial Risk  
&  
EO 14008 Tackling the Climate  
Crisis at Home and Abroad**



Need for Common Industry Framework for  
Quantitative Analysis of Resilience for  
Incorporation into Decision Making Process

TRB & AASHTO  
Risk & Resilience  
Quantitative  
Assessment  
"Standard"







# New Opportunities – Infrastructure Investment & Jobs Act (IIJA)

## **Proactive Resilience Efforts**

PROTECT Program (\$7.3 billion formula funds & \$1.4 discretionary grants)

## **Supports Reduced Carbon Emissions**

Carbon Reduction Program (\$6.4 billion formula funds)

## **Supports Electrification of Vehicles**

National Electric Vehicle Infrastructure (\$5 billion formula funds)