

TPB Resiliency Study

How can TPB best support its technical members move toward implementation of the COG Climate and Energy Action Plan Goal: Resilience Ready by 2030?

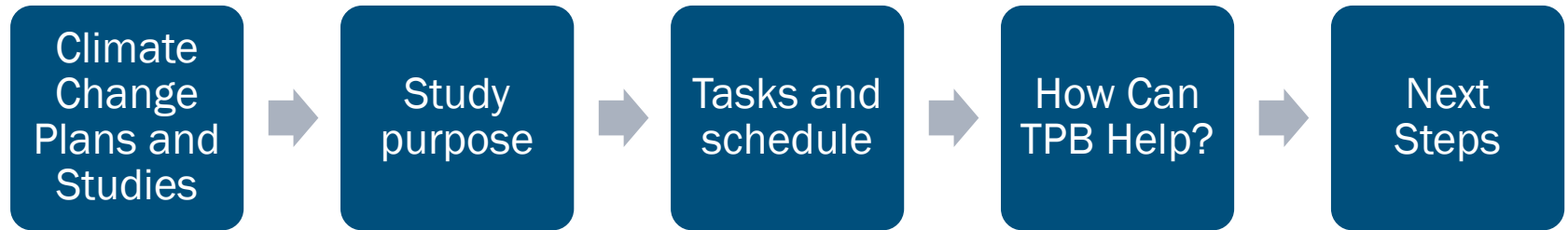
visualize
2045 A long-range
transportation plan
for the National
Capital Region



Flickr/VDOT

Source: Flickr/BeyondDC

TPB Resiliency Study



Resiliency and Climate Change Studies*

Current Studies:

- Climate Change Mitigation Study
- Resiliency Study

- COG 2030 Climate and Energy Action Plan
- TPB resolution support climate and emissions goals

Past studies

- What Would it Take
- Multi-sector Working Group Analysis

*This list is not comprehensive of all COG and TPB activities, visit www.MWCOG.org for more information

TPB Resiliency Study Purpose:

- Research and document agency adaptation planning activities to:
 - respond to one of the federal Planning Factors
 - advance important planning work and regional coordination on the topic of resiliency, one of TPB's policy priorities.
- Support implementation of the COG Climate and Energy Action Plan, with the Goal: Resilience Ready by 2030

TPB Resiliency Study Purpose: Federal Definition of Resilience:

What is *Resilience*?

Resilience: the ability to anticipate, prepare for, and adapt to changing conditions and withstand, respond to, and recover rapidly from disruptions



Source: Heather Holsinger, FHWA, 2018 AMPO Presentation

Study Purpose:

Respond to FAST Act Requirements

- **FAST ACT Transportation Planning Rule (May 2016) added:**
 - Metropolitan Transportation Plan must assess capital investment and other strategies that reduce the vulnerability of existing transportation infrastructure to natural disasters (23 CFR450.324(f)(7)).
 - MPOs recommended to consult with agencies and officials responsible for natural disaster risk reduction when developing Plan and TIP (23 CFR 450.316(b)).
 - New planning factor on improving the resiliency and reliability of transportation system (23 CFR 450.206(a) and 23 CFR450.306(b)).

Planning Factor: Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation.

Tasks and Schedule

We are here



Task and Schedule

- **Study Outputs:**
 - Technical Memorandum
 - Input to LRTP
 - Resiliency whitepaper
 - Information about resiliency strategies and actions that can support future coordination and collaboration

DOT recommendations: Potential Types of TPB Support

- **Capacity Building**
 - Resiliency training for different types of agency staff (e.g., engineer-focused, planning-focused)
 - Host webinars or educational events on resiliency topics
- **Provision**
 - Coordination around regional data
 - National datasets often divide DMV region
- **TPB member coordination**
 - Convene TPB members for peer exchanges or regular technical meetings focused on resiliency efforts

DOT recommendations: Potential Topics for TPB Support

- **Funding sources/opportunities** for resiliency retrofitting
- **Systems thinking** within and between different transportation modes and across different jurisdictions in the region, including finding critical points of failure, or handling multiple interacting crisis and cascading failures.
- **Resiliency for systems that transportation relies upon** (e.g., electric grid, telecom/cybersecurity, water/stormwater)
- **Resilience performance measures**
- Translate other best practices and tools from FHWA, AASHTO, and TRB into practical applications and planning support for region

Stacy M. Cook

TPB Transportation Planner

(202) 962-3335

scook@mwkog.org

Leo Pineda

TPB Transportation Planner

lpineda@mwkog.org

mwkog.org/TPB

Metropolitan Washington
Council of Governments

777 North Capitol Street NE,
Suite 300

Washington, DC 20002