

# TPB Resiliency Study

Leonardo Pineda  
TPB Transportation Planner

Stacy Cook  
TPB Transportation Planner

CEEPC

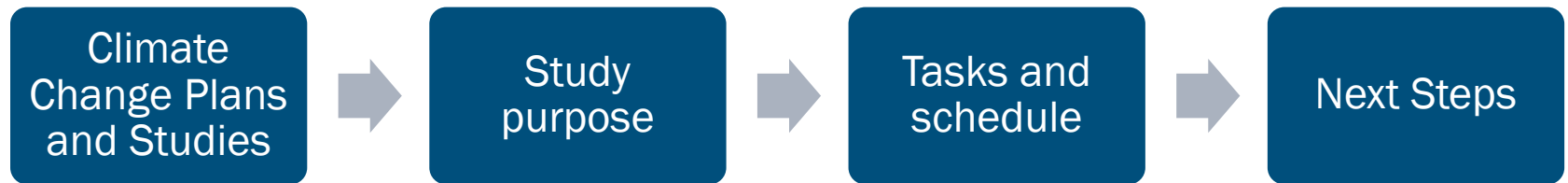
July 28, 2021

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



Flickr/VDOT

# TPB Resiliency Study



# Resiliency and Climate Change Studies\*

## Current Studies:

- TPB Climate Change Mitigation Study
- TPB Resiliency Study

## COG and TPB: Board Actions

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

## Past Studies:

- TPB What Would it Take Study
- Multi-sector Working Group Analysis (MWAQC, CEEPC, TPB)

\*This list is not comprehensive of all COG and TPB activities, visit [www.MWCOG.org](http://www.MWCOG.org) for more information

# Overlap with Climate/Energy action plan

The TPB Resiliency Study promotes the implementation of several of the COG 2030 Climate and Action Plan action items shown in Figure 9, including: PL-2, PL-3, PL-4, and inform RI-4 and RI-5.

Climate Action Area	Action ID	Priority Collaborative Action
Planning	PL - 2	Support Capacity Building for Climate Resilience Planning
	PL - 3	Develop Integrated Approach to Climate Resilience Planning
	PL - 4	Update Local and Regional Plans to Address Climate Risks
Equity	EQ - 3	Support Engagement of the Public on Climate Risks, with a Particular Emphasis on Potentially Vulnerable Populations
	EQ - 4	Support Equitable Secure Energy Access
Resilient Infrastructure	RI - 1	Support Establishment of Resilience Hubs
	RI - 2	Improve the Resilience of Critical Infrastructure
	RI - 3	Implement Measures to Equitably Address Urban Heat Island
	RI - 4	Enhance Green Infrastructure Networks
	RI - 5	Implement Measures to Reduce Flood Risk

# 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.

# 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

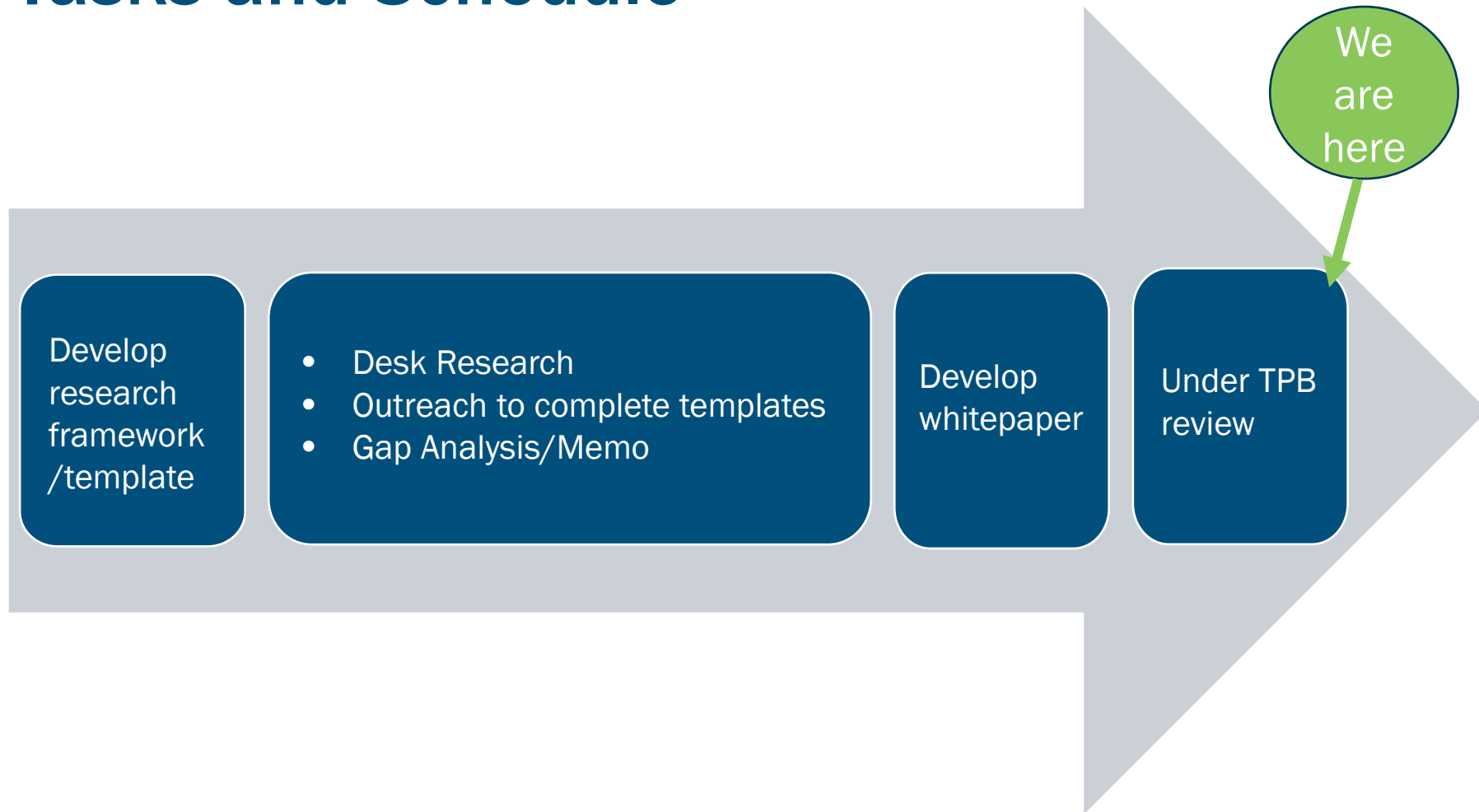
# Study Purpose:

## 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





# Overview: Research areas

The research framework includes a series of questions on a range of topics:



# Whitepaper – Content

- Introduction
- Section 1: Defining Resilience
- Section 2: Federal Requirements
- Section 3: TPB Resilience and Climate Work
- Section 4: Public Opinion and Equity Considerations
- Section 5: Vulnerability Analysis Summary
- Section 6: Strategies for Resilience
- Section 7: MPO Role
- Conclusion

# Study Outputs and Next Steps

- **Study Outputs:**
  - Input to LRTP
  - Resiliency whitepaper
  - Information about resiliency strategies and actions that can support future coordination and collaboration
- **Next Steps**
  - TPB and Technical Member review of whitepaper
  - Publish whitepaper on [Visualize2045.org](https://visualize2045.org)

## **Stacy M. Cook**

Transportation Planner

(202) 962-3335

[scook@mwkog.org](mailto:scook@mwkog.org)

## **Leonardo Pineda**

Transportation Planner

[lpineda@mwkog.org](mailto:lpineda@mwkog.org)

**[mwkog.org/TPB](http://mwkog.org/TPB)**

Metropolitan Washington  
Council of Governments

777 North Capitol Street NE,  
Suite 300

Washington, DC 20002