

TPB Resiliency Study

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**COG Air and Climate Public Advisory
Committee (ACPAC)**

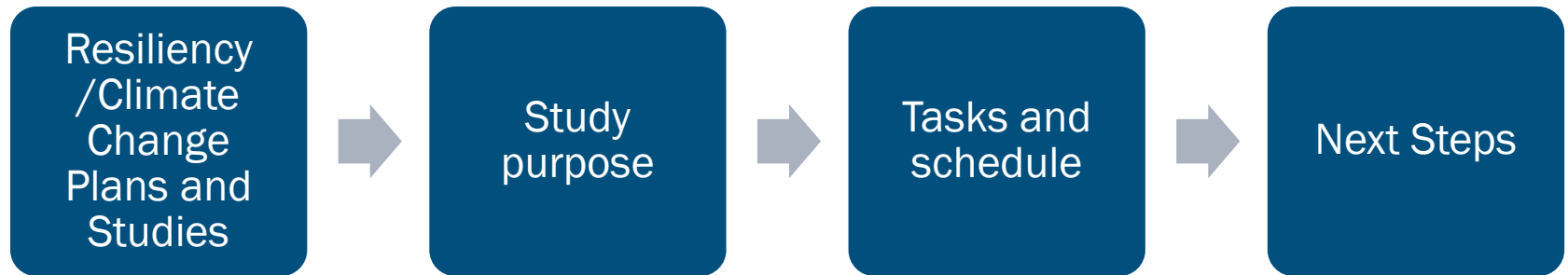
September 20, 2021

**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 of 2021
- TPB Resiliency Study

COG and TPB: Board Actions

- COG 2030 Climate and Energy Action Plan (CEAP)
 - TPB resolution support CEAP 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 Study Promotes CEAP Actions

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:

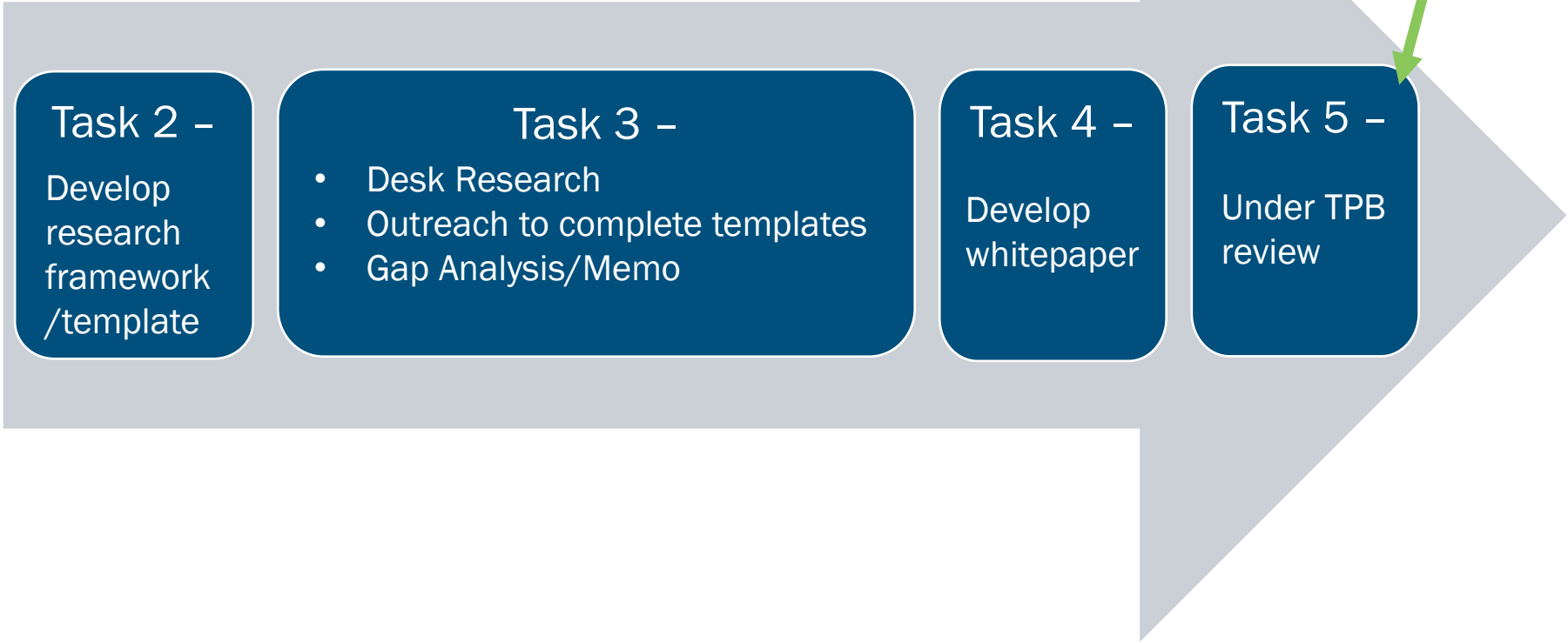
Respond to FAST Act Requirements

- **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

We are here



Task 2 –
Develop research framework /template

Task 3 –

- Desk Research
- Outreach to complete templates
- Gap Analysis/Memo

Task 4 –
Develop whitepaper

Task 5 –
Under TPB review

Task 1 Project Management

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

Task and Schedule

- **Study Outputs:**
 - Input to the TPB's Long-Range Transportation Plan, Visualize 2045
 - 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)

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