



Strengthening Georgia's Transportation System: GDOT's Resilience Efforts

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Agenda

- **Legislative Overview**
- **PROTECT Program**
- **Resilience Improvement Plan**
- **MPO Coordination**

Legislative Overview: Key Highlights

- **Funding provided for:**
 - Promoting Resilient Operations for Transformative, Efficient, and Cost-saving Transportation Program (PROTECT)
 - National Electric Vehicle Infrastructure (NEVI)
 - Carbon Reduction Program (CRP)



Resilience Legislative Overview: Key Highlights

- **PROTECT Program**
 - **Formula and Discretionary Funding**
 - Enhancing resilience of surface transportation assets
 - Protecting communities through resilience improvements and strategies
 - Addressing at-risk coastal infrastructure



Resilience Legislative Overview: Key Highlights



- **PROTECT Program**
 - **Formula Funding Match: 80% Federal / 20% State**
 - If project is included in a Resilience Improvement Plan (RIP):
87% Federal / 13% State
 - If project is included in the RIP and TIP/MTP:
90% Federal / 10% State
- **Funding Eligibility**
 - Full funding if primary purpose is to address resilience
 - Partial funding for Incremental project cost related to resilience

Resilience Legislative Overview: Key Highlights

- PROTECT Program Project Eligibility**



Resilience Improvements

- Increased ability to handle weather events
- Incorporates natural infrastructure
- Flood mitigation



Community Resilience & Evacuation Routes

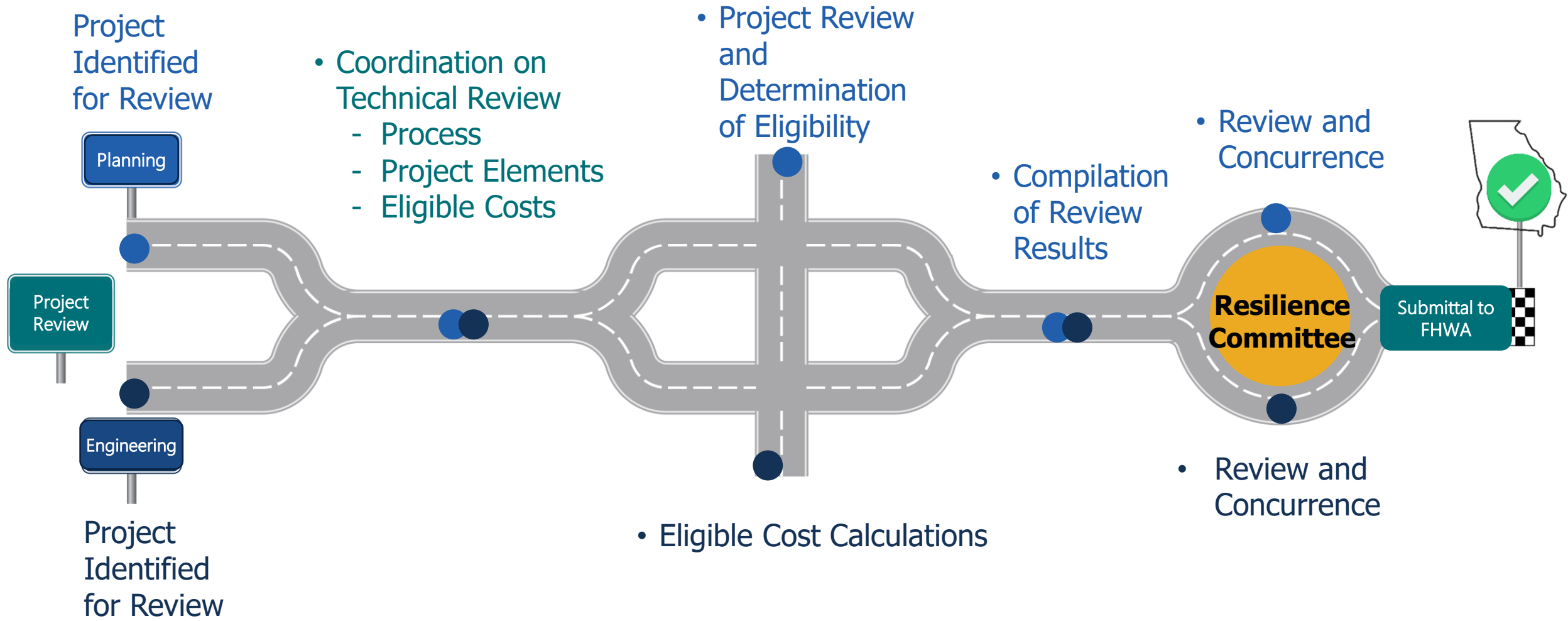
- Improvements on evacuation routes
- Expansion of evacuation routes
- Supporting evacuation infrastructure



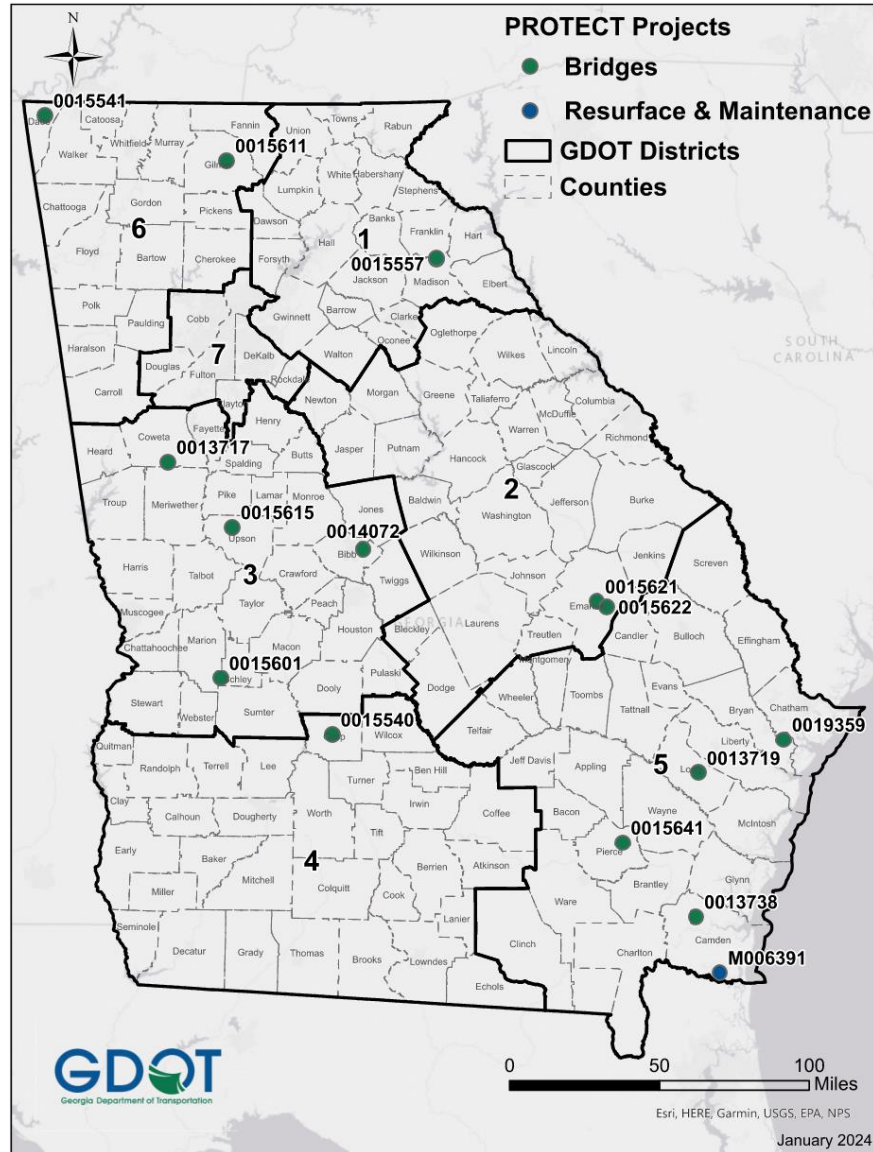
At Risk Coastal Infrastructure

- Enhancing resilience of highway and non-rail infrastructure
- Port facilities and public transportation facilities included

Multi-Disciplinary Approach: PROTECT Project Review



Funded PROTECT Projects



No.	Project	Type	Form Sign. Date	Federal FY	CST Auth. Amount
1	PI#0015540	Bridge	6/22/2023	2023	\$ 783,841.86
2	PI#0015611	Bridge	6/22/2023	2023	\$ 300,221.24
3	PI#0015622	Bridge	6/22/2023	2023	\$ 1,572,246.84
4	PI#M006391	Maint.	6/22/2023	2023	\$ 2,641,112.63
5	PI#0019359	Bridge	7/12/2023	2023	\$ 8,500,000.00
6	PI#0013719	Bridge	7/13/2023	2023	\$ 2,082,862.25
7	PI#0013738	Bridge	7/13/2023	2023	\$ 2,218,701.10
8	PI#0015601	Bridge	7/13/2023	2023	\$ 915,774.70
9	PI#0015615	Bridge	8/15/2023	2023	\$ 1,428,629.52
10	PI#0014072	Bridge	9/1/2023	2023	\$ 17,017,539.00
11	PI#0015641	Bridge	9/21/2023	2023	\$ 448,000.00
12	PI#0015621	Bridge	9/21/2023	2023	\$ 984,000.00
13	PI#0015557	Bridge	9/27/2023	2023	\$ 1,009,225.00
14	PI#0015541	Bridge	11/20/2023	2024	\$ 1,655,706.00
15	PI#0013717	Bridge/Dam	N/A	2024	\$ 6,867,748.49
				Subtotal	\$ 39,902,154.14
					\$ 8,523,454.49
Total					\$ 48,425,608.63

Resilience Improvement Plan

- **The Plan shall:**
 - Focus on immediate and long-range activities and investments
 - Systematic approach to transportation resilience
 - Incorporate a risk-based vulnerability assessment
 - Address the full range of current and future weather events and natural disasters

Resilience Improvement Plan

- **The Plan may also:**
 - Planning for emergency response that emphasizes accessibility and equity
 - Include an implementation timeframe
 - Data informed approach
 - Incorporate measurable outcomes and goals

Resilience Improvement Plan: Goals and Objectives

FOUNDATIONAL



- Reduce risk to transportation infrastructure, operations, and vulnerable populations, including low-income, unemployed, and aged individuals
- Determine which hazards pose the highest risk and areas of those risks
- Prioritize projects within high-risk/high hazard areas

CATALYTIC



- Ensure today's investments meeting tomorrow's growth
- Promote investments minimizing or reducing operational and response costs
- Ensure investments are not creating new risks

INNOVATION



- Collaborate with federal and state partners to address and reduce transportation network risk
- Build on vulnerability assessment and the Multi-Hazards Exposure and Vulnerability Analysis Tool to identify existing and future risks
- Promote investments in natural infrastructure to minimize future risks

Climate Vulnerability, Risk, and Resilience Assessment

Georgia Tech's Vulnerability Analysis



- **Asset Exposure**

Is the asset located in an area directly experiencing extreme weather events?



- **Asset Sensitivity**

Can the asset be damaged or disrupted?



- **Asset Capacity**

Ability to adjust, repair, and respond to damage or disruption



- **Asset Criticality**

Importance of the asset

Climate Vulnerability, Risk, and Resilience Assessment

Assessment Results

- **Vulnerability**

The degree to which the system is susceptible to, or unable to cope with adverse or extreme weather events

- **Risk**

The likelihood an asset will experience an impact



US 80 - Chatham County



St Marys

MPO Coordination

- **TIP/MTP Development**
 - Consistency with RIP to maximize funding
 - Eligibility Review Coordination
 - Review and incorporate vulnerability analysis results
- **Planning Process**
 - Coordinate eligibility review for projects