

# Climate Resilience at the MBTA

September 2024






# The MBTA is aligned with the Healey-Driscoll Administration's climate resilience mandate.

**ResilientMass Plan**  
2023 MASSACHUSETTS STATE HAZARD MITIGATION  
AND CLIMATE ADAPTATION PLAN

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EXECUTIVE SUMMARY | September 2023

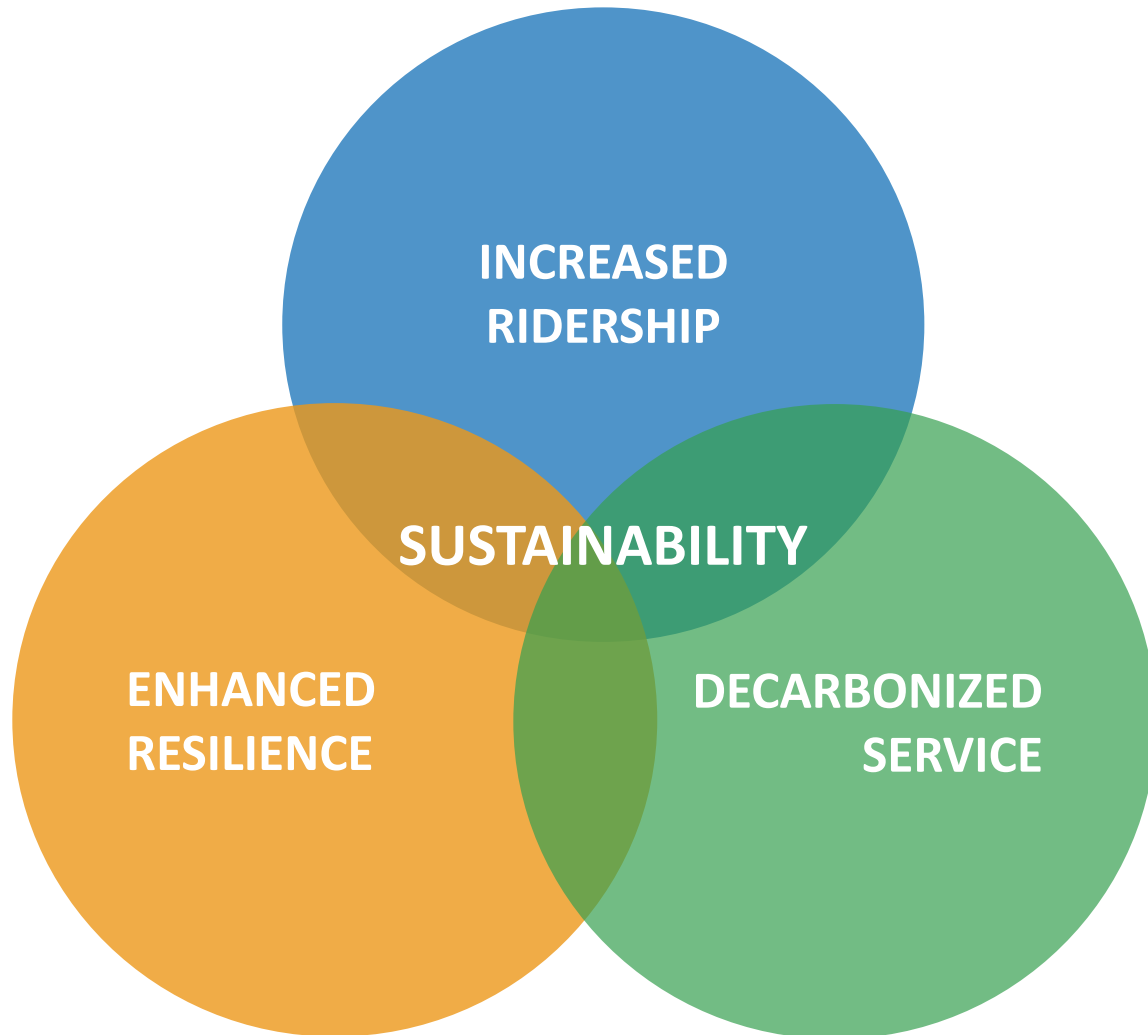


*"The climate crisis is our greatest threat and greatest opportunity. The ResilientMass Plan acknowledges that state government must lead in guarding against the natural hazards and exacerbated impacts of climate change. We will seize this moment to build a thriving, resilient Commonwealth for all of our residents and for future generations."*  
- Governor Maura T. Healey



## At the MBTA, resilience is reliability.

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### The MBTA Climate Assessment:

- Sets a vision for climate and sustainability work at the MBTA.
- Defines resilience in the MBTA context: "activities to plan for, mitigate and adapt to risks from adverse climate impacts to **minimize disruption** and **rapidly restore service** where disrupted."





# Coastal flooding, extreme precipitation and temperatures, and heavy winds are the primary climate hazards facing the MBTA.



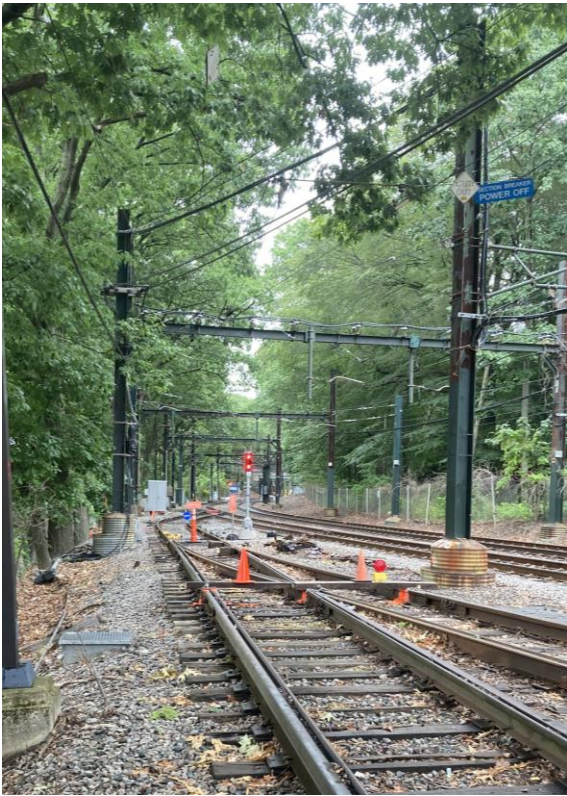
**Coastal Flooding**



**Heavy Rain**



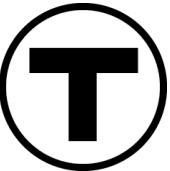
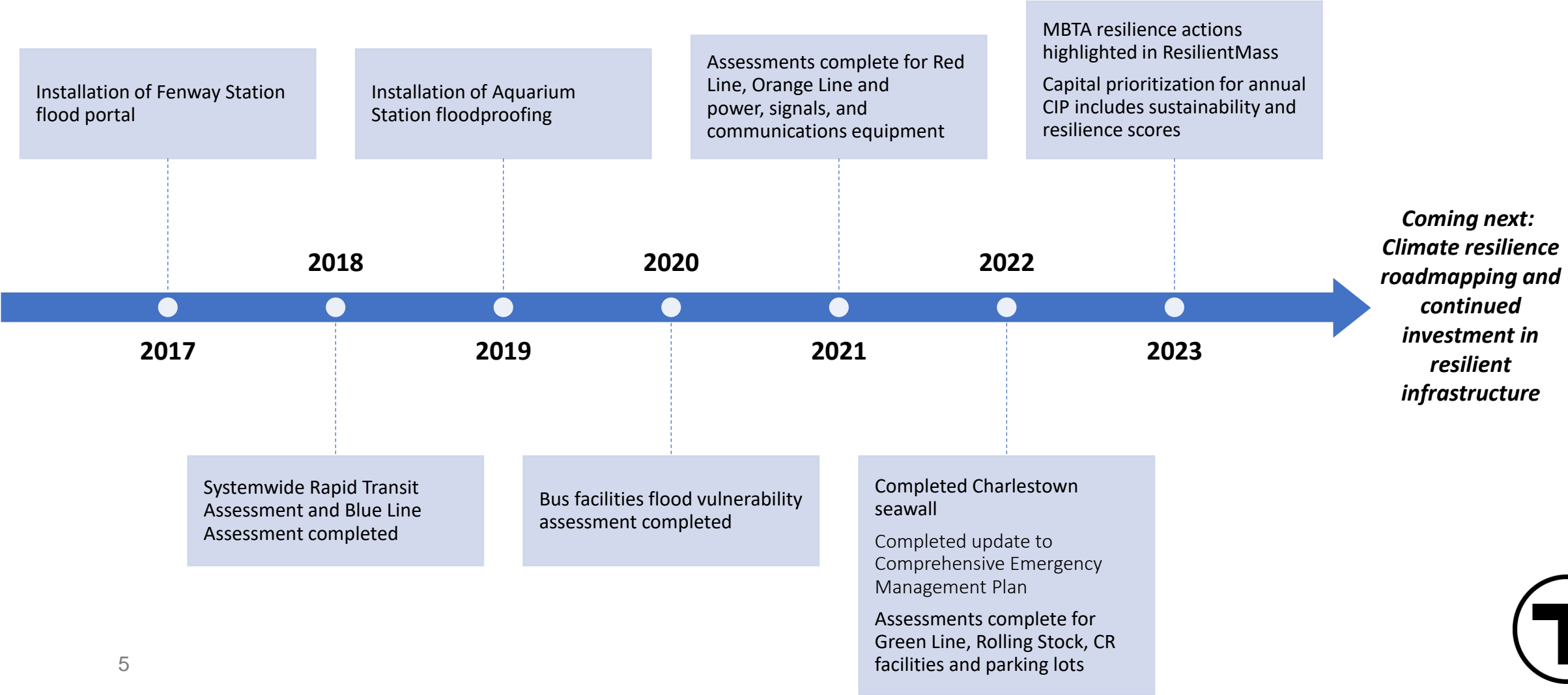
**Extreme Temperatures**



**Heavy Winds**



# Significant, collaborative efforts have increased system resilience since 2015.





# The MBTA has several major resilience initiatives underway.

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## Resilience planning

- Laying groundwork to develop a systemwide resilience roadmap leveraging vulnerability assessments and internal engagement

## Systemwide tunnel flood mitigation program

- Released RFQ/RFP for Airport Tunnel Flood Portal
- Next steps for SGR pump room upgrades and SCADA integration

## Collaboration across the Healey-Driscoll Administration

- Supporting the Office of the Climate Chief in assessing the economic cost of resilience
- Participating in ResilientMass Finance Initiative and efforts to set resilience metrics across state government

## Ongoing financial support from state (MassDOT, EEA) and federal (FEMA, EPA) partners, including:

- MassDOT allocation of PROTECT formula funds
- FEMA Building Resilience In Communities (BRIC) application for Airport Tunnel Portal
- Engagement in Army Corps coastal risk studies



# Join us at a Climate Week event!

- 9/26: Public release of MBTA Climate Assessment, accessible at [mbta.com/sustainability](https://mbta.com/sustainability)
- 9/27: Emergency preparedness events
  - Participation in City of Boston Deployables Day with partial deployment of Aquarium station flood planks
  - Coastal flooding tabletop exercise led by Security & Emergency Management
- Later this fall:
  - 10/1: Virtual event hosted with MAPC to share an overview of the Climate Assessment and raise awareness with regional, municipal and non-profit partners
  - 10/14-10/16: Commuter Rail Coalition Summit with a climate resiliency session led by Board Member Mary Skelton Roberts
  - 10/23: MassDOT Moving Together Conference with a climate resilience panel featuring MassDOT and MBTA staff

