

### Exploring Climate Solutions Webinar Series Brought to you by the Governor's Council on Climate Change (GC3)

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### Resilient Rhody – Financing Solutions to Address the Impacts of Climate Change

April 21, 2020

# **Resilient Rhody**

## Financing Solutions to Address the Impacts of Climate Change

Presented to the Connecticut Governor's Council on Climate Change



April 21, 2020

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# **RI Infrastructure Bank Overview**



### **About the Infrastructure Bank**

Rhode Island's centralized hub of local infrastructure investment





## **Diversified Product Offerings**



Wastewater, Sewer and Stormwater



Drinking Water



Residential septic and sewer tie-in



Road and Bridge



Commercial Clean Energy (C-PACE)



Clean Energy for Public Sector Entities

### **Our Impact Since 2015**



\$579 MM in new lending, 63% leveraging private capital sources



Supported almost 14,000 direct and indirect jobs



Our lending generated \$136 MM in financial and energy savings for local communities



Greenhouse gas emissions reduction equivalent to 142 MM miles driven by the average passenger car



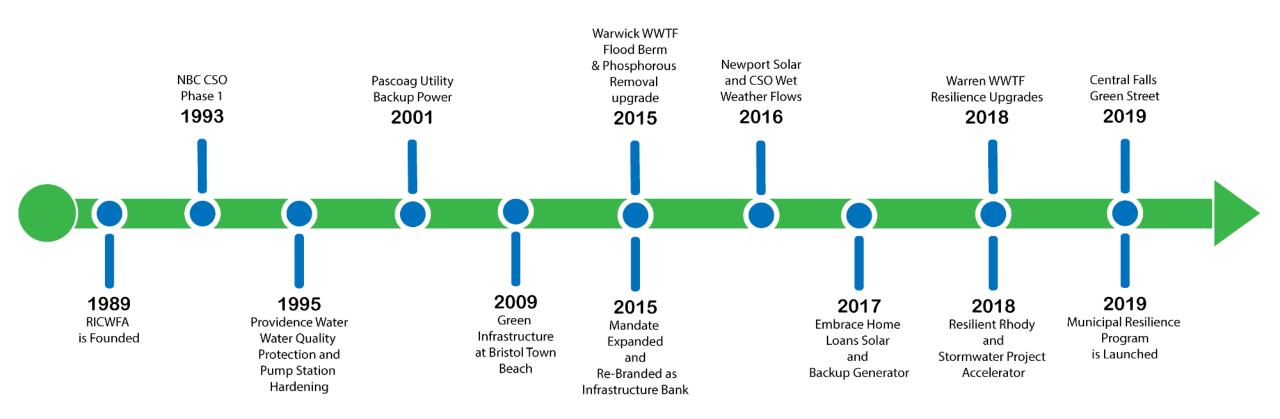
Financed more than \$74 million of road and bridge projects across Rhode Island cities and towns



Fully deployed new financial & loan management software



### **Evolution of Climate Resilience at the Bank**





### **How We Deliver Value**







### Choice

Full set of infrastructure investment products

Flexible engagement model

Ability to innovate and meet future customer needs

Technical assistance to disaggregate project components

### **Ease of Doing Business**

Flexibility in meeting customers needs off-cycle

Proactive business development team organized by customers

Responsive to emergency capital needs

Improving business conditions & reducing regulatory hurdles

### **Low Cost Lending**

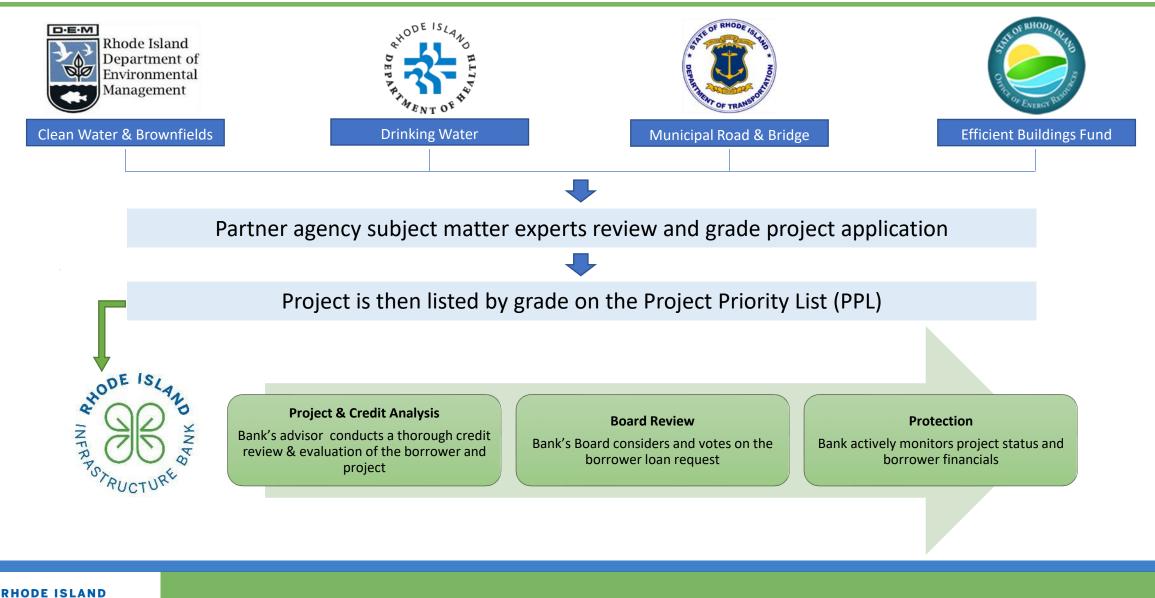
Below-market rates

Savings on interest and fixed transactions costs

Reduces administrative functions of public debt issuances

### How we work

NFRASTRUCTURE BANK



# Formalizing RIIB's Approach to Climate Resiliency



### **Establish a Framework for Success**

- Initiate focused approach
  - Convene experts from across the state
  - Green Infrastructure Strategic Advisory Council
  - Engage stakeholders
- Develop capacity
  - $\odot$  Establish new position with defined responsibilities
  - $\odot$  Build institutional support
- Establish leadership
  - Identify funding and financing gaps
     Accelerate project implementation
     Develop and fund new programs



### **Implementing the Strategic Imperative**

- Technical assistance
  - $\odot$  Internal and with stakeholders
  - $\circ$  Supplement local expertise and knowledge
  - $\odot$  Rapid response to overcome barriers to implementation

### • Project origination

- $\odot$  Solution-oriented approach
- $\circ$  Build project pipeline
- $\odot$  Link projects to funding and financing
- Influence and modify resilience thought process
  - $\odot$  Integrating climate risk into our credit approval process
  - $\odot$  Project financing disaggregation
  - $\odot$  Wholistic approach to project review, integration and execution



# Strategic Implementation and Resilient Rhody Initiatives



# RESILIENT RHODY AN ACTIONABLE VISION FOR ADDRESSING THE IMPACTS OF CLIMATE CHANGE IN RHODE ISLAND



# **Resilient Rhody Framework**



#### Making the Case for Climate Resilience



RESILIENCE THEME: Emergency Preparedness



RESILIENCE THEME: Natural Systems



RESILIENCE THEME: Critical Infrastructure and Utilities



RESILIENCE THEME: Community Health and Resilience



Financing Climate Resilience Projects

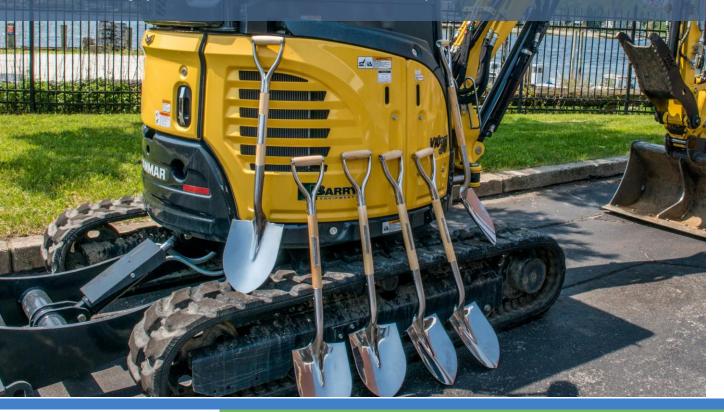
### **Resilient Rhody by the Numbers**

- 61 actions and aligning achievable 1,3,5-year goals
- Establish and accelerate funding and financing for resilience
  - Resilient Rhody has been a catalyst for \$13mm in new climate resilience funding
  - \$7mm for Municipal Resilience Program proposed in 2021 budget
- Established a process for building a pipeline of climate resilience projects



### RESILIENCE THEME: Financing Climate Resilience Projects

Groundbreaking of the Warren Wastewater Treatment Facility



Communities across Rhode Island face an urgent need to build climate resilient infrastructure that will survive extreme weather events.

There are several existing loan, bond, and grant programs for addressing climate resilience, and many new financing mechanisms currently under development by state and local agencies.

# **Existing Financing Tools for Climate Resilience**

#### **CRITICAL INFRASTRUCTURE AND UTILITIES**

WATER	POWER	TRANSPORTATION
х	X	
Х	X	
Х	х	
X	X	X
Х		
	Х	
x		
	X	
	х	
	X	
Х	X	
		x
X	Х	Х
	X X X X X	X X X X X X X X X X X X X X X X X X

#### NATURAL SYSTEMS

FINANCE TOOL	COASTAL	INLAND	
MITIGATION BANKING	X	X	
land trust	X	X	
CLEAN WATER STATE REVOLVING FUND	х	X	
DRINKING WATER STATE REVOLVING FUND		Х	
Bonds	Х	X	

#### **EMERGENCY PREPAREDNESS**

FINANCE TOOL	COASTAL	INLAND	
EFFICIENT BUILDINGS FUND	Х	X	
PROPERTY ASSESSED CLEAN ENERGY	X	X	
MUNICIPLE ROAD AND BRIDGE REVOLVING FUND	X		
BONDS	x	x	

#### **COMMUNITY RESILIENCE**

FINANCE TOOL	COASTAL	INLAND	
EFFICIENT BUILDINGS FUND	х		
PROPERTY ASSESSED CLEAN ENERGY	X	X	
BONDS	X	X	
TAX CREDITS		х	
FHA MORTGAGES		X	

## **Stormwater Project Accelerator**

- Accelerate implementation of stormwater projects through lowcost upfront capital
- Backed by a funding source that will eventually reimburse the project
- First projects completed in fall 2019
- Pipeline of ~\$3M in projects over next 9 months





# **Resilient Rhody: Municipal Resilience Program**

- Partnership between Rhode Island Infrastructure Bank and The Nature Conservancy
- The MRP is open to all 39 municipalities in Rhode Island
- Provides technical assistance to complete the "Community Resilience Building" process to identify projects
- Action grant funding is available to implement priority projects





# **Resilient Rhody: Municipal Resilience Program**

- 5 municipalities participated in 2019
  - 48 Projects totaling ~\$14mm identified
- 9 municipalities selected to participate in 2020

2019 MRP Action Grants		
Municipality	Project Type	Action Grant Award
Barrington	Coastal restoration and green stormwater infrastructure	\$201,000
Portsmouth	Dam rehabilitation and green stormwater infrastructure for flood mitigation and water quality benefit	\$339,000
Warren	Green stormwater infrastructure at public access points	\$156,000
Westerly	Flood protection at wastewater treatment facility pump station	\$304,000
		\$1,000,000

### **2020 Priorities**

Do	Support	Inspire
Implement High Impact Resilience Projects	Build a centralized resource for funding and financing opportunities	Update on Resilient Rhody progress and project case studies
<ul> <li>Schoolhouse Road elevation and Kickemuit River Dam removals</li> <li>All MRP funded projects</li> </ul>	<ul> <li>Resource to be updated regularly and includes timelines, project applicability, and key contacts</li> </ul>	<ul> <li>Publish an update to Resilient Rhody with progress made to identified actions and new climate science available.</li> </ul>

## **Climate Action Snapshot**



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