

Out of the Flood and into the Hub: Piloting the First State's Resilience Hub

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05/12/2023



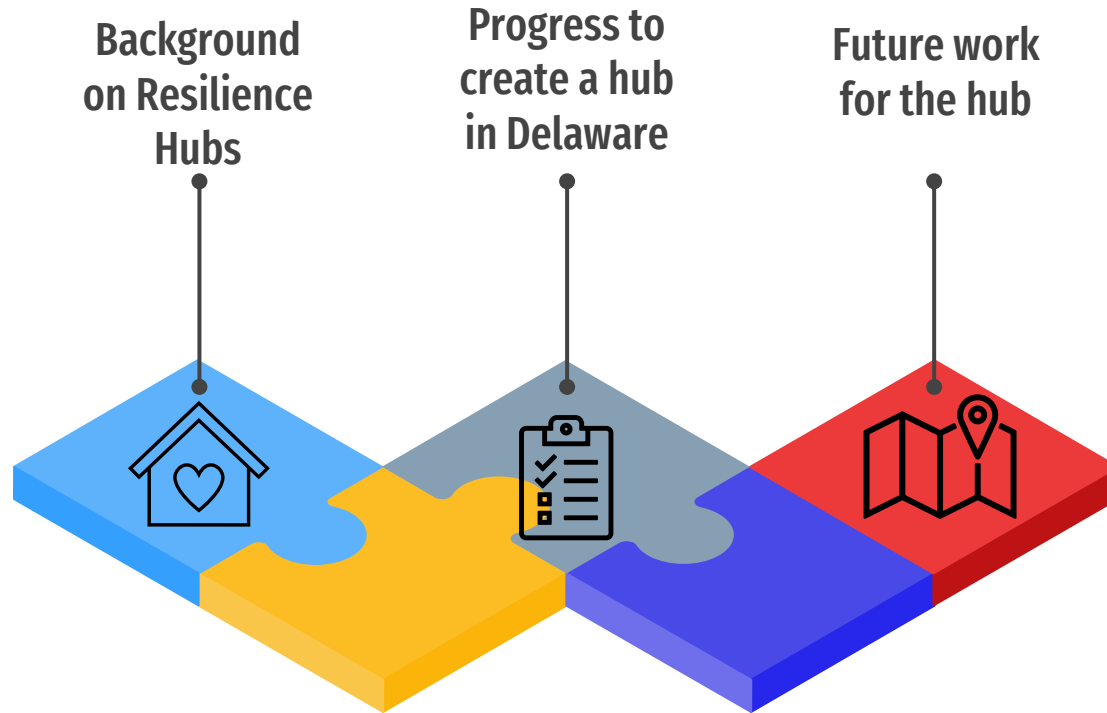
DELAWARE DEPARTMENT OF
NATURAL RESOURCES AND
ENVIRONMENTAL CONTROL



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce



Presentation Road Map



Building Resilience in Delaware

Project title: Building Resilience through Relationships: Collaborating with Local Organizations to Support Frontline Communities

- Inspired by flooding in Wilmington due to Hurricane Ida
- Brandywine River reach a record high of 23.1 feet
- 200 people rescued
- NE community still recovering



What Are Resilience Hubs?

Beloved Space

Pre-existing, trusted,
community facilities.
-Church, community
center, etc.



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Sustainable Upgrades

Augmented to
sustainably meet
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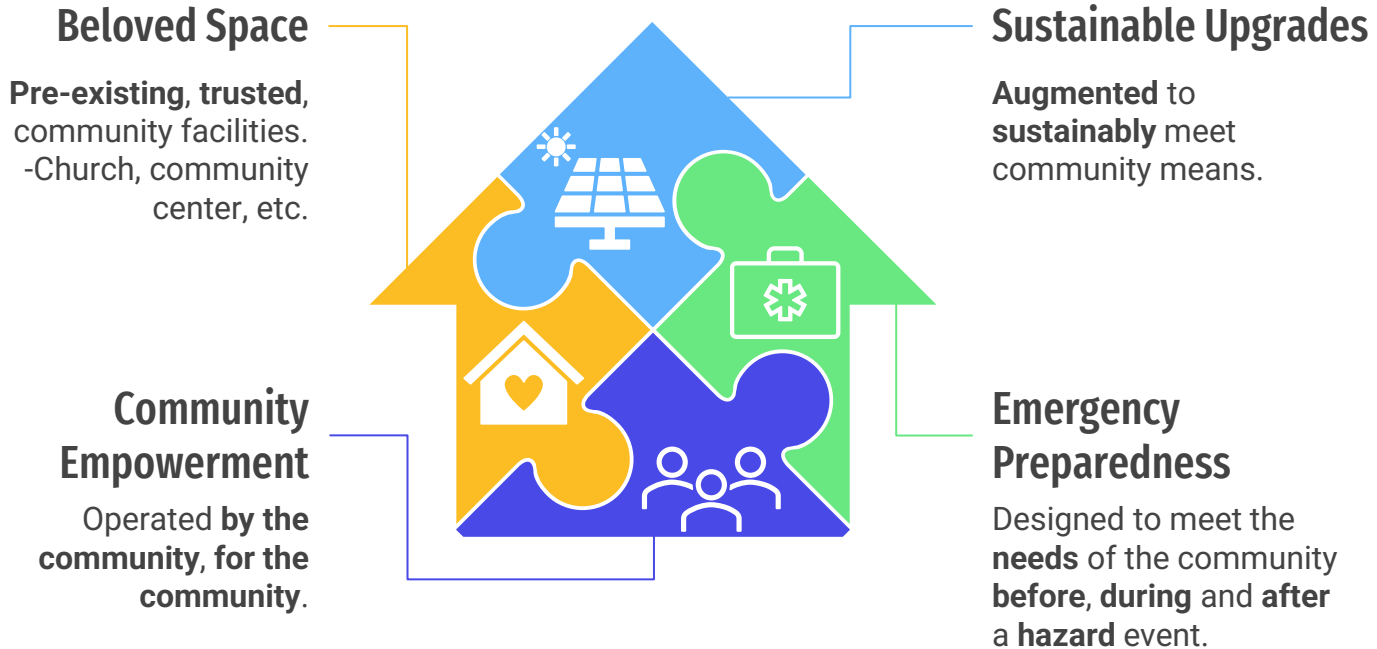
Sustainable Upgrades

Augmented to
sustainably meet
community means.

Emergency Preparedness

Designed to meet the
needs of the community
before, during and **after**
a **hazard** event.

What Are Resilience Hubs?



Creating the First Resilience Hub



Survey

In 2014 the Office of Sustainability in Baltimore, MD, was surveying historically segregated communities.



Realization

Discovered community leaders already providing essential services to residents.



Support

Asked how they could support the community.



Creation/ Codevelopment

Strong partnerships developed the first resilience hub in the country.



Building a Resilience Network

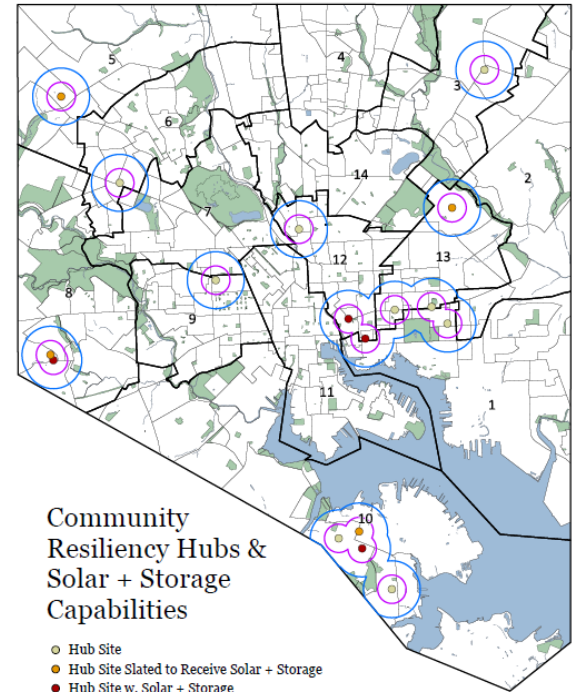
Baltimore, MD

Since 2014 the resilience hub network has been growing

13

Increased Social Cohesion

Increased awareness, partnerships, and resources.

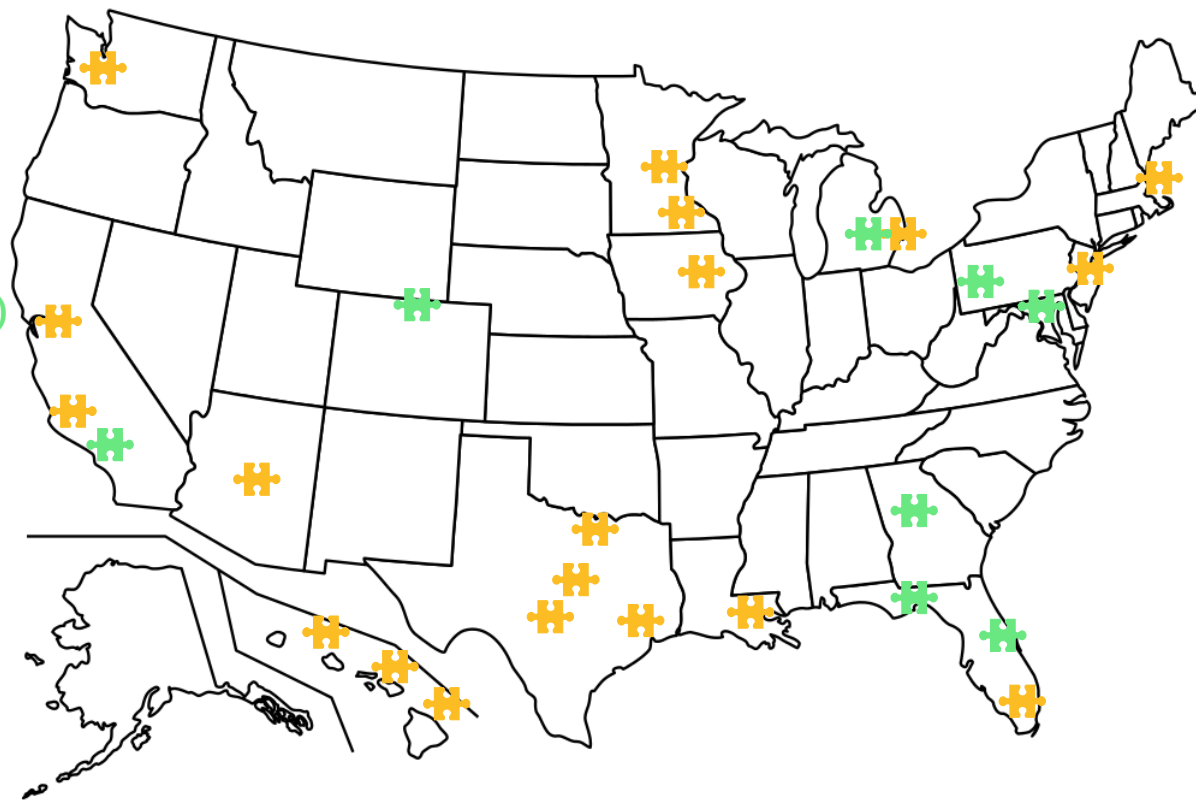


Nationwide Growth of Resilience Hubs

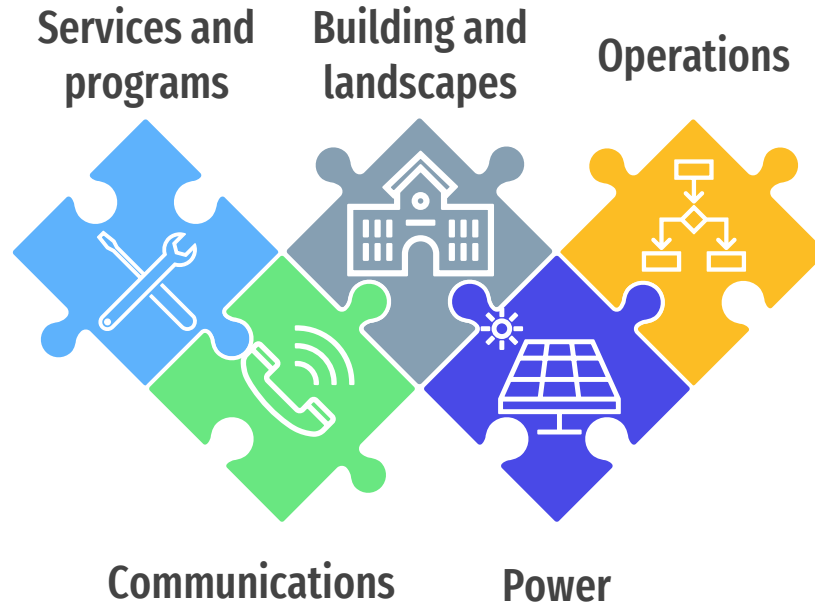


Hubs in
progress

Open
(Activated)



USDN Five Components of a Resilience Hub



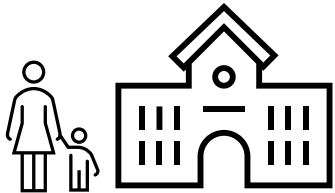
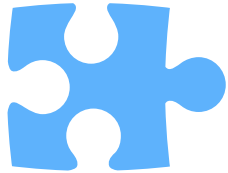
USDN

urban sustainability
directors network

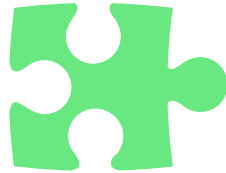
Natural Evolution of Resilience Hubs

- Resilience hubs are tailored to their communities through partnerships and engagement to tackle their unique stressors.
- Meaning that resilience hubs can evolve over time to meet current community needs.

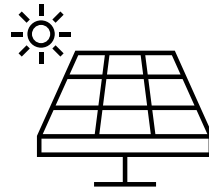
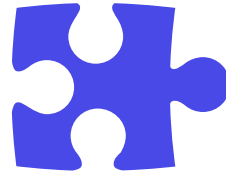
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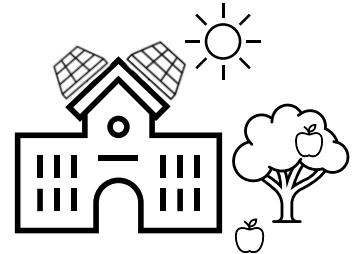
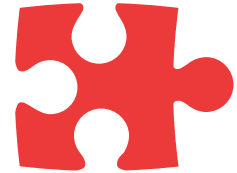
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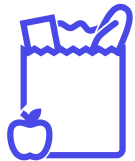
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No Two Resilience Hubs are the Same



FCEC Washington, DC

Issue:
Food access and
public safety.

Hub Solution:
Industrial
kitchen and
health
education.

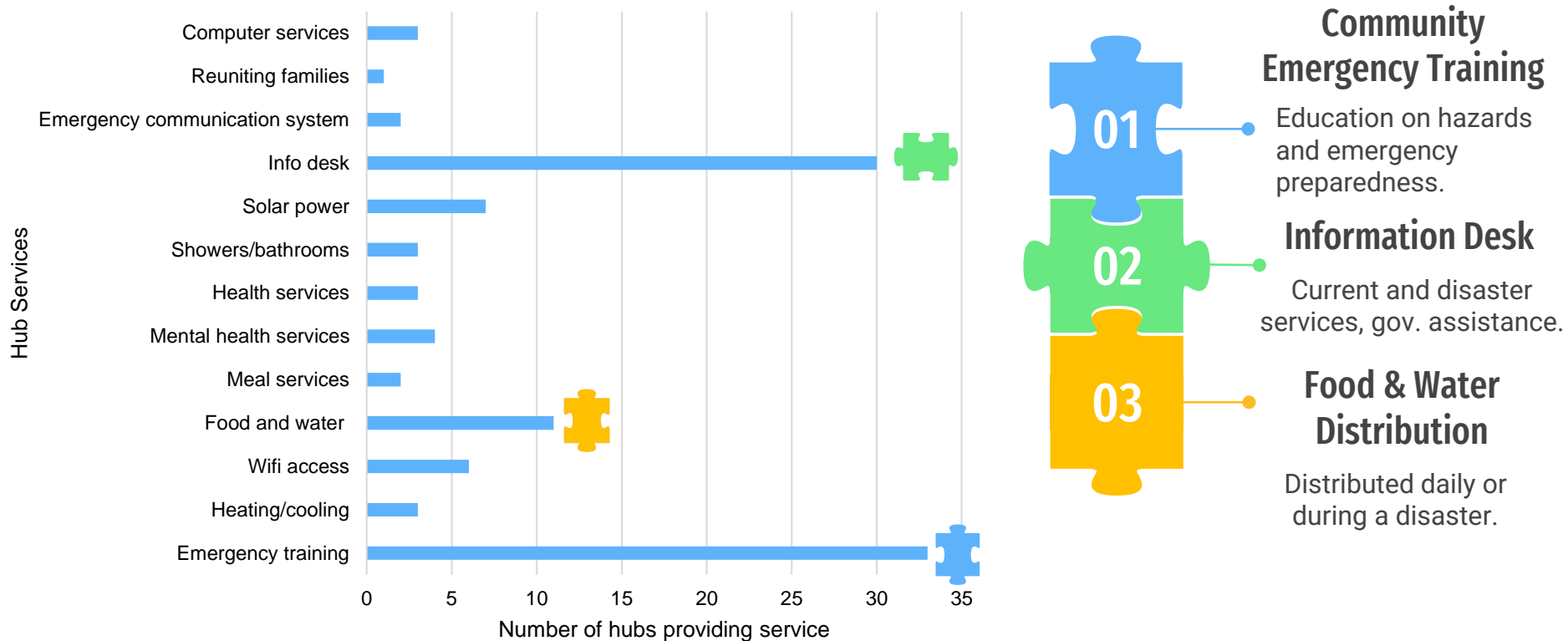
Issue:
Extreme heat
events.

Hub Solution:
Heat relief via
battery backup.

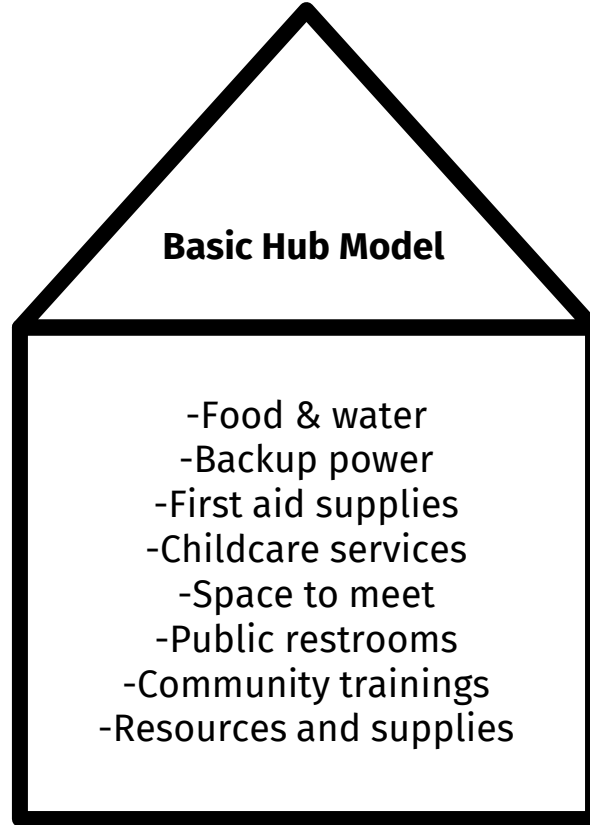
Envision Tempe, AZ



What services are resilience hubs currently providing?



A Hub for all Occasions



A Hub for all Occasions



Flood Prone Areas

- Hub not in flood zone
- Cleanup crew
- Temporary housing resources
- Transportation services
- Flood/storm kits
- Evacuation routes & emergency preparedness



Basic Hub Model

- Food & water
- Backup power
- First aid supplies
- Childcare services
- Space to meet
- Public restrooms
- Community trainings
- Resources and supplies

A Hub for all Occasions



Flood Prone Areas

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Heat Islands

- Cooling center
- Community gardens
- Shady spaces
- Heat related kits
- Rain barrels

Applying Resilient Solutions Locally

- Partnered with Green Building United
 - Planning grant to learn what NE residents want in a resilience hub
 - Outlined series of workshops to educate 10 local leaders - Resilience Team
 - Compensated to serve as ambassadors, go through training, and attend two design planning charrettes to get the rest of the community involved in developing a resilience hub



Photos from: Facebook_Northeast Rising



USA Today's
Woman
of the
Year!

Planning for Resilience

- Workshops to train the Resilience Team on climate change and resilient solutions
 - Red Cross
 - What are Resilience Hubs?
 - Neighborhood Revitalization – Leadership Training
- Gathered community input for resilience kits
 - Go kit for emergencies containing supplies like first aid kits and chargers



Photos from: Facebook, Northeast Rising

Community Engagement

- Recently held the second planning workshop
- Began designing Hub services and distributed resilience kits to NE residents



Northeast Community Residents

April 29, 2023 11am - 3pm

Do you want to help us create a climate resilience hub?

**WILMINGTON PAL
3707 N.MARKET STREET
LUNCH PROVIDED
REGISTER HERE OR CALL
STACEY HENRY AT
302-420-1819**



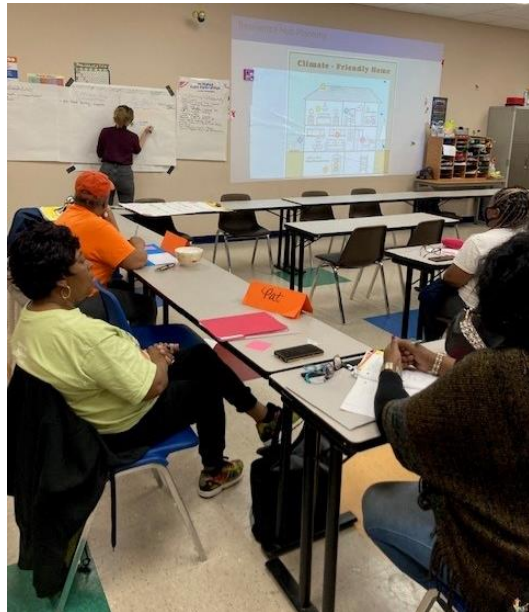
**FOLLOW US: FACEBOOK @NORTHEASTRISING
IG @NORTHEASTRISING_WILM**

USDN Six Phases of Developing a Resilience Hub



Survey

Complete vulnerability assessments and determine service area and assets.



Complete

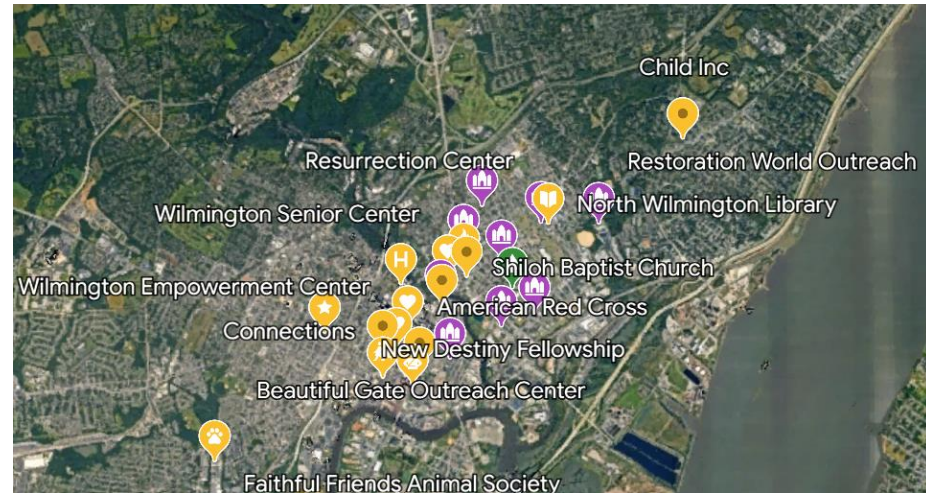


Photo from: Facebook_Northeast Rising

USDN Six Phases of Developing a Resilience Hub



Complete



Photo from: Facebook_Northeast Rising

USDN Six Phases of Developing a Resilience Hub



**In
Progress**

Image from: <https://palw.org>

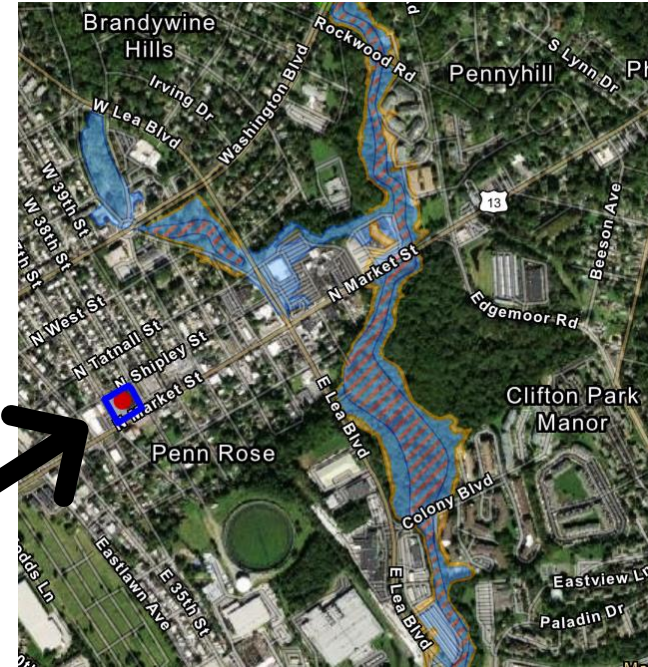
Choosing a Hub Location Outside of the Flood Zone



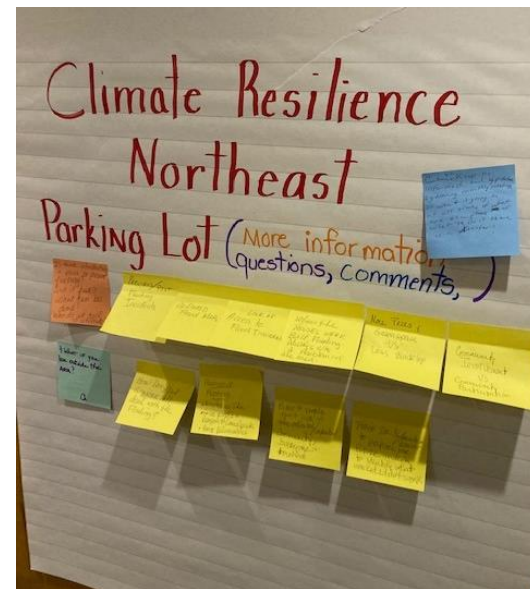
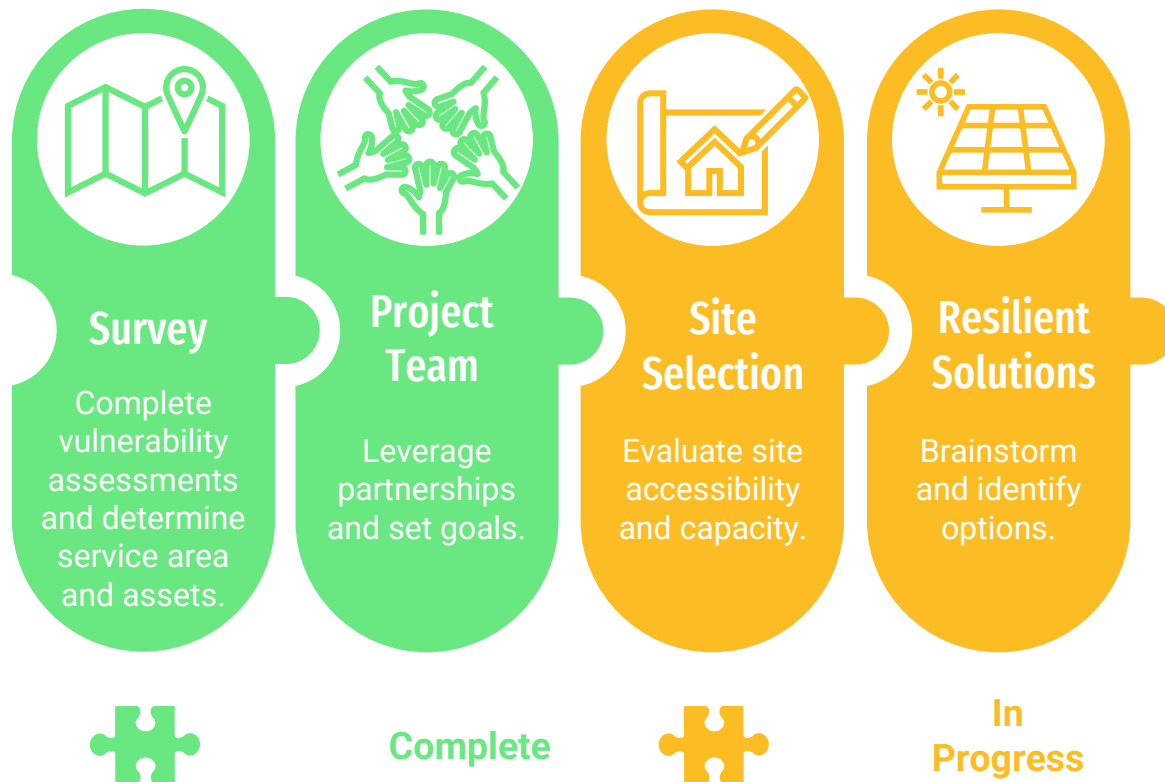
Site Selection

Evaluate site accessibility and capacity.

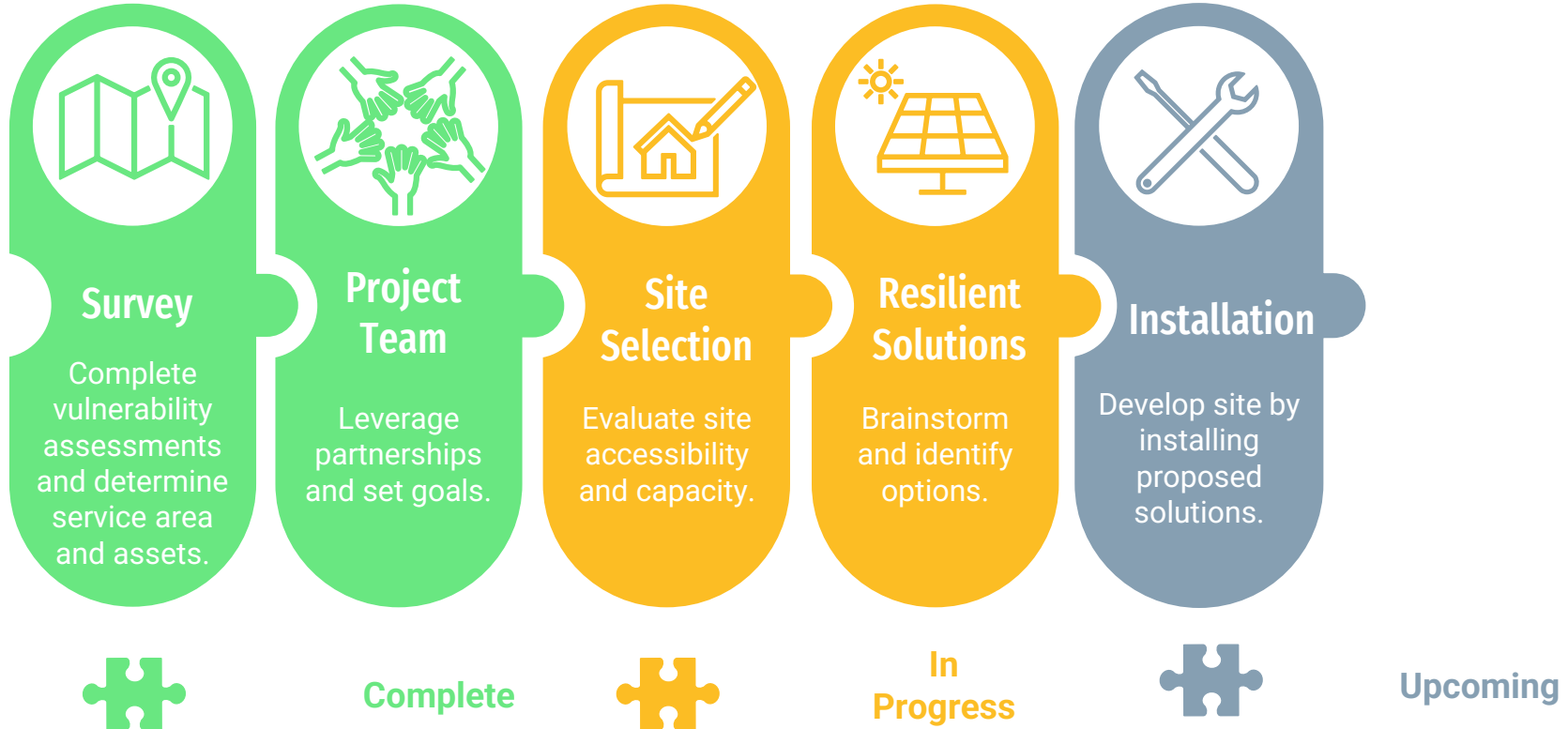
- PAL is NOT WITHIN the FEMA 100-year floodplain
- Provided relief services to residents during Ida
- Good relationship with community
- Walkable location
- Still being evaluated for accessibility and capacity



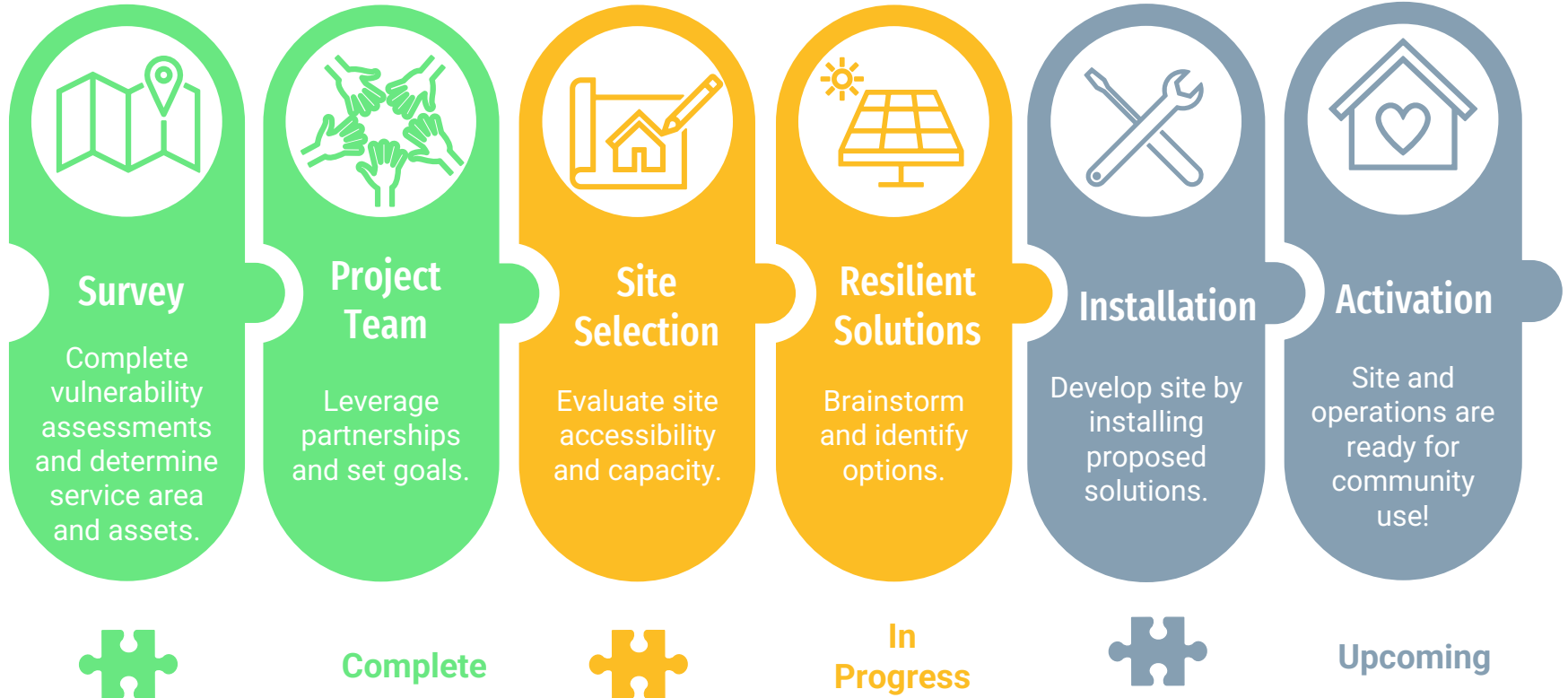
USDN Six Phases of Developing a Resilience Hub



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USDN Six Phases of Developing a Resilience Hub



Next steps

Finishing up
planning grant

01

Investigating
solar options

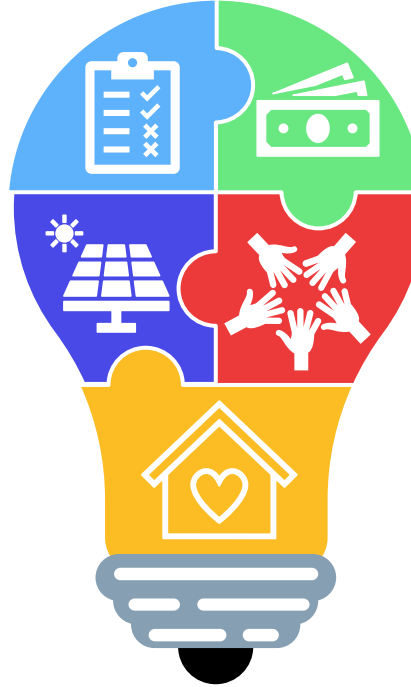
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Pursuing
additional grant
opportunities

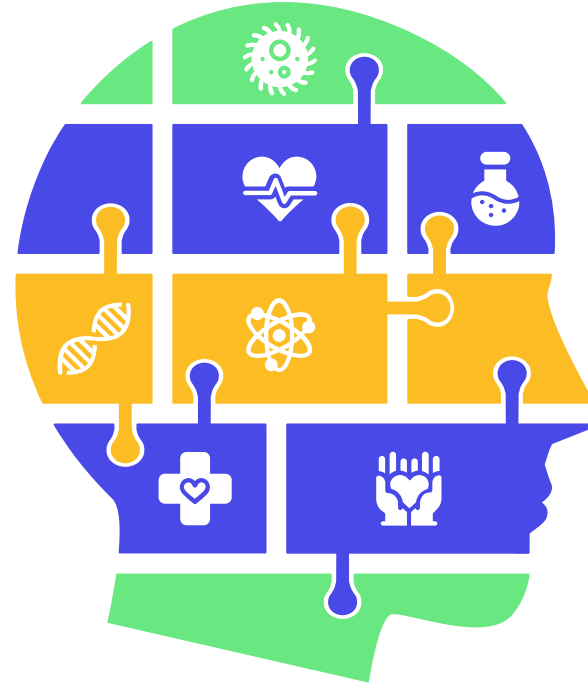
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Community
outreach events



Acknowledgements

- Coastal Program Team:
 - Dr. Ashley Norton
 - Kristen Thornton
- Green Building United
 - Karen Igou
- Resilience Team
 - Stacey Henry



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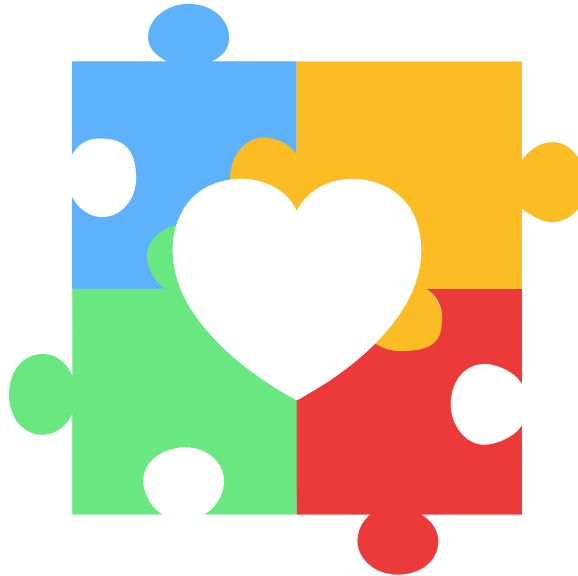
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Thank you for listening!

Questions?

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