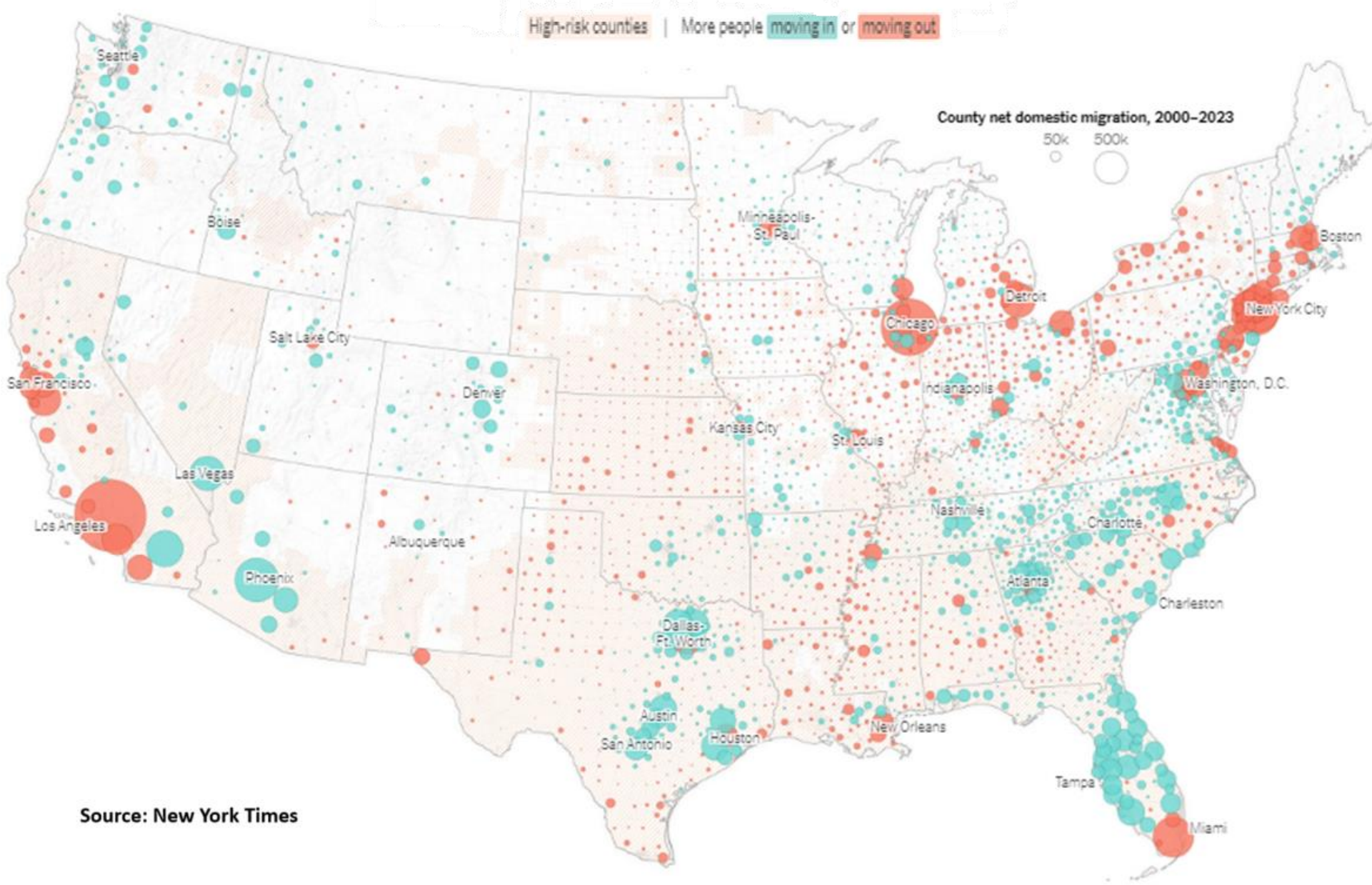




Notable Climate Resilience and
Economic Development Projects



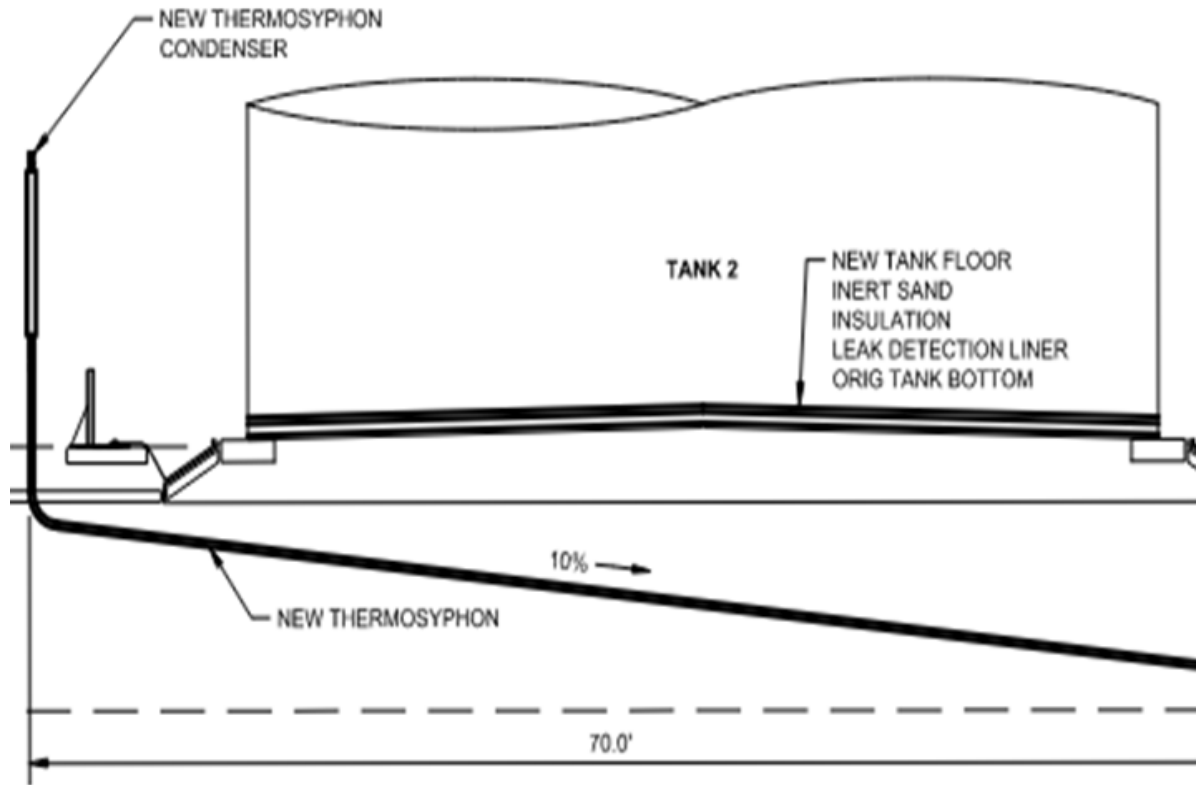
- ❖ Population shifts increase exposure to climate-driven hazards and heat.
- ❖ From 2000-2023, Florida gained 3M people, and North and South Carolina added 2.5M through domestic migration.
- ❖ ~ 200M live in disaster-prone areas

RECENT EDA INVESTMENT IN NOME, ALASKA



- ❖ Permafrost is melting, and the tanks are sinking.
- ❖ Renewables do not work in this environment. (It has been tried.)
- ❖ The community is (currently) dependent on diesel and heating oil for its survival.

SOLUTION: THERMOSYPHONS TO STABILIZE PERMAFROST



Total project cost: \$17.5 million

Jobs saved: 2,500

EDA investment \$4.5 million

FLORIDA'S CORAL REEF TRACT



- ❖ Only barrier reef system in CONUS
- ❖ Third longest coral barrier reef in the world
- ❖ Coastal/blue economy
 - \$6.3 billion
 - 70,000 jobs in tourism, fishing, and marine industries.
- ❖ Healthy coral reefs
 - Dissipate wave energy
 - Reducing storm surge
 - Saving billions in damage costs.

FLORIDA REEF TRACT CORAL DISEASE RESPONSE AND RESTORATION INITIATIVE

- ❖ Disease discovered in 2014
- ❖ Coral rescue program started 2018
- ❖ Disease-resistant coral fragments are grown in offshore nurseries and then transplanted to reefs.
- ❖ The onshore nursery currently holds 4,894 corals; 1,258 colonies and 3,636 fragments.
 - 152 corals have been outplanted from the onshore nursery systems since the start of 2024.



CLIMATE RESILIENCE AND RISK REDUCTION IN THE U.S. VIRGIN ISLANDS

- ❖ \$69M from NOAA Climate Resilience Regional Challenge
- ❖ Protect key natural and cultural areas in the USVI through community-driven projects
- ❖ Focus areas:
 - Mangrove restoration
 - Sediment reduction
 - Stormwater runoff management,
 - Coastal trail development
 - Marine debris removal

- ❖ Tourism is the largest contributor to USVI's economy.



CULEBRA SOLAR

- ❖ Two years after Maria - FEMA-provided generators for power.
- ❖ Lower cost of energy for businesses
- ❖ EDA supported
- ❖ Designed to withstand future natural disasters.
- ❖ Transition to a resilient, renewable energy system.



LOUISIANA COASTAL MASTER PLAN

- ❖ Wetland Restoration: Restores wetlands as natural barriers, protecting communities and vital industries like fisheries.
- ❖ Barrier Island Restoration: Reinforces defenses against storms, safeguarding energy, tourism, and fishing industries.
- ❖ Sediment Diversions: Redirects sediment to rebuild land, supporting environmental and economic resilience.
- ❖ Levee and Flood Protection Systems: Strengthens flood control to protect critical infrastructure and ensure economic continuity.
- ❖ Community Resilience Initiatives: Enhances infrastructure and preparedness, reducing climate disaster impacts on businesses and growth.



ROI

- ❖ **Beach nourishment**
 - \$1 invested = \$810 in tax revenue from tourists.
 - 100 Resilient Cities
- ❖ **Flood defenses and coastal protections**
 - \$1 invested = \$4 to \$7 saved in recovery costs
 - National Institute of Building Sciences
- ❖ **World Bank** – *“Investments in infrastructure resilience, including flood defenses, yield substantial returns in avoided disaster costs.”*



QUESTIONS



THANK YOU!

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