

Future Proofing America's Homes, Neighborhoods, Communities

Enlightened self-interest generating measurable economic AND social benefits
from pre-disaster risk mitigation

Proposal for Strategic Partnership

2024

About Us

Resilience Innovation Hub: Three Year Work-plan

“A Mission-Focused, Action-Oriented 501c3 Facilitating Public-Private-Philanthropic Partnerships to Transform America’s Current Risk Mitigation, Risk Investment Model”

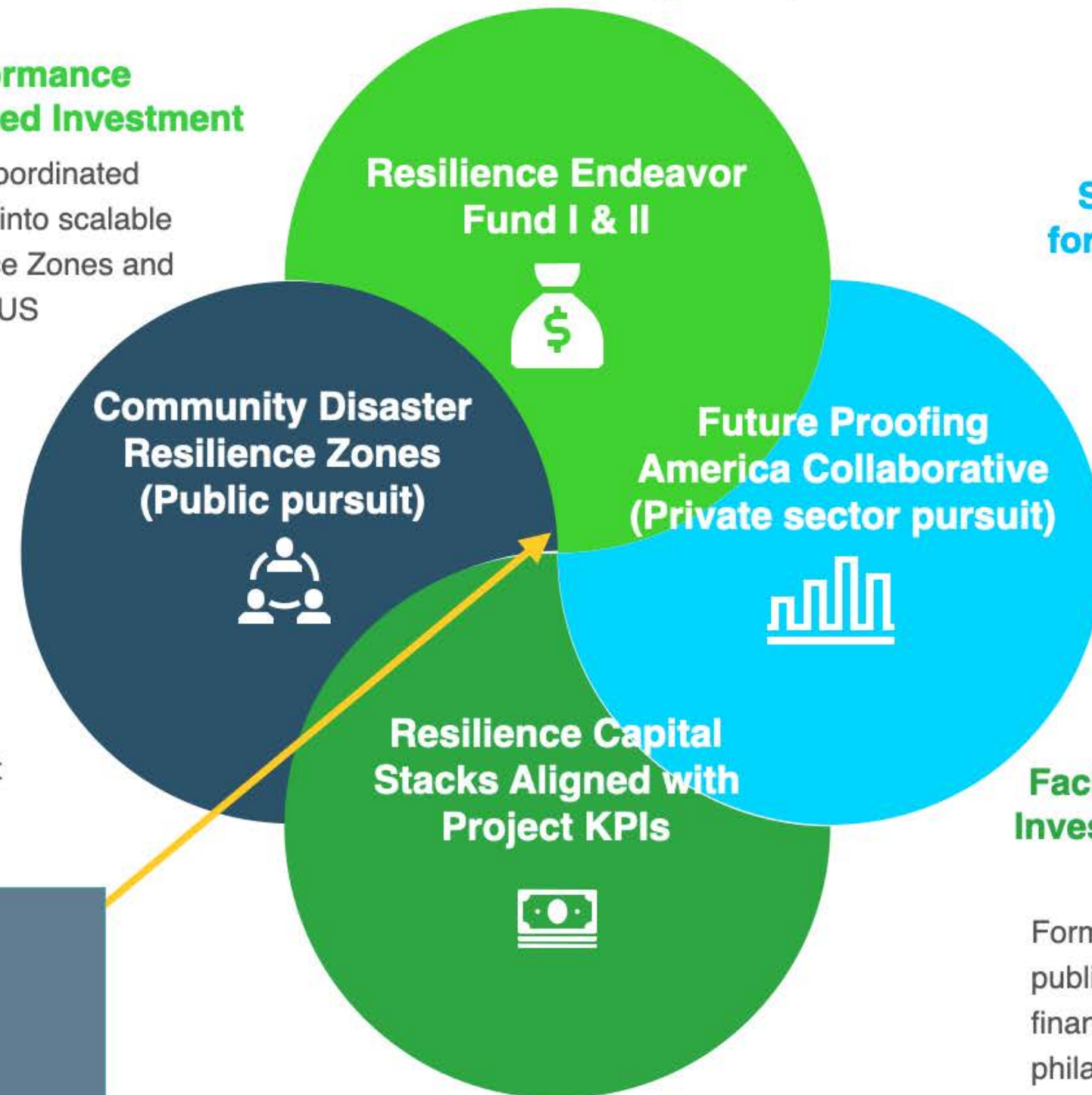
Sparking ROIs and Performance Driven Cost-Benefits via Targeted Investment

Syndicated investment funds coordinated with other resource allocations into scalable real estate projects in Resilience Zones and Disaster-Prone Regions of the US

Leveraging Federal Designation for Most-At-Risk, Most-In-Need Census Tracts through A New Operational Framework

Organized Private-Philanthropic Partnership in support of the Federal (public) pursuit of transformational preparedness, pre-disaster risk mitigation across a Whole of Government strategy.

Assessing, Driving Actionable
Intelligence and Strategic Investment
via our 32 Billion+ Dataset
(‘Resilience Data XChange’)
Across Communities, Locations,
Assets and Sectors



Launching a New Resilience Standard and Investment Strategy for De-Risking The Built-Environment

A powerful consortium of the Nation’s leading design, architecture, engineering, construction, real estate development-management, green-sustainable, data and modeling, banking-insurance-mortgage expertise engaged to design project templates meeting, exceeding a new standard

Facilitating Public-Private-Philanthropic Investment Allocations into New Mutually Beneficial Packages

Forming a portfolio of investment packages across public (tax credits/incentives/funding), private financing, insurance-reinsurance solutions, philanthropic impact resource allocations for advancing disaster risk mitigation

Our Executive Summary “Thesis”:

Invited members of the Collaboratives’ national and global leadership provides immediate support of deploying a new standard, project templates, and alternative capital for the built environment’s risk mitigation, and community resilience-focused investment

Individually and collectively, member’s insights, data, and market understanding will accelerate the work of the Future Proofing America Collaborative to overcome perceived ‘hurdles, acceptance’ of retrofits and new construction projects through enlightened self-interest

\$5T

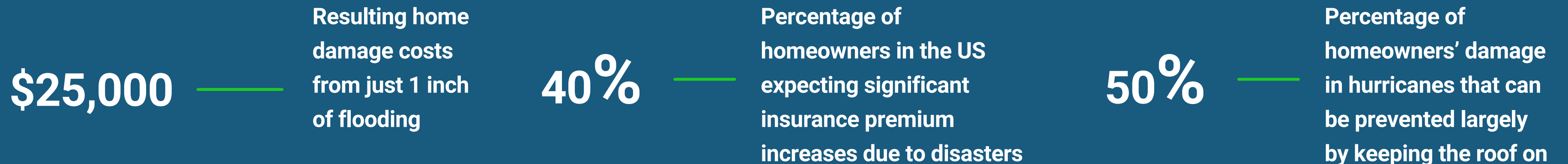
Estimated devaluation total for real estate portfolios along entire US coastline – a national financial crises on the horizon!

\$4+T

Total Losses since the mid-1980s due to all disasters in the U.S.

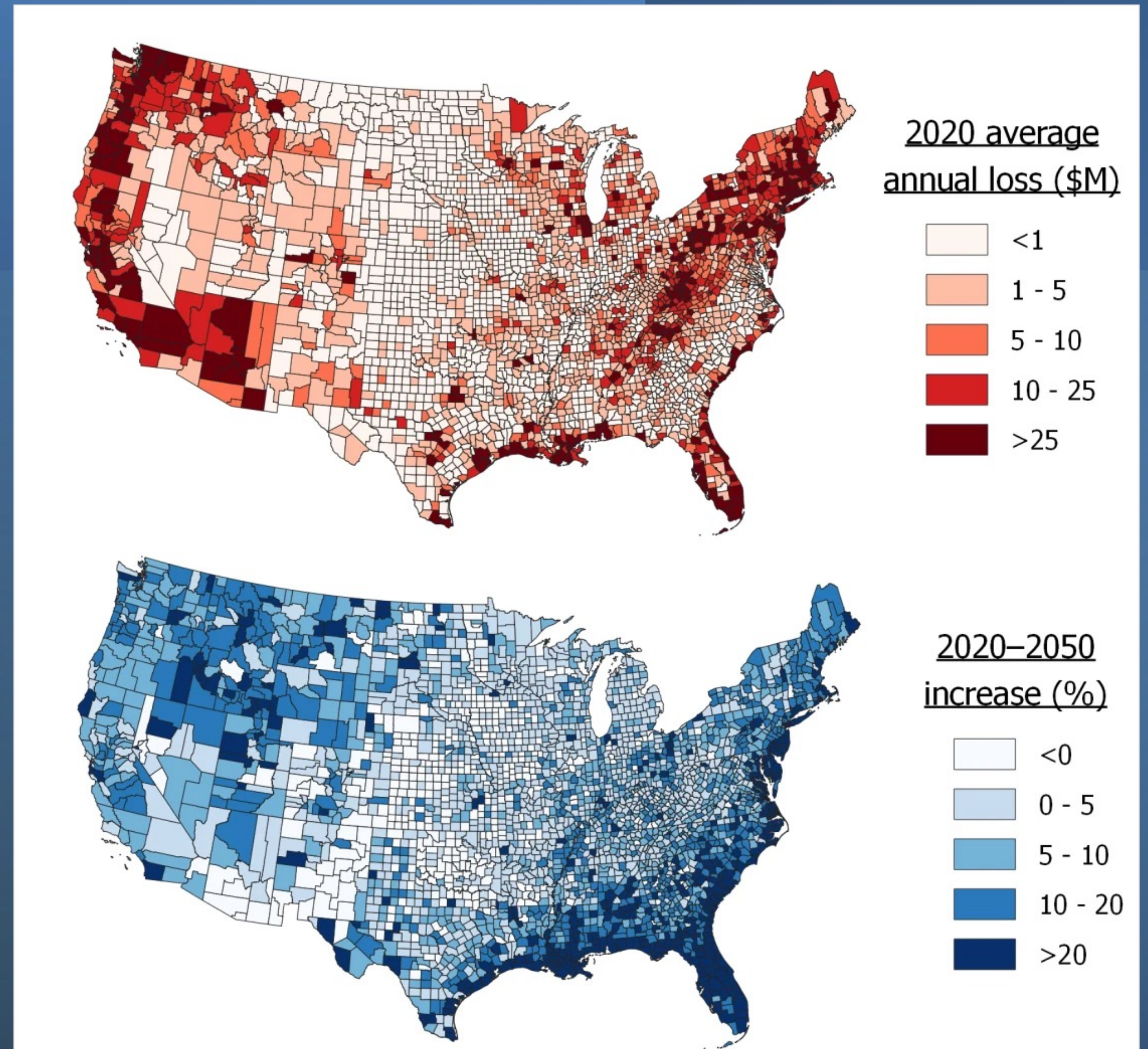
THE Problem Statement:

- Greatest loss claim totals from climate-related events and weather disasters are in U.S. homes, neighborhoods, and across the entire built environment – especially in low-to-moderate income communities – where the economic and fiscal costs for constant recovery and rebuild have reached an unsustainable level.
- Projected financial affects – including significant mortgage defaults and increasing insurance rates – has led to new levels of uncertainty for families and employers at all levels of the economic spectrum
- Unless addressed through innovative strategies and alternative investment scenarios, Insurers, Reinsurers, Mortgage Companies, Banking, and the Nation's Financial Markets will be materially impacted by these persistent challenges and current 'old school' recovery-rebuild costs. We know the immediate and near-term impact for the Real Estate sector!



A Significant Amount of the the Collaborative's Clients and Strategic Partners Will Be Negatively Impacted by Climate Losses.

Our Proposal: Directly Change the Affects Across Disaster and Social Vulnerability, Risks, and Mitigation



THE Objectives:

Driving down the recovery-rebuild costs from natural catastrophes through an increasing percentage of future-proofed and fortified neighborhoods, communities to achieve a new standard of resilience, while directly affecting citizens, employers, asset owners, and economies

We have assembled two unique consortia of the Nation's best minds, practices, expertise, and 'get-stuff done' spirit to create a future proofed America!

Our Goal: Changing the 'Delta' in the Nation's Risk Mitigation

FROM THE ALIGNMENT OF TECHNICAL, ENGINEERED, SCIENTIFIC, AND FINANCIAL CAPABILITIES



PREVIOUS LOSSES

With nearly \$4 trillion in losses since the 1980s, rising costs of coverage - countered by an abundance of new data, modeling, and after-action report recommendations - the cost of doing the minimum or traditional response and rebuild is no longer economically, financially, politically sustainable.



MITIGATION AND INTERVENTION

Through our approach to innovative resilience by identifying, vetting, investing, and deploying integrated solutions of technology, equipment, and data tools - adopted to retrofit or new construction - we can measurably transform current risk transfer to risk shared impacts for insurance, reinsurance, public sector and of course citizens, communities, companies. In turn, we can minimize or offset first-costs for developers and asset owners.



MEASURABLE REDUCTIONS

Based on emerging best practices, modeling, and newly formed partnerships, we seek to demonstrably launch and sustain projects where a minimum of 1:6 cost-benefit will reduce future loss claims and enhance continuity of operations + community safety. Leading to a new securitized financial-investment instrument. Our end-point: Community Resilience Private Activity Bonds, Resilience Endeavor Fund, similar alternatives

Why This is Material for Private and Public Sectors:

Do Nothing: Asset Owners, Communities

- Rising insurance, financial services costs
- Increased redevelopment and rebuild burdens
- Loss of business and economic activity
- Constant state of uncertainty
- Fragmented resources, continuous demand on taxpayers – individual AND business
- Further barriers for underserved populations

Do Something: Asset Owners, Communities

- Potential reduced rates and financial outlays
- Strengthened economy and employment options
- Personal safety, reduced loss of life
- Improved quality of life
- Real estate values improved, therefore tax base
- A new generation of financially strengthened

Do Nothing: RE Financial Services, Insurance, Mortgage

- Significant losses to balance sheet from larger disaster 'gaps', defaults, under-insured projects
- Penalized for lack of proactively deploying innovative alternative investment models
- Negative brand and image
- Competition from newer providers, firms

Do Something: RE Financial Services, Insurance, Mortgage

- New products lines, revenue opportunities
- Higher levels of customer loyalty
- Reduced volatility of earnings in cat prone areas
- Recognition for active investment engagement
- Branding as socially responsible catalyst

Proposed Pilot: Jumpstarting Proof-of-Concept I

Future Proofing America Collaborative

De-Risked Real Estate Developments, Projects, and Communities Against All Forms of Peril, Disaster Threat

Scalable Designed,
Architected, Engineered
Site Templates



New Investment
Capital Stacks



Portfolios of
Innovatively
Mitigated
Properties,
Facilities,
Assets

Ground-Truth'ed
RE Development,
Operations, and
Management



A New Resilience
Standard



COLLABORATIVE OBJECTIVES

OBJECTIVE 01

Immediate Insights for Reducing Exposures to Myriad Risks from Persistent Climate Disasters Across the Built Environment

OBJECTIVE 02

Spark Alternative, Innovative Banking, Lending, Financial Services and Investment Models including Resilience Private Activity Bonds

OBJECTIVE 03

Generate Near-Term Business Development and New Market Opportunities For Multiple Stakeholders and Common Interests

Our Future Proofing America Road Map Summary

How Each Activity Accelerates the Pivot for A New Resilience Standard; No One Single Activity Alone Advances the Result

A PHASED ROAD MAP

1

Collaborative Research & Design, Methodology

Fast-paced convening of Nation's leading expertise in built environment, real estate, sustainable, data and modeling, technical, standards and codes

2

Capital Stack Formation of P4s

Facilitating the Nation's top banking, insurance-reinsurance, mortgage, public finance, traditional and alternative investment, tax credits and incentives executives

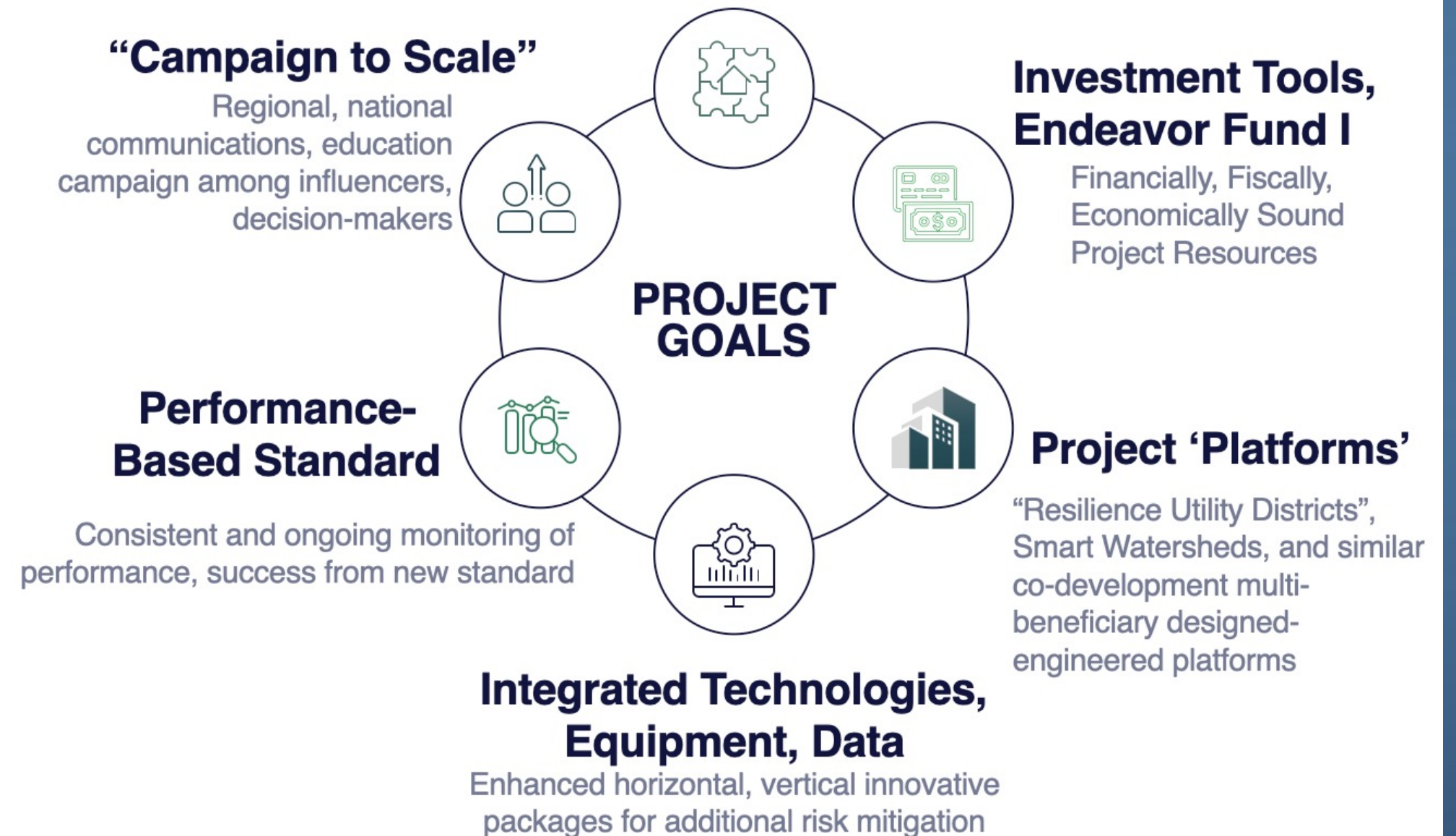
3

Scalable Project Demonstrations

Advance from conceptual to simulated to 3-5 in-the-field projects and demonstrate the efficacy, cost-benefit, return on investment models for scaling confidence in the Future Proofing America standard

Risk-Mitigated Site Plan Templates

Simulated, Evaluated, and Ground Truth'ed Multi-Use Site Plans



Future Proofing America's Communities and "Resilience Zones" A Conceptual Design



The issues of Natural and Human Environment Challenges:

Disaster Vulnerabilities

- Drought
- Flood
- Overland Water flow
- Wild or Urban Fire
- Coastal Storm Surge
- Windstorms
- Urban Heat island

Response: *Large Scale Disaster Mitigation Design, Development, and Hazard Reduction Methods for Residential, Commercial, Industrial, Public Sector assets, facilities, infrastructure*

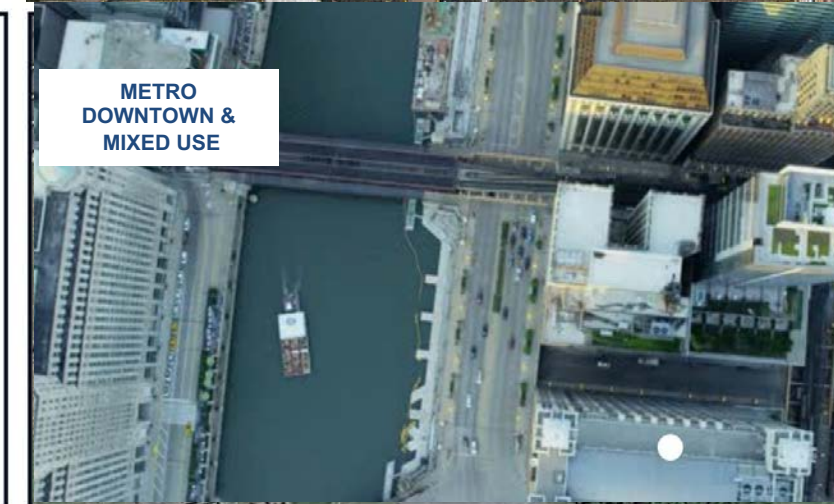
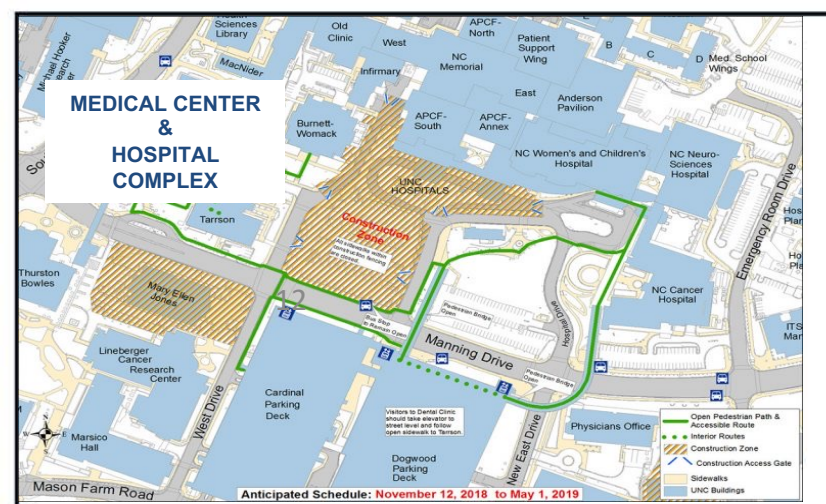
Social Vulnerabilities

- Health and Pandemics
- Food 'Deserts' and Nutrition Options
- Limited Weatherization and Fortified Structures/Homes
- Limited Broadband and Critical Communications Access
- Training and Certification for New Opportunities in Resilience/Sustainability

Response: *Integrated "Thriving Not Just Surviving" strategic programs, projects for homeowners, citizen and civic groups*

Our Interdependent Project Development Strategy

Empowered by The Resilience Innovation Hub and Future Proofing America Collaborative



Innovative, Virtual Development Package(s) and Templates Licensed for Rapid Deployment

Selected Regional Developers, Partners with Exclusive Co-Development Agreements for Regional FPA Projects

Financing, Funding for Syndication of Each Project or A Portfolio of Projects

FUTURE PROOFING AMERICA COLLABORATIVE

Aligned Simulated, Branded Development Package Scopes of Work

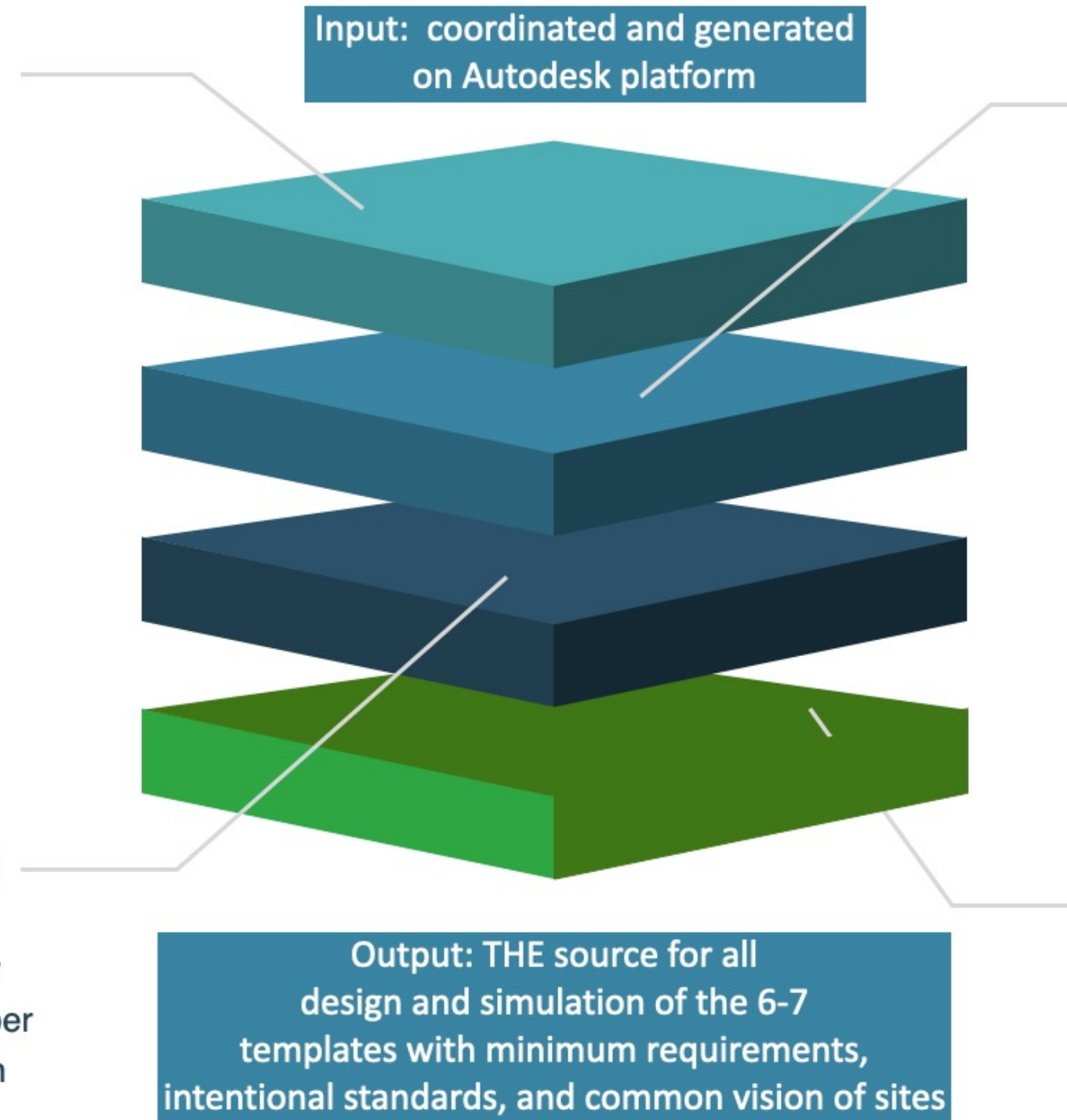
Phase I Research and Design: Initial Resilience BIMS Modeling Layers with Site Forces (Natural, Disaster-Related, Financial, Economic, Societal, etc.)

ALL COLLABORATIVE MEMBERS

Curation of existing model outputs, datasets, “media” including successful projects and design features, site and market analyses of existing resilience-oriented projects, representative information on architecture, engineering, technical, operational examples (from specific development types to overall land-use). Said layers include structural, HVAC, etc.)

MARKET ANALYSIS

Site and Market Analytics - historical and current (past 7-10 years if possible) for specific cities, domains, locations at a census track and deeper level). Ground truth specific values, economics per pre-vetted 10-12 pilot project locations, based on project future conditions



PRODUCTS & SERVICES

Environmental-Health-Safety, Risk Mitigating, Operational - internal (on and in the development) + external (around, within certain distance from the facility, property)

FINANCIAL & INVESTMENT

Analysis of capital stacks - insurance-reinsurance, mortgage, traditional project financing, impact and DAF resources + government (federal, state, county, special district, municipal) incentives and tax credits for developers, operators, tenants, owners.

Future Proofing America Benefits To Developers, Communities, Resource Decision-makers

Funding, Investing in Resilience-Centric P4s

FEDERAL

FEMA | HUD | EPA | AGRICULTURE |
ENERGY | INTERIOR | SBA | HHS



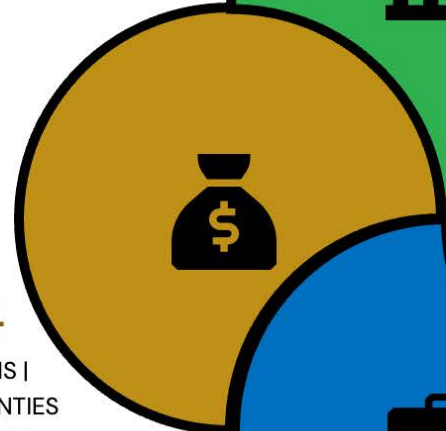
NON-PROFIT, FOUNDATION, IMPACT

NATURE-BASED FOUNDATIONS |
CORPORATE AND FAMILY FOUNDATIONS |
IMPACT INVESTORS |



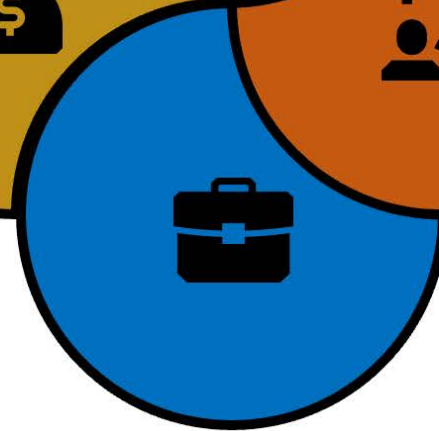
STATE AND LOCAL

STATE AGENCIES AND PROGRAMS |
COUNCILS OF GOVERNMENT | COUNTIES
| MUNICIPALITIES | SPECIAL DISTRICTS



CORPORATE, EQUITY, INSURANCE

BLACKSTONE | PRUDENTIAL | AON |
MACQUARIE | RESILIENCE BONDS |
INDIVIDUAL OR FAMILY OFFICES

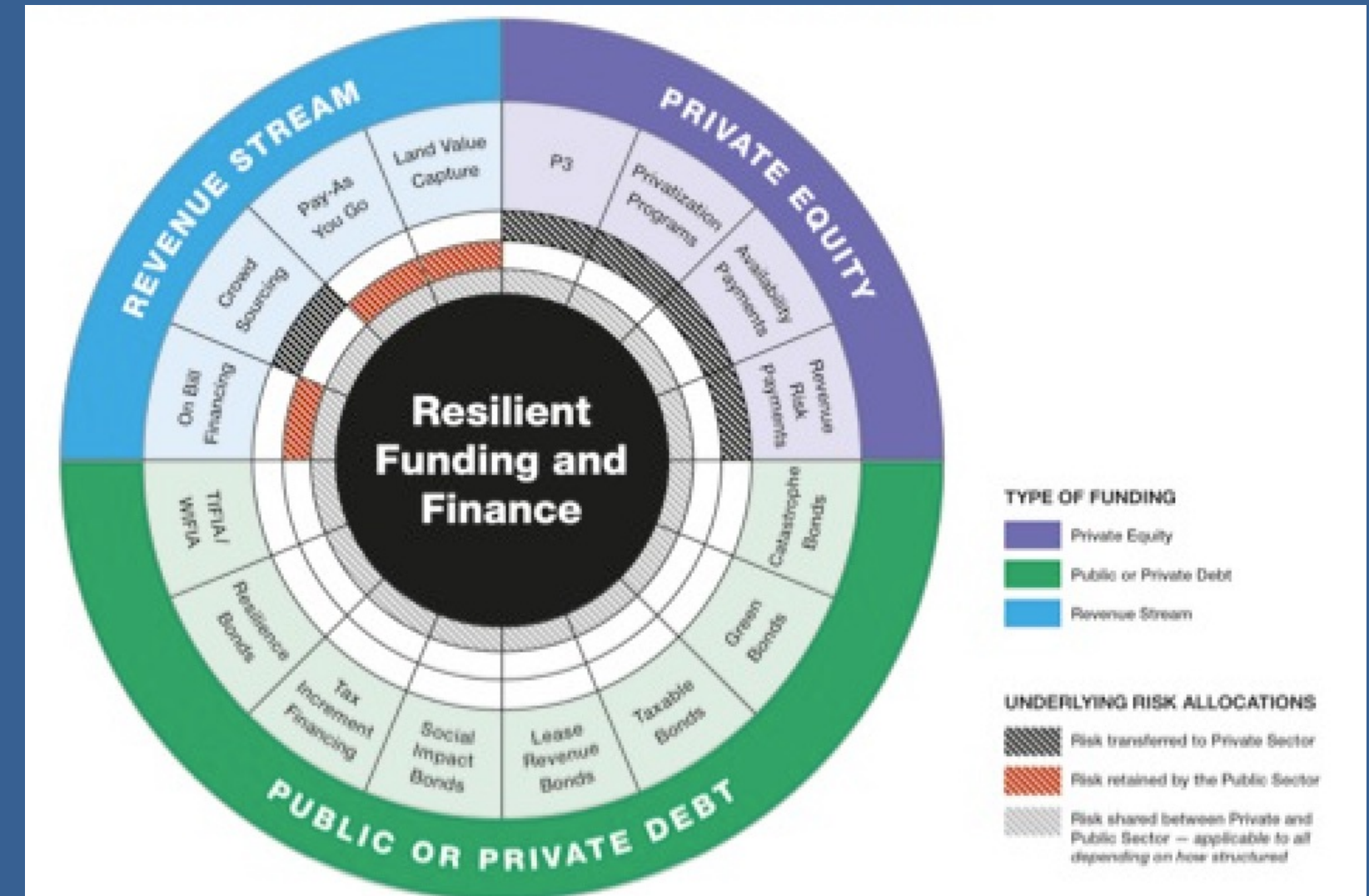


We seek to unleash new, alternative forms of investment in Future Proofing America-designated projects to spark increased utilization and deployment of the Development Packages, Templates, Standards, and Principles. We seek to accelerate the development and financing of resilient real-estate locations and communities by key resource decision-makers. Therefore, generating interests by consumers, citizens, and companies to become end-users of FPA-certified projects.



“Platform” for Integrated, Alternative Financing and Investment Models including Public-Private-Philanthropic (“P4”) Capital Stacks:

- Resilience Zone Private Activity Bonds
- Traditional Project Financing
- New Market Tax Credits
- Historic Building Tax Credits
- Energy and Sustainability Financing, Credits (including Carbon Capture)
- PACE
- EB5
- Tax Incremental Redevelopment Zones Designation
- Opportunity Zone Designation
- Philanthropic Grants and Impact Financing
- Insurance as Economic Capital Scenarios



Interplay Among Key Resilience Entities



Under the Resilience Innovation Hub (501c3), a Collaborative will complete a "Research and Design" Phase to deliver simulated templates, confirm uptake by the real estate market, spark a new capital stack and investor pool, and establish a new FPA standard. These "products" will become the residual IP for the spin-out of the FPA; "products" will be licensed to the open market for use across the built environment. The FPA Collaborative will remain intact as ongoing "braintrust" to updating products and new deliverables. Further, the use of the Resilience Venture Lab to assess and recommend additional technologies and integrated solutions will continue under the Hub as a resource to FPA, ROAR and the Funds

ROAR Partnership is an "Innovation and Investment Advisory" firm to advance - on a non-exclusive basis - the implementation of Future Proofing America solutions including the application of templates for near-term real estate development as well as to create a demand for the capital stack investment instruments. ROAR will support and align with the GPs of the Resilience Endeavor Fund as well as other sources of investment into FPA-designated projects. A percentage of ROAR profits will return to the Resilience Innovation Hub and/or the FPA, while also being a licensor of FPA products. ROAR will participate in or "incubate" special purpose vehicles for project implementation.

The Resilience Endeavor Fund(s) - with a minimum of \$30-50 million of initial capitalization - will form Master Service Agreements/Convertible Notes in technology-equipment-data tool companies that serve the mission of Future Proofing America and the ROI for retrofits and new construction projects. The intention is to encourage the formation of a separately managed 501c3 (corporate philanthropy, foundations, donor advised funds) as an LP in the REF while also seeking other LPs among traditional (banking, resilience-focused corporate, mortgage) and non-traditional investors (insurance, reinsurance, impact, family office, etc.) A percentage of REF investment may provide grants and operating resources to the Hub and/or FPA per approval of GP, LPs.

Partners in Delivery, Implementation

Role and Function

Intended Impact on Strategy

Brand, Expertise, Insight, Funding

Credibility and convening power in diverse sectors and industries – including small business – to engage others in our strategy; aligns with internal corporate and philanthropic goals + external collaborators

Engineering, CAT Expertise, Financial Valuation of Risk Mitigation in Built Environment; Home-P&C-Consumer Risk Transformational Coverage

Research in myriad engineered solutions for the built environment coupled with insights on current AND emerging coverage options for new risk mitigation outcomes – leading to co-investment and premium incentives

Innovation Capital Formation, Catastrophe Risk Investments, Alignment with Alternative Capital

Materially reduce the cost to transfer catastrophe risk with lower costs of investment capital into Future Proofed- Resilience projects

Proprietary Real Estate Data Insights and Models, CAT Mitigation Expertise, Actuarial- Derived Discount Models,

Depth of models within and across portfolios of real estate development-management, actuarial analysts, mortgage and traditional banking, coupled with thought-leadership/advocacy to state-local elected and appointed officials

Nationally-Respected Technology, Materials, Equipment, and Data Tool Expertise Aligned to New Risk Models

Bridge between and among R&D Centers of Excellence, entrepreneurs, (re)insurers, the built environment, regulators as trusted partner in technical implementation

**Connecting Future Proofing America with
Community Disaster Resilience Zones**

An Immediate National Driver for Action

With significant bi-partisan Congressional support and the signing of the Community Disaster Resilience Zone (“CDRZ”) Act by President Biden, the White House and FEMA are required to identify census tracts that are persistently challenged by climate-related disasters, ongoing social vulnerabilities, and significant levels of low-to-moderate underserved populations. CDRZ is becoming a Whole of Government approach across HUD, SBA, Commerce, Energy, Transportation – all seeking a new level of public-private-philanthropic partnerships in implementing climate-resilience investment and program strategies.

The CDRZ Act of 2022 Requires FEMA to:

- 1. Maintain a natural hazard assessment program and update products based on public and input from other Federal agencies that show the risk of natural hazards through use of risk ratings
- 2. Designate at the census tract level ‘Community Disaster Resilience Zones’ based on relative Estimated Annual Losses due to natural hazard risk + Social Vulnerability + Community Resilience.

Public Law 117-255
117th Congress

An Act

To require the President to develop and maintain products that show the risk of natural hazards across the United States, and for other purposes.

Dec. 20, 2022
[S. 3875]

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE.

This Act may be cited as the “Community Disaster Resilience Zones Act of 2022”.

SEC. 2. FINDINGS.

Section 101(b) of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (42 U.S.C. 5121(b)) is amended—

(1) in paragraph (5), by striking “and” at the end;

(2) in paragraph (6), by adding “; and” at the end; and

(3) by adding at the end the following:

“(7) identifying and improving the climate and natural hazard resilience of vulnerable communities.”.

SEC. 3. NATURAL HAZARD RISK ASSESSMENT.

(a) IN GENERAL.—Title II of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (42 U.S.C. 5131 et seq.) is amended by adding at the end the following:

“SEC. 206. NATURAL HAZARD RISK ASSESSMENT.

“(a) DEFINITIONS.—In this section:

“(1) COMMUNITY DISASTER RESILIENCE ZONE.—The term ‘community disaster resilience zone’ means a census tract designated by the President under subsection (d)(1).

“(2) ELIGIBLE ENTITY.—The term ‘eligible entity’ means—

“(A) a State;

“(B) an Indian tribal government; or

“(C) a local government.

“(b) PRODUCTS.—The President shall continue to maintain a natural hazard assessment program that develops and maintains products that—

“(1) are available to the public; and

“(2) define natural hazard risk across the United States.

“(c) FEATURES.—The products maintained under subsection (b) shall, for lands within States and areas under the jurisdiction of Indian tribal governments—

“(1) show the risk of natural hazards; and

“(2) include ratings and data for—

“(A) loss exposure, including population equivalence, buildings, and agriculture;

“(B) social vulnerability;

Community Disaster Resilience Zones Act of 2022. President. 42 USC 5121 note.

42 USC 5136.

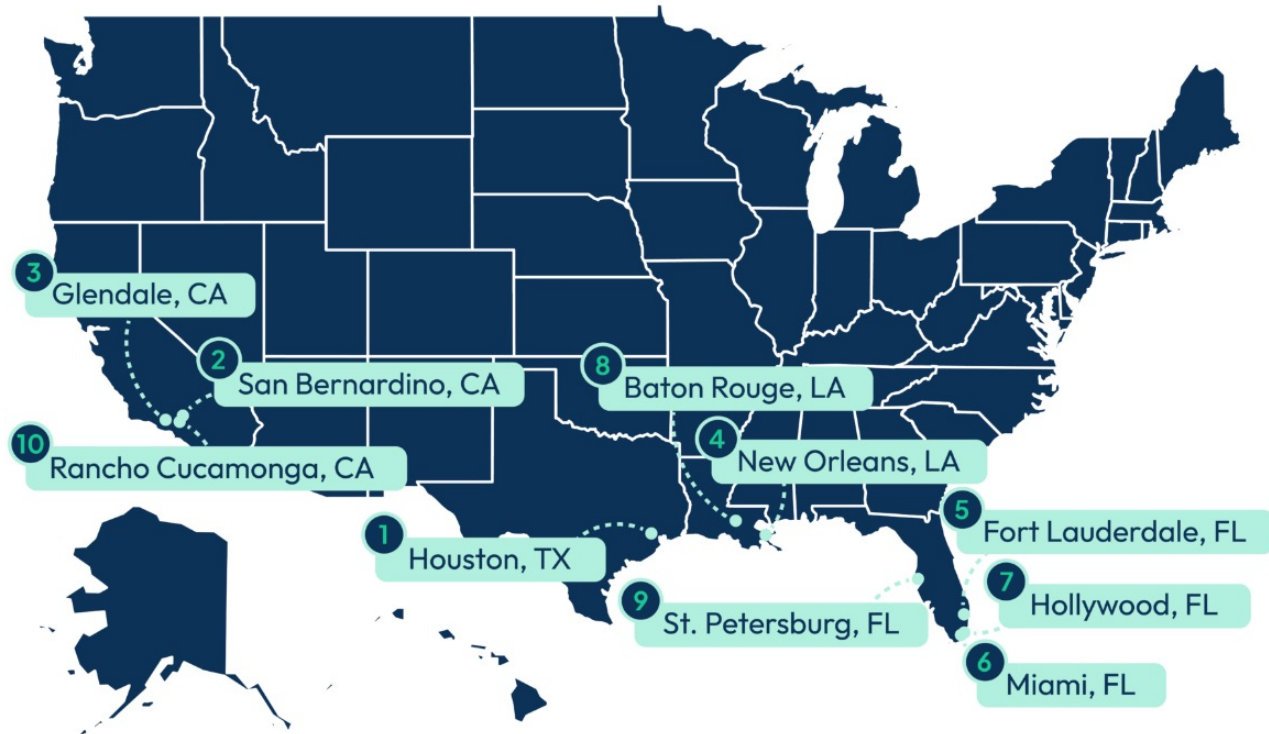
Hyper-Local Actions

Through hyper-localized consortia of employers, civic and community organizations, neighborhoods and homeowners, insurance-financial services, community colleges and universities – engage ‘Ready for Resilience’ Teams to implement our proposed scope of work.

Riskiest Cities for Homeownership

Riskiest Cities for Homeownership

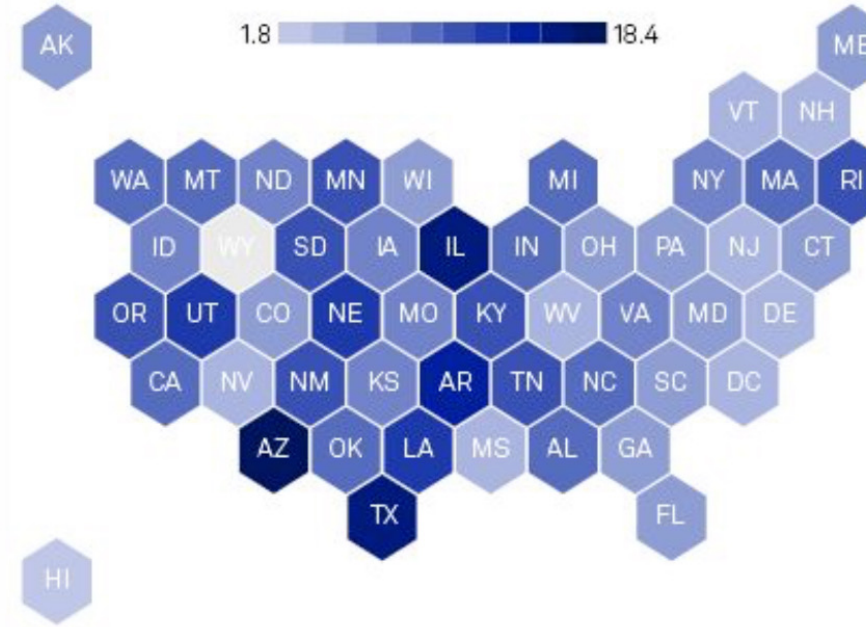
From natural disasters to property crime, these are the riskiest cities for homeownership, evaluated through insurance-related factors.



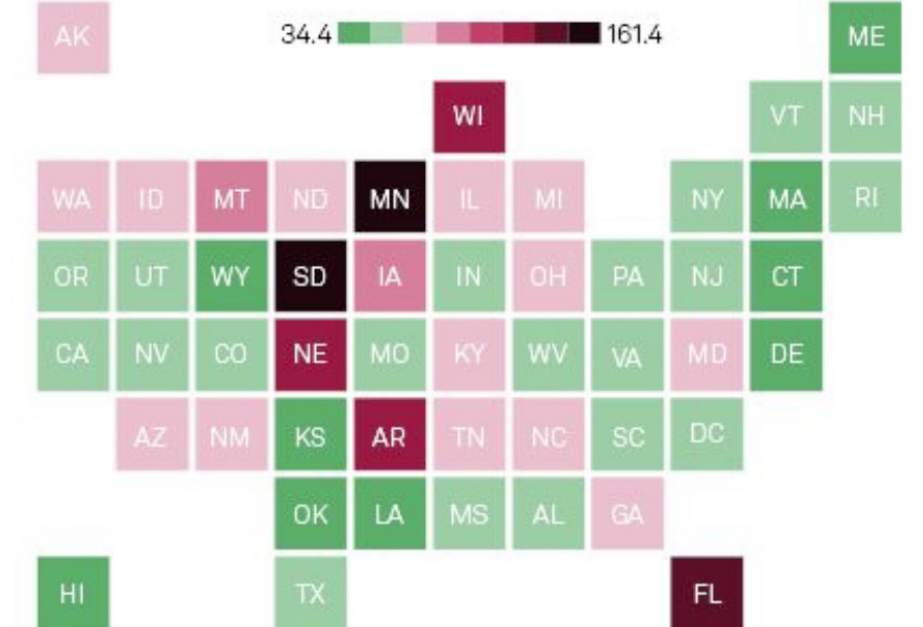
claimguide.org

Homeowners rate changes and loss ratios (%)

Effective rate change, YTD 2023



Homeowners direct incurred loss and DCCE ratio, 2022



Data compiled Sept. 8, 2023.

Year to date as of Sept. 1, 2023.

DCCE = defense cost and containment expense.

Includes Owner Occupied Homeowners filings disposed or approved by regulators between Jan. 1, 2023, and Sept. 1, 2023, for each of the state's 10 largest private auto underwriters based on 2022 direct premiums written, plus any of the country's 10 largest private auto underwriters outside the state's top 10. Excludes mobile homes, renters and condo coverage.

Effective rate change is calculated as the average of the year-to-date approved rate percentage changes, weighted by the affected written premium of each filing and divided by the total 2022 direct premiums written by state reported within the National Association of Insurance Commissioners property and casualty regulatory statements.

Rate filing information is sourced from System for Electronic Rate and Form Filing documents, while loss ratio is from the Exhibit of Premiums and Losses of the National Association of Insurance Commissioners property and casualty regulatory statements.

Source: S&P Global Market Intelligence.

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What Will Our Pilot Projects Do?

Thousands of homes, neighborhoods, communities – once future proofed at the residential level and expanded to commercial and industrial developments – will generate a 1:6 or better cost-benefit for public and private sector (re)insurance, banking-financing, taxpayer resources, and economic competitiveness.

Future Proofing America's Homes, Housing, Neighborhoods



Integrating fortified built environment with food and nutrition, health and wellbeing, communications access, alternative energy, and smart transportation –must become part of the measured performance for future proofing community outcomes.

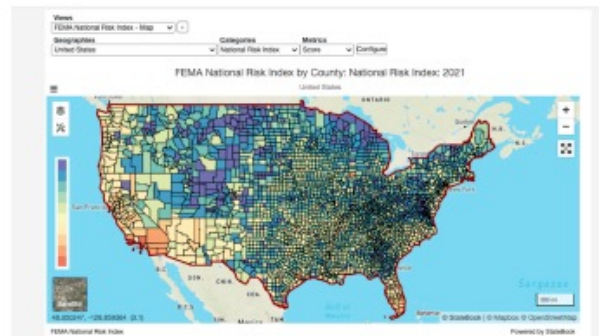
Fact-Based, Actionable Intelligence-Driven

RESILIENCE INSIGHTS

INFORMING CITIZENS, COMMUNITIES, COMPANIES
ENGAGING GOVERNMENT, FINANCE, INSURANCE, REAL ESTATE, AND
PHILANTHROPIC RESOURCES



With the passage of the Community Disaster Resilience Zone Act - identifying Most At Risk ("disaster vulnerability") and Most In Need ("social vulnerability") census tracks across the U.S. - we have curated 1000s of unique data points in support of the application, design, development, and delivery of long-term mitigation and investment to address multiple stakeholders and challenges.



**INTEGRATING ECONOMIC, SOCIAL, CLIMATE,
IMPACT INVESTING, AND RISK INDICES**
Federal, Public, and Private-Third Party Data Sources

A JOINT VENTURE OF
StateBOOK Insights



RESILIENCE INNOVATION HUB
Ideas | Opportunities | Capital



**COMPREHENSIVE DATA
SOLUTION**

A first-in-the Nation insight platform connecting dynamic data sets with continuous capability to add new information as available and on the fly.



**ALIGNED HISTORICAL,
CURRENT, FUTURE
ASSESSMENT**

A thorough source of assessment capabilities for understanding persistent disaster impacts on loss of life, well-being, assets, operations



**VISUALIZATION OF
COMPLEX INFORMATION**

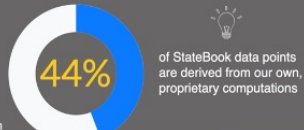
Delivering charts, graphs, and mapping visualization generates multiple ways to present outputs, reports, progress metrics



32 BILLION

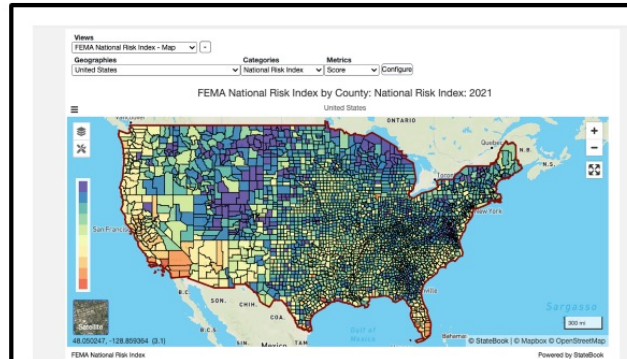
comprehensive data points for strategic decision-making

18 Billion data points from multiple data sources
14 Billion data points from StateBook's analysis or derivation

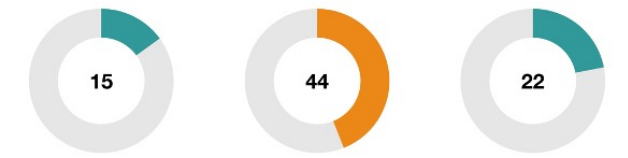
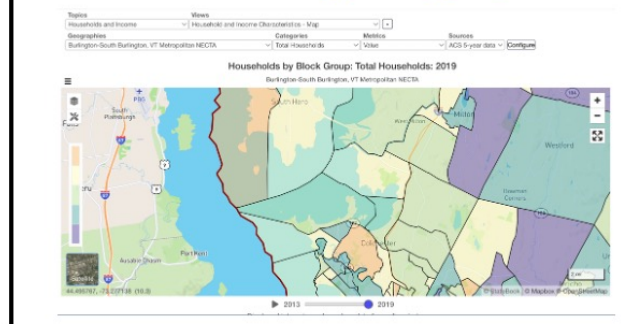


**In-depth Socio-Economic
Analysis by Geography**

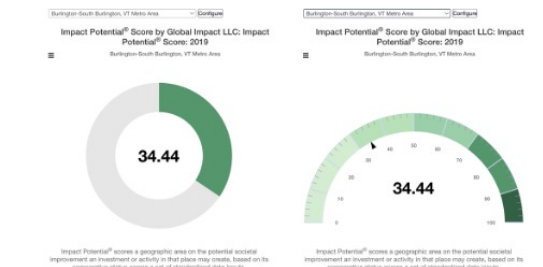
Existing Data Providers:



**Disaster and Social
Vulnerability "Mapping"**



**Scenario Impacts Across Perils,
Societal Challenges,
"Interventions"**



WHAT'S INCLUDED:

A step-by-step framework to assess and improve:

- Foundational Resilience
- Natural Disaster Resilience
- Pandemic Resilience
- Resilience Against Acts of Terror
- Cyber Resilience
- Societal Resilience
- Small Business Resilience
- More...



The Economic Resilience Scorecard:

- Provides businesses, investment and site location executives, as well as other job-creating investors, with an objective assessment of a community's disaster risk and resilience.
- Enables communities to demonstrate the measures they've put in place to betterprepare for, withstand and recover from adverse incidents.

Proposed Pilot: Jumpstarting Proof-of-Concept II

Community Disaster Resilience Zone Projects

Examples of Integrating the Built Environment with People-Centric Outcomes for Most-in-Need and Most-At-Risk Places

Resilience Community Navigators

'Upskill' Beyond Short-term Case Management to All-Encompassing Pre-Disaster Preparedness Across Community-Based Housing, Health-Well Being, Food-Nutrition, Transportation, Workforce and Other Social Vulnerabilities



Locally-Based Initiatives Across Pilot Census Clusters



Resilience Apprenticeships

Youth and Student Employment Opportunities in Residential, Neighborhood Retrofits for Immediate Adaptation, Fortification from Future Disasters



Resilience Manufacturing Hubs

Advanced Manufacturing, Maker-Spaces for Addressing Local Supply Chain Gaps and New Future Proofed Residential, Commercial Demands for A New Standard for Modular, Material, Equipment, Technology

PROJECT OBJECTIVES

OBJECTIVE 01
Accelerate Measurable Reductions in Disaster AND Social Vulnerabilities' Impact on Citizens, Communities, Economies

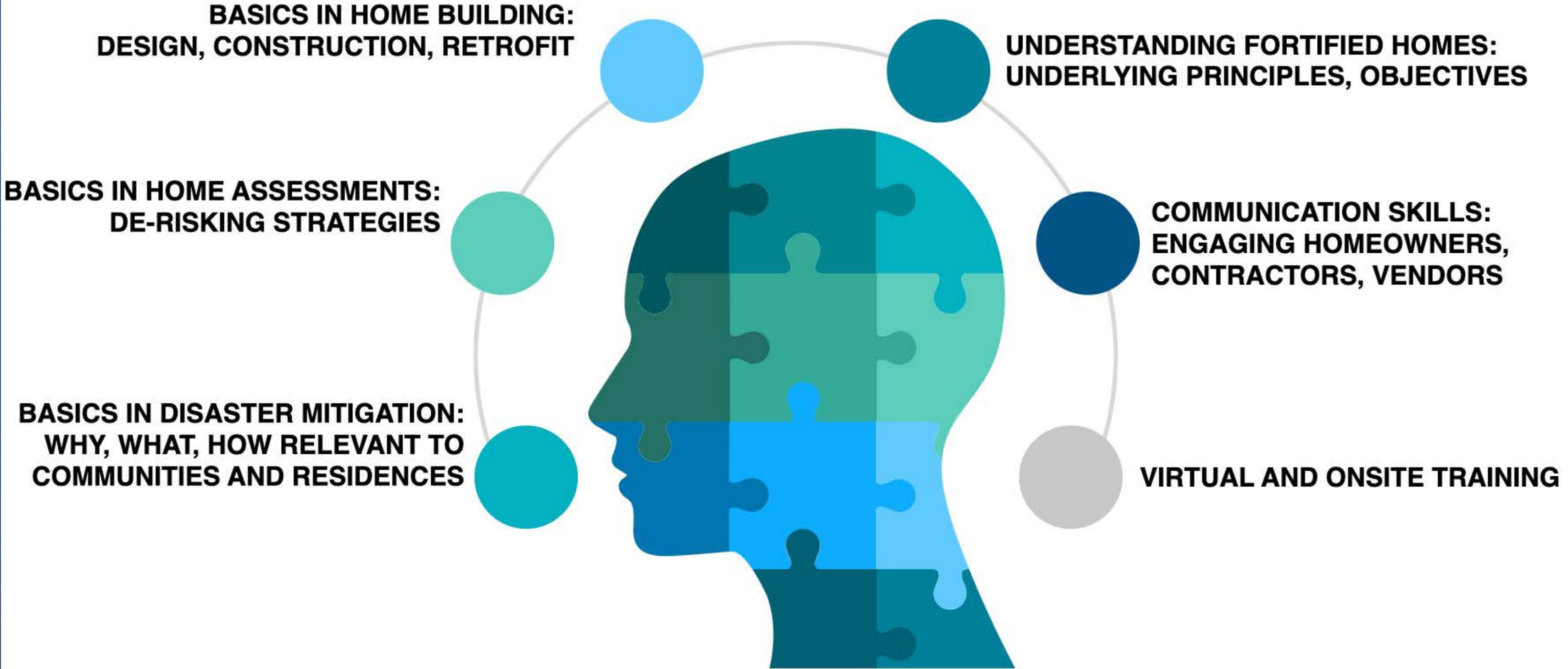
OBJECTIVE 02
Strengthen Thriving versus Surviving People-Focused Risk Mitigation, Especially in Underserved Communities

OBJECTIVE 03
Emphasized Fortified Residential and Neighborhood Future Proofing to Demonstrably Effect Losses of Life, Personal Finances, Business and Community Continuity

Proposed Pilot: Jumpstarting Proof-of-Concept II

RESILIENCE APPRENTICESHIPS

CLASS ROOM CURRICULA | ONE-TO-ONE MENTORING | ONSITE TRAINING | EMPLOYMENT PREP



Proposed Pilot: Jumpstarting Proof-of-Concept II

RESILIENT COMMUNITY NAVIGATORS

A New Upskilled Certification for Cross Cutting Competencies, Expertise
Through A Hybrid In-Class and In-Field Curricula Delivery



INTEGRATING
Existing and Emerging Programs,
Resources into a Packaged
Solution, Workflow



COORDINATING
Within and Across Stove-Pipes of
Federal, State, Local Funds and
Eligibility Requirements, Rules



COLLABORATING
Among Hyper-Local Boots on the
Ground and Community-Based
Leadership



DELIVERING
A 1:6 + Cost-Benefit
Performance and
Transformation

- **Disaster AND Social Vulnerability Reduction**
Leveraging Community Disaster Resilience Zones and other Federal programs, RCNs serve to bridge 'From Surviving to Thriving Neighborhoods and Citizens'
- **Wrap-Around Services, Resources**
Based on existing roles, duties, and competencies, RCNs know how to connect critical dots of services, resources in more efficient and effective strategies
- **Multiple Stakeholders and Institutions**
Where communities are advanced - identify gaps and fill accordingly; where communities are newbies - accelerate engagement beyond traditional disaster case management
- **Measurable Impact and Performance**
A strong spirit of "Get Stuff Done" - a mindset for immediate and sustainable results - no more studies and assessments. 'Score carded' and reported progress!

Proposed Pilot: Jumpstarting Proof-of-Concept II

RESILIENT RETROFIT/NEW CONSTRUCTION

Based on the output from our Built Environment Team in CDRZ and the Future Proofing America Collaborative - recommendations for resilience housing, facilities, infrastructure

ENGINEERED INTO THE BUILT ENVIRONMENT

Ensuring the viability of new technologies, equipment, data tools (sensors, meters, monitoring) are smoothly engineered into and emerging built environment settings

RAPID PROTOTYPING

Through alliances with Maker Spaces, 3D Printing, and Advanced Materials Specialists - conduct rapid prototyping of integrated solutions

MODULAR & OFFSITE CONSTRUCTION

Leverage the emergence of modularity - pre-built offsite constructed housing and small facilities - for new developments and temporary shelter, operations

TRAINING AND CERTIFICATION

In coordination with High Schools, Community and Technical Colleges - conduct real-time training and certification (e.g., Resilience Apprenticeships, Climate Citizens Corps, etc.)

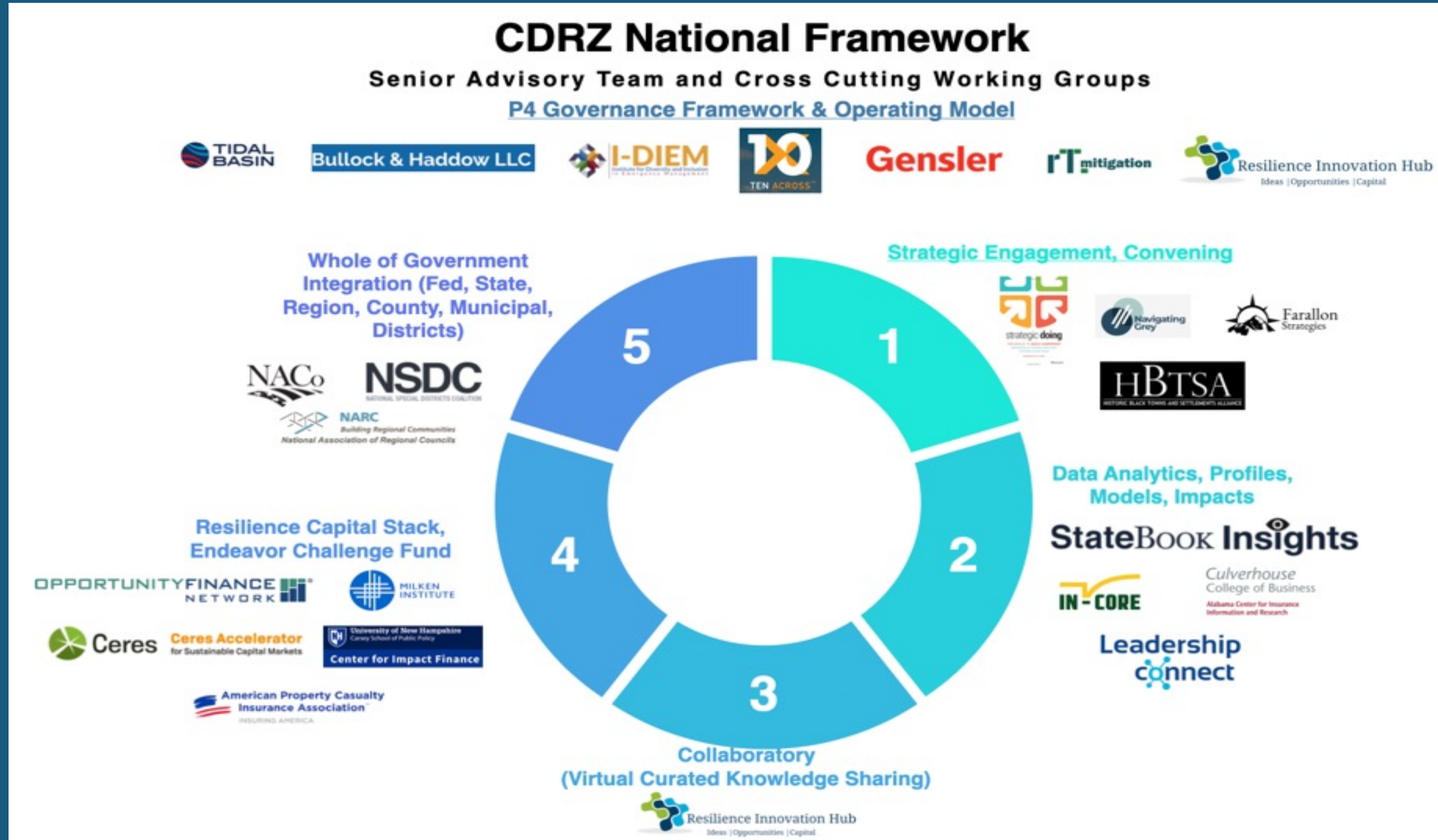
CONTRACTOR/SUBS ADAPTATION & ADOPTION

Host monthly workshops and align above elements with hyper-local (with Census Clusters) and regional employers, contractors and sub-contractors, trades and union representatives.



CDRZ Consortia

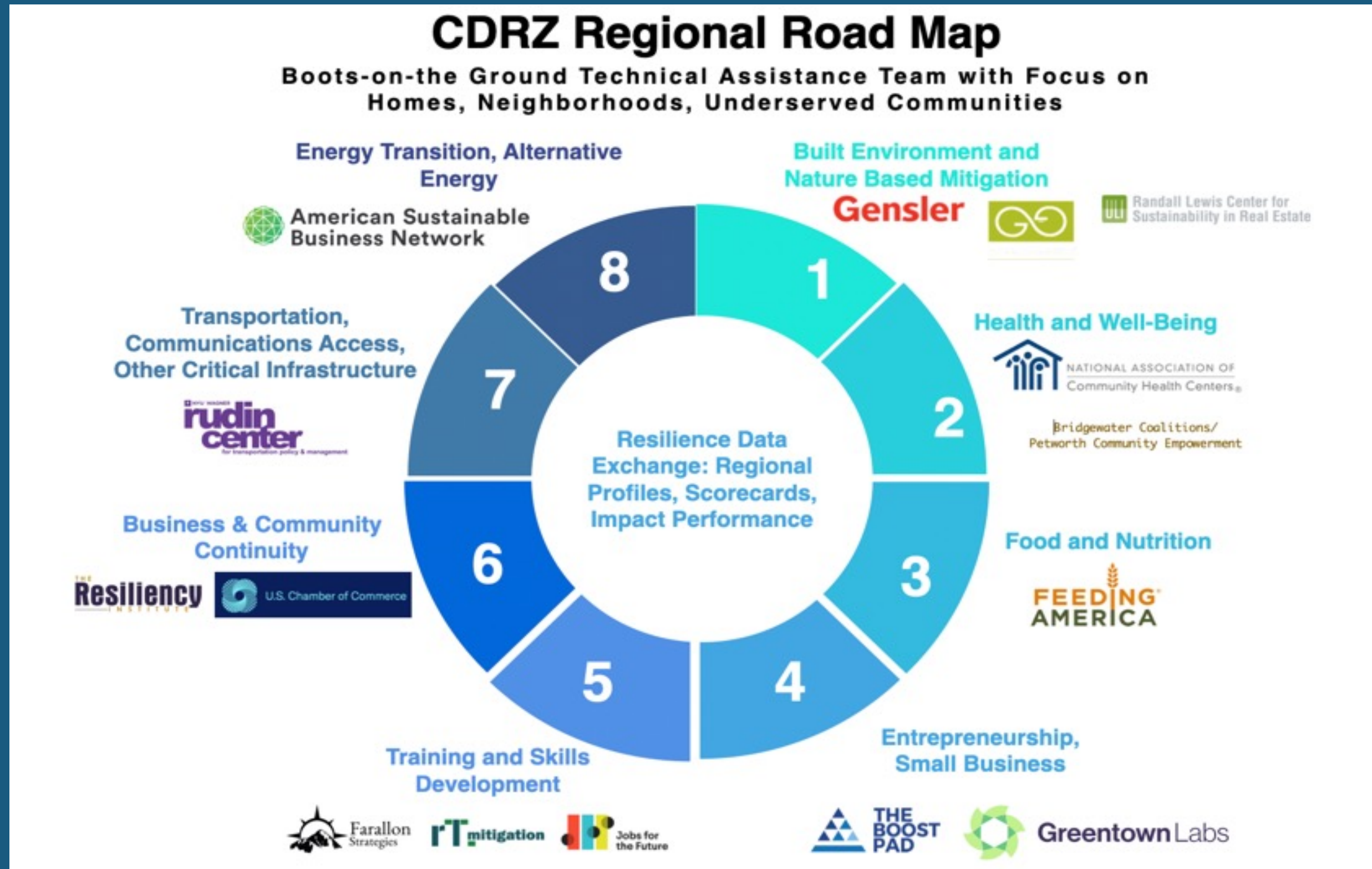
The Resilience Innovation Hub has formed a *CDRZ Census Cluster National and Local Technical Assistance Coalition* comprised of leading organizations, institutions, firms, and individuals with the long-standing expertise in addressing disaster and social vulnerabilities, persistent risks and costs.



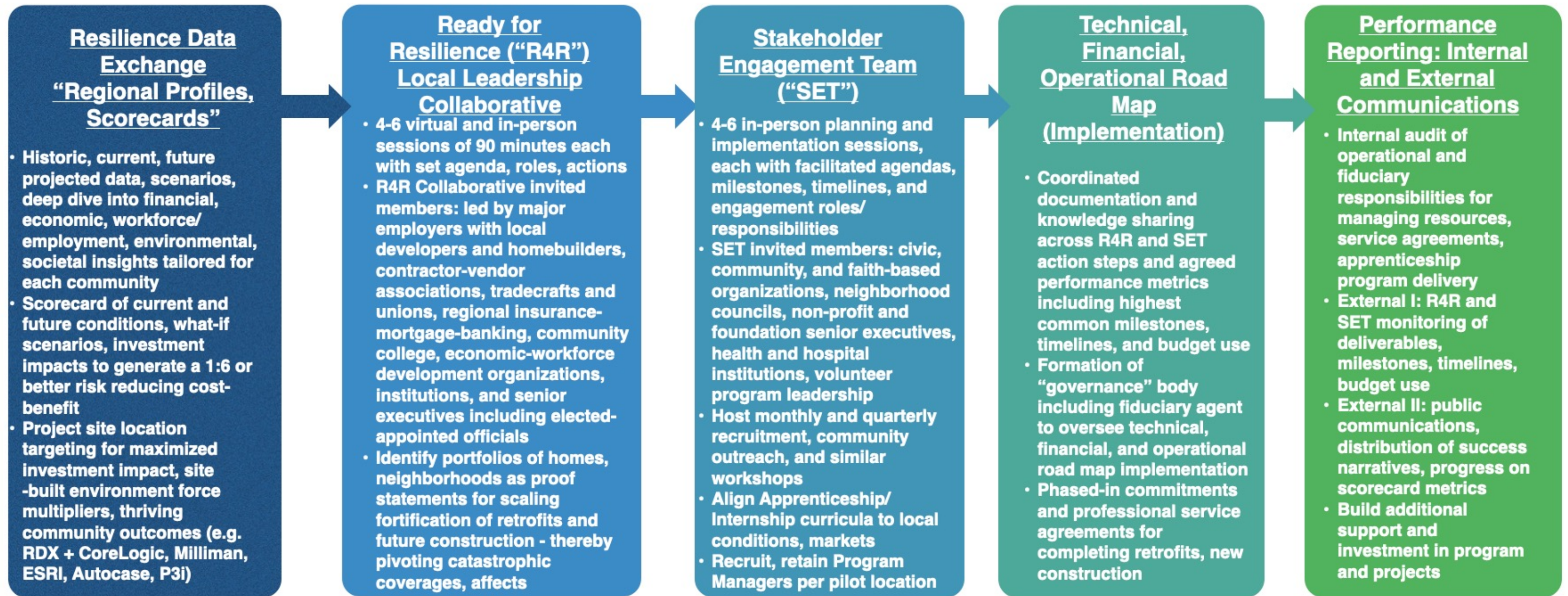
Our unique coalition integrates 'action-driven brainpower' with immediate credibility to work for hyper-local stakeholders seeking to implement thriving-focused skills, expertise, resources, and funding to resolve persistent social vulnerabilities.

CDRZ Consortia

Fortifying Homes, Housing, Neighborhoods: our CDRZ Regional and Boots-on-the Ground Technical Assistance Team provides extensive and practical knowledge across the entire spectrum of social vulnerability solutions and immediate capacity to support implementation with community stakeholders. Beyond the 'Sticks and Bricks' – we seek to accelerate fortifying communities!



“READY FOR RESILIENCE” IMPLEMENTATION PLAN FOR FUTURE PROOFING HOMES, NEIGHBORHOODS



Activating and Integrating Fortifying Homes with Youth, Students as Force Multipliers

Resilience Apprenticeships and Internships with RT Mitigation as Lead
(including curricula adaptation, adoption through class and in-field experiential learning, mentoring, employment counseling)

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