



The Nationwide Resilience Project™ and Project Impact 2 *Proudly Presents*

Revitalization and Resilient Building Improvement Program

A new kind of 'Smart' City

The historic devastation seen in 2017 will be forever in our minds and hearts as we watch communities and individuals struggle to rebuild in multiple places at once. The hardest hit areas are faced with historical destruction, which makes a full recovery lengthy and challenging, but **not impossible**. The FEMA *Public Assistance Alternative Procedures Pilot Program Guide for Permanent Work* sets a precedent to support single, holistic, recovery projects. For more information, please see Program Guide Breakdown at www.thenationwideresilienceproject.com.

We conceived a self-sustaining, holistic solution to specifically address the needs of communities all across the United States, and worldwide. We propose to rebuild disaster struck communities with resilient, renewable, self-sustaining structures that will engineer disaster-resilient infrastructure, and create jobs for hundreds of people.

Mitigation and Resilience Strategies (MRS), LLC (www.mitigationandresiliencestrategies.com), an Oklahoma Limited Liability Corporation, a leader in Proprietary Disaster-focused R&D, Holistic/Self-sustaining/Renewable Building and Design, Emergency Management, Resilience-focused Design and Planning, Risk Management, and Grant Management/Administration, and Witt Global Partners (Project Impact 2), an Arkansas-based corporation specializing in comprehensive bipartisan lobbying, strategic business consulting, and disaster advisory services with 200 years' experience in public service and government relations.

MRS LLC brings Dealer/Distributor relationships industry leaders with specific expertise to make this project work holistically. Some of these industry-leading companies are Globalstar, Gr8Water, ICF Construction and More, LLC, Quad-Lock, EcoJohn, PortaFloor, US Flood Control, and more.

Project Design and Function

To provide the safest, energy-efficient, self-sustaining, and resilient design possible, we've incorporated a proprietary product invented by Belinda A. Bentley, Ph.D. and A. Lewis Howard, and designed to address the destruction and devastation caused by hurricanes.

The revitalization and resilience project includes but is not limited to:

- ◆ New renewable energy structures (residential, commercial, industrial, and governmental)
- ◆ Renewable retrofitting to any existing structures
- ◆ Commercial Building Automation Systems
- ◆ New underground/aboveground power infrastructure
- ◆ Clean water infrastructure
- ◆ Water infrastructure fitted with in-ground generators



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- ◆ Energy Storage System(ESS) Plant
- ◆ GeoThermal energy solutions
- ◆ Alternative power sources such as wind farms, water turbines, and solar collectors
- ◆ Levee system that delivers the most advanced mitigation in hurricane and flood prevention available anywhere in the world.

Our Livable Levee System™ will ensure communities will not feel the effects of another devastating hurricane, as well as providing maximum height advantage, livable square footage, and renewable energy sources. This structure can be designed to accommodate multiple functionalities.

Sustainable Engineering: Constructing The Livable Levee System™

The intended purpose of The Livable Levee System™ is to create a union of functionality and resiliency, utilizing a combination of green engineering technologies, existing materials and products that exceed energy-efficient standards, and self-sustaining design principles. These principles present a platform to address green engineering technologies that increase economic growth and decrease reinvestment over the entire life cycle while improving quality by redeveloping a new 'status quo' within the industry. The multi-faceted design of the system will mitigate against natural and man-made hazards, provide commercial space and residential housing, as well as incorporate building standards that turn the entire structure into a "safe room." This system was designed to meet or exceed energy-efficient standards and integrates existing materials and products already approved for use nationally and internationally to create a holistic, renewable energy system that will deliver significant ROI within a Public-Private Partnership (P3).

After an extensive investigation by our resident Doctor and Research Analyst, Belinda "Bella" Bentley, the facts are clear. In her own words, "The most crucial component in the design of our system are the products provided by our carefully chosen Product Partners. Due to the climate in different regions of the US, if an attempt is made to re-design this system with other products, failure at some point is imminent as atmospheric conditions, soil erosion, etc. affect products used to build any structure" (personal communication, May 5, 2017).

Dr. Bentley continues by saying, "Design parameters in residential, commercial and industrial construction, as well as our nations critical infrastructure, is failing. It is critical to our nation's safety and security to provide holistic, resilient, self-sustaining solutions to new construction, as well as retrofitting existing structures" (personal communication, May 5, 2017).



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For complete drawings and design parameters, please contact Dr. Bentley:
belinda.bentley@mitigationandresiliencestrategies.com.

These are just examples of holistic redevelopment concepts that can be integrated to expedite recovery of communities throughout the nation. Continuing to apply a patchwork fix to dysfunctional and antiquated infrastructure, only makes it more difficult to repair when extreme weather damage is growing more significant year after year.

The Development Process

Our process starts with concept development and feasibility, followed by research to determine concept applicability, cost, risk, and viability on a broad scale. Once we have a marketable concept, we begin project development and feasibility, followed by numerous processes that include but are not limited to; weather- and disaster-related modeling, Cost-Benefit Analysis (CBA) Research, Estimating, Grant and Funding program opportunities, Risk Assessments, product sourcing, and much more. Because of our vast disciplines and broad knowledge base, we look at the development process holistically based on the original idea as each project will be as unique as the idea, the developer, and the team.

Government Cost Savings

One of the most significant benefits of this program is the savings to FEMA and the federal government. This program approach to state and local governments disaster recovery events will alleviate much of the required administration burden from FEMA, especially from the TAC aspect. The scoping and costing that occurs at the CRC level will be very limited as the applicants, through our assistance, will provide most of the documentation. Another simplification is the standard practice for FEMA project close-outs becomes virtually non-existent. All of the PAAP projects are handled like small projects, so the scope and actual cost alignments are unnecessary. These facts alone will cut the FEMA grant administration efforts and associated cost by at least half, if not more.

Furthermore, by establishing a plan to mitigate the damaged structures against future disasters of this magnitude or greater, we will save FEMA billions of future dollars. These innovative efforts to incorporate resilient reconstruction of facilities with hardened infrastructure becomes the forefront of efficiency and sustainability news. Working together with FEMA to establish standard reporting criteria and a steady, accurate, flow of data and information on specifics of the program allows us to not only receive permission for the projects, but it also builds a partnership with the federal government in this endeavor.



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Conclusion

The Nationwide Resilience Project and Project Impact 2 were founded for this very purpose; to bring hope to those devastated by disaster by providing solutions that will last for generations. What makes us different is our ability to think 'outside-the-box' while maintaining the core values of who we are as individuals and as a team. We believe in hard work, team collaboration, open-door communication, and a Principle-Centered Leadership style that incorporates our convictions; honesty, loyalty, integrity, and ethically-based business principles. We understand the value of commitment, and we take great pride in knowing the true meaning of giving and keeping our word.

The goal of this holistic project is to construct profitable, resilient, self-sustaining communities that can withstand the devastating effects of natural and man-made disasters while being regarded as some of the safest places to live and visit in the world.

We hope you will share in our dream to leave a legacy for future generations where safety, security, and resilience becomes the new kind of 'Smart' City; an example for the world to emulate.