



# **Cambio Climático y Planificación del Territorio: Casos de Estudio de Adaptación en Políticas Urbanas y Sector Privado**

25 Febrero 2015

8:00 - 17:30

*Hotel Rosales Plaza*

*Bogotá, Colombia*

# Climate Change in Colombia: Urban Planning, Development, and Adaptation

Presentation by Eric Kaufman  
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Resilience Fund, Inc.

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Bogota, Columbia





# **BUILT ENVIRONMENT**

**NEXT GENERATION SUSTAINABILITY & RESILIENCY**

**&**





# Case Study

## THE NEW YORK WHEEL

- co-founder of The New York Wheel (2008-present)
- Wheel's location in 100 year flood zones (coastal and non-coastal)
- climate adaptation solutions addressing Category 3 Hurricane Level of Winds (i.e., gusts of 129 mph)



# Location of New York Wheel









## Two Fields

**Sustainability (Mitigation) and Resiliency  
(Adaptation)**

## Two Organizations

**Built Environment, Inc. (BE)**

**The Natural Resilience Fund, Inc. (NRF)**

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## One Approach

**S+R**

## One Goal

**Preserving, Protecting & Enhancing Properties &  
Infrastructure to be Green, Sustainable & Resilient**

# Two Related Missions Promoting **S+R** Field

## Built Environment, Inc. (BE)

*A built environment is a human-made space in which people live, work and recreate. It encompasses places and spaces created or modified by people including buildings, energy networks and transportation systems.*

*Adapted from Wikipedia*

BE's mission is a practical one. **Protecting people and properties at risk from climate events** through planning, development and execution of prudent resiliency and sustainability.

## The Natural Resilience Fund, Inc. (NRF)

NRF, a 501(c)(3) public charity, has a mission of generating financial resources through policy, advocacy and legislation by decision-makers and industry players allowing municipalities to undertake public works infrastructure projects and private owners to make their properties green, **sustainable & resilient.**



# Two Related Missions Promoting **S+R** Field

## The Natural Resilience Fund, Inc. (NRF)

The NRF works with decision-makers, legislators and industry to develop policies and take action to generate large-scale financing and incentives that make our communities green, **sustainable** and **resilient** by assisting

- municipalities to undertake public works **S+R** infrastructure projects and
- property owners to undertake **S+R** retrofits and new construction

The NRF consults with municipalities and other public entities to solve climate resilience issues in ways to through the confluence of sustainability and resilience



# WHY NOW?

- Our society has to prepare itself to protect people, properties and the communities we love from the effects of future climate events
- Our integrated approach needs every industry, private and public sector, every generation to find creative, community-building solutions
- Our actions today working with decision makers who see the imperative need for short and long term actions is the first step in protecting our Built Environment.
- Our focus is on integrated **S+R** solutions.
- Our emphasis is on practice, implementation and action . . .



# PEP Measures

## Preserve, Enhance & Preserve Measures

The Evolution of a New Industry



1. Integrated Planning
2. Efficient, Effective Water Management
3. Clean Sustainable Energy
4. High Efficiency HVAC Technology
5. Tight Building Envelopes
6. Harmony with Natural Elements
7. Protect Critical Utilities
8. Resilient, Sustainable Utility Connectivity
9. Sustainable Materials Policies
10. Safety Oriented Communications Systems



# Investing in Building Efficiency & Resilience is Good Business Sense

- Generally, the cost of equipment/installation can be recovered within a five year period (payback) of savings from utility costs +
- The ROI is 20% +
- Residual benefits: save lives, reduce property damage, lower insurance premiums, maintain critical services, +
- No additional investment for the life of improvement +
- Savings in utility costs may fund resilience measures otherwise not easily financed.

# NRF-BE Model can be Replicated

- All municipalities need a combination of Action + Advocacy.
- Built Environment = Action
- Natural Resilience Fund = Advocacy



# GET INVOLVED

## CONTACT

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