As the land shifts, quakes, and floods with increasing frequency, it is evident that current modes of adaptation and mitigation are increasingly short-lived. Given the reality of both geography and climate change, the Colloquium seeks to expand this framework to engage communities in the last decade of discussion and planning in relation to climate change responses across communities.

This Colloquium seeks to expand this framework to engage local leaders to discuss applications of time-limited approaches, as well as eventual reductions in both geography and investment. Understanding that 12/19/17 segment of NPR's "The World."
Current levels of CO2 in the atmosphere are 410 ppm, the last time earth had a concentration of 300 to 400 ppm of CO2 was the mid-Pliocene era, 3 million years ago, and sea levels were 50-80' higher.

Increasing impacts of storms: rainfall & storm surge

Antarctic/Greenland ice sheet melts

Sponge-in-a-dish: porous limestone with saltwater/freshwater dynamic

Freshwater aquifer subject to influx of wastewater (septic systems) saltwater (sea levels)

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2060: 14 - 36" Sea Level Rise
Sunny-day flooding much of the year*

OUTCOMES
Core Values:
Community Stability
Household Prosperity
Ecological Kinship

Methods
Participatory Processes
Network of action-oriented, people-focused advocates

Identify Vulnerable populations (social, economic geographic, hospitals, senior care)

Art and communication to convey risks and opportunities

Establish Migration Timeframe
(transparent analysis of multiple risk exposures, i.e. water, sewage, access, flood, health)

Receiving Communities--identify and plan collaboratively

Advanced mapping of water systems
(fresh water, wastewater processing, saltwater inundation; modeling impacts at 6" increments of sea level rise, % of monthly flooding)

Identify infrastructure to support population in transition

Enhance Disaster Readiness--individual and community resources, public and private infrastructure needed to adapt to manage response evacuation and transition

5. Preparing Communities to Receive Relocated Residents

Miami is an inflow and outflow community

Alignment of markets to incentivize retreat

insurance, mortgage, tax

How many total flood days are too many?

Uwe Brandes

4. The Tools to Facilitate Retreat

Mandatory disclosures

Investment timeline transparency

Role of public infrastructure/ability to abandon

Peter Byrne

3. The Needs of Affected Residents

Health impacts of climate change and healthcare continuity

Investment to relocate vs rebuild Economic stability, jobs, education, institutions

Jessica Grannis

2. Stakeholder Engagement & Communication Frameworks

Need to address climate change causes and reduce greenhouse gas emissions

Establish green infrastructure, clean energy

Engage art to communicate

Mark Girardo

1. Data Analysis & Comprehensive Planning Process

Model real-world water systems

Quantify costs/benefits of relocation

Identify vulnerability priorities; geographic, socio-economic

Scott Davis

87 PARTICIPANTS

Areas Represented

Workshop Tables

RENEW ALPHABETICAL ORDER BASED ON LAST NAME

SPEAKER POINTS

Rosetta S. Elkin

Landscapes are dynamic

Art can provide a means toward understanding dynamic processes

Sharon Harper

Projecting migration patterns based on current migration and flooding locations

Climate migration is happening already. Larger migrations are predicted; receiving communities need to plan.

Matt Hauer

Staten Island neighbors determining the future of their neighborhoods after Hurricane Sandy

Acknowledging the history of the land which is reasserting itself enables consideration of alternative futures

Liz Kozlov

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Slowing Gulf Stream