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Call For Code  
2022 Global  
Challenge



SISYPHUS Global Systems  
Sustainable Mitigation for Climate Justice

[www.sisyphus-gs.com](http://www.sisyphus-gs.com)



# PROBLEM

- +46% of world disasters are storm flood
  - +2 billion people lives in vulnerable lowland
  - +\$104 billion average world annual loss
  - +2,000 deaths from Hurricane Katrina
- Climate Change > Crisis > Catastrophe >

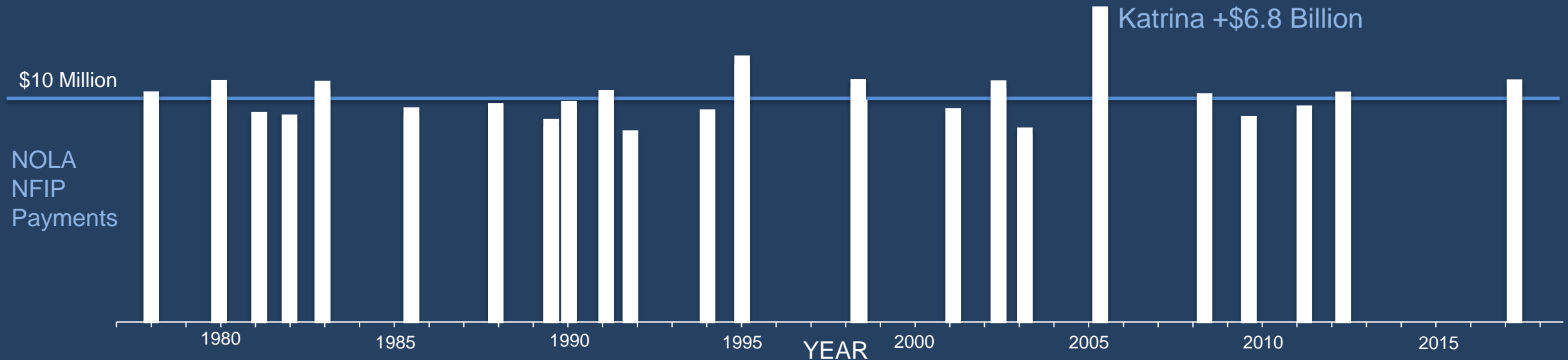


# NEW ORLEANS MARKET OPPORTUNITY



Metro New Orleans has the largest concentration of repetitive flooding

- +140k properties, +80k insurance policies, +\$10k average claim loss
- +1 million residents loss communication, power, & water from Ida
- +\$23 million per year NFIP insurance discount saving attainment



# SOLUTION

Equitable Access  
to Sustainability &  
Community Education

A customized climate disaster  
mitigation SaaS toolset that  
utilizes localized data to  
create resilient communities.



> Reality



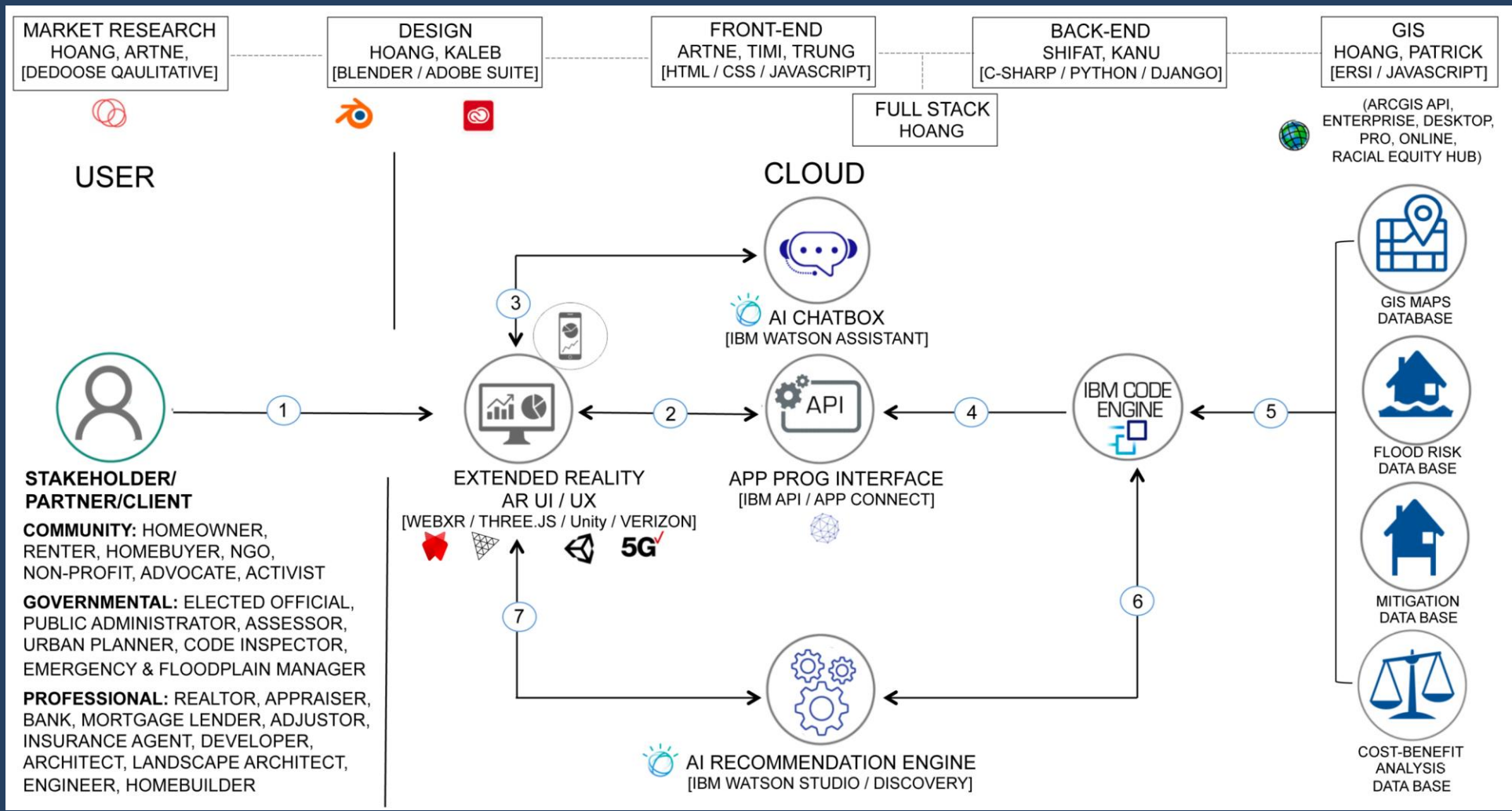
Extended  
Reality <

User Interface <





# CLIMATE TECH



## SaaS

Software as a Service

## 5G

Fifth-Generation Service

Ultra Wideband

## XR

Extended Reality

## AI

Artificial Intelligence

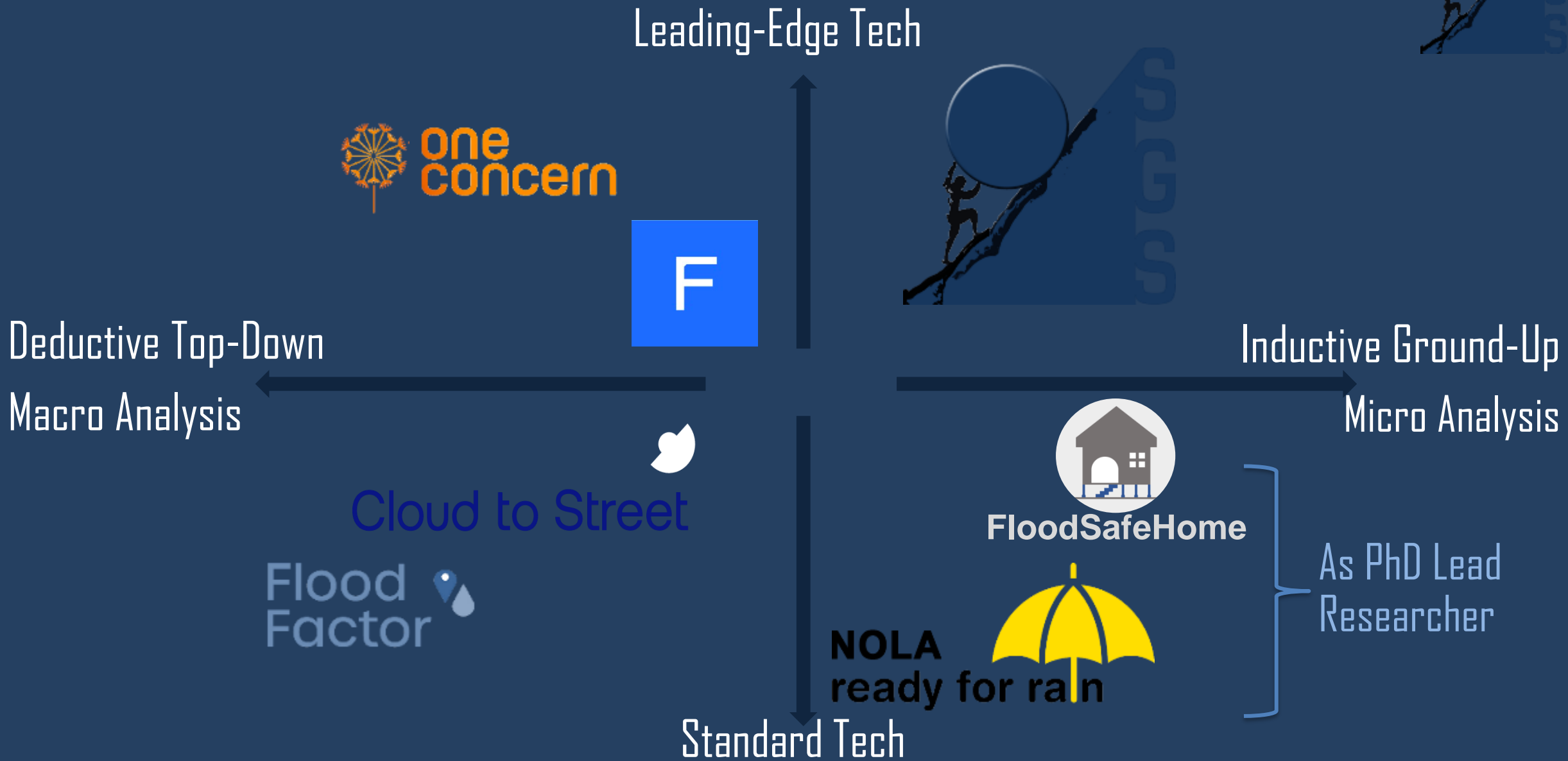
## BIM

Building Info Modeling

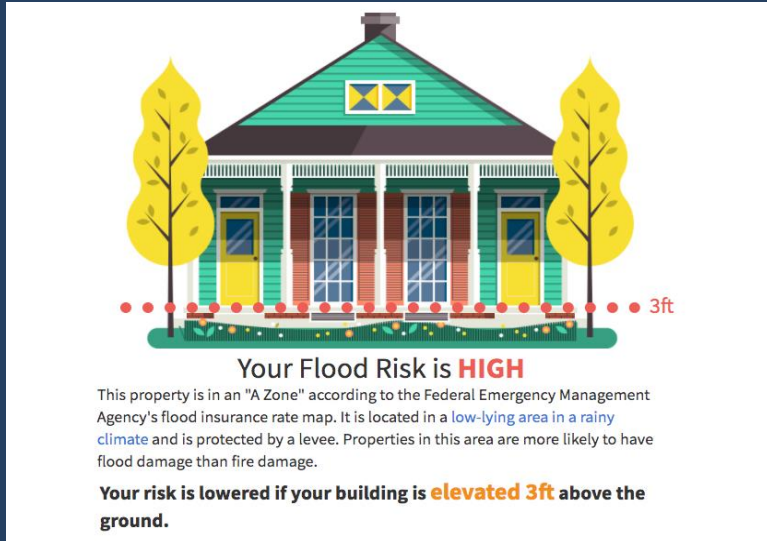
## GIS

Geographic Info System

# COMPETITION



# DESIGN THINKING TO MARKET FIT

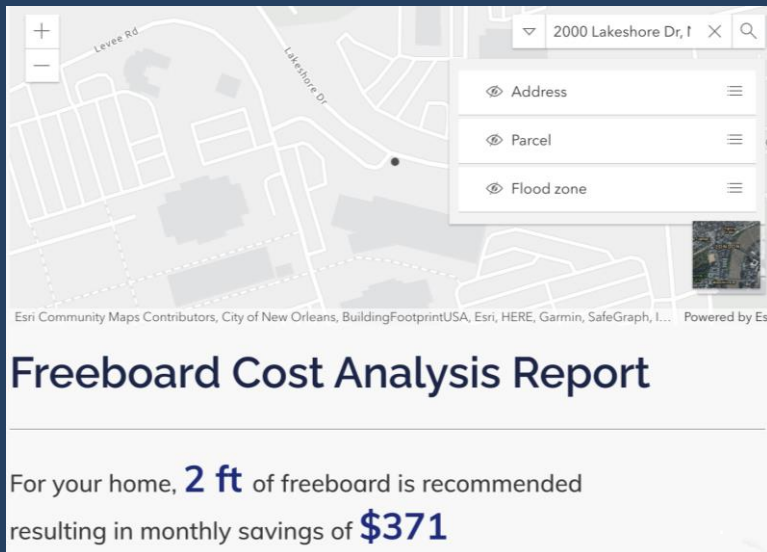


1<sup>st</sup> Deviation: Risk User Flow  
The City of New Orleans  
FEMA & HUD

NOLA  
ready for rain



CRS 140points  
+\$10.3 million  
per year saving



2<sup>nd</sup> Deviation: Mitigation User Journey  
20 Louisiana Coastal Parishes  
Sea Grant



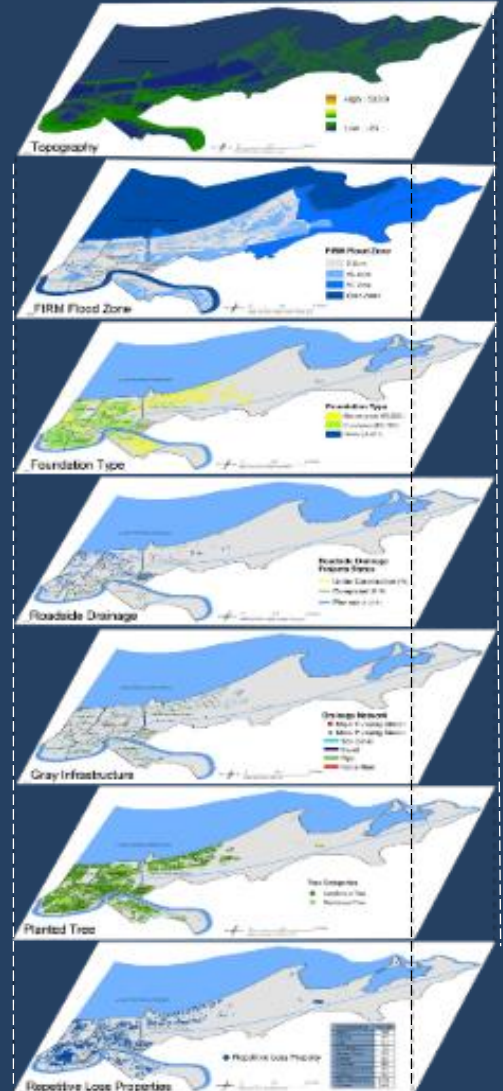
FloodSafeHome



Jefferson Adapted Freeboard  
+\$16.5 million  
per year saving

# COMMERCIAL ADVANTAGE PhD RESEARCH

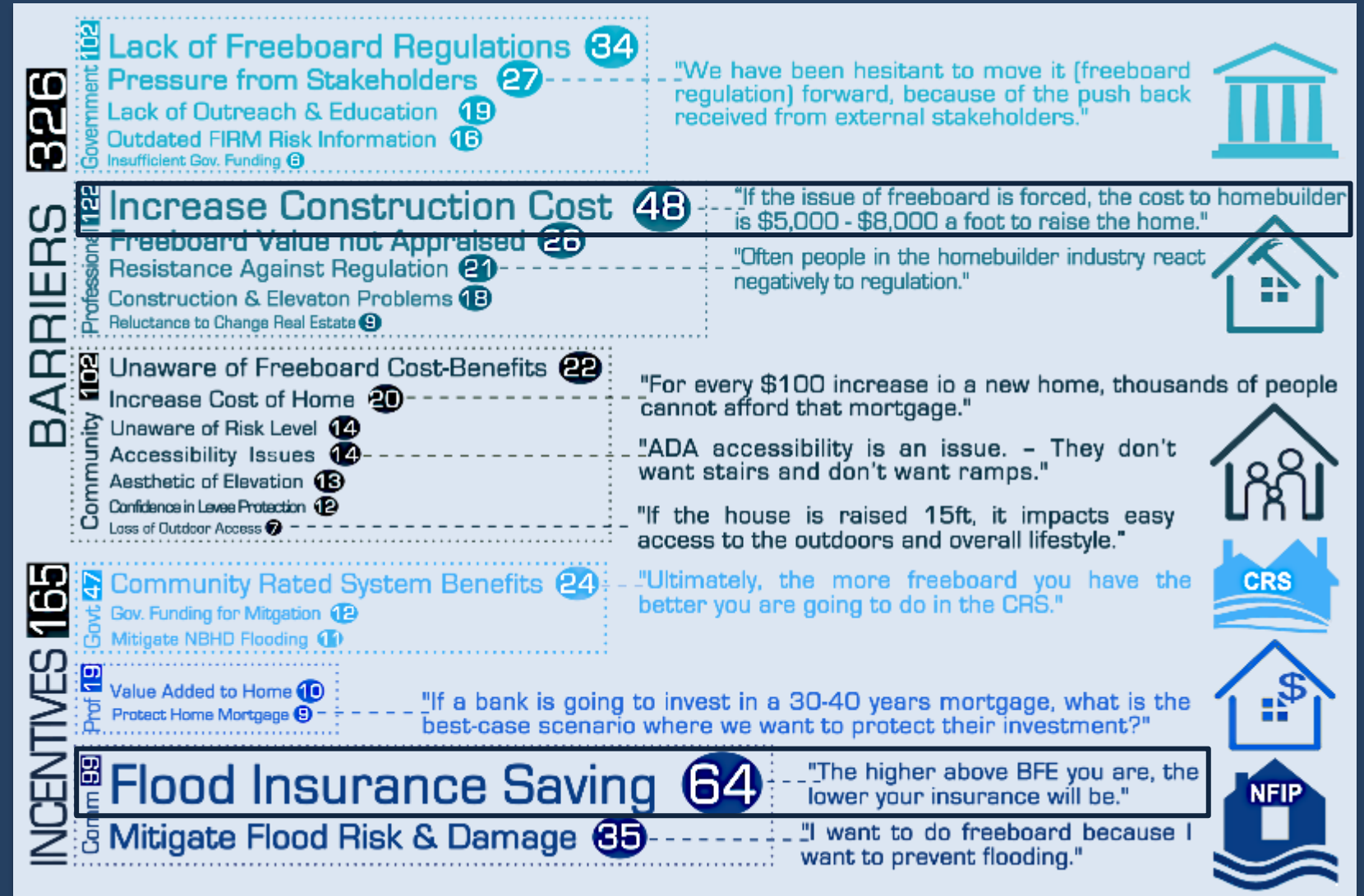
- \_ Geographically Weighted Regression
- \_ GIS Map Overlay
- \_ Multivariate Statistical Analysis
- \_ Multi-Stakeholders Governance Model
- \_ Extensive Granular Datasets
  - +40 Years Flooding Data
  - +140K Survey Properties
  - +600 Stakeholders Interviews
  - +150 GIS Maps/Variables/2000-2020 Census





# MARKET VALIDATION

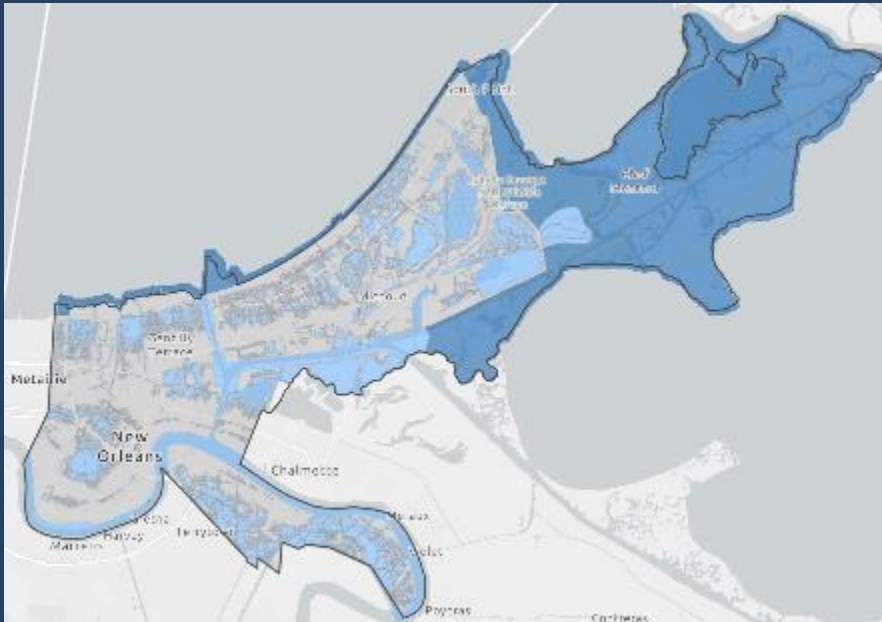
+4 Yrs PhD Research  
 +600 Stakeholders  
 +140 Surveys  
 +70 Interviews  
 +20 Focus Groups  
 +10 Community Meetings



# DIVERSE BUSINESS INCLUSION

- \_ Governmental client contract to build SaaS toolset
- \_ Professional for collaborative licensing partnership
- \_ Community residents free equitable utilization

Multi-  
Stakeholders  
Governance



**GOVERNMENTAL:** elected official, urban planner, public administrator, code inspector, assessor, emergency & floodplain manager

**PROFESSIONAL:** realtor, appraiser, bank, mortgage lender, adjustor, insurance agent, developer, architect, landscape architect, engineer & homebuilder

**COMMUNITY:** homeowner, renter, homebuyer, non-profit, advocate & activist



The City of New Orleans



Open Architecture



Water Collaborative

# ROADMAP



POC  
Startup  
Formation  
Clinton Foundation

POV  
Market  
Research  
Verizon

MVP  
User  
Flow  
VentureWell

Prototype  
User  
Journey  
MIT CEP

Pilot Lab  
Professional  
Partnership  
Columbia TV

Pilot Field  
Community  
Engagement  
IBM CFC

Alpha  
Market  
Fit  
NOLA

Beta  
Fund  
Raising  
NOLA

Launch  
Scaling

Summer

Fall

Winter

Spring

Summer

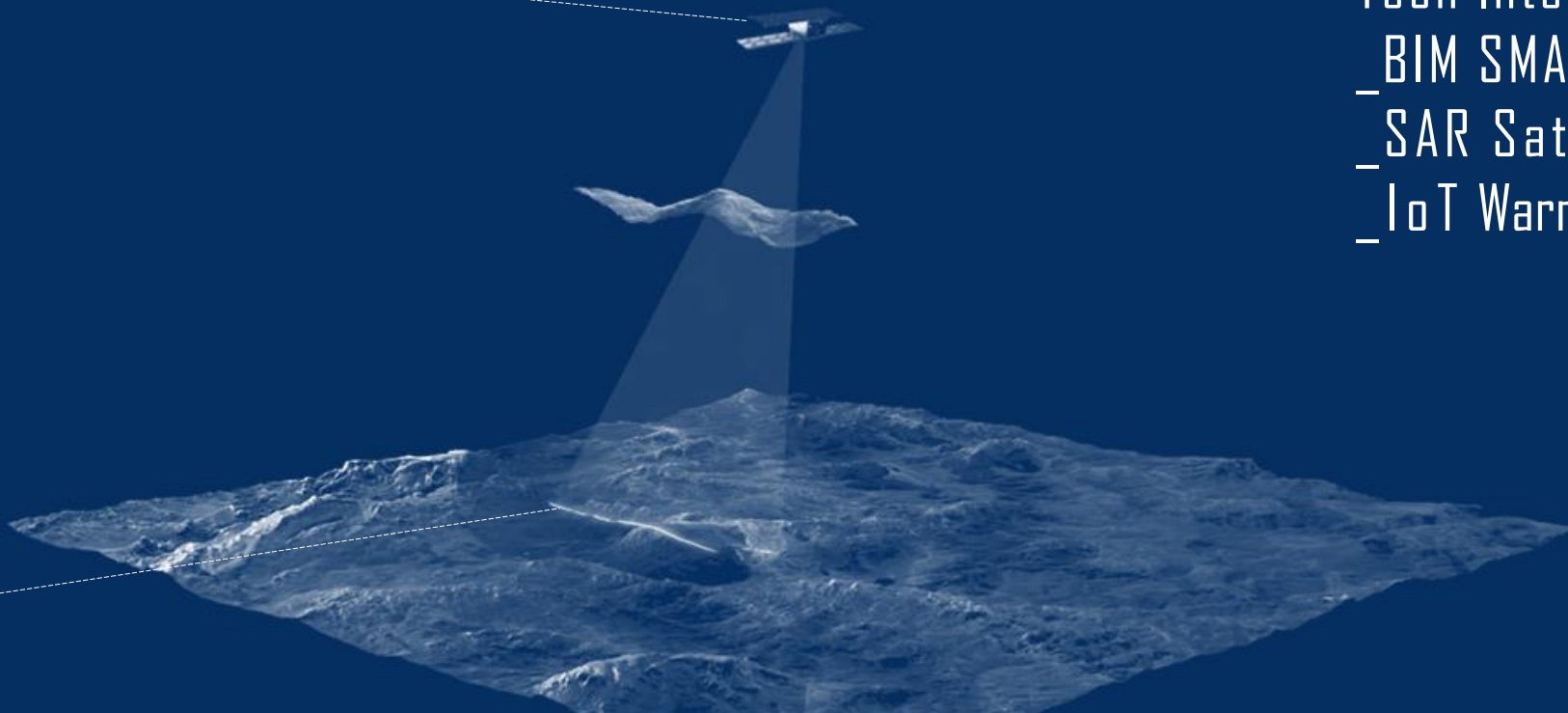
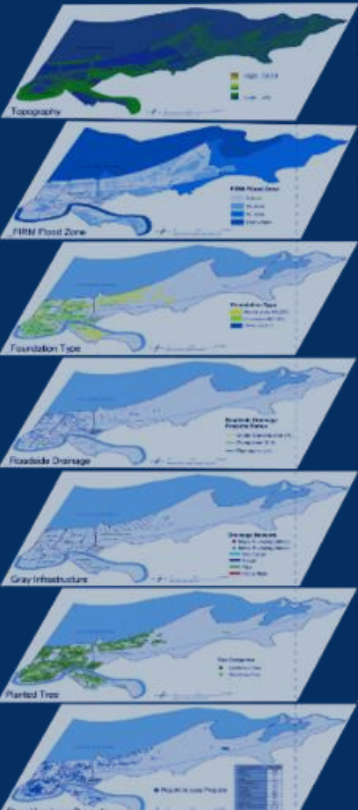
Fall

Winter

Spring

2022

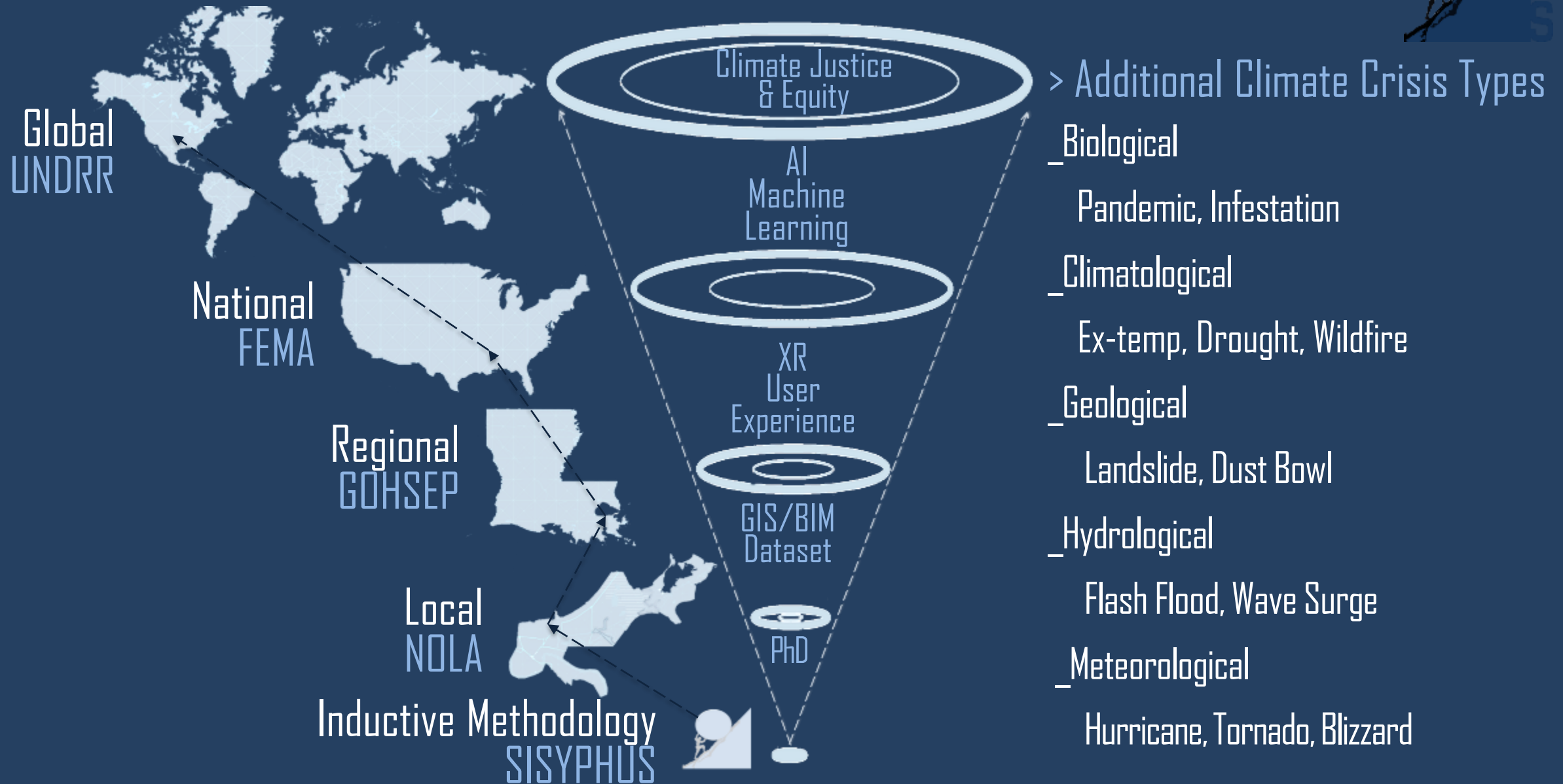
2023



Tech Integration  
\_ BIM SMART Energy  
\_ SAR Satellite Data  
\_ IoT Warning System



# SCALABLE SaaS



# TEAM

Hoang Tao\_PhD ABD/Team Leader

Planning & Urban Studies of Human Development, UNO

Kanupriya Tiwari\_PhD/XR & AI

Informatics & Nanotechnology, UQ

Shifat Mithila\_PhD ABD/Cloud Back-end

Computer Science & Engineering, LSU

Patrick Kalonde\_GIS PhD Student

Geographic Information Science, LSTM

Artne Nguyen\_Public Health

Life Science & Pre-Med, UCLA

Oluwatimilehin Odubola\_Front-end

Computer Science & Mathematics, OAU

Trung Vu\_Front-end

Computer Science & Engineering, UCLA

Kaleb O'Brien\_Design

Landscape Architecture, CSU

Bangladesh

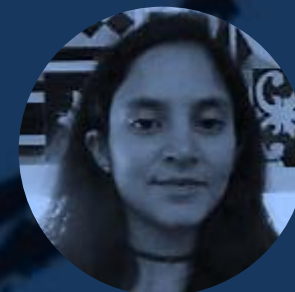
India

Malawi

Nigeria

United States

Vietnam



## ADVISORS

Dr. M. Farris

J. Dandridge

J. Trinca

N. Fino

# Thank you to our Supporter/Partners/Funders



- \_ Clinton Foundation Global Initiative
- \_ Verizon Social Innovative & Forward4Good
- \_ VentureWell Pioneer & Propel Startup
- \_ IBM Call for Code, Code Engine & AI Spot
- \_ On Deck Climate Tech Fellowship
- \_ Howard Univ. Environmental Justice
- \_ Columbia Tech Ventures Climate Justice
- \_ MIT Climate Tech & Energy Prize
- \_ UNO-CHART Institutional AC Support
- \_ StartupUNO Research & Tech Foundation
- \_ ABCC Pre-Seed Non-Dilutive Funding

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verizon

