

## Jersey City, New Jersey, USA Post-Hurricane Sandy Planning

**Part 1**: Resiliency Master Plan

### **Part 2**:

Encouraging Participation by the Private Real Estate Development Sector

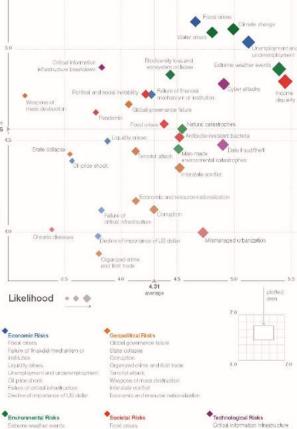
Alexander D'Hooghe, Founding partner ORG, Associate Professor MIT Risa Perlmutter Goldstein, Partner, Goldstein Partnership Architects & Planners, USA

## **Global Risks**





Massive incident of data fraud/theft



Pandomic

Chronic diverses

Income disparity

Antbioto-resistant beckerie

Minneneged urbanization Political and social instability Technological R Gritical informatio bmakdown Gybor attaolo Data baud/thait



Natural catastrophere.

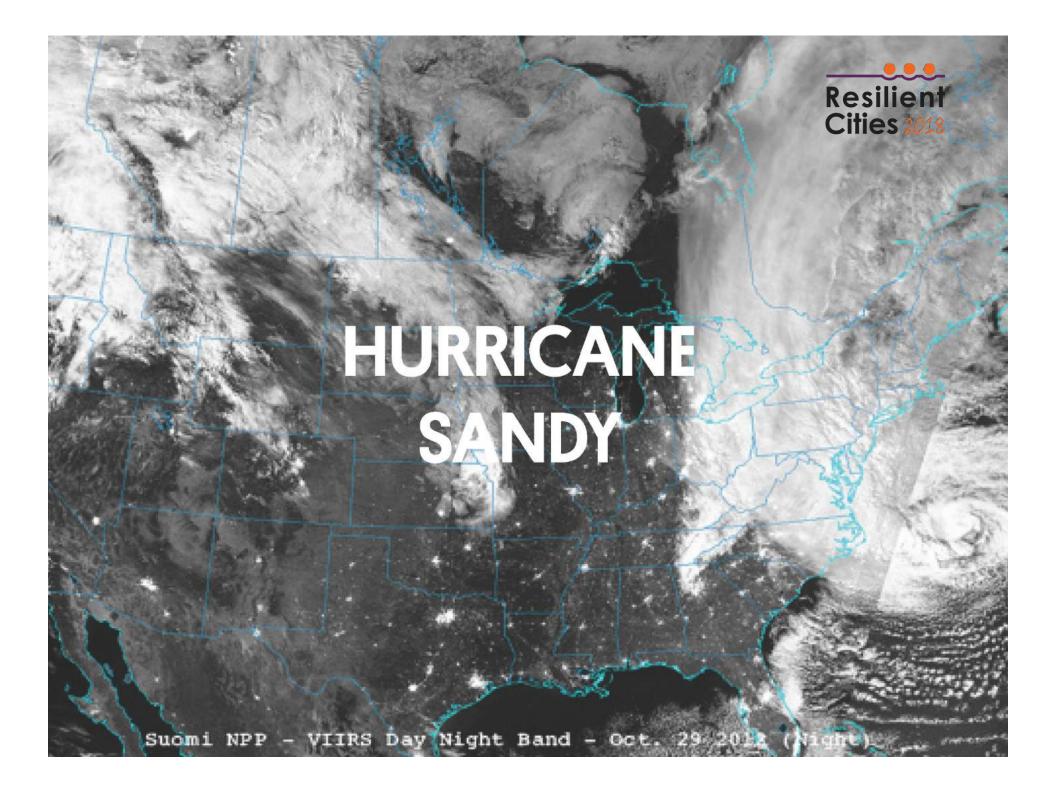
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Water crises

Circula change

Man-made environmental catastrophes

Biodivaruity kiss and ecception



Impacted 24 states across the Mid-Atlantic and Northeast

Resilient

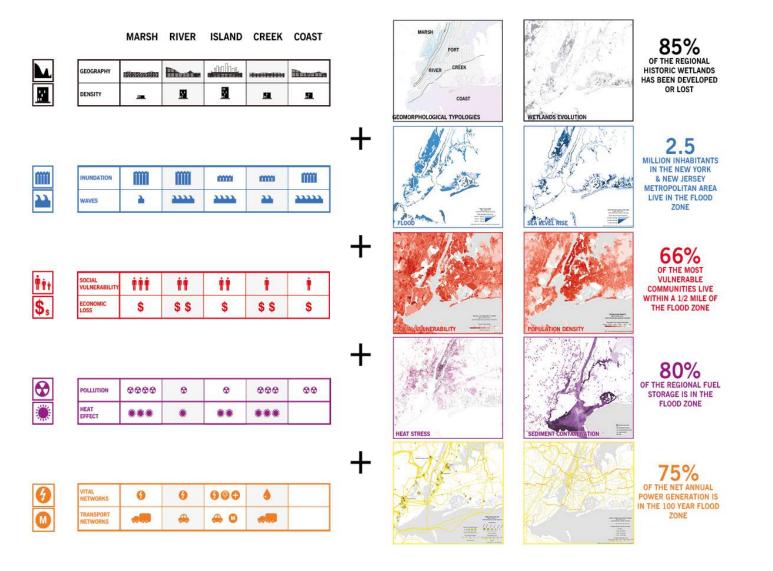
Cities

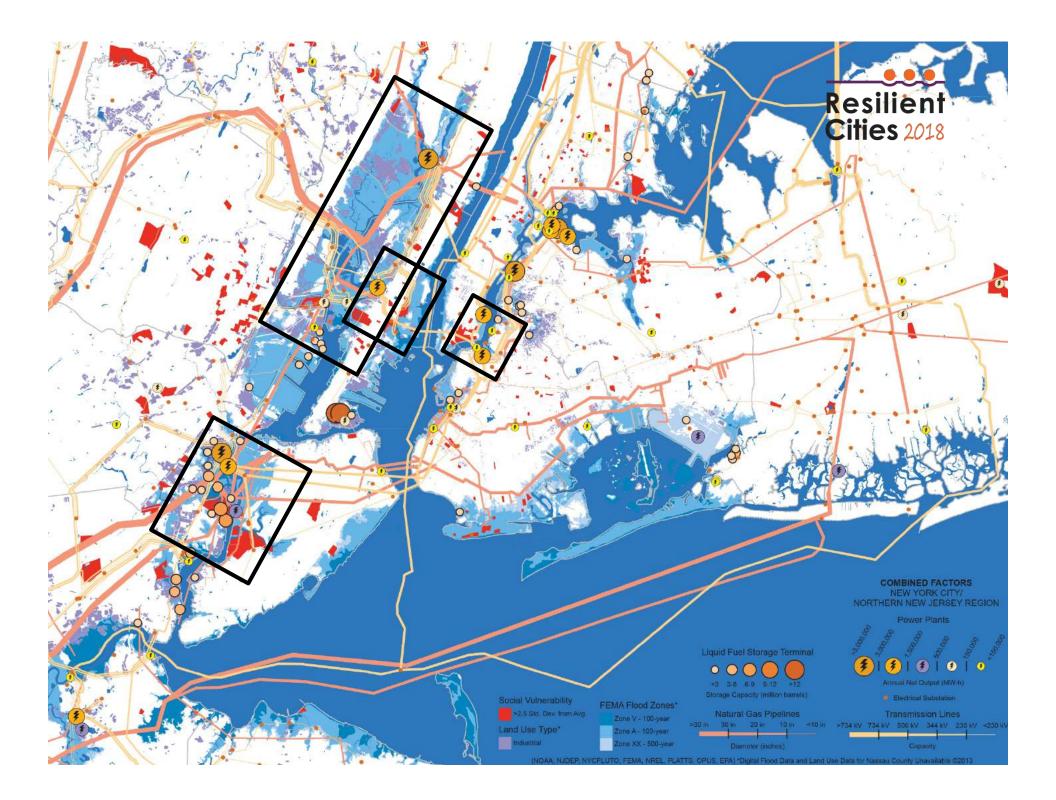
\$65.7 billion in damages and economic loss second costliest storm in U.S. history

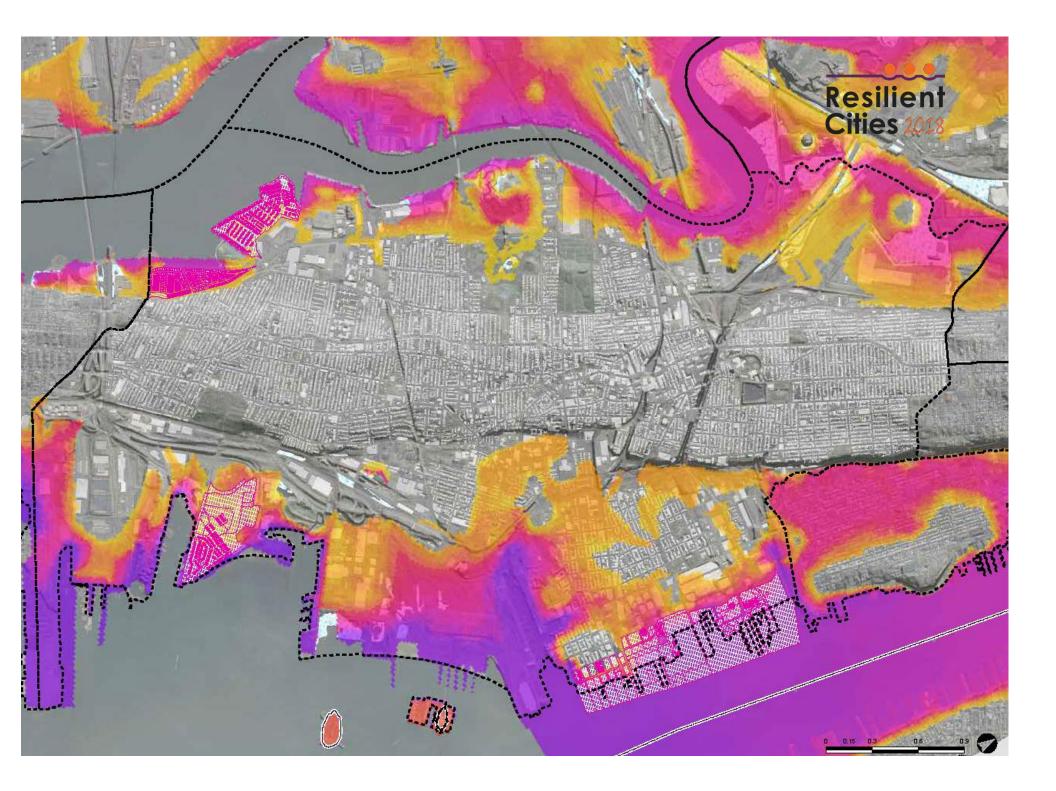
Emergency & Major Disaster Declarations made in 13 states

650,000 homes damaged or destroyed

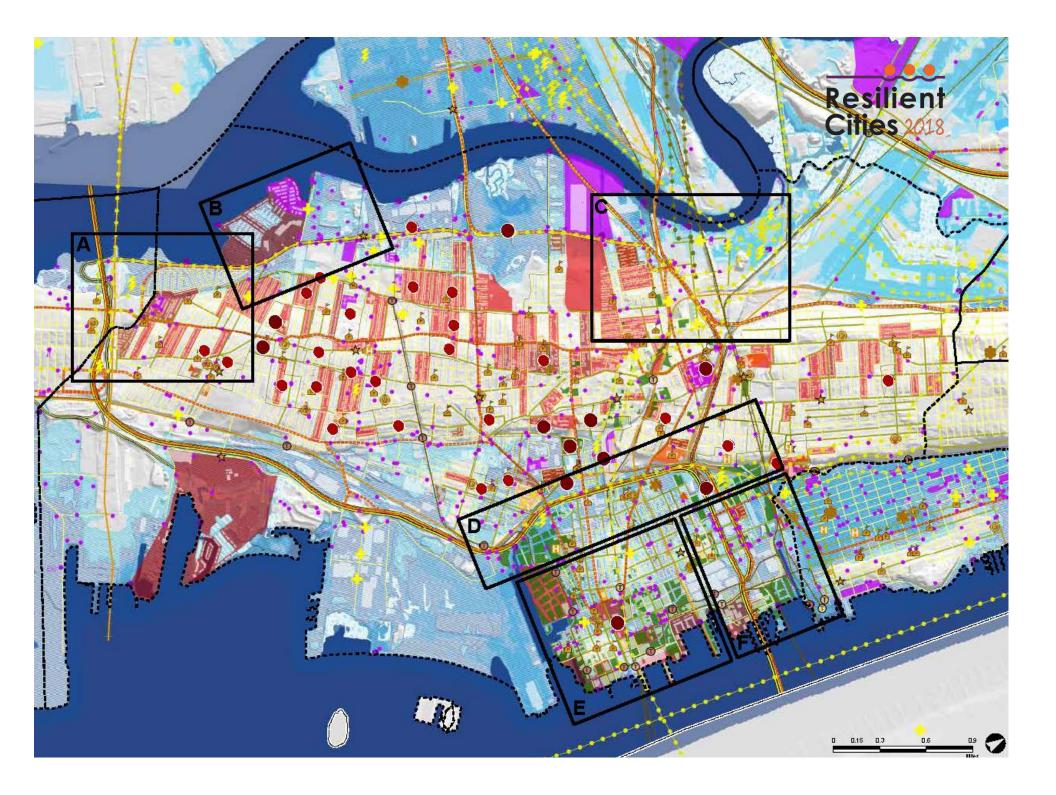
# Layered Risk Assessment Cities 2018













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### BERM ALIGNMENT

























ENCOURAGING PARTICIPATIO by the PRIVATE REAL ESTATE DEVELOPMENT ector

Resilient Cities 2018

Image: From Hamilton Park Neighborhood Association: hpnanj.org

### REDEVELOPMENT

"A process to rebuild or restore an area in a measurable state of decline, disinvestment, or abandonment."

**Hackensack River** 

Redevelopment can be undertaken by the Public sector, Private sector, or in Public/Private Partnership.

BAYFRONT 1 REDEVELOPMENT AREA

### JERSEY CITY REDEVELOPMENT ACTIVITY

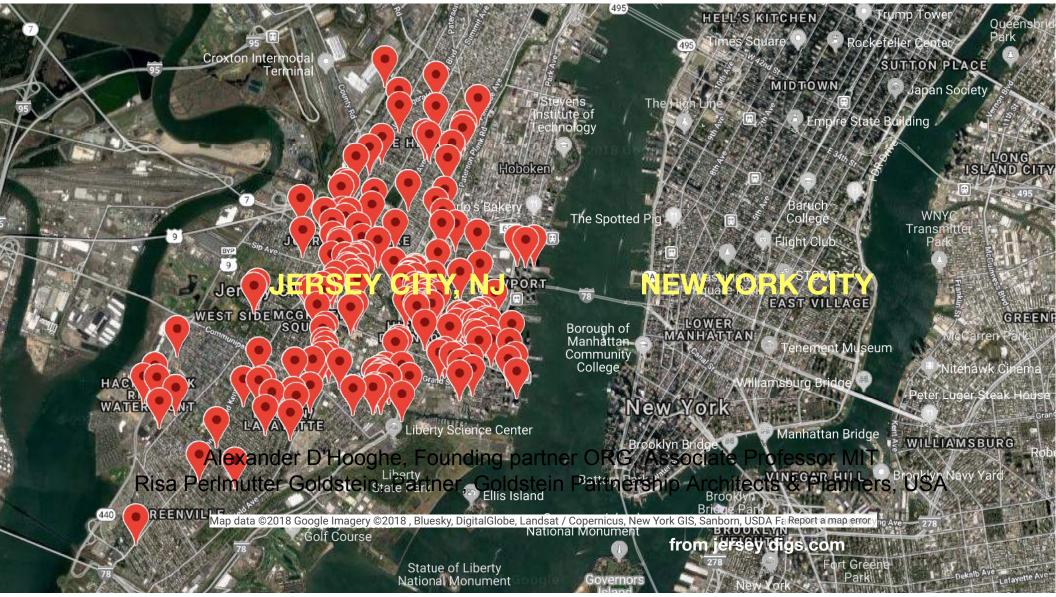




As of March 2017:

37,000+ units planned;

9,000+ units under construction.



This talk will focus on



### The Private Real Estate Development sector,

which plays a critically important role in Jersey City's ongoing desirability and economic vitality.





- All Public Buildings in Jersey City must be LEED Silver Certified.
- This requirement does not extend to the Private Sector.



 Requiring Real Estate Developers to fully adhere to sustainable practices is not politically possible at this time. Completion of the **Adaptation Master Plan** preceded our work. It states:

**"The implementation** strategy shall identify creative funding solutions, such as the ability to require the implementation of resiliency-building strategies as part of real estate development negotiations between developers and the City."



By understanding what motivates **Developers**, we recommended changes that encourage sustainable land-planning and building practices. Underlying our thinking....

- Developer's are profit-driven.
- Time is money; approval processes can be time-consuming and with unpredictable results.





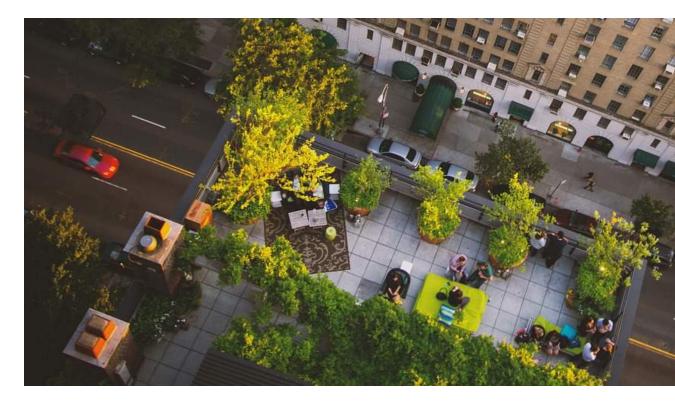
- Six examples follow of changes Jersey City adopted this past year to their CODE OF ORDINANCES
- Or incorporated into a new **REDEVELOPMENT PLAN SUPPLEMENT.**

### ROOF DECKS Communal roof decks are particularly desirable amenities and help bring higher rents and sales prices.



**Before:** Roof Decks were permitted to cover **30%** of a roof.

Now: if a green roof is used, increase Roof Deck coverage to 50%



## SUSTAINABLE PARKING STRATEGY



**Zoning Requirements include required parking ratios** (ie 1 car/unit for residential, or 1 car/500sq.ft of commercial space).

Parking deck parking spaces can cost (\$50,000US) to construct. This substantial expense causes **Developers** to **seek reductions to the number of spaces required.** 

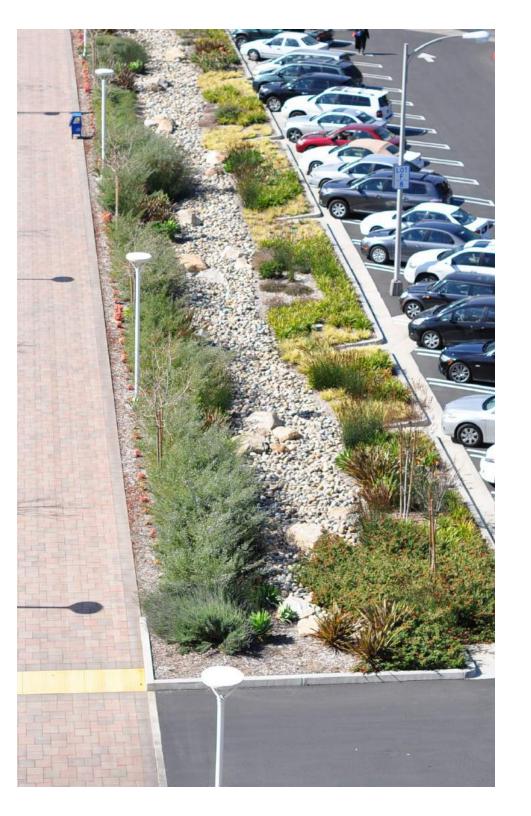




## A 20% reduction in required parking spaces is now permitted if:

- Spaces are reserved **exclusively for electric vehicles** and with charging stations.
- Spaces are set aside for and actively occupied by, car sharing services.







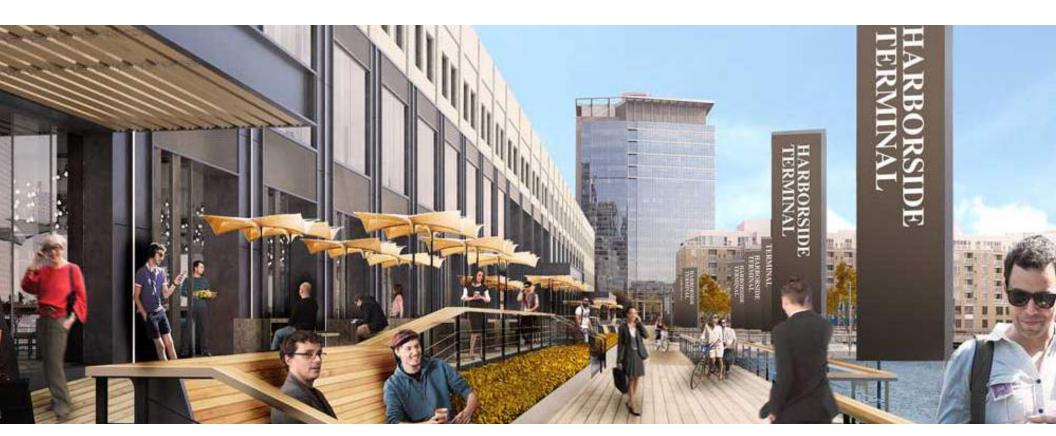
### STORMWATER

Surface parking lots with more than 10 spaces shall be graded to allow stormwater runoff to drain into bioswales, instead of the City's stormwater infrastructure.

## ENCOURAGING LEED CONSTRUCTION



- Expedited, Priority review of Building Permit Applications for projects that will meet LEED Certification standards.
- Up to 25% refund of Building Permit fees within 1 year of receiving LEED Certification.



### SOLAR PANELS:



- Are permitted within every zone without the need for variance.
- Do not require Planning Board Review when located in yards.
- Are exempt from Impervious Coverage Calculations except for their base foundations.



### **HISTORIC PRESERVATION**



Jersey City's **urban fabric includes many public and private buildings on the Historic Register**, **and 5 Historic Districts**, most of them flood-prone.

All are protected by Codes and Standards established by the US Secretary of the Interior.





To help incentivize ongoing investment in these desirable Historic buildings and Districts, Jersey City now:

- Allows modifications to Historic Buildings for wet or dry flood-proofing if architect-designed and approved by the Historic Commission.
- Grants permission to construct a rooftop addition to replace ground level space lost to flood risk, if such addition is not visible from the street.





### **LESSONS LEARNED**

- Adoption of suggestions into ordinances is slow and piecemeal.
- Get stakeholders together from the Start. The State grant that funded the 6 parts of this project resulted in a comprehensive set of planning documents addressing project at every scale. Funds are not available to implement city-scale resiliency plans. A grant that called for specific recommendations at a smaller scale would have been helpful in order to ultimately get project funds.
- Recognize the limits to what can be achieved in the short term. Work to assure that its recommendations are referenced when future opportunities arise.
- Structure the project so everyone can see the big picture. Phases were completed in consecutive order and consultants were involved only in those phases that their expertise demanded at the time. As a result, it was difficult to understand one's work in light of the complete picture and some things fell through the cracks.

#### FOR JERSEY CITY:

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## **Questions and Answers**

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