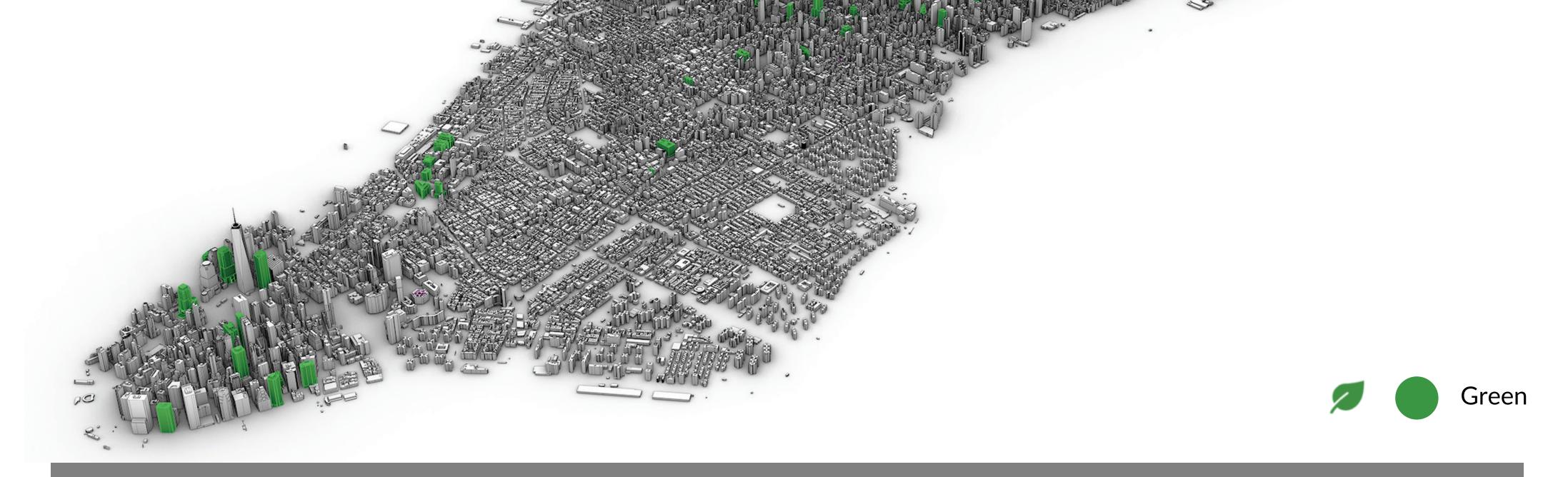


## GET SMART, CONNECTED & GREEN

### MEASURING THE INCREMENTAL VALUE OF BUILDING PROGRESS

### FROM GREEN BUILDINGS ( 💋 ) ...



We measure the economic impact of Smart, Connected and Green buildings upon rents and transaction prices. Using numerous data sources, we identify buildings that offer at least one so-called "smart" amenity and link them with the building's achieved rent and transactions prices as well as to other so-called "innovation" amenities, like greenness and or fiber-lit connectivity. Combined these measures mark the incremental value of technological progress in the built environment. In particular, we measure the impact of smart buildings that have grown from an increase in digital technologies that can sense, recognize and verify the experiences of the building and its inhabitants. Nascent literature has identified what it means to be considered smart. Buildings must respond to all four components of systems, performance, and service and should have the following components: a) smartness and technology awareness, b) economic and cost efficiency, c) personal and social sensitivity, d) environmental responsiveness.



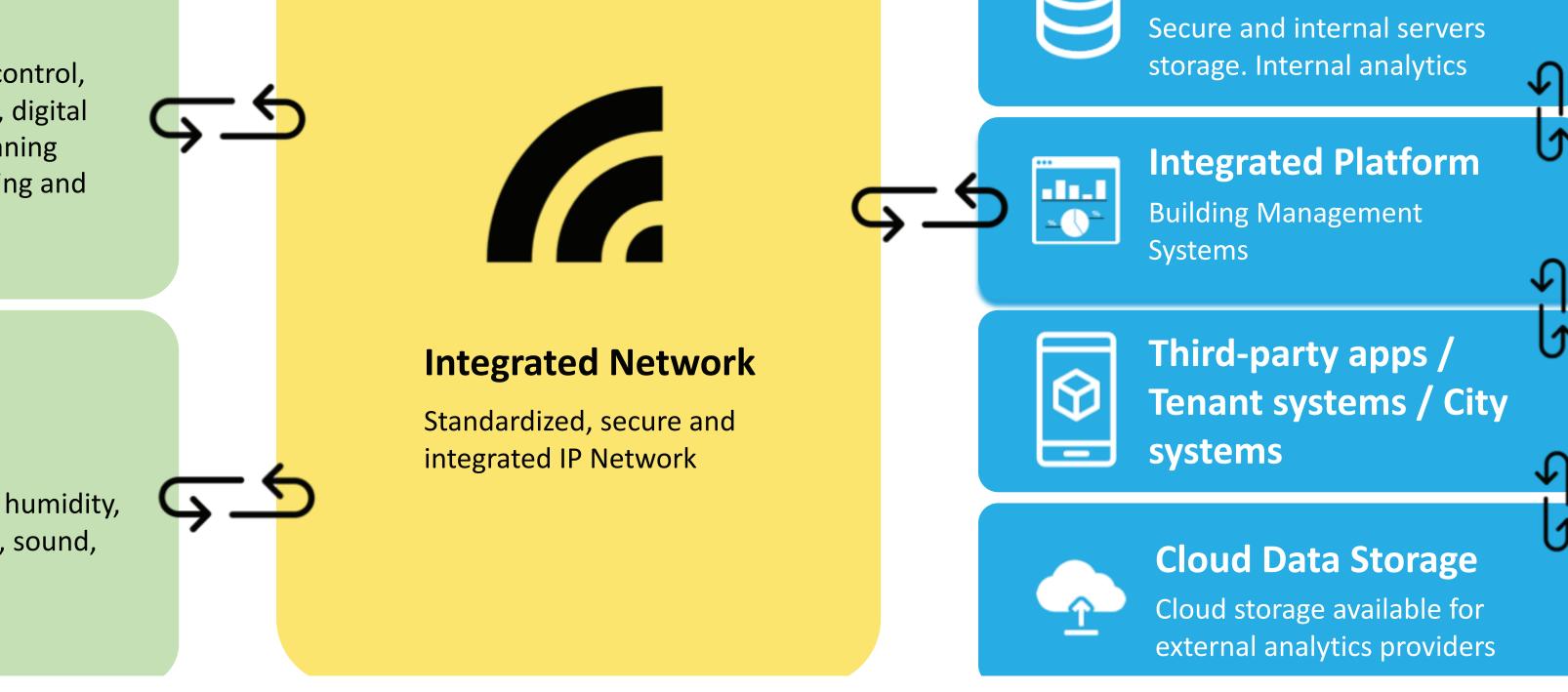
### CONNECTED

### **SMART**

**Internal Data Storage** 

#### **Building Systems**

HVAC, lighting, energy, access control, video and surveillance systems, digital signage, alarms and safety, cleaning services, water, elevators, parking and waste.



**Multiuse Sensors** 

Occupancy, temperature, light, humidity, infrared, distance, acceleration, sound, force, vibration, etc.

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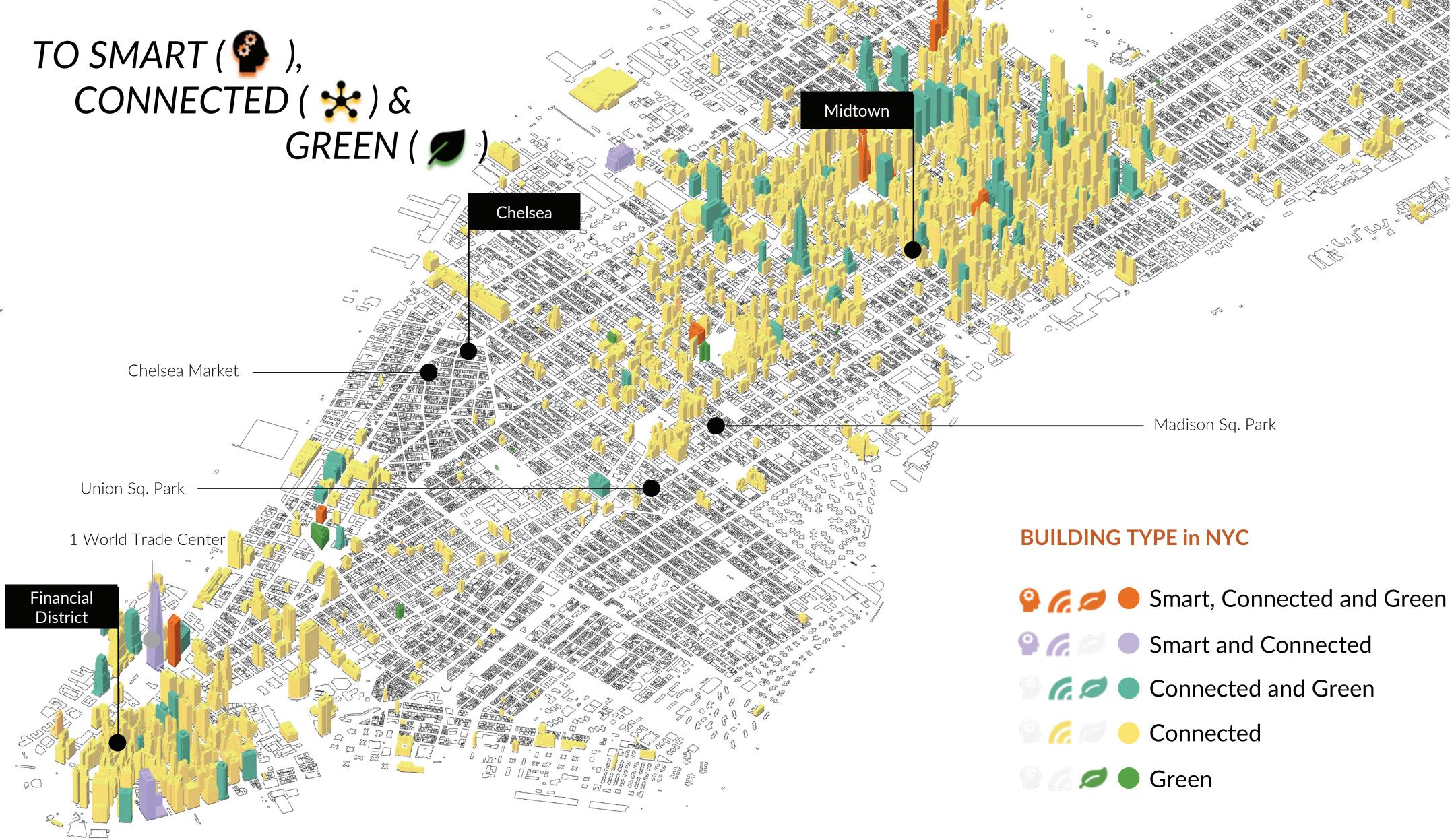
Transactions. Trends. Tools.



Redefining the workplace. Together.



# GET SMART, CONNECTED & GREEN



### THE INCREMENTAL VALUE in NYC

Smart, Connected AND Green		<b>Effective Rents</b>	<b>Transaction Prices</b>
Smart, Connected and Green	96.0	8.2%***	23.7%***
Smart and Connected	960	10.7%***	
Connected and Green	6.0	10.0%***	10.7%**
Connected	9 🜈 🧭	7.0%***	

### **DATA & METHOD**

We use RCA, Compstak, GBIG, Geotel, WiredScore and JLL data-sets for the 2010 to 2016 period. Then we estimate a semi-log hedonic pricing model relating the office rent (selling price) per net square foot to the hedonic characteristics of the lease or building.

Smart, Connected OR Green

Connected



**Effective Rents Transaction Prices** 

7.1%\*\*\*

### **DATA PROVIDERS**

We are grateful to our data providers for generously providing data for his study

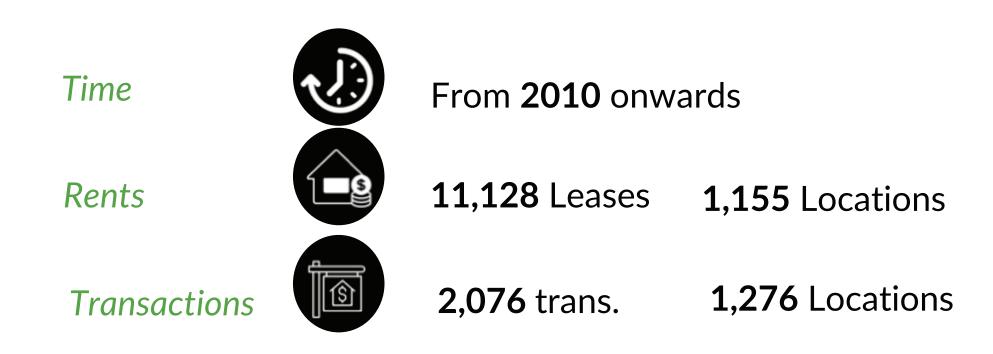
Green



12.8%\*\*\*



### **LEASE & TRANSACTION SAMPLE**







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Equity Office

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