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The Future of Cities

Urban Regeneration in a Time of Crisis

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Maria R. Perbellini

Dean, School of Architecture & Design
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Director of Sustainability
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Panel Session

Matthias Altwicker
Principal, Studio A+H, Associate Professor of Architecture, New York Institute of Technology

Ehsan Kamel
Assistant Professor and Director of Energy and Green Technologies Laboratory, New York Institute of Technology

Suzanne Musho
Chief Architect and VP, Capital Planning and Facilities Management, New York Institute of Technology

Dan Stubbergaard
Founder and Architect MAA, Cobe

Mirella A. Vitale
Senior VP, Marketing, Communications and Public Affairs, ROCKWOOL Group

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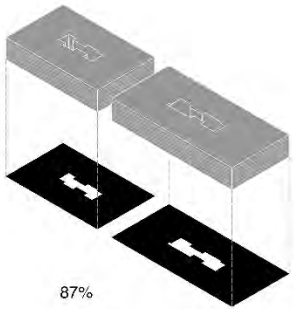
Matthias Altwicker

Principal, Studio A+H,
Associate Professor of Architecture,
New York Institute of Technology

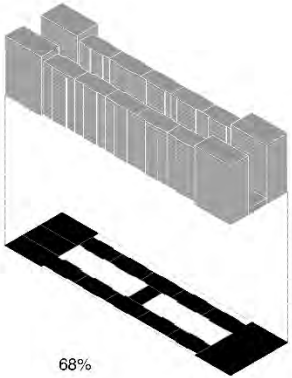
Tenements



87%

400 pp/acre (2016)
1100 pp/acre (c. 1900)

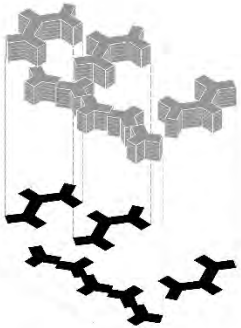
London Terrace - 1930



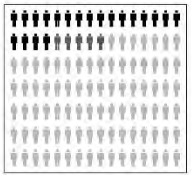
68%

931 pp/acre

Queensbridge Houses- 1939

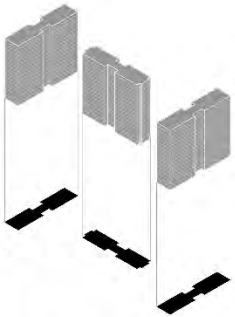


26%



189 pp/acre
245 pp/acre (1939)

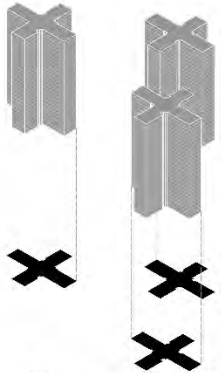
Taft Houses - 1962



22%

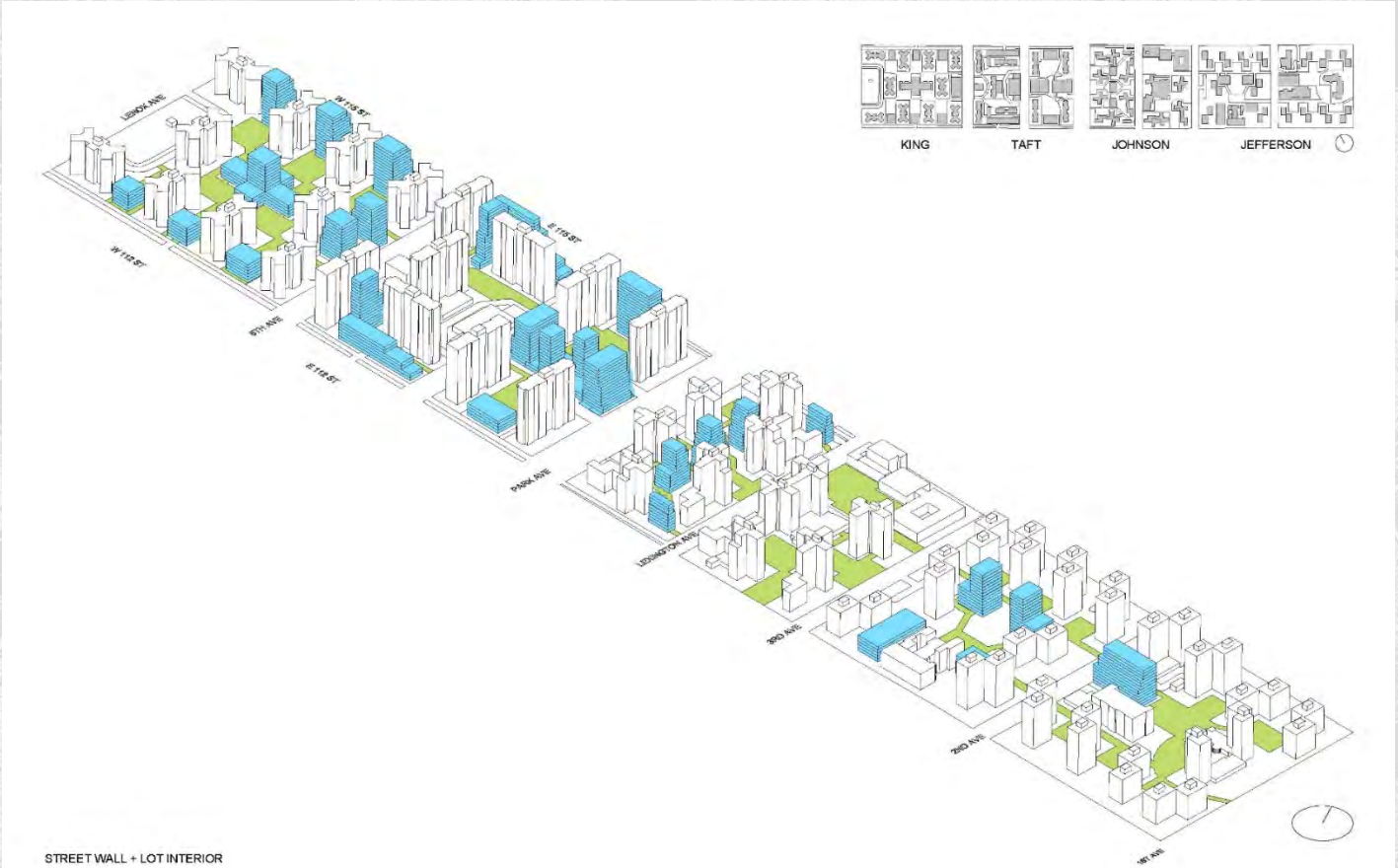
237 pp/acres

Polo Grounds Towers - 1968



16%

268 pp/acres



STREET WALL + LOT INTERIOR

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Ehsan Kamel

Assistant Professor, College of Engineering & Computing Sciences

NYC Local Laws

Smart Cities

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Mirella A. Vitale

Senior Vice President
Marketing, Communication & Public Affairs
ROCKWOOL Group

Cities are on the front lines – both as a source and as a key solution to a substantial part of the climate challenge.

Buildings hold the largest climate action potential and within that energy efficiency is the cheapest path.

40% of all carbon emission reductions in low-carbon 2°C scenarios come from energy efficiency [1]

70% - the potential energy savings stone wool insulation can contribute in buildings [2]

70% of New York's greenhouse gas emissions comes from buildings

Fire affects the economy, the community and the environment.

~2%

total cost of fire *($328.5bn)* in the US

source: Fire Protection Research Foundation, 2017 (data from 2014) https://www.nfpa.org//-/media/Files/News-and-Research/Fire-statistics-and-reports/US-Fire-Problem/RFTotalCost.pdf

Fire safety must be an integral part of renovation.

90,000

children in the UK are disrupted by school fires each year.

source: LGA Research, 2007 https://www.nfer.ac.uk/publications/lfw01/lfw01.pdf

Fires contribute to air contamination from the fire plume and water contamination from runoff

source: Fire Protection Research Foundation, 2020 https://www.nfpa.org/News-and-Research/Data-research-and-tools/US-Fire-Problem/The-environmental-impact-of-fire

[1] Source: OneNYC, Office of the Mayor 2018

[2] Calculation conducted by Material Economics, 2018 based on IPCC AR5 Database, 2018.

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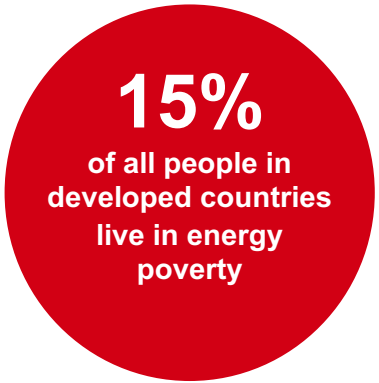
COVID-19 has created simultaneous health and economic crises, on top of a climate crisis that isn't going away

30-50% of excess winter mortality is attributed to housing conditions

Energy poverty means **30%** greater risk of admission to hospital or primary care facilities for infants



Energy poverty can affect **mental wellbeing** and social contact

Energy poverty **affects children's diet** if households reduce spending on food to afford fuel to keep warm

Source: BPIE 2014 and IEA 2017

Energy poverty is defined as **"households not being able to adequately heat or cool their homes at affordable cost"**

source: EU Energy Poverty Conservatory
https://www.energypoverty.eu/about/what-energy-poverty

The **most cost-effective, long-term methods** for alleviating energy poverty are **energy efficiency and renovation**

source: Regulatory Assistant Project (RAP), 2020
https://www.raponline.org/knowledge-center/equity-in-energy-transition-who-pays-who-benefits/

The issue is how to achieve the greatest economic and the greenest climate and social impact in the shortest possible timeframes.

Energy efficiency renovation of the existing building stock is among the best ways of achieving these mutually reinforcing goals.

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Suzanne Marie Musho AIA, NCARB

Chief Architect and VP, Capital Planning and Facilities Management, New York Institute of Technology


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Dan Stubbergaard

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Q&A Session

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Berit Basse

Ambassador
Counsul General of Denmark in New York

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