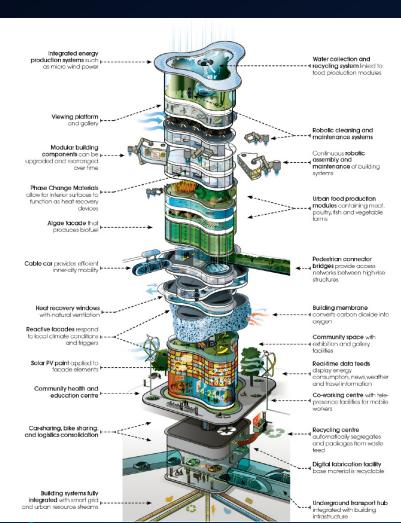
# The Future of Urbanism

WHERE ARE WE GOING AND HOW DO WE GET THERE?















#### Managing the Magic of Urban Places:

Jeremy Wells, Associate Professor, HISP





#### **SECTION 7:**

**Architectural Classification** 

Yes No NA Bulletin 16 Terminology [pp. 25-26]

Materials

Yes No NA Bulletin 16 Terminology [p. 27]

**Building Description** 

Yes No NA Setting and Site

Yes No NA Dates of construction and alteration

Yes No NA Style Yes No NA Size

Foundation NA NA No Materials No NA Roof Shape NA Windows No NA Details NA Plan Interior

Yes No NA If altered, has impact been assessed
Yes No NA Classification of C and NC resources

es No NA ALL resources classified

**Yes No NA** Rationale discussed for C and NC Status

**SECTION 8:** 

Yes No NA Criteria Checked [pp. 35-39]

Yes No NA If "B" check Significant Person Blank-Format: last name, first

Yes No NA If "D" check Cultural Affiliation Blank

Criteria Consideration

Yes No NA Discussed in text? riteria Considerations/Exception Checked

#### An Unauthorized Discourse on Built Heritage Conservation

Area of Significance

Yes No NA Bulletin 16 Terminology [pp. 40-41]
Yes No NA Reflects Significance, not just use

Period of Significance (POS)

Yes No NA POS is correct and does not predate resource

Yes No NA POS is correct by using the date of first

contributing resource

POS is correct and does not postdate 50 yrs

Or justification for extension

es No NA POS is discussed in text or footnoted

Significant Date

Yes No NA Significant Date Listed
Yes No NA Discussed in text? OR

#### What is nature's value?

How does nature benefit human well-being especially in urban settings?

Total Economic Value of nature includes seen and unseen benefits.

Mispillion Riverwalk Greenway - Value of park leisure activities \$480,000 - \$1.23 million and \$1.07 million per year in direct spending associated with Riverwalk events.













The Pew Charitable Trusts commissioned this project. Pew is not responsible for errors within and does not necessarily endorse the opinions and conclusions herein.



## **Anti-Displacement** Network

place

Dr. Willow Lung-Amam, Director Nohely Alvarez & Bi'Anncha Andrews www.antidisplacement.org @SBANinPlace

### What Do We Do

Small Business Resources: scholarly research, brown papers, small business and gentrification data

**Communication:** website, social media, newsletters, LinkedIn and Slack

Anti-Displacement Working Groups: Bimonthly meeting of network members to develop innovative and effective anti-displacement strategies.

Case Studies: Teams of SBAN members that conduct in-depth analyses of promising policies and practices.

**Convenings**: webinars and national convening of members focus around working sessions about strategy development and deployment.

## What is SBAN?

**Mission:** To establish and sustain a network of organizations that work to prevent the displacement of small businesses owned by immigrants and people of color in gentrifying neighborhoods.

Vision: Vibrant neighborhoods anchored by diverse business owners, workers, and residents who can remain in place and benefit from new public and private investments

**Members:** 110 organizations from 12 targeted metropolitan areas, including national international organizations.

**Stakeholders:** Technical assistance providers, community-based & nonprofit organizations; real estate & development firms; academic & research institutions; government agencies; small business associations; banking & lending institutions

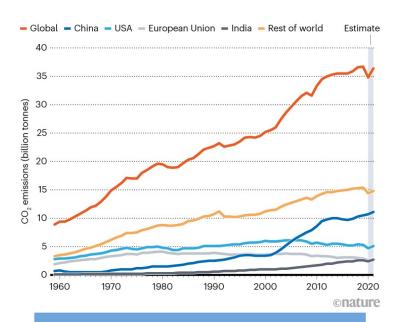
## What We've Found



- **Commercial Property and Community** Ownership (ex: cooperatives and community land trusts)
- **Commercial Tenant Protections** (ex: rent stabilization and legacy business programs)
- Zoning and Form-Based Codes (ex: store cap sizes and formula business ordinances)

# 2022 Researcher and Practitioner Forum: The Future of Urbanism (University of Maryland, MAPP)

#### **INCREASE**



The global annual GHG emissions from the building sector in 2020 were nearly 2.9 gigatonnes.

#### **GROWTH**



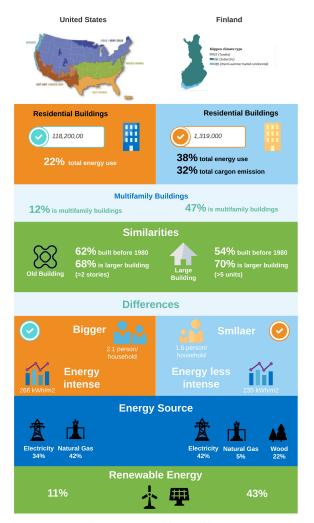
Globally, floor area equivalent to the surface of the city of Paris is added every week through 2050.

#### Ming Hu Associate Professor mhu2008@umd.edu

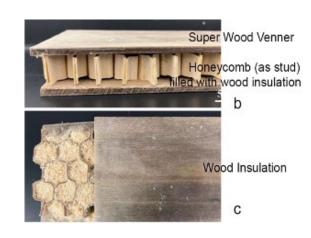


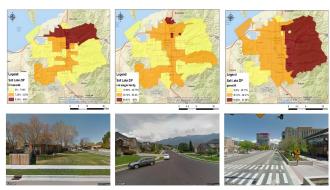
#### **BUILT SMARTER**

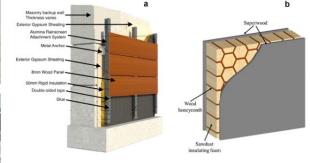
#### Built4Climate Built4Health Built2Last



car







Project 2 Built4Health

Project 3 Built4Last

Project 1 Built4Climate

## Playful Learning Landscapes: The Public Realm & The Digital Window

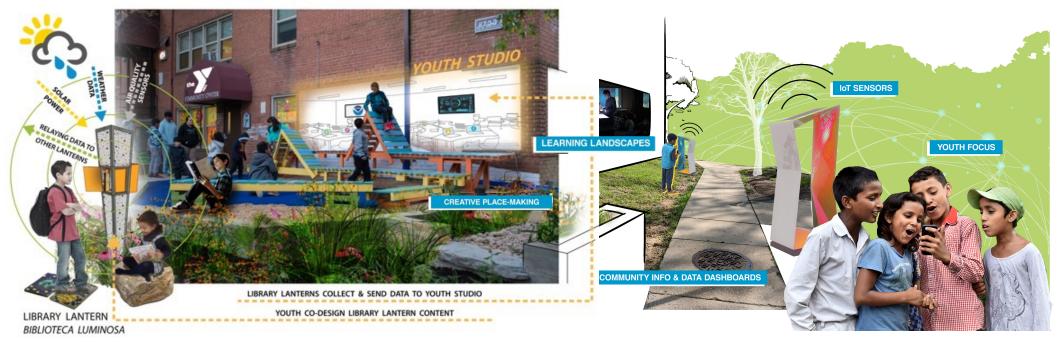
**Ronit Eisenbach**, Professor of Architecture Maryland Creative Placemaking Collaborative

with Profs. Elisabeth Bonsignore, Royce Frances, Cy Keener, Rikkin Thaker, and alum, Michael Mattson.



Library Lanterns, & LightScape Rain Garden, Carroll Avenue/Quebec Terrace

Firefly Learning Landscape, Washington, DC



#### **AEROTROPOLIS 5.0: Vertical Communities**

**Aerotropolis** Blueprint **Atlanta** 



Convergent Program Halo



#### **Vertical** Community







**Near Future** 

**Autonomous** 

Mobility

AR/VR

Technology/

**Environments** 

**Immersive** 



Steps to Sustainable Community Building Social Change Central, May 5, 2019.

Exploring the Impact of Near Future Mobility and Convergent Programming on the potential for enhanced Community Definition and Performance in moderate to high density urban environments....... College Park Discovery District.......Baltimore Locust Point......Equitable Access and Governance....Convergence of Research/Commercial Enterprise.....Experience Destination Design...Bio-Climatic Production..... Wellness and Spiritual Space...Immersive Environments.... Near Future Food Production.....



James W Tilghman AIA **Clinical Associate Professor Dept of Architecture** 

# Parametric Modeling for the Future of Urbanism

Joseph Williams, Ph.D. Asst. Prof. of Architecture



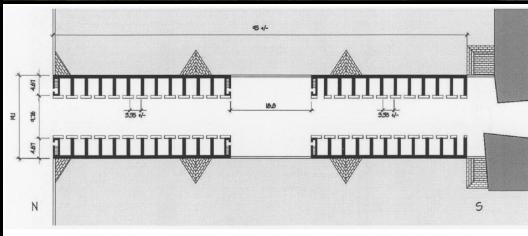
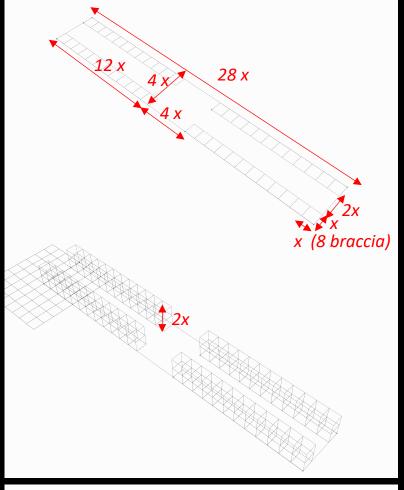
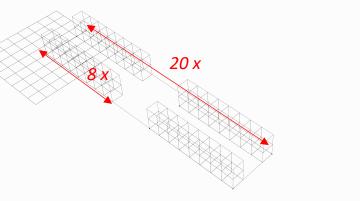


FIGURE 8. Ponte Vecchio, plan as built with dimensions in meters (reconstruction: author, drawing: Cecelia Hallahan)





Florence, Italy. Ponte Vecchio. 14<sup>th</sup> century.

Top-left: General view.

Bottom-left: Plan.

Top-center: Author's parametric model of ideal geometry given by architect Villani.

Bottom-center: Parametric model with theoretical adjustment to a narrower river span.



# Chengri Ding, Ph.D.

Professor of Urban Studies and Planning

### Urbanization and Megacities in New Millennium: Challenges and Opportunities

Year Megacities

1990 10 m

2014 28 m

2030 41 m

Largest megacities

Tokyo 37.5 m

More to emerge in developing countries \*

#### Challenges

- Congestion
- Natural disasters
  - Flooding
  - Water shortage
- Pollution
- Urban environment
- Urban slums/informal
   settlement
  - Global climate impact •

#### **Opportunities**

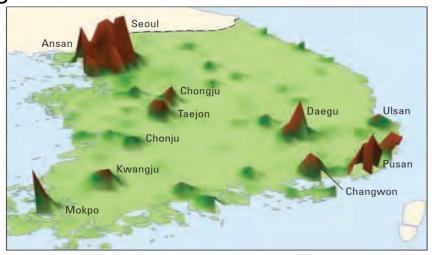
- Advantages in the economy, technology, and human capitals
- Home of innovations
  - Poverty reduction
  - Multi-discipline approaches

cding@umd.edu; Ph: 301-405-6626

Megacities lead the fight against climate change

Reducing emissions in a few of the world's most populous cities could have an outsized impact on climate change.

Just 25 mega-cities produce 52% of the world's urban greenhouse gas emissions.



Source: WDR 2009 team and World Bank Development Research Group, based on subnational GDP estimate for 2005. See also Nordhaus 2006.

# The Future of Urbanism and the Multidimensionality of the Digital Age:

Sensing, Community Science, and Virtual Auditing Toward Infrastructure Resilience and Justice

Dr. Marccus D. Hendricks, Ph.D., MPH Director, Stormwater Infrastructure Resilience and Justice (SIRJ) Lab

"...Climate change is not the single cause of catastrophe, however it is widening the expanse of vulnerability and damage, particularly at the intersection of hazards (e.g. urban flooding) and the human-built environment..."







#### Sensing: Technological Innovation

- Problem: Lagged, intermittent data
- Continuous, realtime event monitoring
- Big data analytics
- Water quantity and quality data
- Establish BMPs and inform sustain develop



# Community Science:

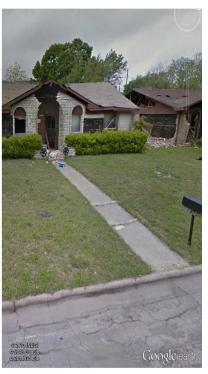
#### **Social Innovation**

- Problem: Incomplete data; lacks nuance
- Timely, complete, and current data
- Inform risk analysis and capital planning
- Community stake, control, and agency



# Virtual Auditing & Photography: Practical Innovation

- Problem: Aggregated crosssectional data
- Low-tech, accessible, and digestible
- Parcel-level data
- Trackable by residents, planners, and researchers



# Purple Line Corridor Coalition: Coordinated action for equitable development

Affordable Housing \* Small Businesses \* Workforce Development \* Vibrant Communities

#### **Research highlights**

- PLCC work has informed academic articles, dissertations, books
  - Eg., Nick Finio; Qiong Peng; Willow Lung-Amam; Casey Dawkins, Gerrit Knaap
- Design and architecture projects, community-engaged student projects
  - Eg., Ronit Eisenbach, Matt Bell
- Upcoming research partnership with Howard University's Center for Excellence in Housing and Urban Research and Policy (CHURP) on gentrification and displacement
- Contact Nick Finio, Associate Director of NCSG, for research questions: nfinio@umd.edu

