

UTOPIAE INSVLAE FIGVRA



Healthy Cities Design International 2019
Royal College of Physicians – London, UK

How Community-focused Systems
are Addressing Urban-Global Issues



Agenda

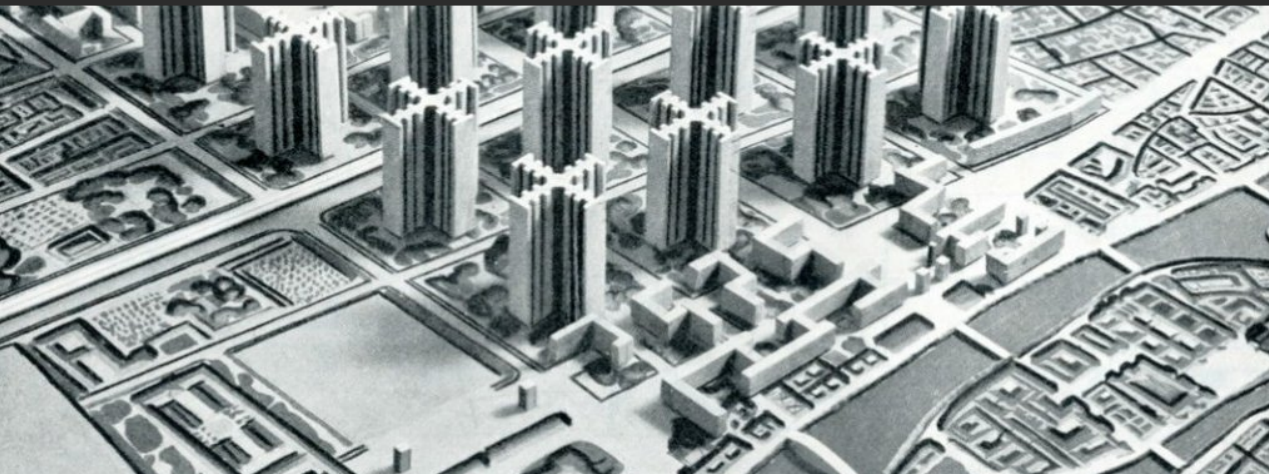
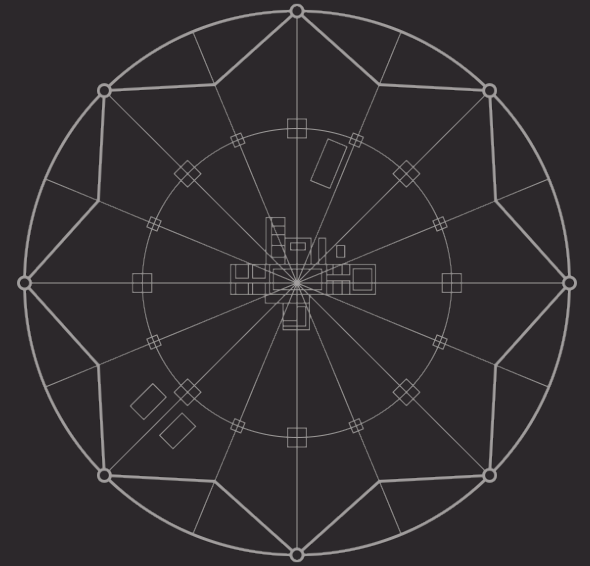
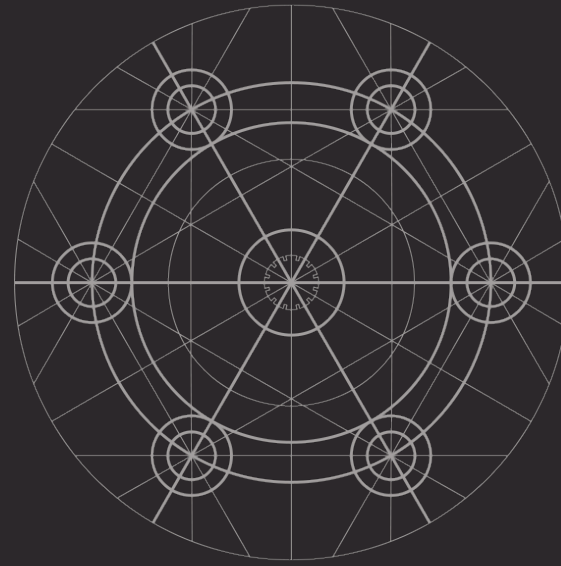
1. A Brief History of Utopias
2. Intended & Unintended Consequences
3. Community-focused Systems
 - BREEAM Communities
 - LEED-ND
 - Living Community Challenge
 - WELL Communities
 - Fitwel Communities
 - 100 Resilient Cities
 - EcoDistricts
 - AIA 2030 Districts
4. Themes



CHAOS



ORDER



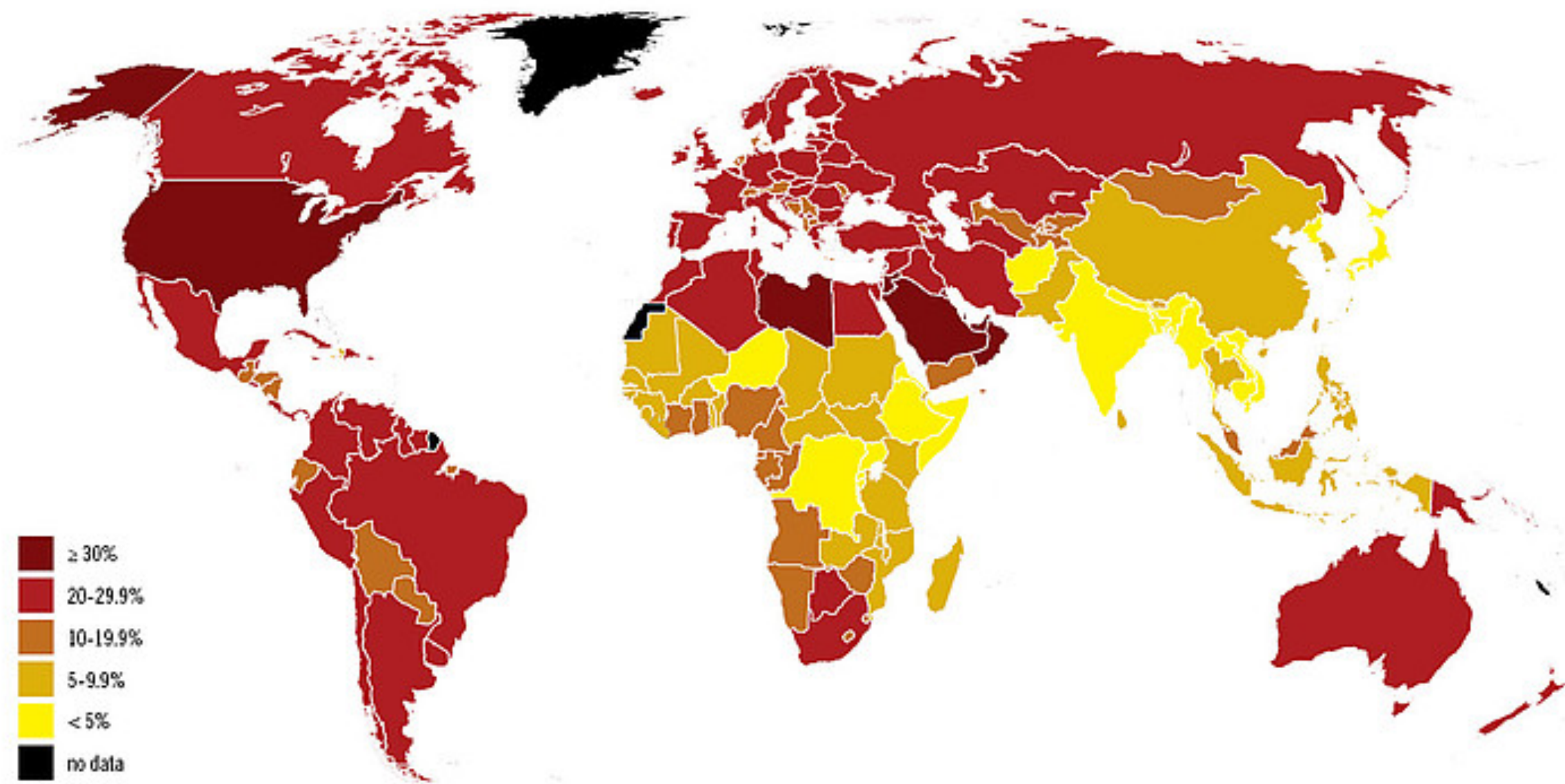






**BIG BROTHER IS
WATCHING YOU**

The world map of overnutrition



Prevalence of obesity in adults (BMI ≥ 30)
in the population of a country

Source: WHO (2015), data for the year 2014



INTERNATIONAL
LIVING FUTURE
INSTITUTESM



The
ROCKEFELLER
FOUNDATION



EcoDistricts[®]



INTERNATIONAL
WELL
BUILDING
INSTITUTETM

2030
DISTRICTS[®]

CENTER

FOR ACTIVE

DESIGN[®]

BREEAM[®]
delivered by **bre**

1

Introduction

2

The BIG Idea

3

Example



BREEAM Communities

Integrating sustainable design
into masterplanning



SEARCH

RESET

CHANGE DISPLAY







LEED-ND

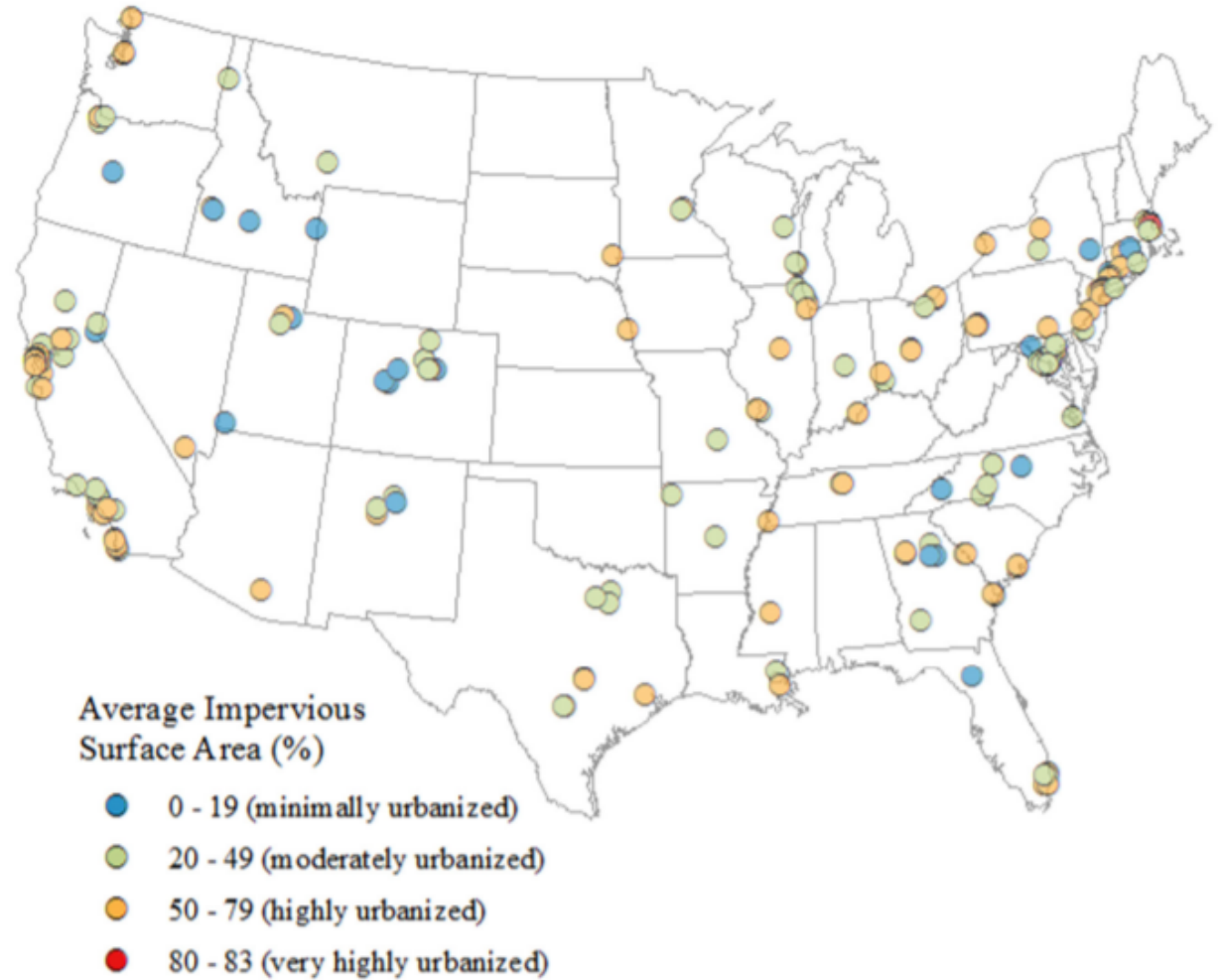


Figure 3. Average percent impervious surface area within 1.5 km of LEED[®]-ND[™] sites.







LIVING COMMUNITY CHALLENGESM 1.2

A Visionary Path to a
Regenerative Future



INTERNATIONAL
LIVING FUTURE
INSTITUTE™

PETALS

Imagine communities that function like a forest ecosystem. The Living Community Challenge is organized into seven performance areas.



PLACE

Restoring a healthy coexistence with nature .



WATER

Creating water independent sites, buildings and communities.



ENERGY

Relying only on current solar income.



HEALTH + HAPPINESS

Maximizing physical and psychological health and well being.



MATERIALS

Endorsing products and processes that are safe for all species through time.



EQUITY

Supporting a Just, equitable World.



BEAUTY

Celebrating plans that purpose transformative change.



1

REGISTRATION

REGISTRATION

Transect &
Limits to Growth
Check-in

2

PLANNING: PLAN COMPLIANCE

VISION PLAN

ILFI Review

Optional: Two-Phased Submission

MASTER PLAN

ILFI Review

3

IMPLEMENTATION

EMERGING
LIVING / PETAL / ZE
COMMUNITY

Periodic
ILFI Review

4

CERTIFICATION

CERTIFIED
LIVING
COMMUNITY

3rd Party Review
ILFI Certification

OR

CERTIFIED
PETAL
COMMUNITY

3rd Party Review
ILFI Certification

OR

CERTIFIED
ZERO
ENERGY
COMMUNITY

3rd Party Review
ILFI Certification



THE WELL COMMUNITY STANDARD™

PILOT

The premier global standard for supporting health and well-being through inclusive, integrated and resilient communities.



Project Designers:

- 1 Pickard Chilton
- 2 Gensler
- 3 Baker Barrios
- 4 Olson Kundig
- 5 Morris Adjmi Architects; Interior Design by Roman & Williams
- 6 Morris Adjmi Architects
- 7 CookFox Architects
- 8 CookFox Architects
- 9 HOK Architects
- 10 Kohn Pedersen Fox Associates (KPF); Interior Design by Cecconi Simone
- 11 Alfonso Architects
- 12 Nichols Brosch Wurst Wolfe & Associates (NBWW); Interior Design by Champalimoud

Tampa Convention Center

Amalie Arena

Marriott Waterside

Tampa Bay History Center

WATER STREET

TAMPA



fitwel®

OUR HEALTH IMPACT CATEGORIES

Each strategy within the scorecard is linked by scientific evidence to at least one of Fitwel's seven Health Impact Categories:



IMPACTS COMMUNITY HEALTH



REDUCES MORBIDITY + ABSENTEEISM



SUPPORTS SOCIAL EQUALITY FOR VULNERABLE POPULATIONS



INSTILLS FEELINGS OF WELL-BEING



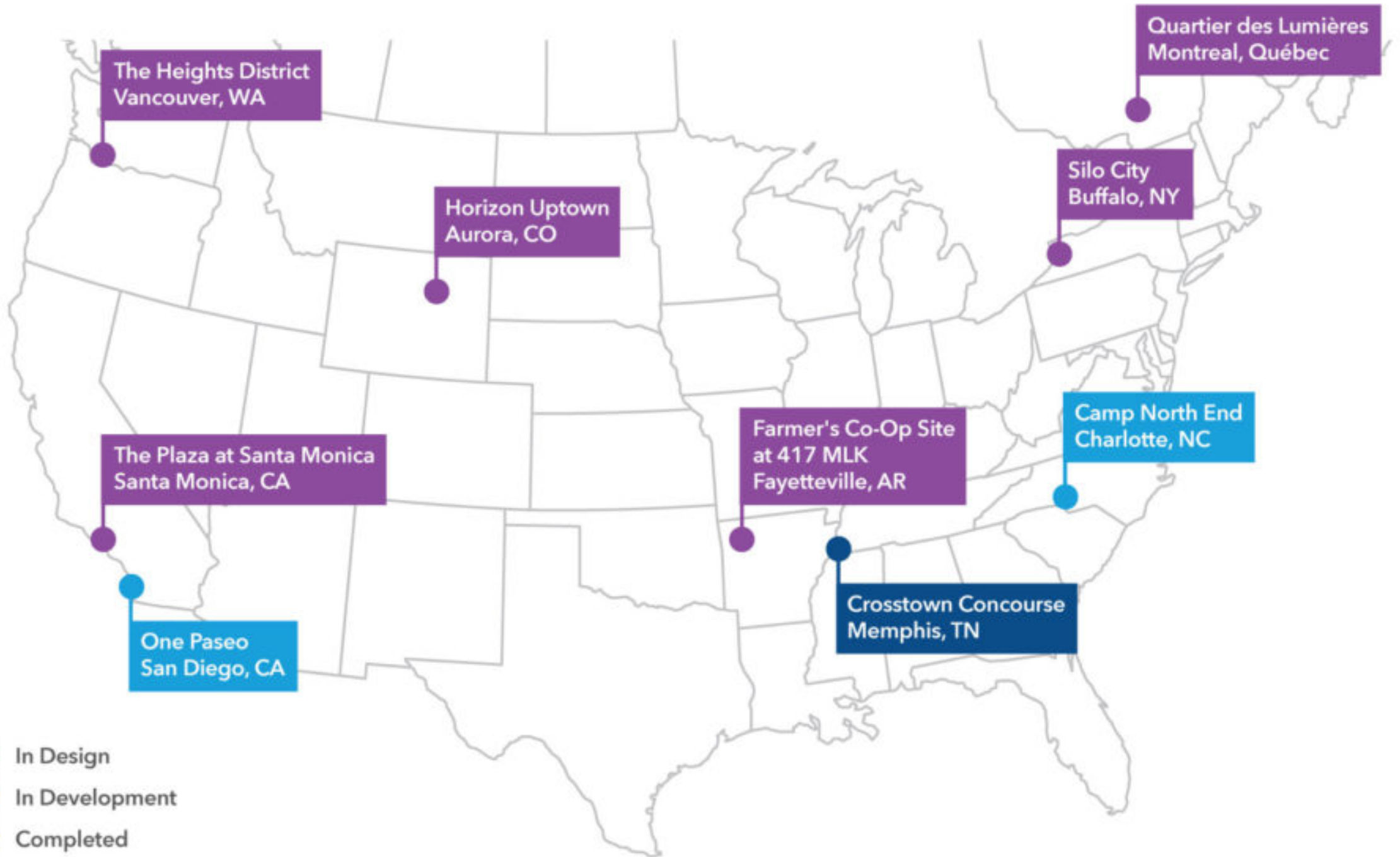
PROVIDES HEALTHY FOOD OPTIONS



PROMOTES OCCUPANT SAFETY

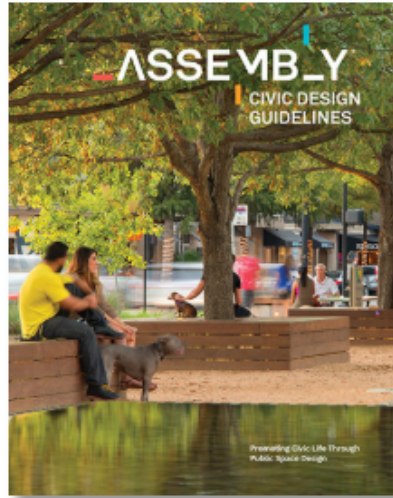


INCREASES PHYSICAL ACTIVITY





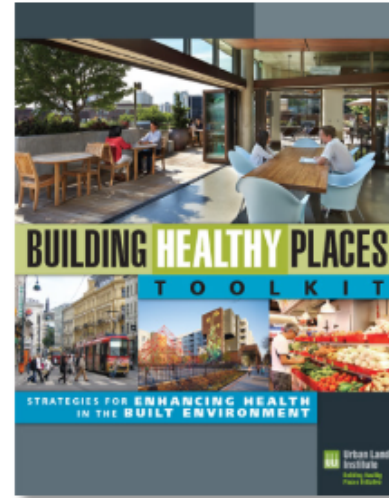
Publications + Resources



Assembly: Civic Design Guidelines



The Active Design Guidelines



Building Healthy Places Toolkit



Assembly: Project Orientation



Assembly: Research Brief One



Assembly Civic Engagement Survey



Policy Brief: Impact In Affordable Housing



Active Design: Guide for Community Groups



Promoting Safety



Affordable Designs for Affordable Housing

100 RESILIENT CITIES

THE FIRST

10





- RESEARCH CITIES
- TEST CITIES

INDICATORS

QUALITIES

	INTEGRATED	INCLUSIVE	REFLECTIVE	RESOURCEFUL	ROBUST	REDUNDANT	FLEXIBLE
1.1 Safe and affordable housing	█	█	▬	▬	█	▬	▬
1.2 Adequate affordable energy supply	█	█	▬	▬	█	▬	▬
1.3 Inclusive access to safe drinking water	█	█	▬	▬	█	▬	▬
1.4 Effective sanitation	█	█	▬	▬	█	▬	▬
1.5 Sufficient affordable food supply	█	█	▬	▬	█	▬	▬
2.1 Inclusive labour policies	█	█	▬	▬	█	▬	▬
2.2 Relevant skills & training	█	█	▬	█	█	▬	▬
2.3 Local business development and innovation	█	█	▬	█	█	▬	▬
2.4 Supportive financing mechanisms	█	█	▬	█	█	▬	▬
2.5 Diverse protection of livelihoods following a shock	█	█	▬	█	█	▬	▬
3.1 Robust public health systems	█	█	▬	▬	█	▬	▬
3.2 Adequate access to quality healthcare	█	█	▬	▬	█	▬	▬
3.3 Emergency medical care	█	█	▬	█	█	▬	▬
3.4 Effective emergency response services	█	█	▬	█	█	▬	▬
4.1 Local community support	█	█	▬	▬	█	▬	▬
4.2 Cohesive communities	█	█	▬	▬	█	▬	▬
4.3 Strong city-wide identity & culture	█	█	▬	▬	█	▬	▬
4.4 Actively engaged citizens	█	█	▬	▬	█	▬	▬
5.1 Effective systems to deter crime	█	█	▬	▬	█	▬	▬
5.2 Proactive corruption prevention	█	█	▬	▬	█	▬	▬
5.3 Competent policing	█	█	▬	▬	█	▬	▬
5.4 Accessible criminal and civil justice	█	█	▬	▬	█	▬	▬
6.1 Well-managed public finances	█	█	▬	▬	█	▬	▬
6.2 Comprehensive business continuity planning	█	█	▬	▬	█	▬	▬
6.3 Diverse economic base	█	█	▬	▬	█	▬	▬
6.4 Attractive business environment	█	█	▬	▬	█	▬	▬
6.5 Strong integration with regional & global economies	█	█	▬	▬	█	▬	▬
7.1 Comprehensive hazard and exposure mapping	█	█	▬	▬	█	▬	▬
7.2 Appropriate codes, standards & enforcement	█	█	▬	▬	█	▬	▬
7.3 Effectively managed protective ecosystems	█	█	▬	▬	█	▬	▬
7.4 Robust protective infrastructure	█	█	▬	▬	█	▬	▬
8.1 Effective stewardship of ecosystems	█	█	▬	▬	█	▬	▬
8.2 Flexible infrastructure services	█	█	▬	▬	█	▬	▬
8.3. Retained spare capacity	█	█	▬	▬	█	▬	▬
8.4 Diligent maintenance & continuity	█	█	▬	▬	█	▬	▬
8.5 Adequate continuity for critical assets & services	█	█	▬	▬	█	▬	▬
9.1 Diverse and affordable transport networks	█	█	▬	▬	█	▬	▬
9.2 Effective transport operation & maintenance	█	█	▬	▬	█	▬	▬
9.3 Reliable communications technology	█	█	▬	▬	█	▬	▬
9.4 Secure technology networks	█	█	▬	▬	█	▬	▬
10.1 Appropriate government decision-making	█	█	▬	▬	█	▬	▬
10.2 Effective co-ordination with other government bodies	█	█	▬	▬	█	▬	▬
10.3 Proactive multi-stakeholder collaboration	█	█	▬	▬	█	▬	▬
10.4 Comprehensive hazard monitoring and risk assessment	█	█	▬	▬	█	▬	▬
10.5 Comprehensive government emergency management	█	█	▬	▬	█	▬	▬
11.1 Adequate education for all	█	█	▬	▬	█	▬	▬
11.2 Widespread community awareness & preparedness	█	█	▬	▬	█	▬	▬
11.3 Effective mechanisms for communities to engage with government	█	█	▬	▬	█	▬	▬
12.1 Comprehensive city monitoring & data management	█	█	▬	▬	█	▬	▬
12.2 Consultative planning process	█	█	▬	▬	█	▬	▬
12.3 Appropriate land use and zoning	█	█	▬	▬	█	▬	▬
12.4 Robust planning approval process	█	█	▬	▬	█	▬	▬



© Arup

"Resilience is based on the shifting relationship between scales, and between autonomy on the one hand and connectivity on the other."

Allan, P. & Bryant, M. (2011) 'Resilience as a framework for urbanism and recovery'. Journal of Landscape Architecture 6(2), p. 43



ECODISTRICTS

1,529

PROTOCOL
DOWLOADS

ACROSS

47

COUNTRIES

149

NEW
AMBASSADORS
+ MEMBERS

\$1 MM

RAISED FROM MEMBERS,
DONORS, SPONSORS +
FOUNDATIONS

48

CONVENING
SCHOLARSHIPS
AWARDED

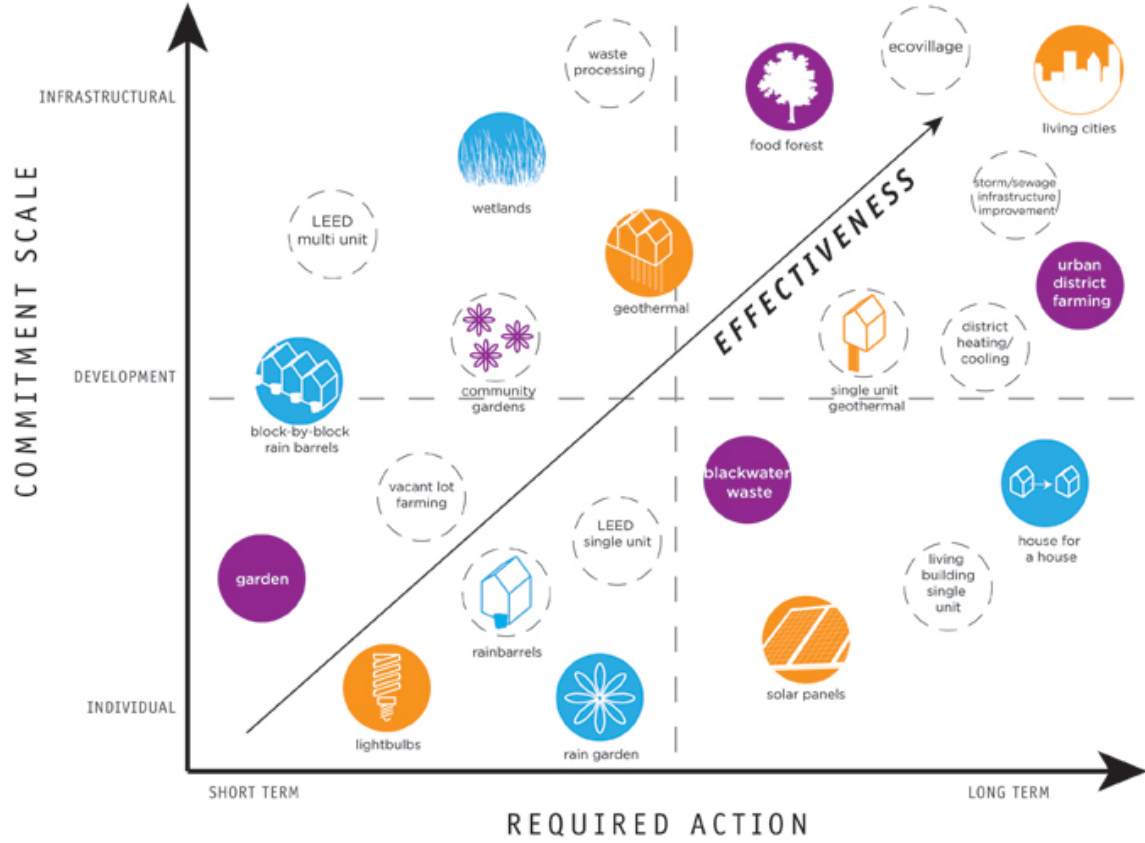
91%

OF ATTENDEES RATE
OUR CONVENINGS
AS EXCEPTIONAL
OR VERY GOOD





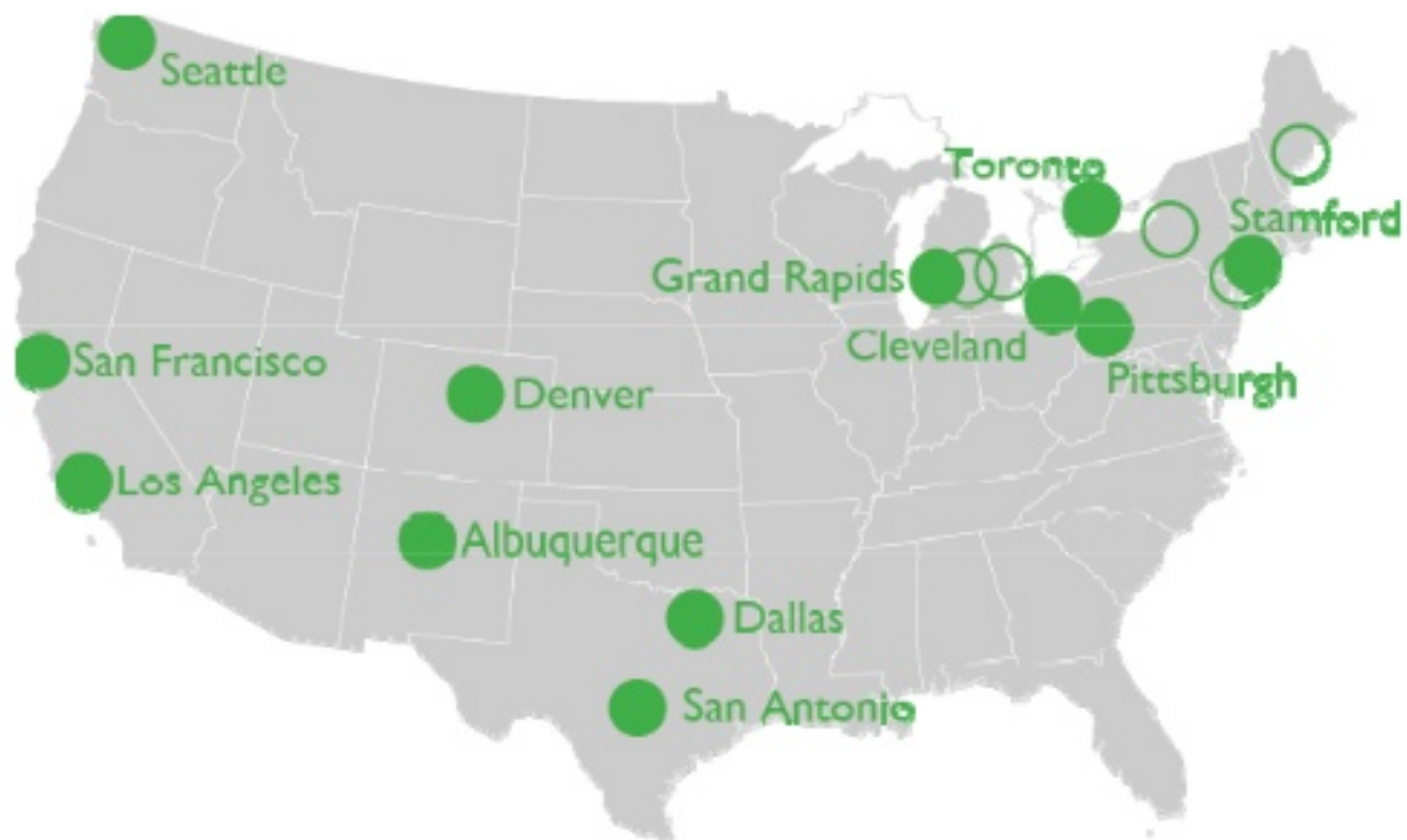
ECO-DISTRICTS SCALE + ACTION



2030

DISTRICTS[®]

NETWORK



● Established 2030 District ○ Emerging 2030 District

74.3% OF THE DISTRICT
COMMITTED

506
BUILDINGS
COMMITTED

81.7M SQUARE
FEET

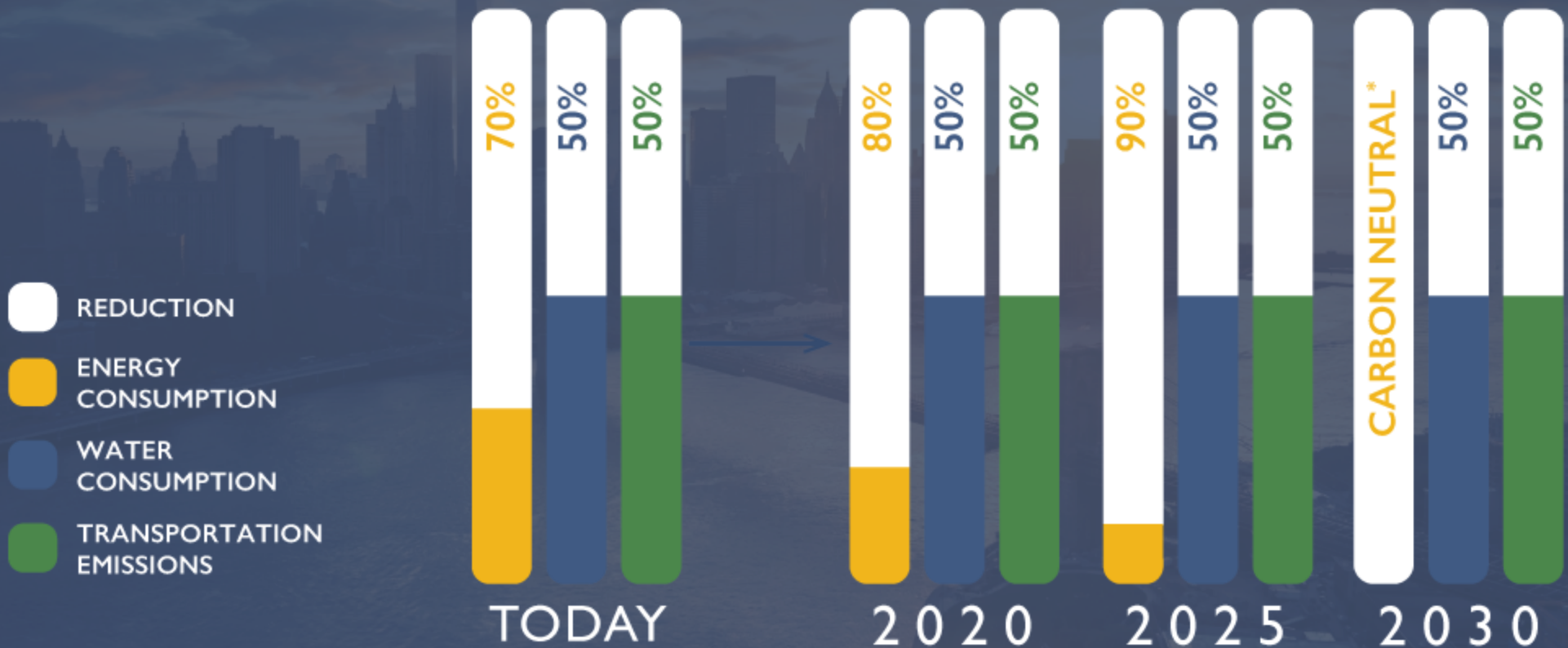
102 PROPERTY
PARTNERS

COMMITTED
COMMITTED UNBUILT



THE 2030 CHALLENGE FOR PLANNING

NEW CONSTRUCTION & MAJOR RENOVATIONS

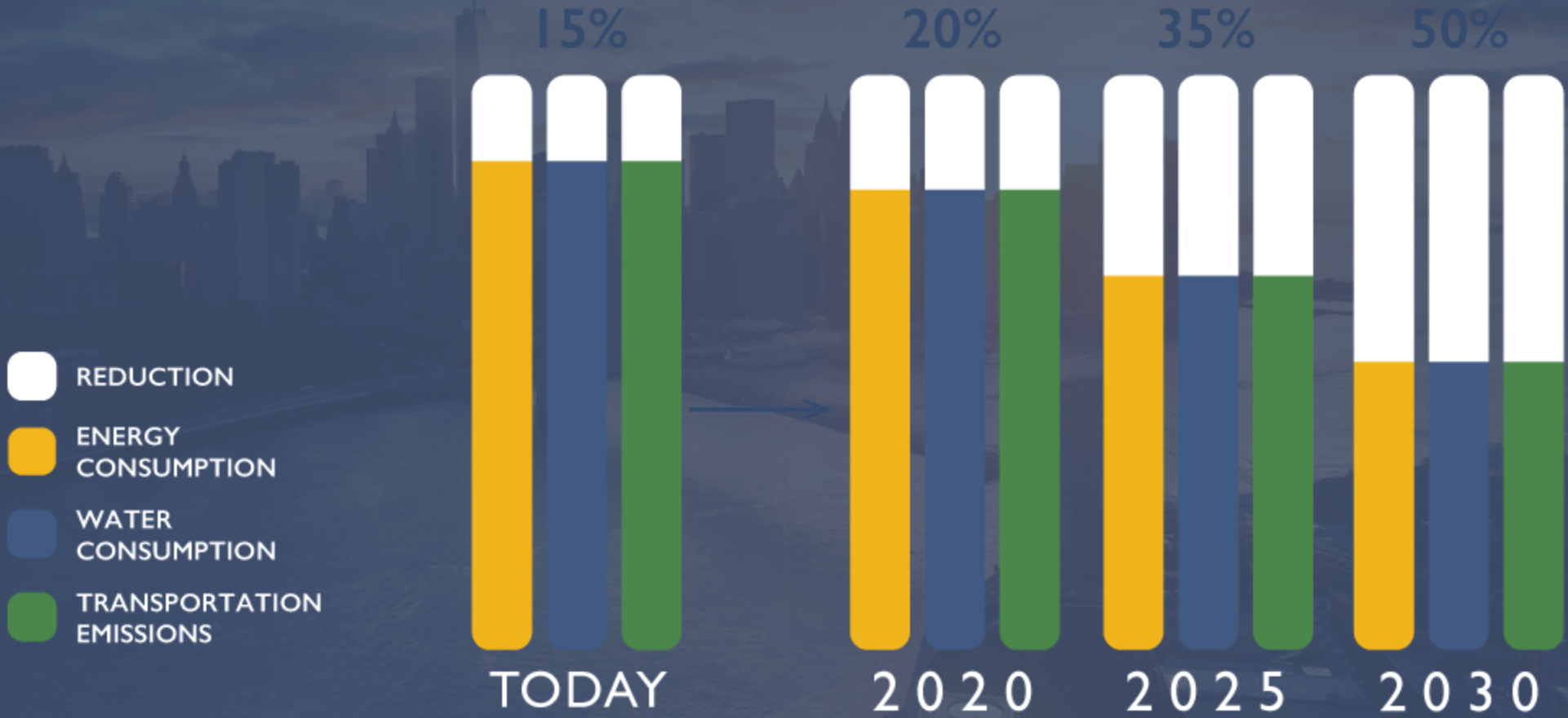


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*Using no fossil fuel GHG-emitting energy to operate.

THE 2030 CHALLENGE FOR PLANNING

EXISTING BUILDINGS



Themes – Beyond Geometry

1. Sustainability more than efficiency and conservation
2. Resiliency + Health
3. Strategies + Evidence-based Design
4. Design + Construction + Operations
5. Community Input
6. Engagement with Stakeholders + Existing Infrastructure
7. Goals-driven
8. Friendly Competition
9. Scalable Along a Spectrum of Potential and Time
10. Accountability







RURAL

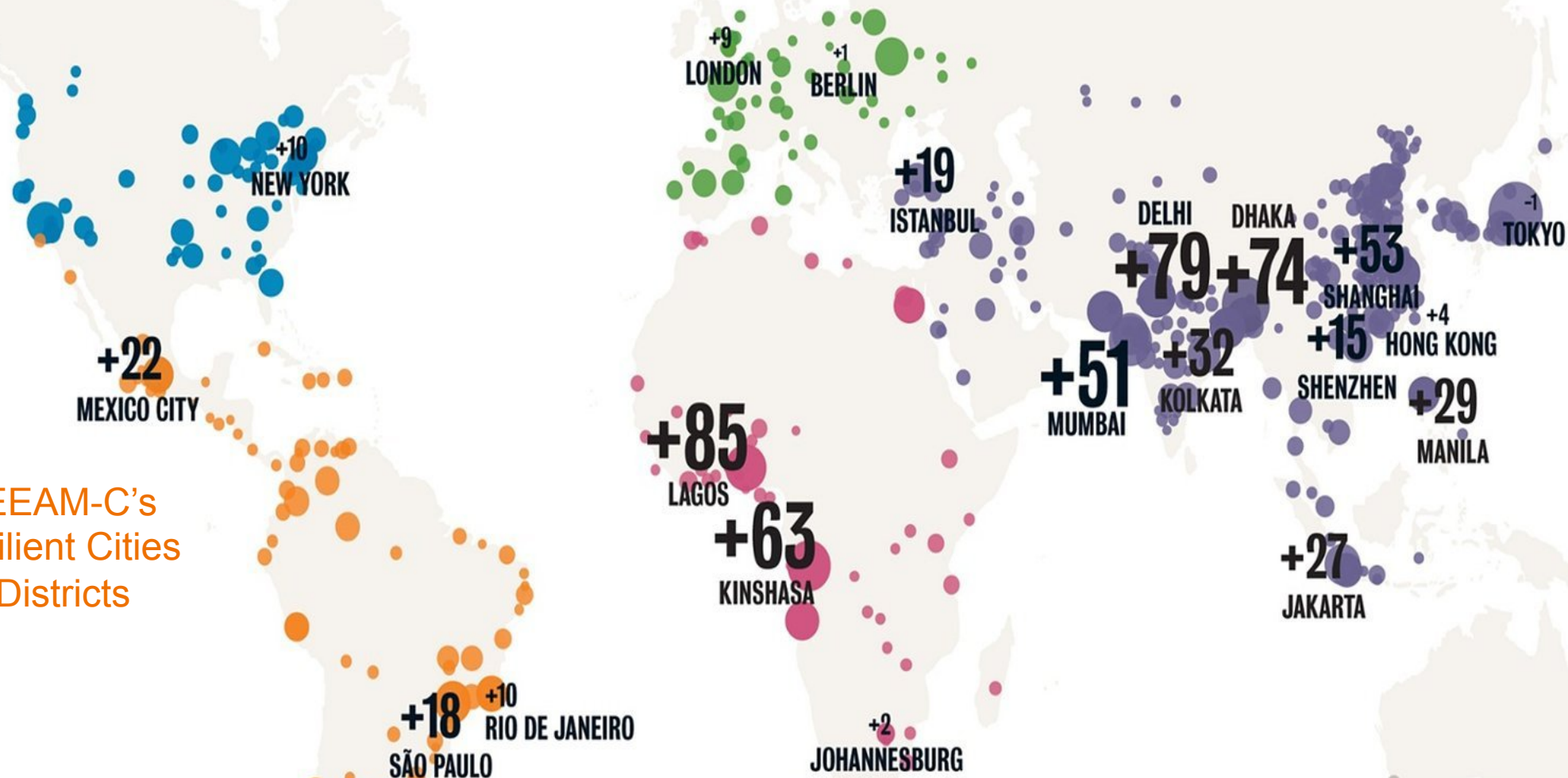
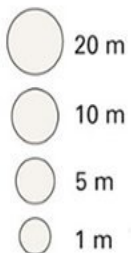



URBAN

URBAN GROWTH PER HOUR

1 of 49 BREEAM-C's
4 of 100 Resilient Cities
2 of 149 EcoDistricts

Population





Regulate Planners: Development rights over social engineering, then tightly define planning scope to access/traffic, infringements on neighbours, heritage, and pollution.

Abolish land use prescriptions: The market should allocate land uses, so more residences can come in until the right balance with work and entertainment is discovered.

Stop all vain and unproductive attempts at "milieu protection"

Abolish prescriptive housing standards: Planners and politicians should stay away from housing standards. Here too the market has the best chance to discover the most useful, productive and life/prosperity-enhancing mix. They protect nobody and eliminate choice. All subsidized goods are oversupplied and thus partially wasted.

Abolish social & affordable housing: No more imposition of affordable housing quotas, phase out and privatise all council housing, phase out the housing benefit system (substitute with monetary support without specific purpose allocation).

Abolish government home ownership subsidies: This distorts real housing preferences and biases against mobility.

Abolish rent control & tenancy regulation: Allow free contracting on tenancy terms and let a thousand flowers bloom, creating a dense, urban fabric that delivers stimulating urbanity our post-Fordist society desires.

Privatise streets, public spaces and possibly whole urban districts



