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Presenter: Tania Lim
Associate Human Settlements Officer
Urban Infrastructure | Inclusive and Innovative Cities

Inclusivity, Transitions to Frontier Technologies and The New Urban Agenda: No City Left Behind

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Source: Tong, Micke. *The Future of Cities Aspirations*. 9 June 2015. *What the Future of Cities Can Learn from Ancient Cities*, Redshift by Autodesk. https://www.autodesk.com/redshift/the-future-of-cities/

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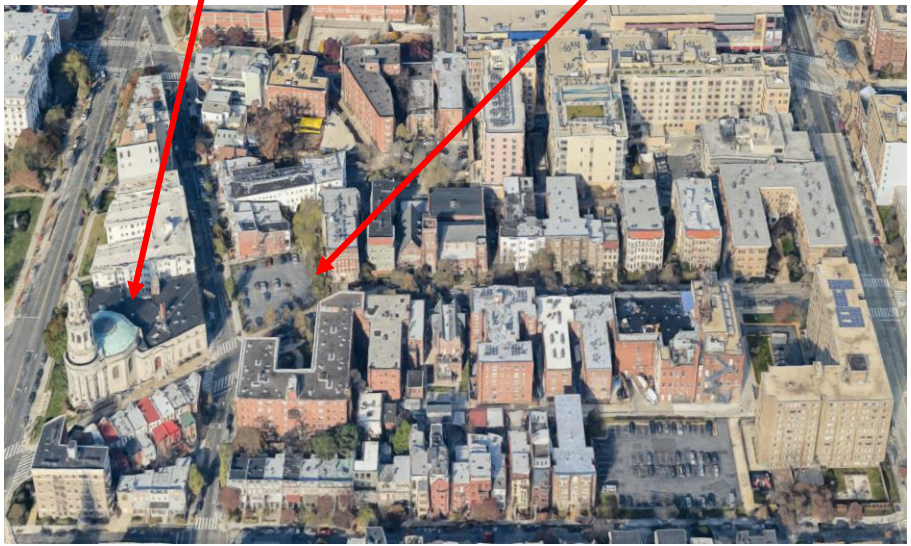
Heritage preservation

Public space



Urban Sprawl

Urban Densification

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- Point Cloud Data
- Augmented / Virtual Reality
- IOT
- LiDAR
- UAV / AV Sensing
- Visual processing
- Remote sensing
- Sentinel, Galilieo
- AI analytics
- 3D / 4D models
- Intelligent maps
- Digital Twin

Source: Automatic Acquisition of 3D City Models, GIS lounge.39 Jan 2016. https://www.gislounge.com/automatic-acquisition-of-3d-city-models/

NOW

Source: United Nations

Source: United Nations

LONG TERM FUTURE ?

SUSTAINABLE DEVELOPMENT GOALS

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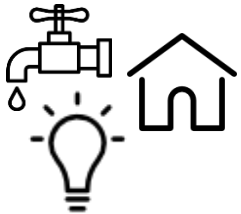
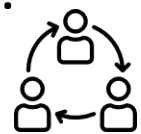
The New Urban Agenda

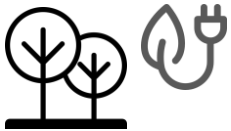
CORE PRINCIPLES



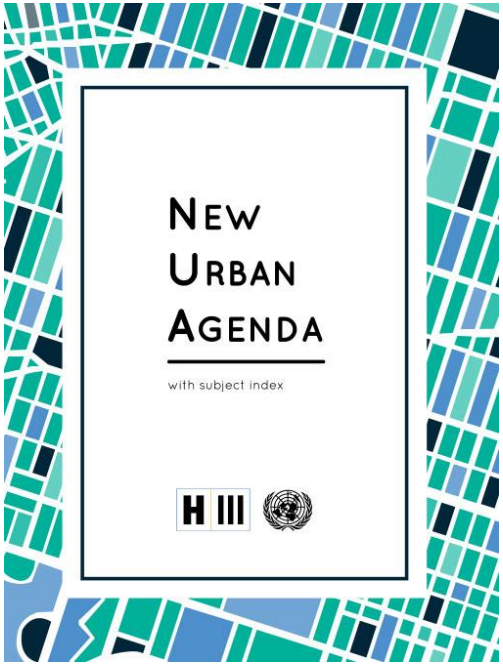
Inclusive and equitable cities: Leave no one behind

Inclusive urban economies: capital agglomeration, circularity





Inclusive environments: biodiversity, clean energy, resilience



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The New Urban Agenda

CORE VALUES

Participatory governance

People-centered

Planet protection

Prioritizing Long Term

access (56) agenda (128) appropriate (55) build (32) cities (70) commit (78) communities (39) conference (35) development (210) economic (45) effective (34) ensuring (48) general (32) governments (104) habitat (49) housing (44) human (59) iii (33) implementation (69) including (117) inclusive (51) informal (34) infrastructure (33) integrated (49) land (33) levels (50) local (135) management (47) national (122) participation (34) persons (34) planning (79) policies (75) production (34) promote (109) public (57) regional (44) relevant (40) resources (39) services (45) settlements (55) social (53) stakeholders (32) subnational (64) support (70) sustainable (178) systems (37) territorial (40) united (57) urban (348)

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4 Themes Affecting the Future of Cities

01

Economy:
Cities agglomerate 80% of the wealth of nations, but unemployment is increasing, urban-to-rural causes

02

Geography & Space:
Buildings density and occupant density, urban sprawl, height, layout, size, compact vs large

03

Environment:
-Cities produce up to 76% of emissions
-Improved connectivity can save USD3trn

04

The emergence of smart and connected cities, driven by information and communication technologies (ICT), city data movements and the field of big data

Source: Pinterest https://www.pinterest.com/pin/617767273860343714/

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Questions to think about, as standardization professionals:

Examples:

How can we measure quality of life, i.e. examples:

- Number of people with an average commuting time of 15 minutes or less
- What kind of spatial indicators can we collect?
- What kind of frontier technologies (AI, IOT, Big Data, etc) that can be adapted affordably using existing remote sensing technologies and available data to enhance city ability to collect and measure these indicators?
- How can cheaper, more affordable, low-cost measurement methodologies be proposed for cities in digital transition?