



مؤتمر عجمان
الدولي السادس للبيئة
Ajman 6th International
Environment Conference



Shaping Cities for Sustainability and Citizen Well-being

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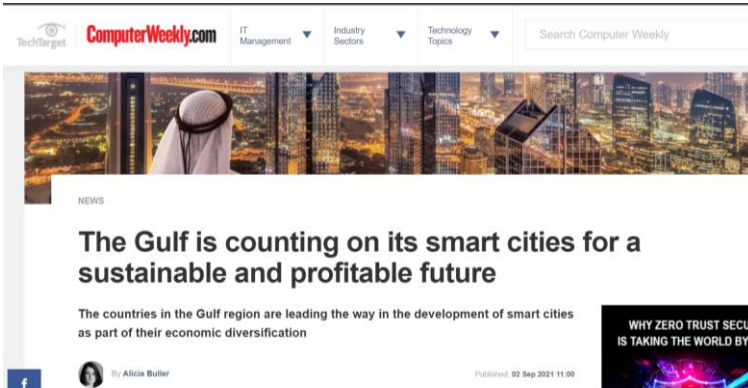
TOWARDS >>>
2071
SHAPING THE
FUTURE
FOR ENVIRONMENTAL
SUSTAINABILITY





Sustainable Development - Journey So Far

Recognition & Regulations (strategy, plan, guidelines, initiatives...)



مئوية الإمارات 2071
UAE CENTENNIAL 2071
The World's Leading Nation
أفضل دولة في العالم

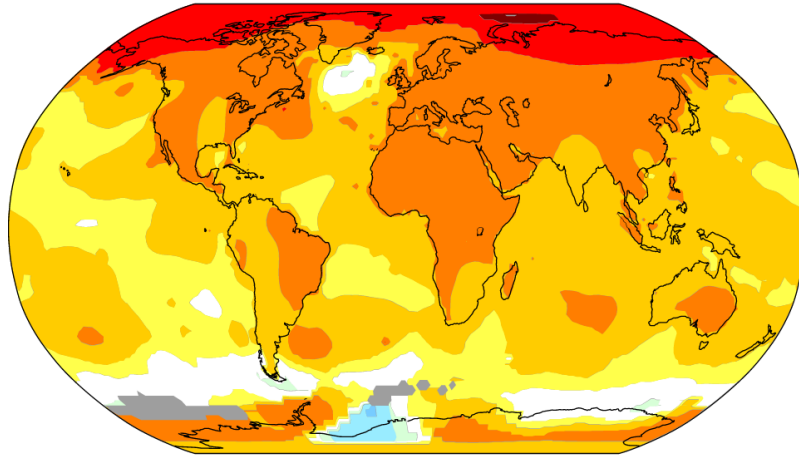


A long-term roadmap for the government work

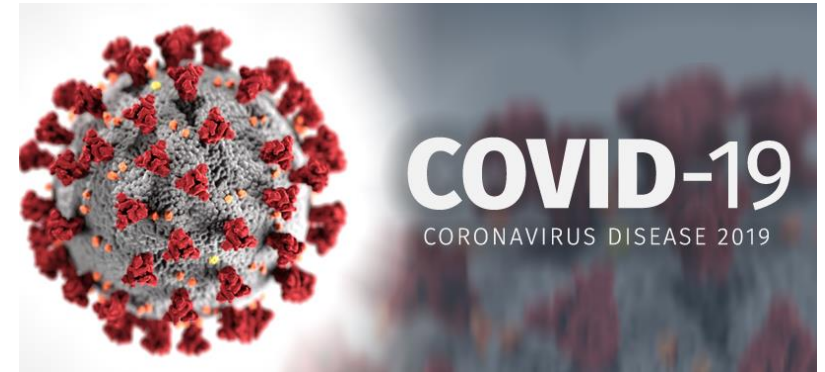
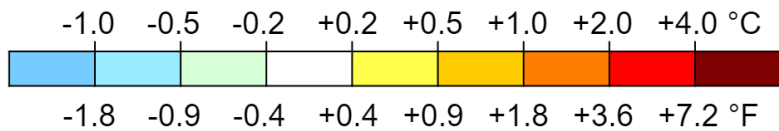
Investment in Middle Eastern smart city infrastructure raised considerably – one IDC Report says annual investments in smart city technologies reached circa \$2.3bn by the end of 2021!



Temperature change in the last 50 years



2011-2021 average vs 1956-1976 baseline



Designing Cities for Sustainability & Wellbeing- Why now?
Smart innovations, technological advancements, business models adaption

Government regulations and initiatives - Smarter, more sustainable and Resilient



SUSTAINABLE DEVELOPMENT GOALS



11 SUSTAINABLE CITIES AND COMMUNITIES

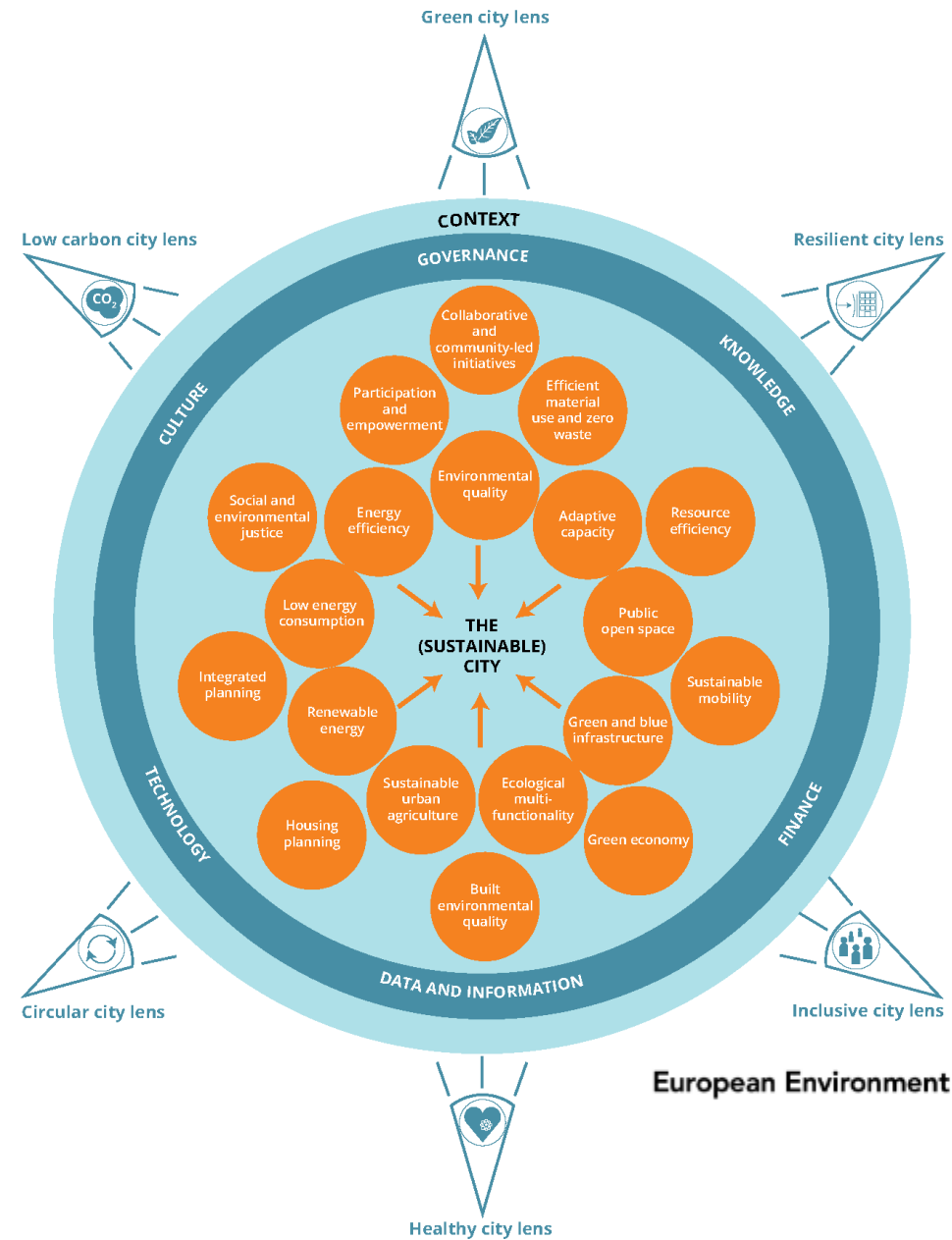
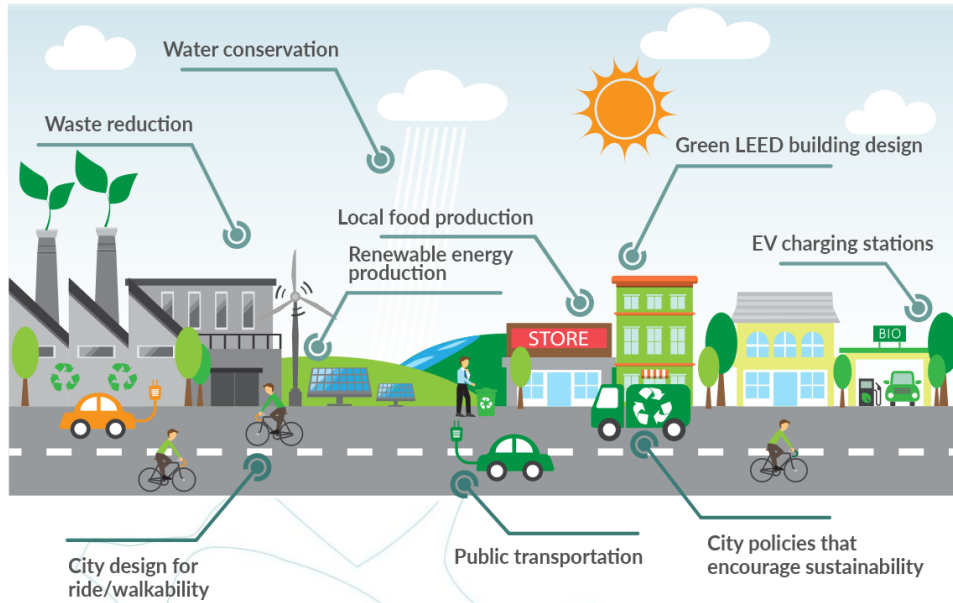


<p>TARGET 11-1</p> <p>SAFE AND AFFORDABLE HOUSING</p>	<p>TARGET 11-2</p> <p>AFFORDABLE AND SUSTAINABLE TRANSPORT SYSTEMS</p>	<p>TARGET 11-3</p> <p>INCLUSIVE AND SUSTAINABLE URBANIZATION</p>	<p>TARGET 11-4</p> <p>PROTECT THE WORLD'S CULTURAL AND NATURAL HERITAGE</p>	<p>TARGET 11-5</p> <p>REDUCE THE ADVERSE EFFECTS OF NATURAL DISASTERS</p>
<p>TARGET 11-6</p> <p>REDUCE THE ENVIRONMENTAL IMPACT OF CITIES</p>	<p>TARGET 11-A</p> <p>STRONG NATIONAL AND REGIONAL DEVELOPMENT PLANNING</p>	<p>TARGET 11-B</p> <p>IMPLEMENT POLICIES FOR INCLUSION, RESOURCE EFFICIENCY AND DISASTER RISK REDUCTION</p>	<p>TARGET 11-C</p> <p>SUPPORT LEAST DEVELOPED COUNTRIES IN SUSTAINABLE AND RESILIENT BUILDING</p>	

3 GOOD HEALTH AND WELL-BEING

<p>TARGET 3-1</p> <p>REDUCE MATERNAL MORTALITY</p>	<p>TARGET 3-2</p> <p>END ALL PREVENTABLE DEATHS UNDER 5 YEARS OF AGE</p>	<p>TARGET 3-3</p> <p>FIGHT COMMUNICABLE DISEASES</p>
<p>TARGET 3-4</p> <p>REDUCE MORTALITY FROM NON-COMMUNICABLE DISEASES AND PROMOTE MENTAL HEALTH</p>	<p>TARGET 3-5</p> <p>PREVENT AND TREAT SUBSTANCE ABUSE</p>	<p>TARGET 3-6</p> <p>REDUCE ROAD INJURIES AND DEATHS</p>
<p>TARGET 3-7</p> <p>UNIVERSAL ACCESS TO SEXUAL AND REPRODUCTIVE CARE, FAMILY PLANNING AND EDUCATION</p>	<p>TARGET 3-8</p> <p>ACHIEVE UNIVERSAL HEALTH COVERAGE</p>	<p>TARGET 3-9</p> <p>REDUCE ILLNESSES AND DEATH FROM HAZARDOUS CHEMICALS AND POLLUTION</p>

Sustainable Cities and Healthy Communities Actions for the Advancement of SDGs- *Recap*



European Environment Agency



Lenses

Enabling factors

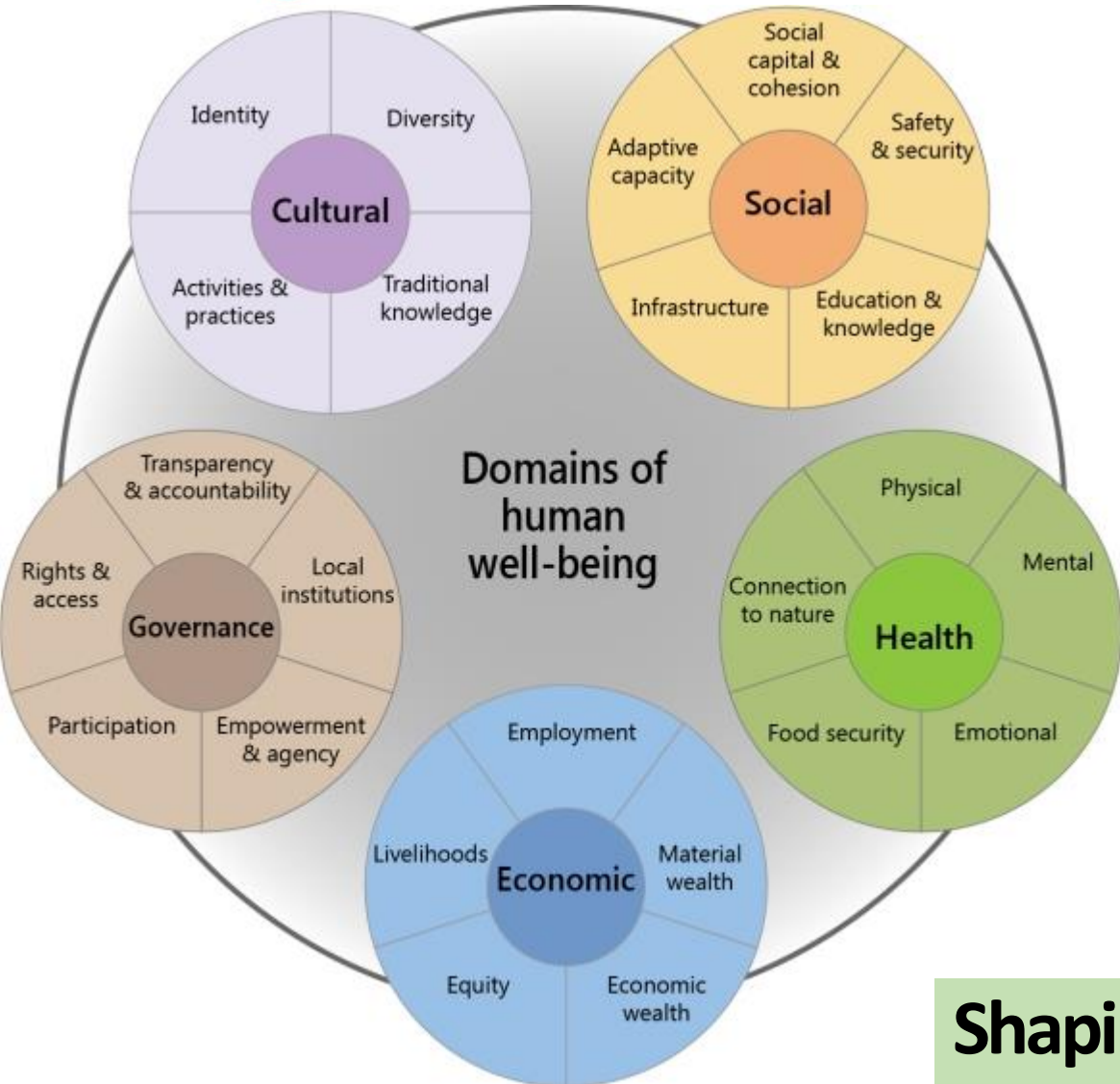
Context (the geography of a particular city as well as its urban form, infrastructure, people, institutions, etc.)

Building blocks

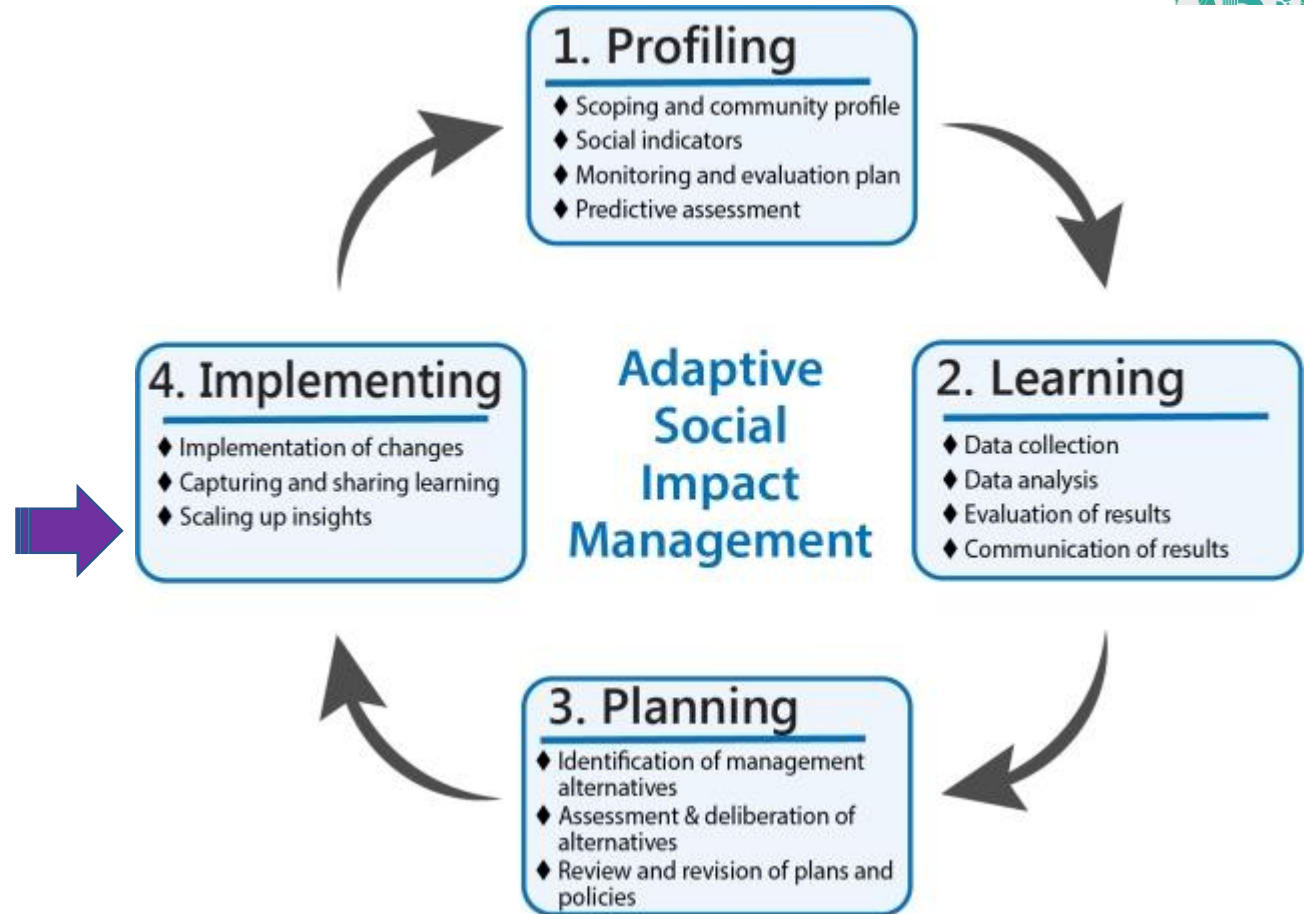
World's urban population has quadrupled since the 1950s, >4bn people live in cities today, but according to the United Nations this could be circa 7bn by 2050

Shaping Sustainable Cities- Specifically

Current Practices & Trends



human well-being | Nathan J. Bennett



Shaping Human Living / Wellbeing

A model



Smarter, More Sustainable & Resilient Cities

Transformation Initiatives



CAUTION

Tailored made approach needed
as no one size fits all

CYBER SECURITY AND PRIVACY AWARENESS

Importance of Data- Promote awareness, get prepared/ secured from cyberattacks- given the heavy reliance; IT highly integrated and interconnected. *Govern like nation, defensive ecosystem, reboot with resilience*

ADOPTING AUTOMATED PROCESSES & OPERATIONAL

Cities investing heavily in smart technologies, e.g., Artificial Intelligence, digitalization platforms- reshape delivery services, predictive analysis, incident management etc.. *Data strategy and Governance, Awareness of privacy and cultural issues*

SMART SUSTAINABLE BUILDING & INFRASTRUCTURE-CONNECTIVITY

Optimising energy consumption & resources (buildgs & utilities) management; environment-friendly by design; *vision/ technology guidelines- a road map*

HEALTH CARE ECO-SYSTEMS (POST-PANDEMIC PRIORITY)

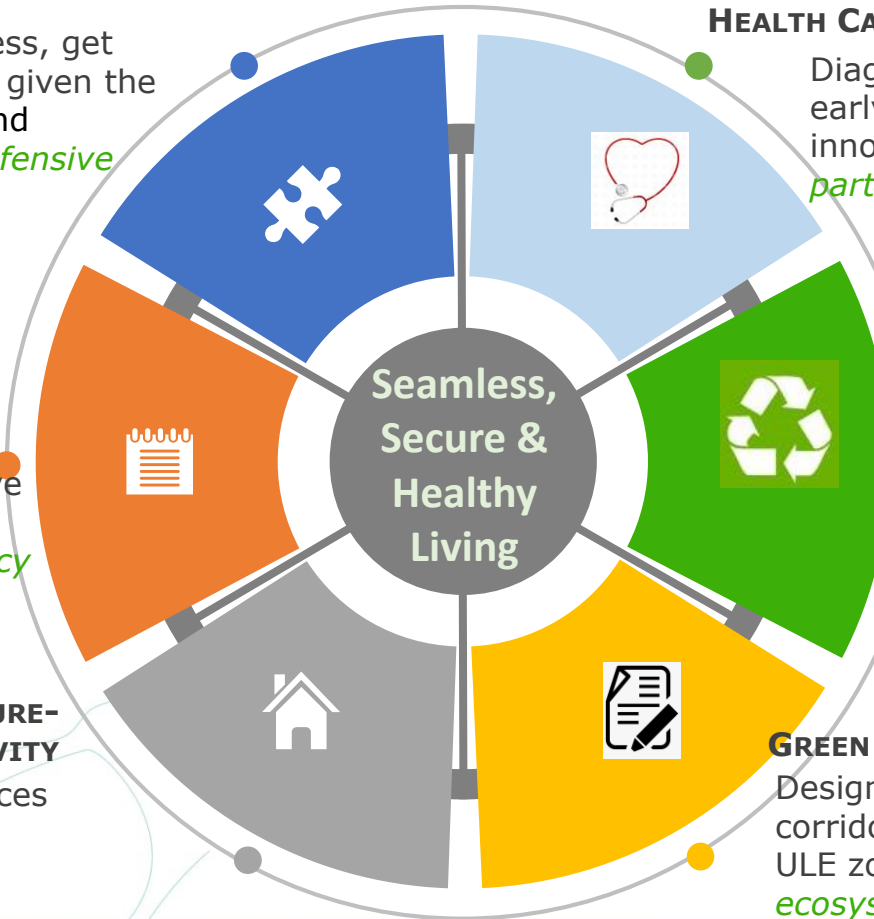
Diagnosing and treating, but also well-being through early intervention, prevention through integration of innovations (digitalization) , *public/ private partnerships, policies & incentives,*

CIRCULAR ECONOMY

Optimizing circulation of resources- efficient & effective consumption & use, Recovery & waste management- reuse and recycling ; *Nurtures a sharing mindset, regional policies*

GREEN PLANNING- DELIVERING DECARBONISATION AGENDA

Design and plan achieve ecosystem resilience- green corridors- Bus/ walking/ cycling routes, congestion-ULE zone, Green public spaces ; *Robust engagement ecosystem- civic contribution*





Smarter, More Sustainable & Resilient Cities

Drivers & Barriers to Advancement

Sustainability, Economic growth,
Social change, and Citizen well-being

1. Partnerships and ecosystems

How cities work with citizens, businesses, universities, NGOs, and others to achieve the SDGs.



2. Finance and business models

Financing and business models that cities use to pay for needed investments.



3. Digital technology

The use of digital technology to drive operational, social, environmental, and economic improvements.



4. Data management and analytics

How cities manage data and analytics to support their smart, sustainable practices.



5. Governance, leadership, and vision

How cities govern and manage their SDG programs and engage with stakeholders.

KEY BARRIERS

Social

- Lack of participation / trust
- Social awareness
- Digital divide
- Resistance to change

Economic

- High-cost living
- Competitiveness
- Quality of life (perceived)
- Attract & retain workforce

Environmental

- High level pollution
- Cost/lack of public transport
- Traffic density
- Quality of life

Governance

- Lack of vision & strategy
- Lack of capacity/ IT skills
- Organisational structures
- Poor public/private partnerships



Global Smart Cities



Hong Kong
People-centric Smart City benefits for all. New measures, IT applications, and young talents.



Singapore
Singapore's ambitious Smart Nation initiative harness technology to improve livelihoods for all.



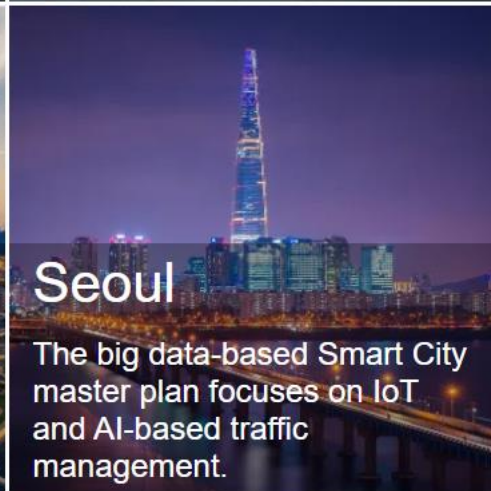
London
The Smart City roadmap of London connects data & community to be the smartest city on the World.



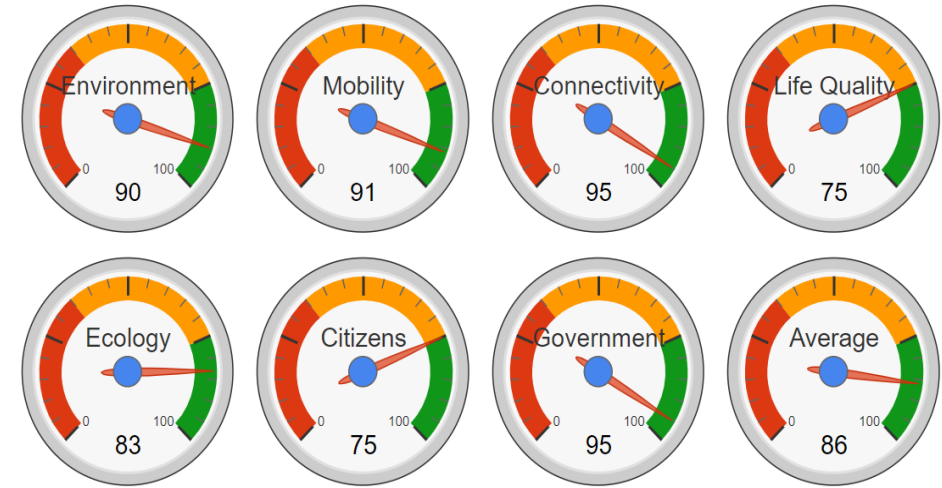
Zurich
"Smart" networking people and organizations make social, ecological, and economic value.



Dubai
The Smart City vision of Dubai is to make Dubai the happiest city on Earth over the last 40 years.



Seoul
The big data-based Smart City master plan focuses on IoT and AI-based traffic management.



RANKING CRITERIA (BROADLY)

- Technological provision
- Follow UNSDGs- strategy, policy
- Auditable data
 - Economic social growth
 - Innovation level in tech., infra & cultural development
 - Effective/ Efficient use of resources
- Smart city ecosystem



Key Stakeholders

Who can make it happen?

Governments can make laws, policies, collaborative and financial initiatives, together with guidance that leads the way in sustainable development

Businesses can change their processes to run more sustainably- adaption and integration of innovations

Researchers/ Scientists/ Entrepreneurs continue with creative development and dialogues with the key stakeholder (incl. planners) on shaping sustainable cities for climate change mitigation and citizen well-being

We can also use our voices to actively contributing into businesses and governments initiatives for quick and accelerated processes for shaping economically vibrant sustainable and resilient cities





Emirate of Ajman

Process seems already commenced....



Government Of Ajman



Municipality & Planning Department



Chairman Message

Our services are characterized by efficiency, effectiveness and easy to use and open the doors of interaction with credibility with everyone for the customer to become part of the process.

*We are **determined** to press ahead with **confident and anchored steps** to transform **Emirate of Ajman** into an event smart city.....*



H.H. Sheikh Rashid Bin Humaid Al Nuaimi

<https://www.am.gov.ae/about-us/chairman-message/>





Thank You

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