

IGEM 2020 VIRTUAL

LOW CARBON CITIES UNDER NEW NORMAL



The Shift towards Resilient Cities: Economy, Urban, Community and Tech.

AR. MUSTAPHA KAMAL ZULKARNAIN
ARKITEK MUSTAPHA KAMAL

**PREVIOUSLY PAST CHAIRPERSON OF
PAM URBAN WELLBEING SUSTAINABILITY HOUSING
ENVIRONMENTAL RESILIENCE (USHER)**

THE SPEAKER:

AR. MUSTAPHA KAMAL ZULKARNAIN

A resilient community is one that recognises that sometimes it will need to adapt to new and unexpected circumstances. The key to our collective future in relation to population growth, urbanisation, unpredictable patterns and constrained resources is pragmatism.

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Ar. Mustapha Kamal Zulkarnain, an Auckland University alumnus from the New Zealand has been practicing architecture for the past 27 years. He is a fellow member of Malaysian Institute of Architects (Pertubuhan Akitek Malaysia, PAM) and had served 6 terms as PAM Council Member 1997-2000 and 2014-2017. He still sits in various PAM Committees like the Housing and Urban Wellbeing, Media and Publications as well as the Sustainability and New Urban Agenda. He was also a devoted Rotarian. He is also heading the task force in the PAM Strategic Plan 2030 on Architecture: Cities Now and Future. His area of expertise is Urban Resilience.

He first mooted the idea of resiliency into the vocabulary of the committee Urban Wellbeing, Sustainability, Housing and Environmental Resilience (USHER) in 2014 as the Co-Chair that was in charge in preparing the report for the government of Malaysia through PAM for the Kuala Krai 2014 floods entitled Strategic Initiatives in Floods Disaster Preparedness and Mitigations for Malaysia. This report is now posted on The International Union of Architects website.

He has delivered papers and attended various conferences, symposiums and seminars that touch on resiliency. Most notably was the RIBA Conference in London entitled Designing City Resilience 2015, Urban Renewal in Singapore 2015, 2016, 2017 and also as panels for Urban Thinkers Campus (UTC) under the UN Habitat for Habitat III in Hong Kong, Bangladesh and Kuching, Malaysia as well as ASLI towards the formulation of the New Urban Agenda document previously known as “The City We Need”

He spoke at the 2017 UIA World Architects Congress in Seoul as well as at the Healthy Cities Design Summit 2017 in London Royal College of Physicians both the roles of Nature and Human in physical development symbiosis.

He was the Convener of the PAM Roundtable Discussion with Archinesia and the members of the publications communities during the 2016 Kuala Lumpur Architectural Festival (KLAF) that deals with Future Communities where the Mayor of Bandung, Pak Ridwan Kamil was the guest speaker. He too sits on the committee for KL Low Carbon Society Blueprint, KL Competitive City and also KUL Design Group in Dewan Bandaraya Kuala Lumpur (DBKL).

He was the Curator for the yearly event of the Housing and Urbanity 2017 organised by PAM which entitled ‘How New Urban Agenda Will Fulfil the Sustainable Communities Goals’.

He also currently sits in the Technical working Group headed by MITI and MEA for the formulation of the programmes in architecture for the RMK 12 through MSPC. His Paper entitled “Shared Wealth Through A Resilient Malaysia using Smart Collaboration for a Progressive Malaysia 2050” was well received by both Ministries as inspiring and timely.

‘Mimpi harus melangit, namun kaki harus membumi’. - Mayor of Bandung, Pak Ridwan Kamil

THE SHIFT TOWARDS RESILIENT CITIES, ECONOMY,
Urban, Community and Tech.

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19-23 October 2020

The Problem New Town Challenges:

RICH AND POOR GAP

ENERGY AND ENVIRONMENT

OPEN SPACE

STATUS OF WOMEN

TRANSNATIONAL ORGNIZED
CRIME

SUSTAINABLE DEVELOPMENT
AND CLIMATE CHANGE

HEALTH ISSUES

PEACE AND CONFLICT

CLEAN WATER AND FOOD

POPULATION AND
RESOURCES

DEMOCRATIZATON

SCIENCE AND TECHNOLOGY

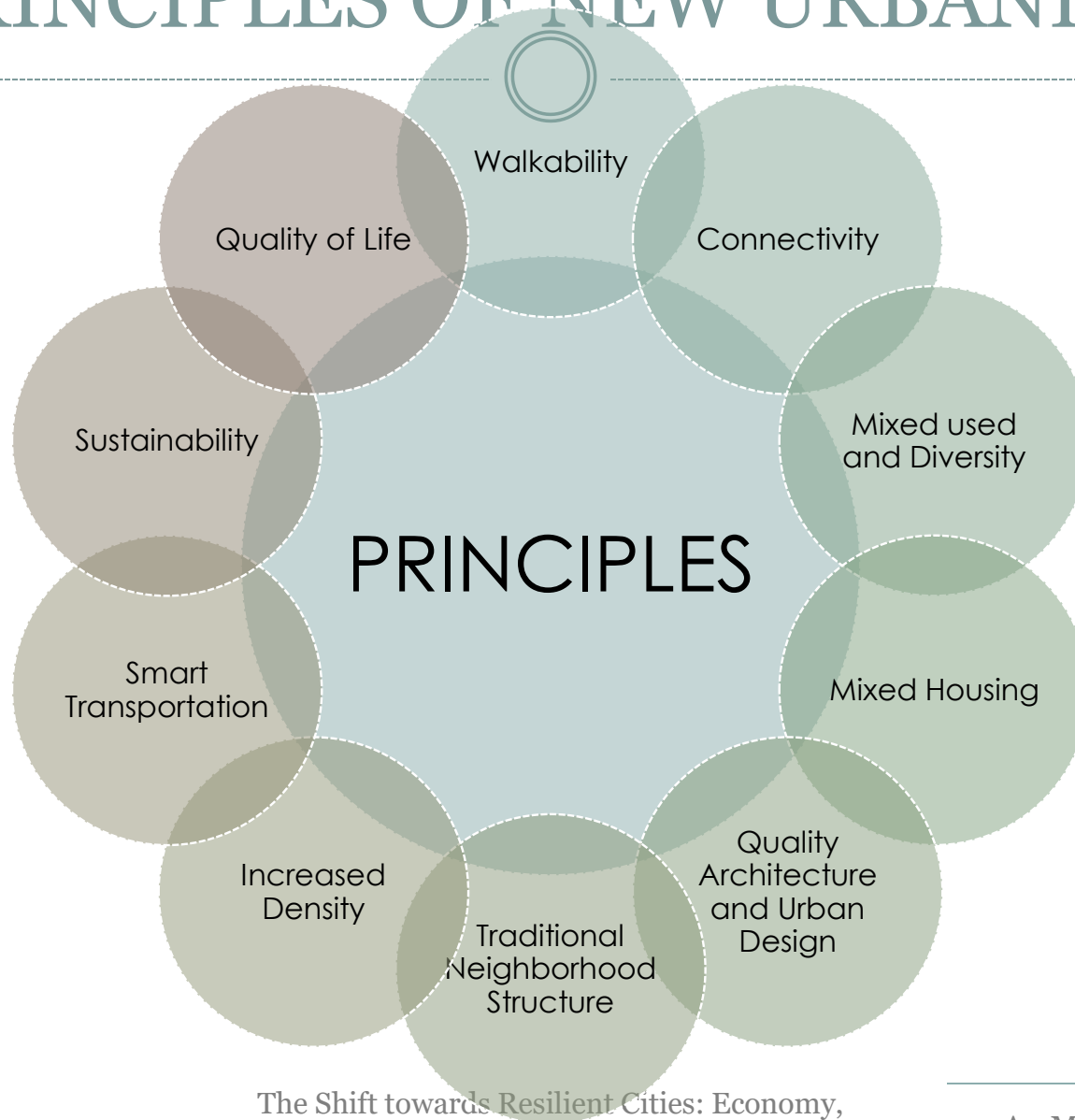
TRANSPORTATION

GLOBAL ETHICS

GLOBAL FORESIGHT AND
DECISION MAKING



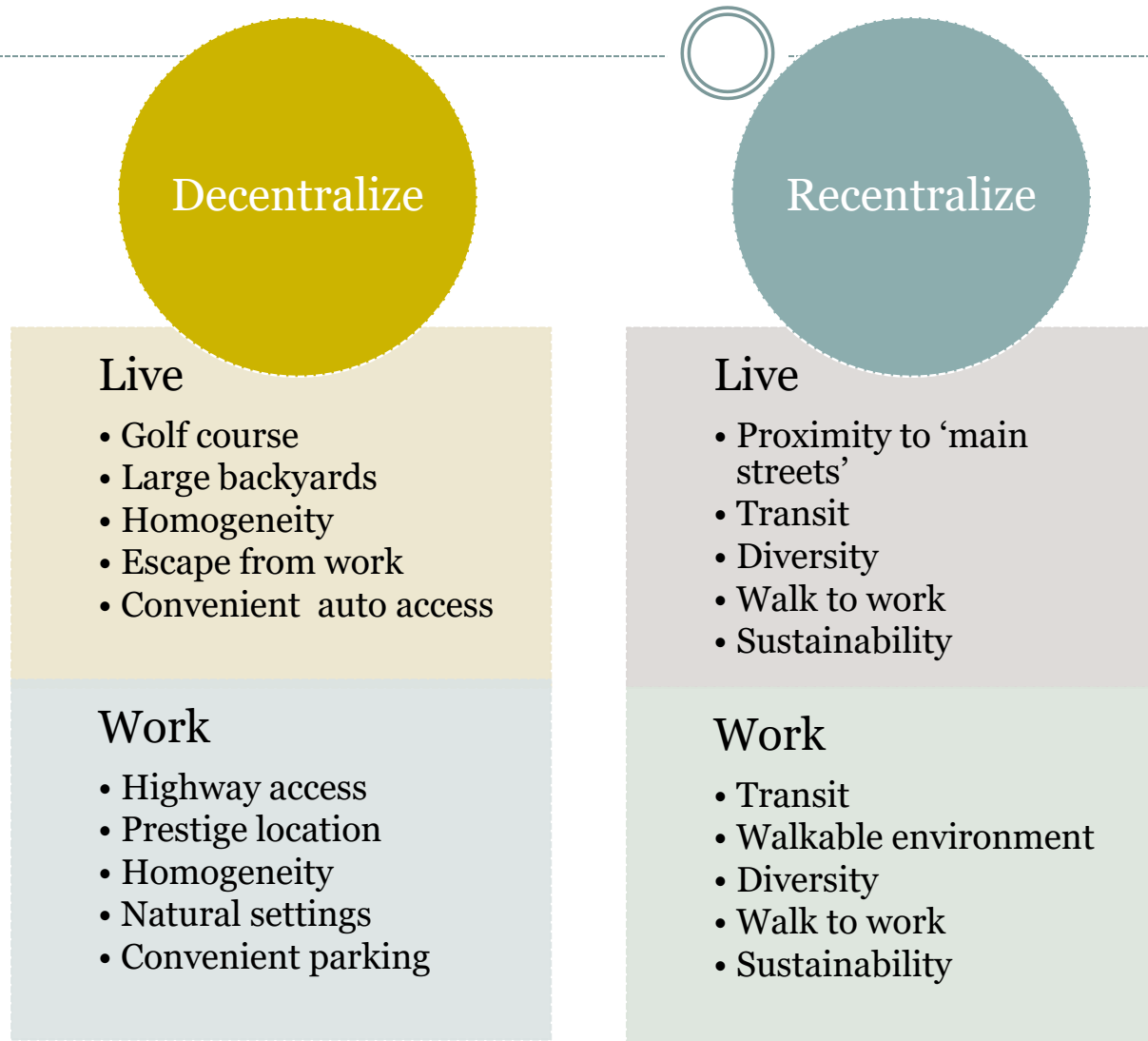
PRINCIPLES OF NEW URBANISM



The Shift towards Resilient Cities: Economy,
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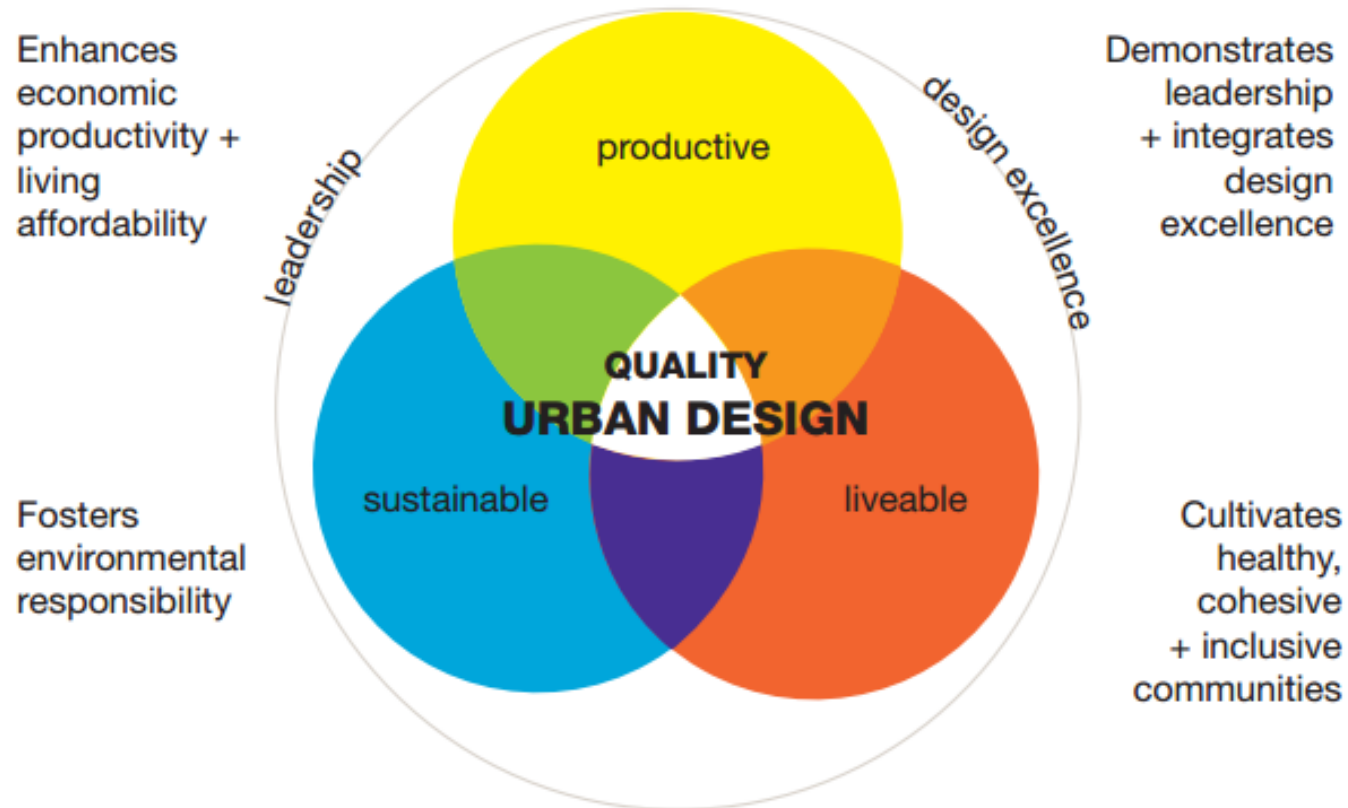
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EQUATION OF NEW URBANISM



Urban Design Protocol

To create productive, sustainable and liveable places for people through leadership and the integration of design excellence



Criteria of Liveable Cities

(ranking by the Economist Intelligence Unit)

Stability

Prevalence of petty crime
Prevalence of violent crime
Threat of terror
Threat of military conflict
Threat of civil unrest/conflict

Healthcare

Availability of private healthcare
Quality of private healthcare
Availability of public healthcare
Quality of public healthcare
Availability of over-the-counter drugs
General healthcare indicators

Culture & Environment

Humidity/temperature rating
Discomfort of climate to travellers
Level of corruption
Social or religious restrictions
Level of censorship
Sporting availability
Cultural availability
Food and drink
Consumer goods and services

Education

Availability of private education
Quality of private education
Public education indicators

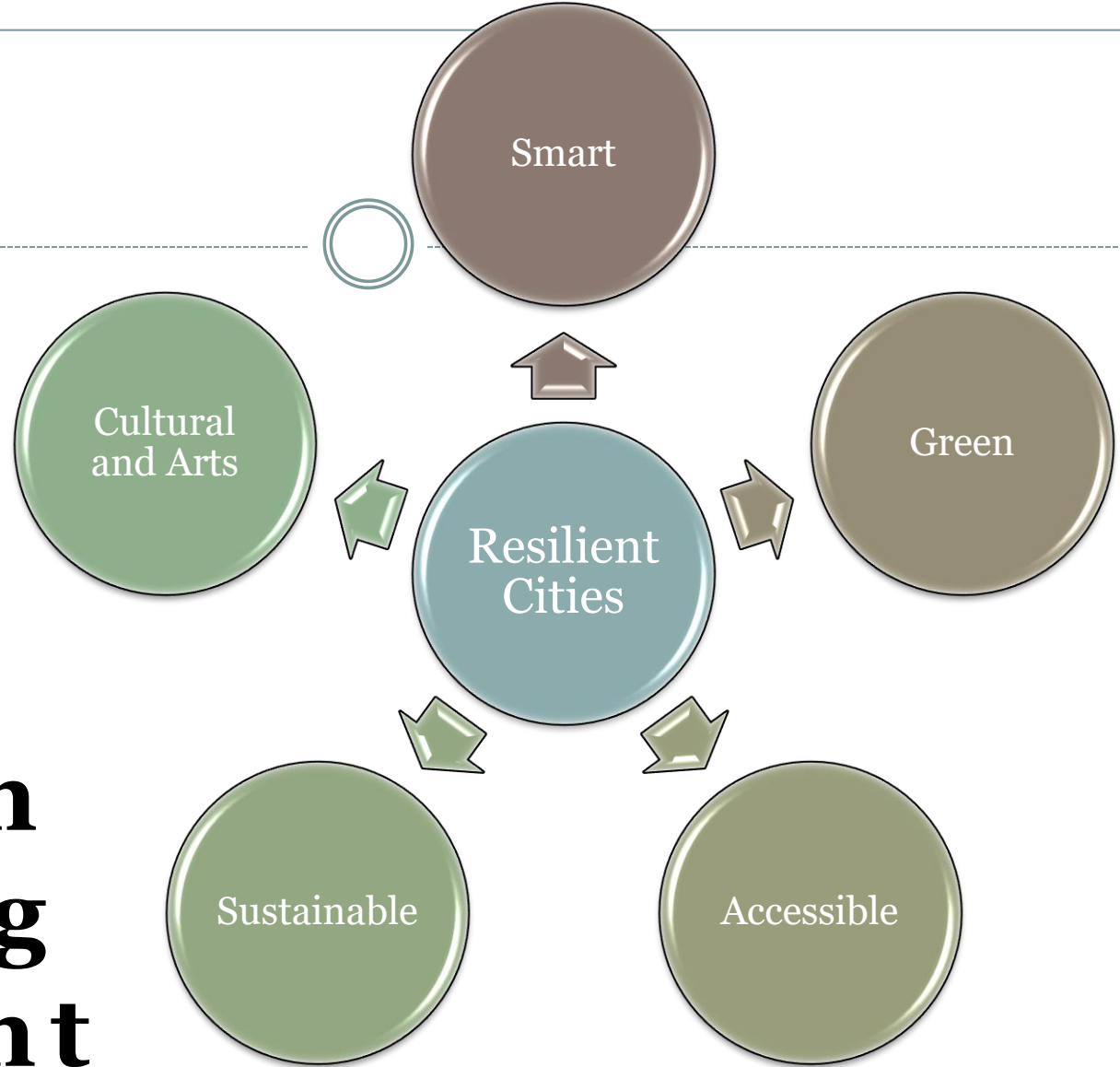
Infrastructure

Quality of road network
Quality of public transport
Quality of international links
Availability of good quality housing
Quality of energy provision
Quality of water provision
Quality of telecommunications



The challenges to be Resilient Cities..

What next in making resilient cities



Capacity

- Economic
- Population
- Identity

Limitation

- Land
- Governance
- budget



- Prioritize the activities
- Plan the best time

STRATEGIES

- Protect the assets
- Provide the growth





Plan
growth

Monitor
results

Sustainable

**Our
action**

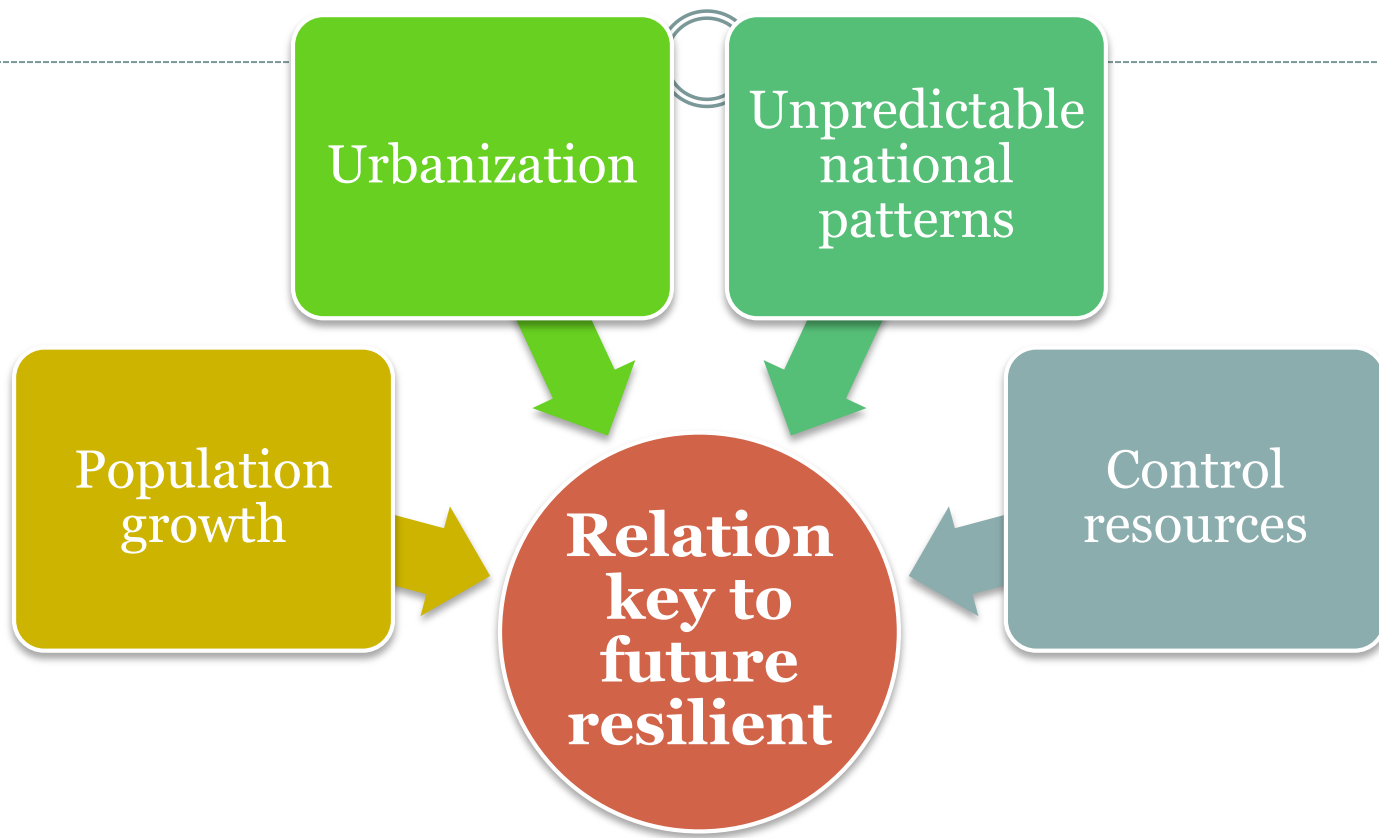


Definition of resilient

able to recoil or
spring back into
shape after
bending,
stretching, or
being
compressed

“A Resilient City is one that has developed capacities to help absorb future shocks and stresses to its social, economic, and technical systems and infrastructures so as to still be able to maintain essentially the same functions, structures, systems, and identity within short times.”

Relation key to the future resilient



8 steps to make our cities Resilient

Know your end result

Attract population

Improve community

Utilize innovation and creative technology

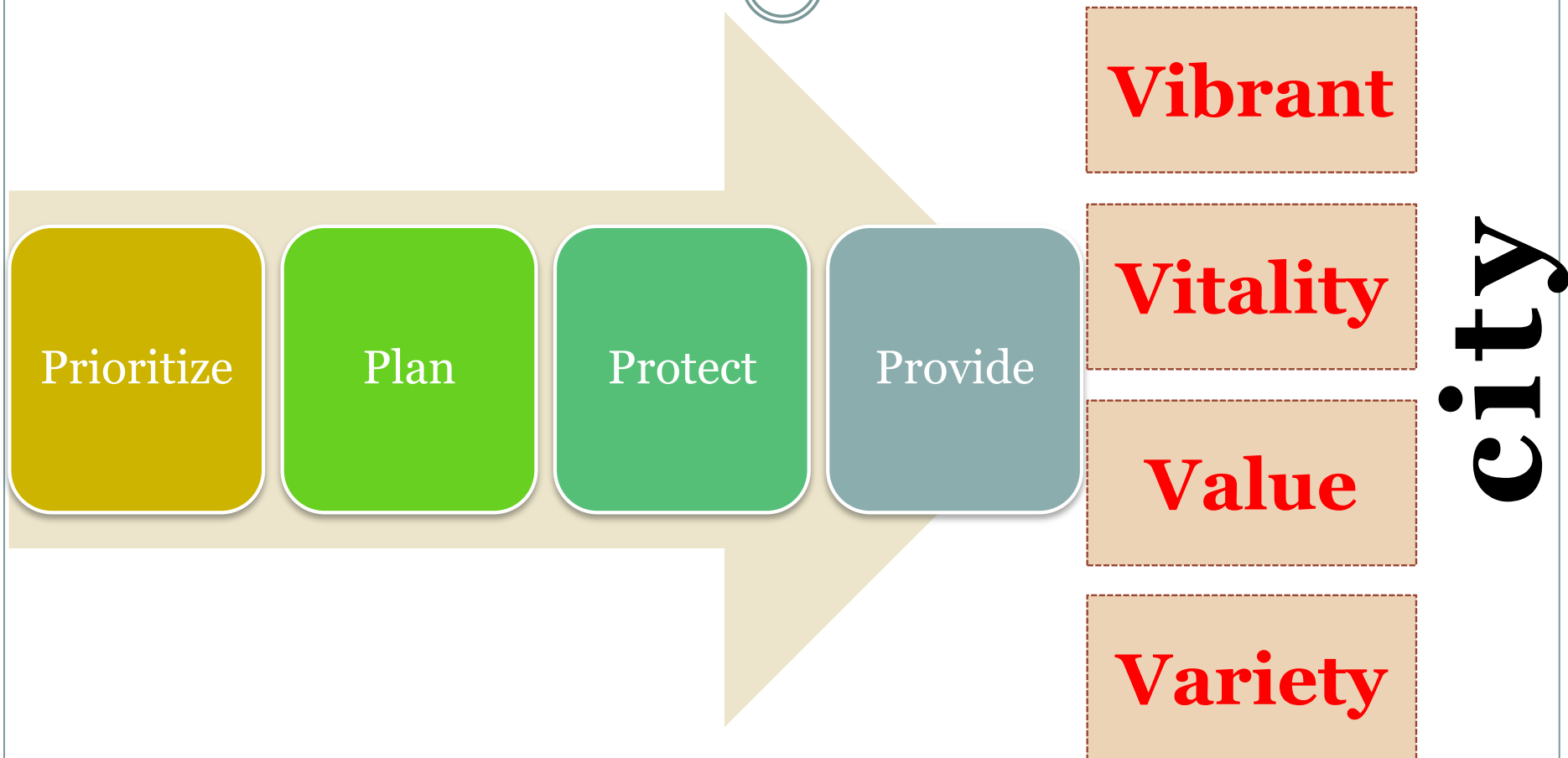
Capitalize on green sustainable initiative

**More across agencies and boundaries for both
administrative and physical**

Action

Fast completion

What to do next?



The City Resilience Framework



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Quality of City Resilience

Reflectiveness

- ability to learn from the past and act in times of crisis.

Resourcefulness

- able to recognise alternative ways to use resources at times of crisis in order to meet their needs or achieve their goals.

Robustness

- qualities that help to conceive systems and assets that can withstand shocks and stresses

Redundancy

- spare capacity purposively created to accommodate disruption due to extreme pressures

Flexibility

- willingness and ability to adopt alternative strategies in response to changing circumstances or sudden crises.

Inclusiveness

- need for broad consultation and 'many seats at the table' to create a sense of shared ownership or a joint vision to build city resilience

Integration

- processes bring together systems and institutions and can also catalyze additional benefits as resources



Q&A Sessions





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THANK YOU.

