Urban Regeneration for Climate Action

September 2021

THE ARCHITECTURAL ASSOCIATION OF KENYA

AAK | PROMOTING EXCELLENCE IN THE BUILT ENVIRONMENT

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A detailed description of urban regeneration

- Resolution of urban problems.
- Lasting improvement in the economic, physical, social and environmental conditions of an area

Urban Renewal

- 19th century
- Better housing conditions
- Social Reform – moral & economical.

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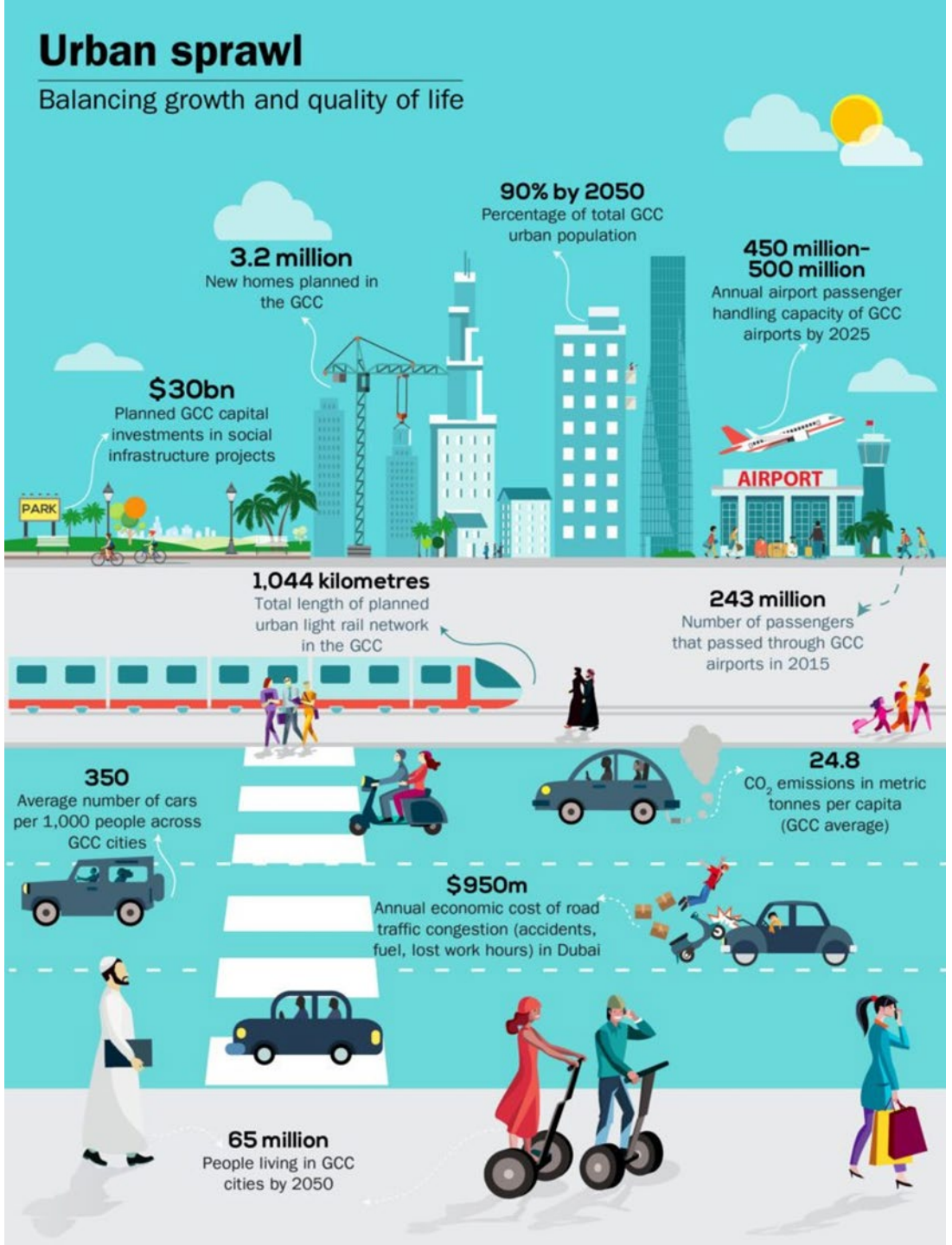
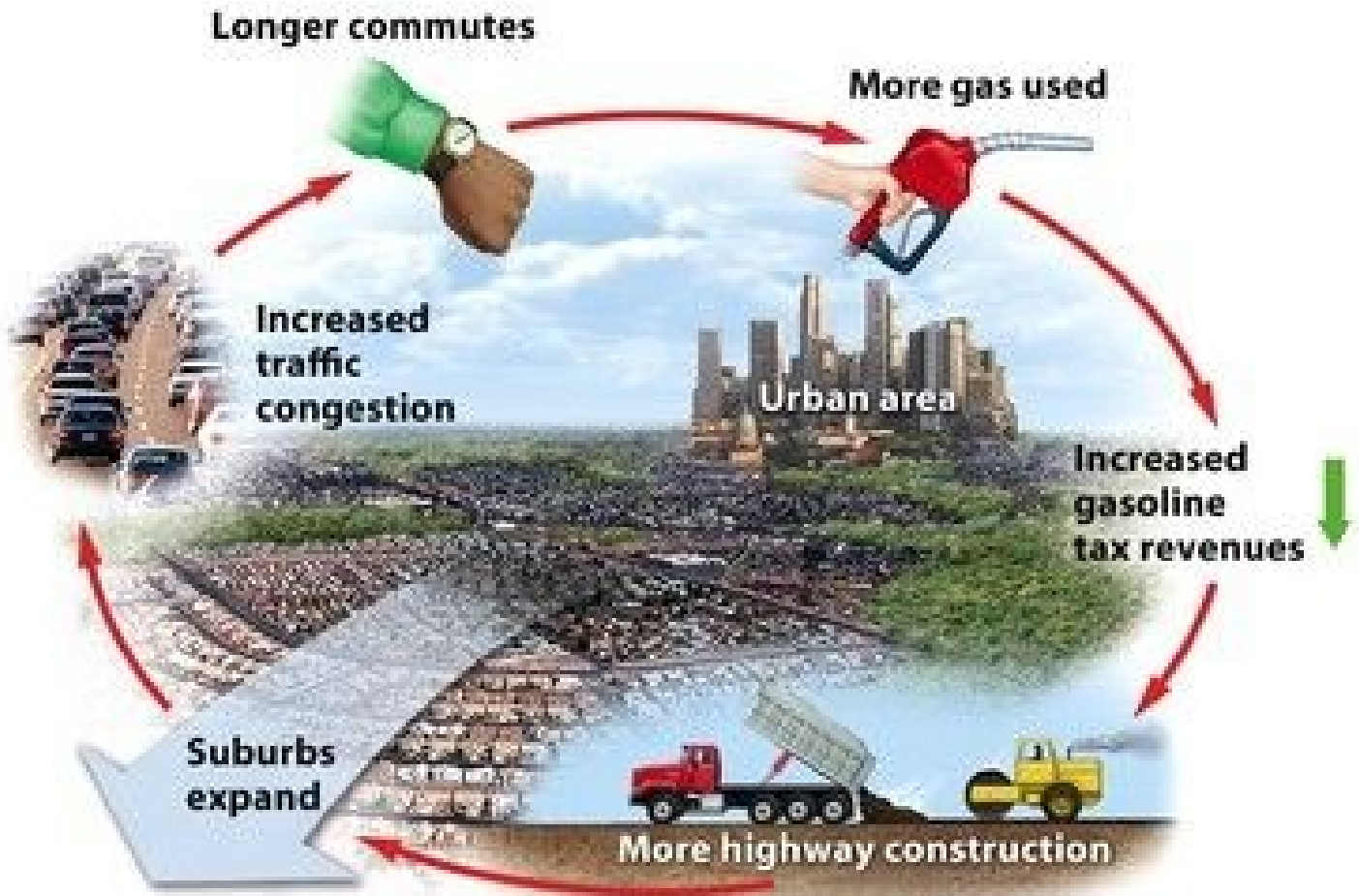
Urban Renewal

Unrestricted growth in many urban areas of housing, commercial development, and roads over large expanses of land, with little concern for urban planning



Urban Renewal



Urban Degeneration

Massive and complex migration of the population into the urban environment.

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Urban regeneration & achievement of SDGs

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Linking Urban Regeneration to Climate Change

- Urban spatial policies
- Integration between urban regeneration projects and climate policy
- Urban regeneration projects for climate change mitigation and adaptation.

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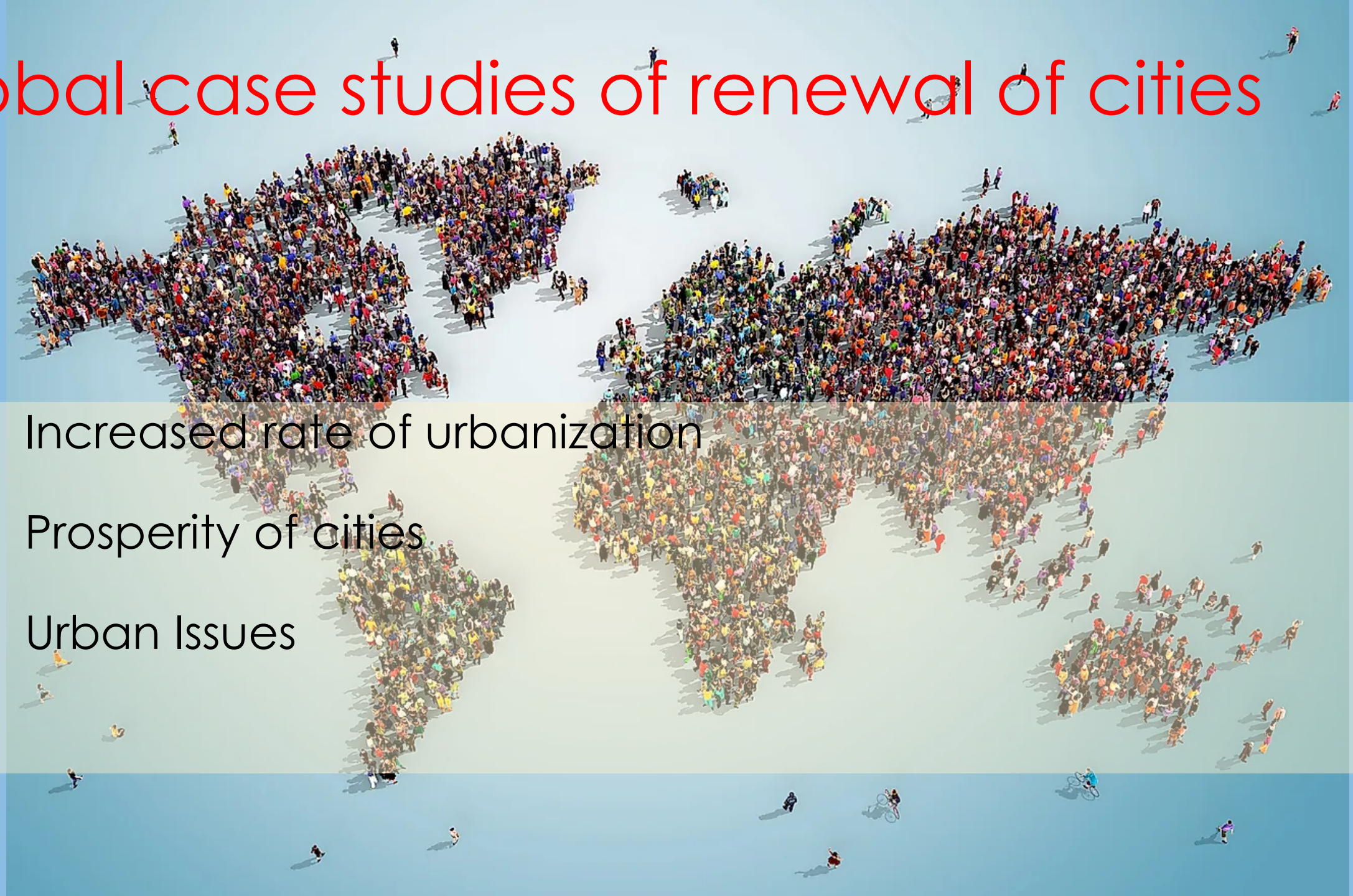
Global case studies of renewal of cities



- Increased rate of urbanization
- Prosperity of cities
- Urban Issues

Global case studies of renewal of cities

Bilbao

Barcelona

The case for urban regeneration in Africa

- Urban growth rate 11 times that of Europe
- Urban slum dwellers

The case for urban regeneration in Africa

- Urbanization in the Africa
- Challenges of urbanization

Rural - urban migration

- Inefficient land-use patterns
- Increasing urban populations
- Exacerbate poverty and inequality
- Women and children

Rural = countryside

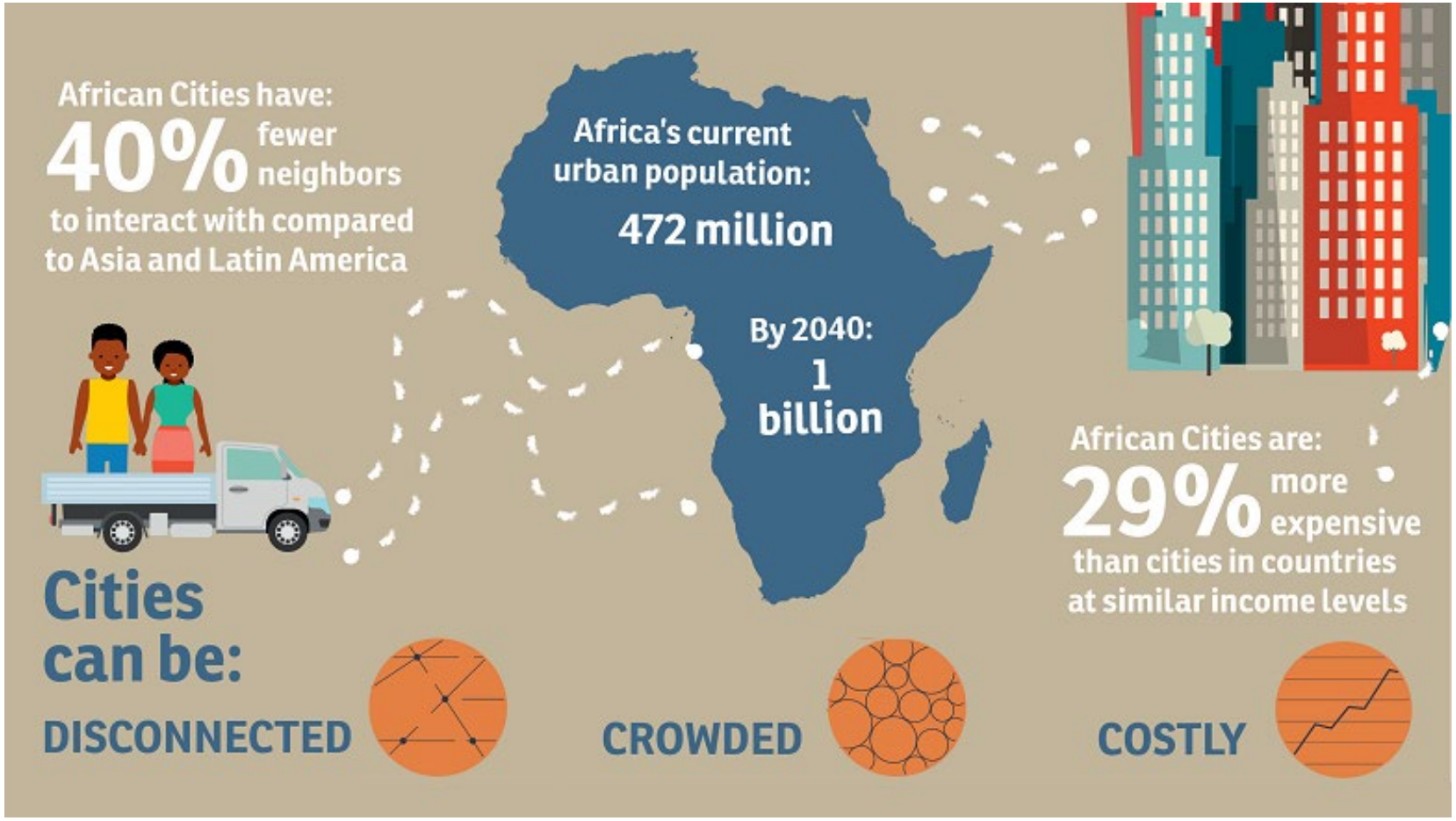
Urban = city


Egypt’s first Vertical Forest

Sustainable Cities

Actions Africa needs to take

- Urbanization as a tool for development.
- Adopt new development models designed to take advantage of urbanization



Actions Africa needs to take

What is happening in this area in Kenya.

Urban services and infrastructure issue

What is happening in this area in Kenya.

- Degeneration - Current housing and infrastructure/services

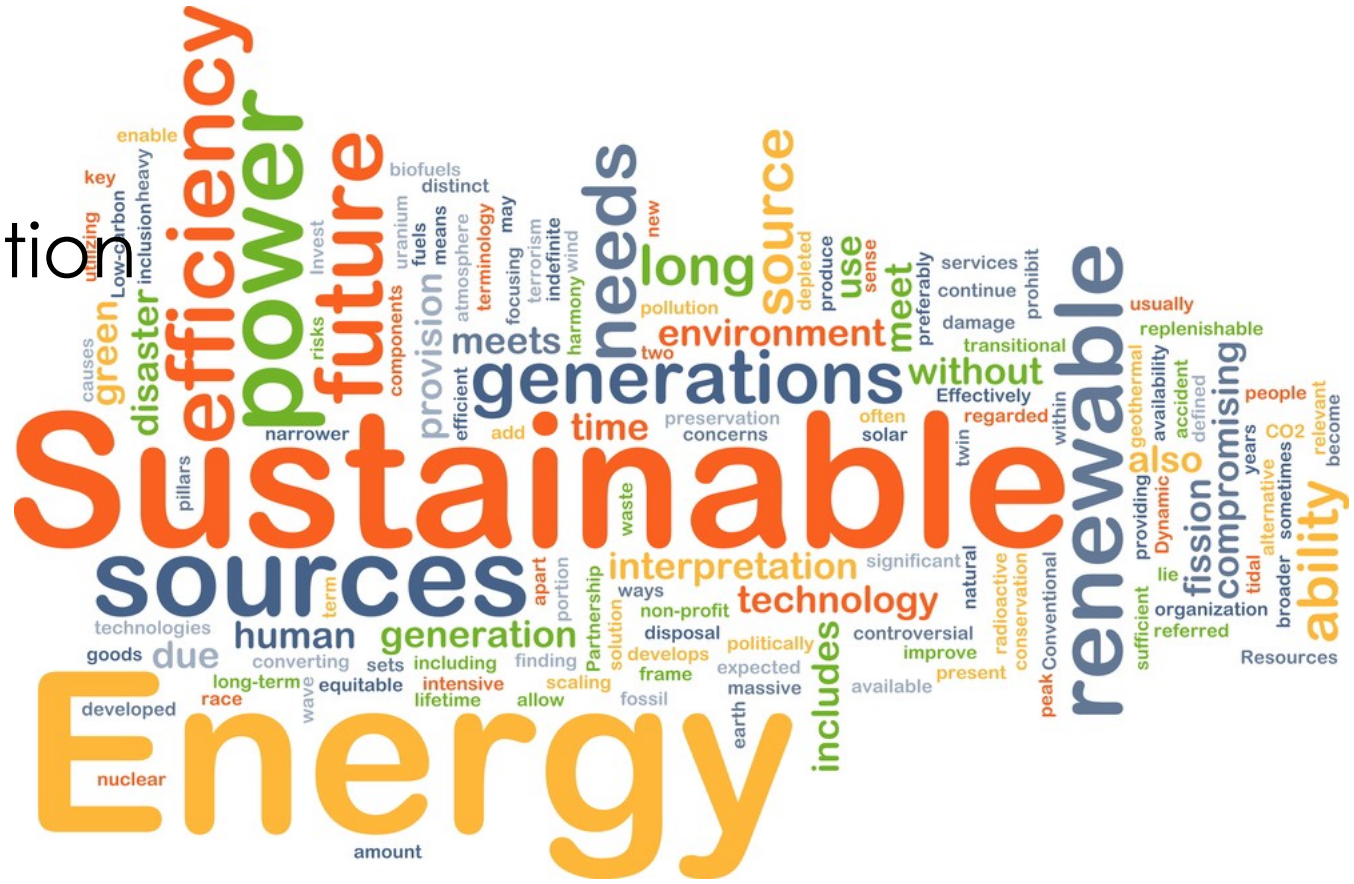
- Urban centralization and inward growth

What is happening in this area in Kenya.

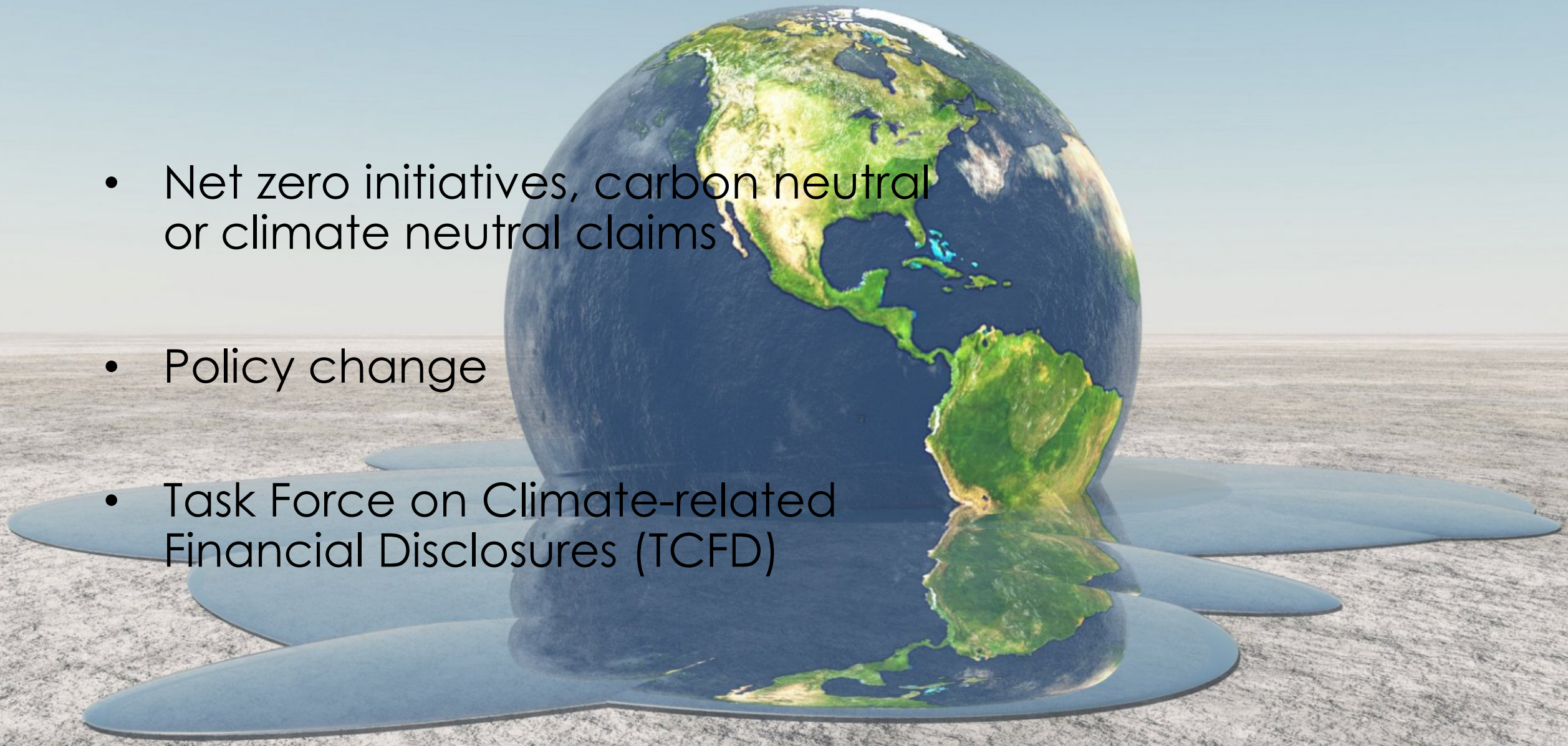
- Improve the urban services and infrastructure in Nairobi.
- World Bank Fund
- Adequate & Affordable Housing

Global Trends in Sustainable Development

1. Climate Commitments
2. Technology and Innovation
3. Renewable energy
4. Circular Economy
5. Green Investments
6. Water Efficiency
7. Green Micro grids



1. Climate Commitments



- Net zero initiatives, carbon neutral or climate neutral claims
- Policy change
- Task Force on Climate-related Financial Disclosures (TCFD)

2. Technology and Innovation

3. Renewable energy

- Lake Turkana Wind Power.
- Innovation in deal structures

4. Circular Economy

- Strategies in recycling and product life extension

- Decouple many economic activities from consumption of finite resources & cut GHG emissions

5. Green Investments

6. Water Efficiency

- Companies to be unaware of their water footprint

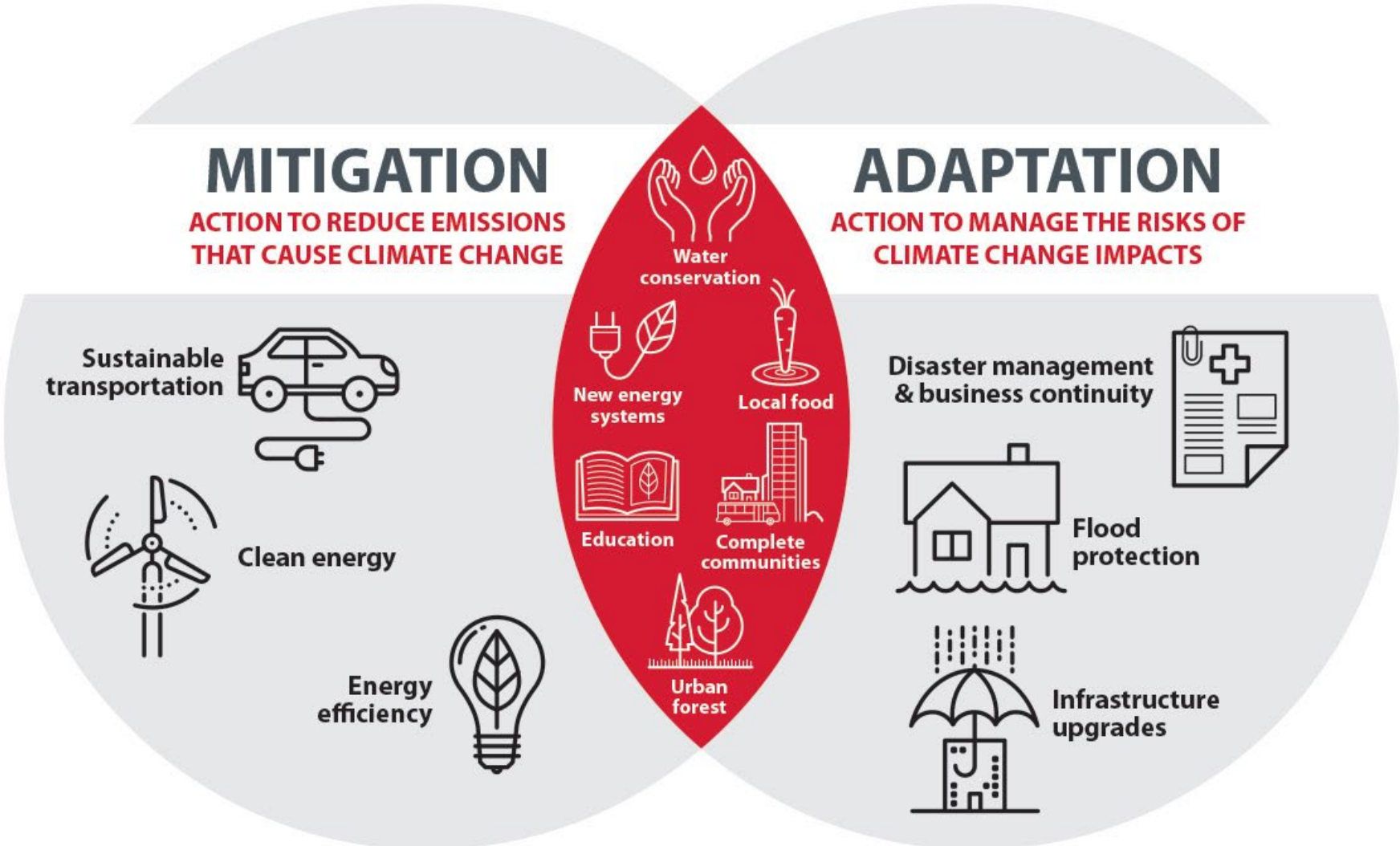
- The 2030 Water Resources Group - water resource dynamics for the Kenyan economy.

7. Green Micro grids

- Grid reliability and resilience of their physical supply infrastructure

Public Initiatives Adaptation to Climate Change

Building Climate Resilience



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Adaptation to Climate Risks

Avoid

Identify future 'no-build areas' and use planning tools to prevent new development in areas at risk now or in future

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Protect

Use hard structures (eg sea walls) or soft solutions (eg dunes and vegetation) to protect land from the sea. May be prohibitively expensive, especially in the long term

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Accommodate

Continue to use the land but accommodate changes by building on piles, converting agriculture to fish farming or growing flood- or salt-tolerant crops

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Retreat

Withdraw, relocate or abandon assets that are at risk; ecosystems are allowed to retreat landward as sea levels rise

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1.Retreating

2. Protection

- Includes both hard & soft measures

3. Accommodation

- Adapting the transport system or infrastructure
- Includes both hard and soft measures

THANK YOU

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