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Sustainable Cities –
The power of Information and Communications Technologies

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Cities are the focal points of global mega trends: sustainable governance is of essence

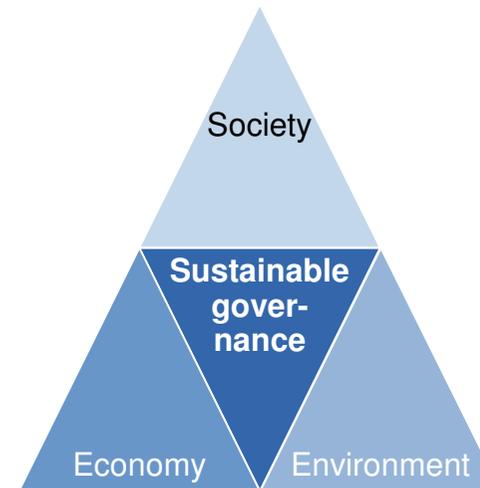**SIEMENS**

Megatrends

- **Demographic Change**
  - Growth and aging
  - Migration and integration
  - Populational change

- **Urbanization**
  - Mobility
  - Security
  - Supplies of life's basic requirements

- **Climate Change**
  - Shortage of natural resources
  - Environmental protection
  - Energy efficient solutions

- **Globalization**
  - Fair competition
  - Open markets
  - Cooperation

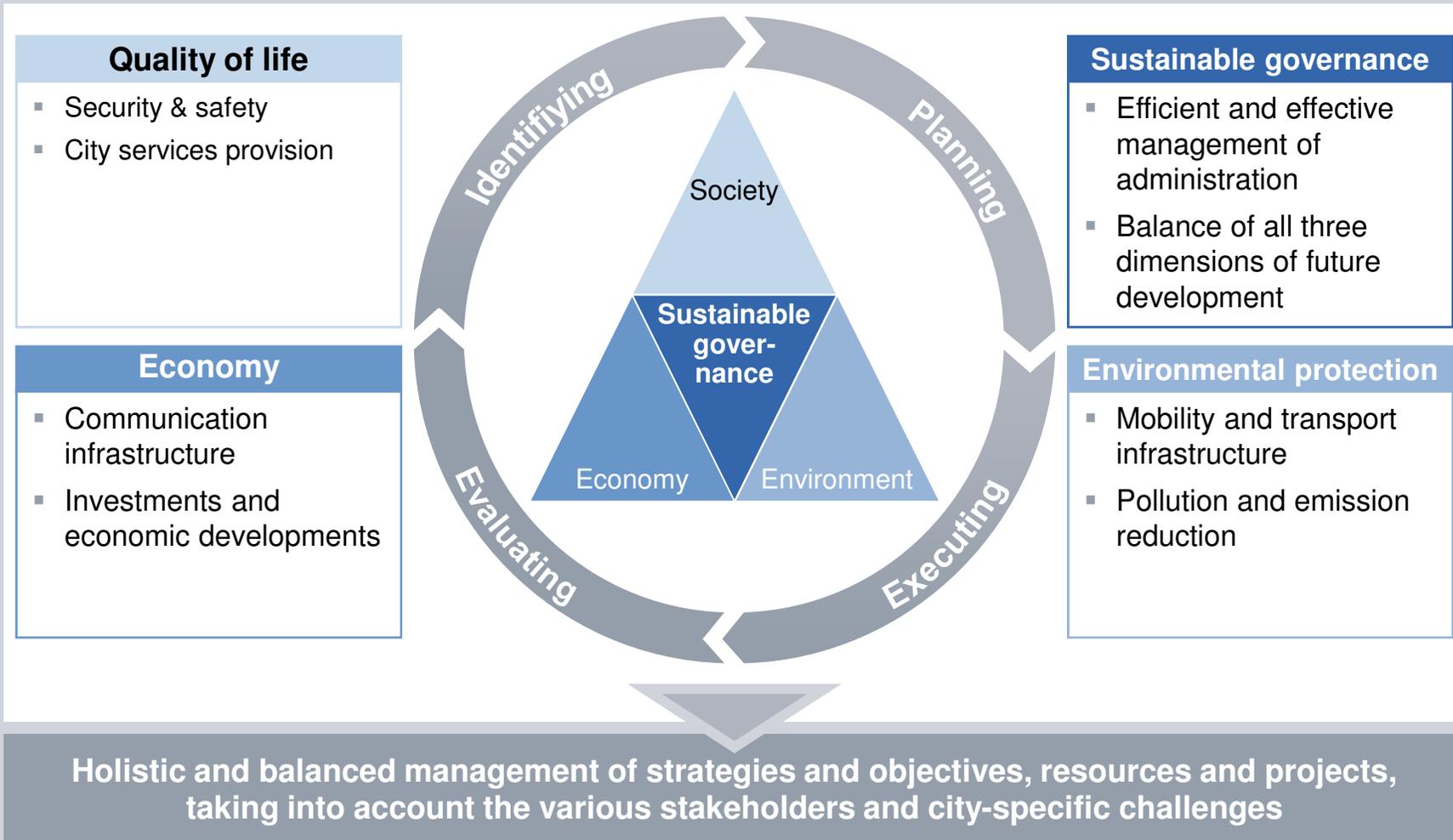▶ **50% of the world's population live in cities, using 75% of the energy generated globally.[1]**

Sustainability

Society

Sustainable governance

Economy   Environment

- **Holistic urban planning** and **Governance:** Prerequisite for **sustainable** development

- **Challenge** for **City Management:** **Balance** between three pre-eminent targets: Economic competitiveness, **environmental protection** and quality of life

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City Management is about holistic, balanced and sustainable governance

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Quality of life
- Security & safety
- City services provision

Economy
- Communication infrastructure
- Investments and economic developments

Sustainable governance
- Efficient and effective management of administration
- Balance of all three dimensions of future development

Environmental protection
- Mobility and transport infrastructure
- Pollution and emission reduction

Identifiying

Planning

Executing

Evaluating

Society

Sustainable governance

Economy

Environment

Holistic and balanced management of strategies and objectives, resources and projects, taking into account the various stakeholders and city-specific challenges

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According to our recent research, ICT is a key lever to addressing a city's challenges

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Enhancing Competitiveness

- Public Sector officials and businesses think a strong Internet network is crucial.
- ICT-savvy workforce is vital.
- Government inefficiency and opacity are perceived as the biggest constraints.

Managing Physical Infrastructure

- Mature cities make use of ICT to prolong the life of existing systems.
- While solutions like congestion charging are known to be effective, citizens may not necessarily see their value.

Protecting the Natural Environment

- ICT can influence behaviours by making available information on the usage of natural resources.
- Citizens are increasingly engaged in environmental initiatives via ICT.

Improving Public Administration

- Citizens think ICT can help speed up public services delivery.
- Emerging cities have made great strides in adopting e-government.
- Stakeholders blame each other for slow adoption of electronic services.
- Citizen-developed applications are a trend.

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Use ICT to enable, engage and empower city stakeholders

Sustainable Cities

ICT plays a key role in cities competitiveness

ICT can enable behavior change of citizens / businesses in environmental sustainability

ICT can improve the efficiency of city services and optimize its infrastructure

ICT empowers citizens to be involved in improving city living.

ICT has become an essential architecture that underpins city living - in improving quality of life, environment and economy

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