



Assessing Smart Cities Initiatives

Manor Group

Smart City Definition

WORKING DEFINITION

A Smart City connects human capital, social capital and ICT infrastructure in order to address public issues, achieve a sustainable development and increase the quality of life of its citizens.

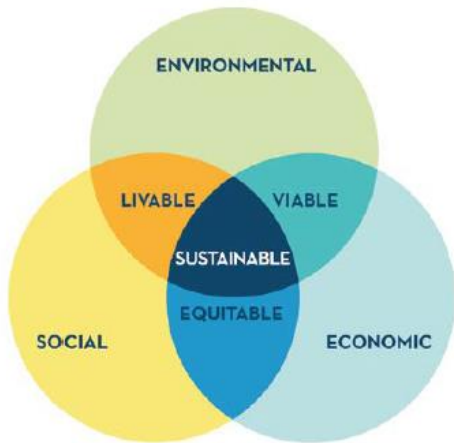
SMART CITY GOALS

- Achieve a sustainable development.
- Increase the quality of life of its citizens.
- Improve the efficiency of the existing and new infrastructure.

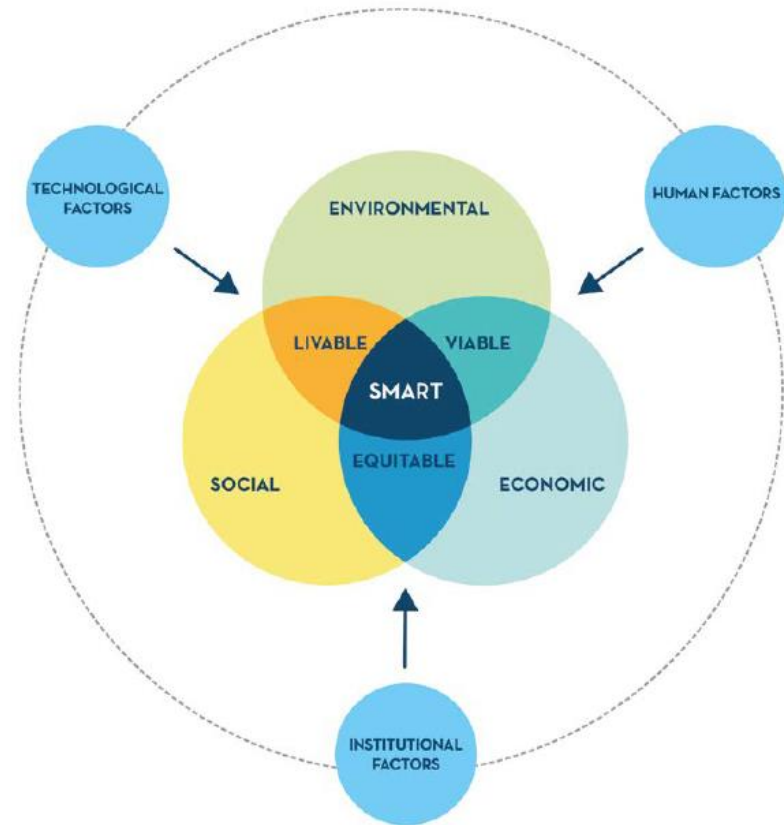
ICT FACTOR

Use of Information and Communication Technologies as a mean to achieve its objectives. ICT as tool for the improvement of the city.

Smart City Models



SUSTAINABLE DEVELOPMENT MODEL



SMART DEVELOPMENT MODEL

Smart City Main Actors

MAIN ACTORS

- Government and city authorities.
- Public-private partnerships.
- Citizen participation.

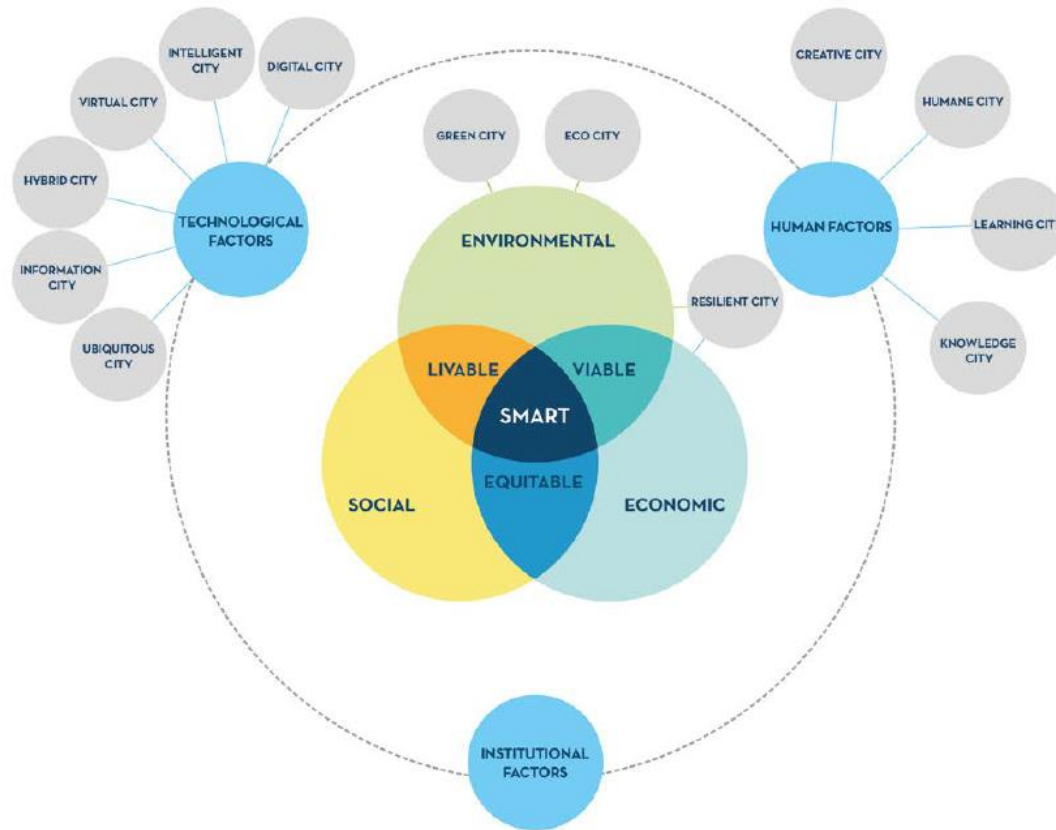
SCOPE OF THE SMART CITY

- Effects on the nearby settlements economically and socially connected.
- Expansion to the whole region.
- Regional and interregional networks.

IMPLEMENTATION OF SMART CITY PROJECTS

- Pilot projects.
- Global Smart City strategy + testing projects embraced on it.
- High risk projects with long payback periods.
- Difficulties to have access to traditional financial resources.

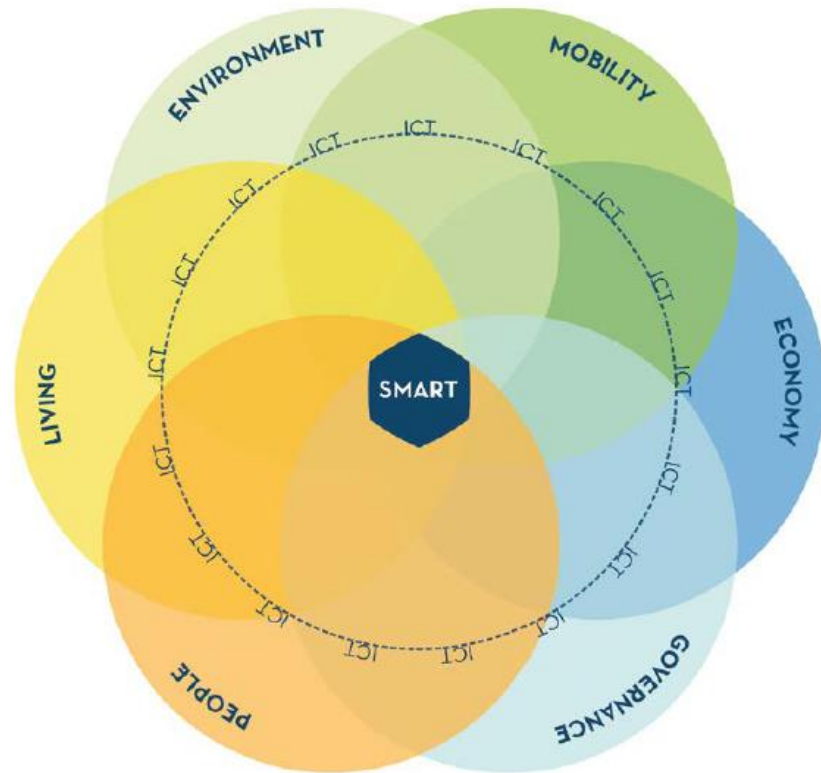
Other Models



RELATION BETWEEN OTHER CONCEPTS AND THE SMART CITY MODEL

Enablers

- Smart Governance
- Smart Economy
- Smart Mobility
- Smart Environment
- Smart People
- Smart Living



SMART CITY ACTION FIELDS. ICT AS COMMON ENABLER

Engagement

SMART CITY ACTION FIELDS AND AREAS			
SUSTAINABLE CITY ASPECTS	CITY AXES	SMART CITY ACTION FIELDS	SMART CITY AREAS
<i>economic</i>	INSTITUTIONS	GOVERNANCE	PARTICIPATION
			TRANSPARENCY
			PUBLIC AND SOCIAL SERVICES
		ECONOMY	INNOVATION
			ENTREPRENEURSHIP
<i>environmental</i>	HABITAT	MOBILITY	TRAFFIC
			PUBLIC TRANSPORT
			ICT INFRASTRUCTURE
			LOGISTICS
		ENVIRONMENT	NETWORK AND ENVIRONMENTAL MONITORING
			ENERGY EFFICIENCY
<i>social</i>	CITIZEN	PEOPLE	DIGITAL EDUCATION
			CREATIVITY
		LIVING	TOURISM & CULTURE
			HEALTH & SAFETY
			TECHNOLOGY ACCESIBILITY

Challenges

CITY CHALLENGES					
GOVERNANCE	ECONOMY	MOBILITY	ENVIRONMENT	PEOPLE	LIVING
Flexible governance	Unemployment	Sustainable mobility	Energy saving	Unemployment	Affordable housing
Shrinking cities	Shrinking cities	Inclusive mobility	Shrinking cities	Social cohesion	Social cohesion
Combination of formal and informal government	Economic decline	Multimodal public transport systems	Holistic approach to environmental and energy issues	Poverty	Health problems
Territorial cohesion	Territorial cohesion	Pollution	Pollution	Ageing population	Crime rate
	Mono-sectorial economy	Traffic congestion	Urban sprawl	Social diversity as source of innovation	Urban sprawl
	Sustainable local economies	Non-car mobility			
	Social diversity as source of innovation				

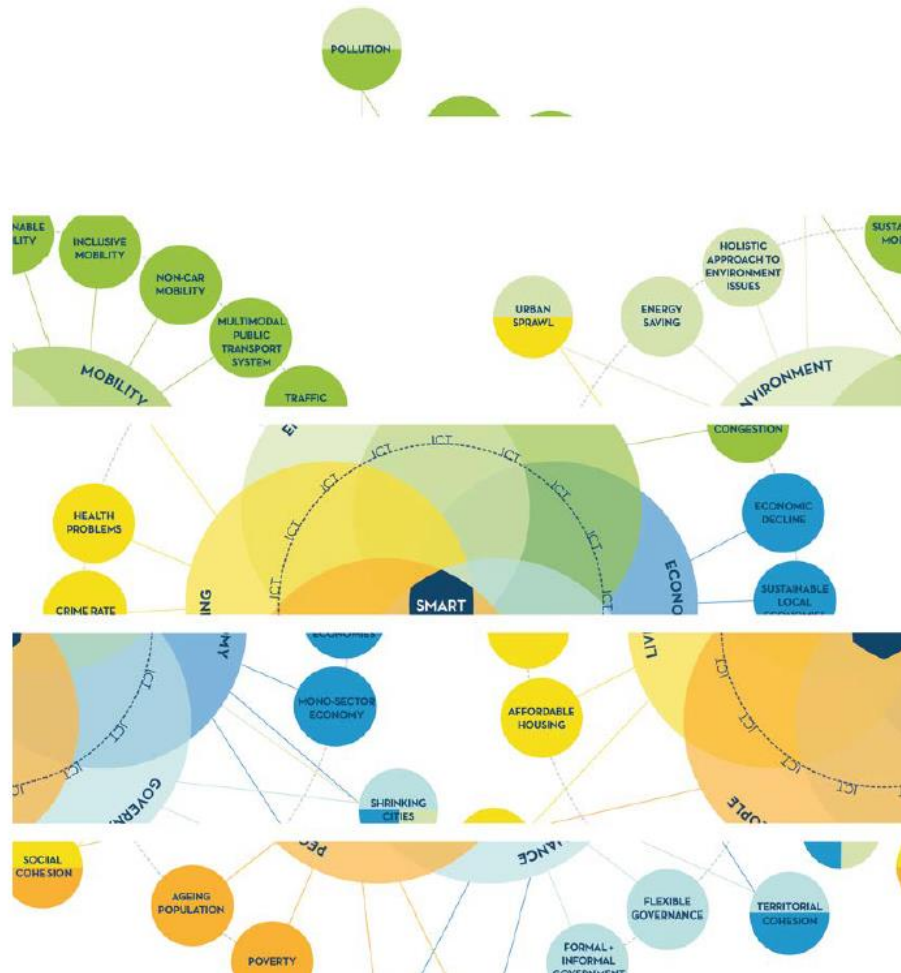
Challenges

24 CITY CHALLENGES

17 one-field challenges

- 5 mobility
- 3 living
- 3 economy
- 2 governance
- 2 people
- 2 environment

7 multi-field challenges



Smart City Projects

ACTION FIELD	AREA	SMART CITY INITIATIVE
SMART GOVERNANCE	PARTICIPATION	Complaints and suggestions
		Participation in decision-making
	TRANSPARENCY	Open Data
		Municipal transparency
	PUBLIC AND SOCIAL SERVICES	e-municipality
		City Council on social networks
		GIS
		Social and City services information
		Smart Justice
SMART ECONOMY	INNOVATION	Innovation Centre
		e-commerce
	ENTREPRENEURSHIP	Business centre
		job-search resource centres

Smart City Projects

ACTION FIELD	AREA	SMART CITY INITIATIVE
SMART MOBILITY	TRAFFIC	Variable Traffic Management
		Traffic monitoring
		Traffic control
	PUBLIC TRANSPORT	Public Transportation App
		Card of Public Transportation
		Intelligent bus stops
		Car sharing
		Public bicycles
		Electric bus
		Tramway
	ICT INFRASTRUCTURE	Parking sensors
		Parking information
		NFC payment
LOGISTICS	Smart Logistics	

Smart City Projects

ACTION FIELD	AREA	SMART CITY INITIATIVE
SMART ENVIRONMENT	NETWORK AND ENVIRONMENTAL MONITORING	environmental information and alerts
		Containers with sensors
		Monitoring distribution networks
		App with incidents
	ENERGY EFFICIENCY	Recharging electric vehicles
		Energy efficient in buildings
		intelligent Lighting
		Smart grids
		Irrigation remote control
		Renewables
		District heating and cooling

Smart City Projects

ACTION FIELD	AREA	SMART CITY INITIATIVE
SMART PEOPLE	DIGITAL EDUCATION	Centre for learning new technologies
		Internet in schools
	CREATIVITY	Centre for creating apps
SMART LIVING		event information
	TOURISM & CULTURE	tourism app
		e-health
	HEALTH & SAFETY	accessibility in public places
		Telecare
		video surveillance
		free wifi
	TECHNOLOGY ACCESIBILITY	optical fibre
		citizen card

Business Opportunities

For more information on existing Smart City business opportunities please contact us:

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