

Vision and Opportunity for Smart City in Pakistan

Scheme of Presentation

- Pakistan – A brief introduction
- Current state of ICT in Pakistan
- Urbanization in Pakistan
- Safe Cities in Pakistan --- A step towards Smart Cities
- Future

Pakistan ---- An Introduction

Population

○ 180 Million

Area

○ 796096 sq. km.

GDP

○ US\$ 285 Billion

**Per capita
GDP**

○ US\$ 1580

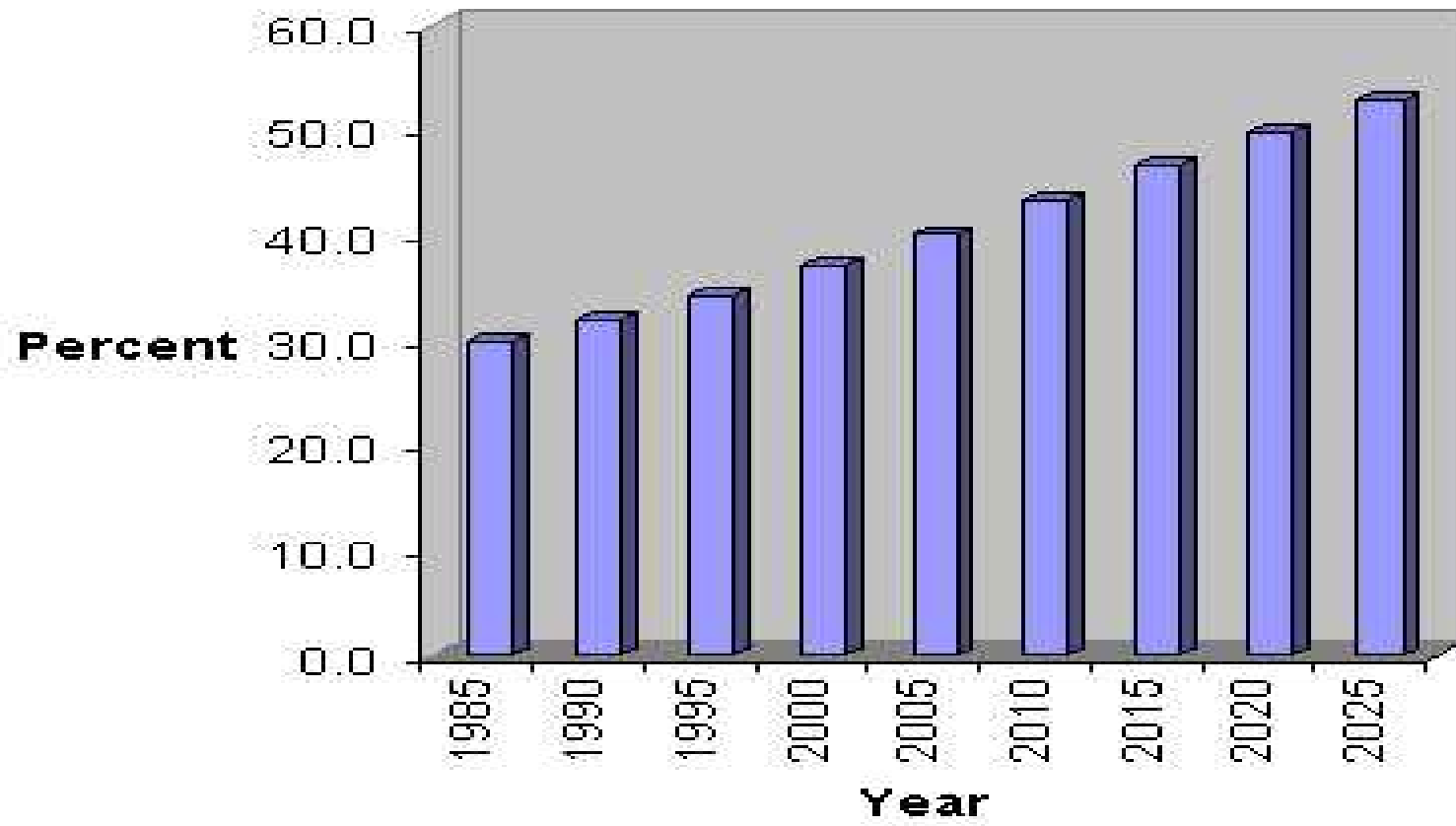
Location

○ South Asia

Telecom Sector Key Indicators

Parameters	Values
Mobile Connections	133.2 Million (74% of the population)
Total Broadband Subscribers	32.5 Million (29.5 Million 3G/4G subscribers) 18% of the population
Growth expected	<ul style="list-style-type: none"> •25% broadband subscription to be achieved by 2018. •Number of Smartphone users to exceed 40 million by 1stQ 2017 ~20% of population. •Telecom sector revenue in 2015: US\$ 4 Billion •Expected revenue in 2025: US\$ 17 Billion

Urbanization level(Pakistan)



Urbanization Trends in Pakistan

- ✦ Urban areas contribute 78% of the GDP.
- ✦ More than half of the country's population is clustered around eight major cities.
- ✦ The two mega cities in the country are Karachi (pop. 22 Million and Lahore pop. 8 Million)
- ✦ Currently there are 9 cities in Pakistan with population exceeding one million.
- ✦ There are 75 cities with population between 100,000 and 1 million.
- ✦ Urbanization is increasing at 2X rate of population growth.

Challenges in Pakistan Modern City Life

Transportation	Environment	Resources	Security
			
			
Education	Health	Support for the Aged	Governance

Terrorism is the largest threat in Pakistani cities

- ✦ More than 85000 Pakistani citizens have died in terrorist attacks in the period 2000-2015.
- ✦ More than 85% of the attacks occurred in six major cities (Peshawar, Quetta, Karachi, Lahore, and Islamabad/Rawalpindi)
- ✦ More than 90% of the terrorism related deaths occurred in the six major cities.
- ✦ Therefore the Government has prioritized the setting up of Safe Cities in major urban centers.
- ✦ The safe cities will provide the basic infrastructure and roadmap for the establishment of Smart Cities in the future.

Islamabad Safe City Project

Parameters	Values
City	Islamabad (pop. 1.5 Million)
Project cost	US\$ 125 Million through a Chinese loan.
Implemented by:	A Chinese company and the National Database & Administration Authority (NADRA) of Pakistan
Salient Features:	<ul style="list-style-type: none">•1900 surveillance cameras installed around the city.•Real time monitoring of people & vehicles at all city entry and exit points, roads, commercial centers, govt. offices etc.•A state of the art command and control center.•1000 city police personnel being trained.

Safe Cities ---- The Way Forward



Challenges

- ✦ Financing smart cities.
- ✦ Weak local government institutions and HR issues.
- ✦ Financial and technical constraints of local governments.
- ✦ Multi-tiered governance system.
- ✦ Lack of city master and development plans.

Lessons from Yinchuan

- ✦ Yinchuan offers a way forward and a vision for Smart City novices and enthusiasts alike.
- ✦ Yinchuan and ZTE offers intelligent systems cover major facets of city life including civic administration, traffic control, waste management, public security, and community services.
- ✦ We hope to replicate these innovations at some point in future, hopefully near future.
- ✦ In this journey to provide better services to the citizens we hope to partner with and seek collaboration of Yinchuan city government, ZTE, and all of you present in this hall.

Thank you