



**Islamic Republic of Afghanistan**

# **Challenges & Policies for EST** (Environmentally Sustainable Transport) System of Afghanistan

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## Background

- Location
- Land
- People
- Urban Structure
- Urban growth
- Transportation

## Contents:

## Policies & Strategies

- Urban Sector Strategy (USS)
- Urban and Regional Planning (URP)
- Municipality laws and regulations
- International Support

## Challenges regarding EST

- Infrastructure
- Air pollution
- Governance
- Strategic or Physical Planning





Cont'd...

## People:

25million (40<sup>th</sup> rank in the world)

– **Growth Rate; 2,67% p.a.**

– **Life expectancy; 43.3 (214<sup>th</sup> r. in the w.)**

– **Literacy rate; 36%**

# Socio-economic status

- **400USD/cap annual income (intrn. Evr. \$9900)**
- **40% unemployment**
- **36% Literacy**
- **3Million Returnees need job, shelter & services immediately**
- **6.4% annual slum increase**
- **~2 families in one dwelling (overcrowding)**

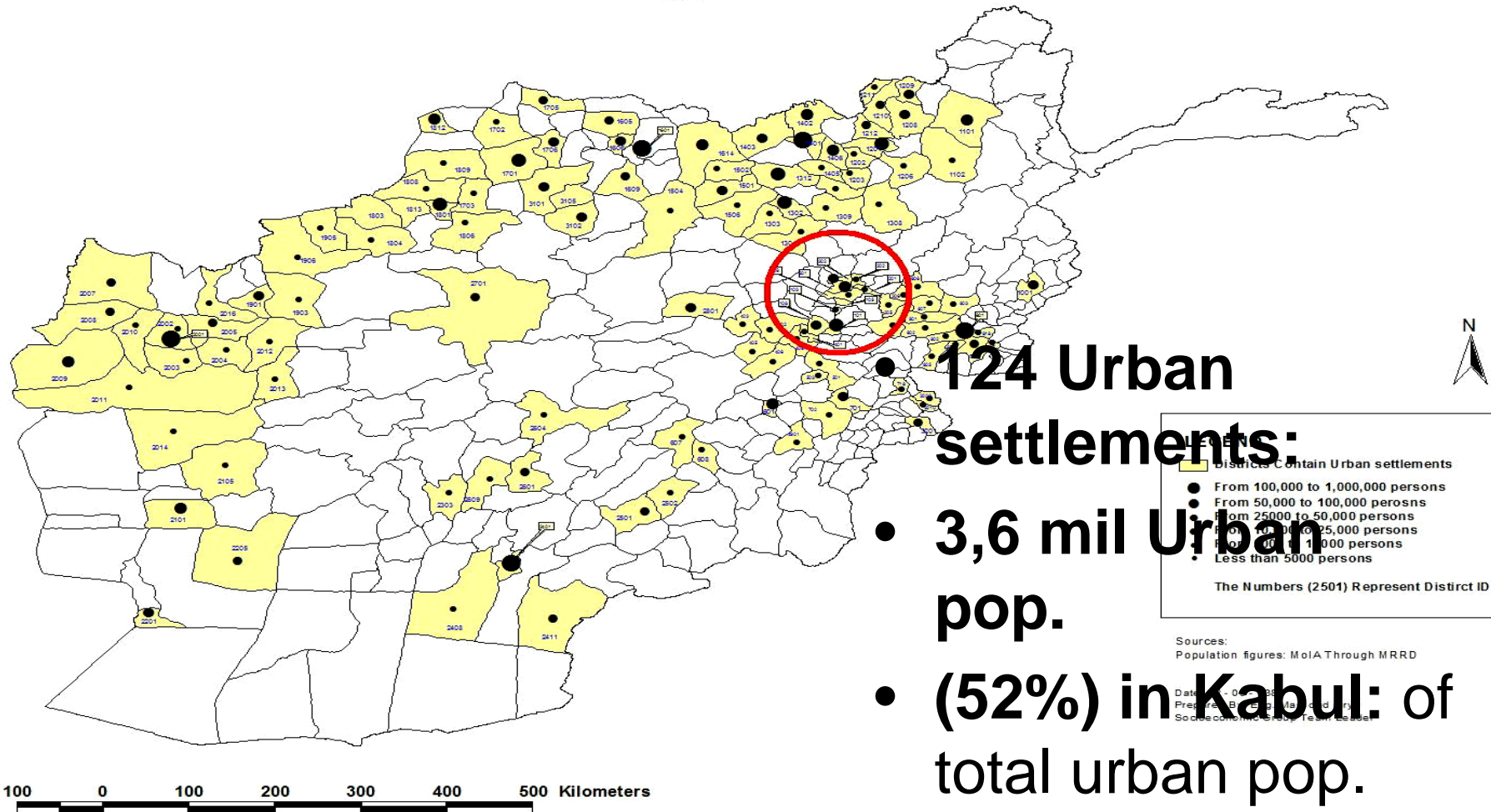
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# Urban Formation

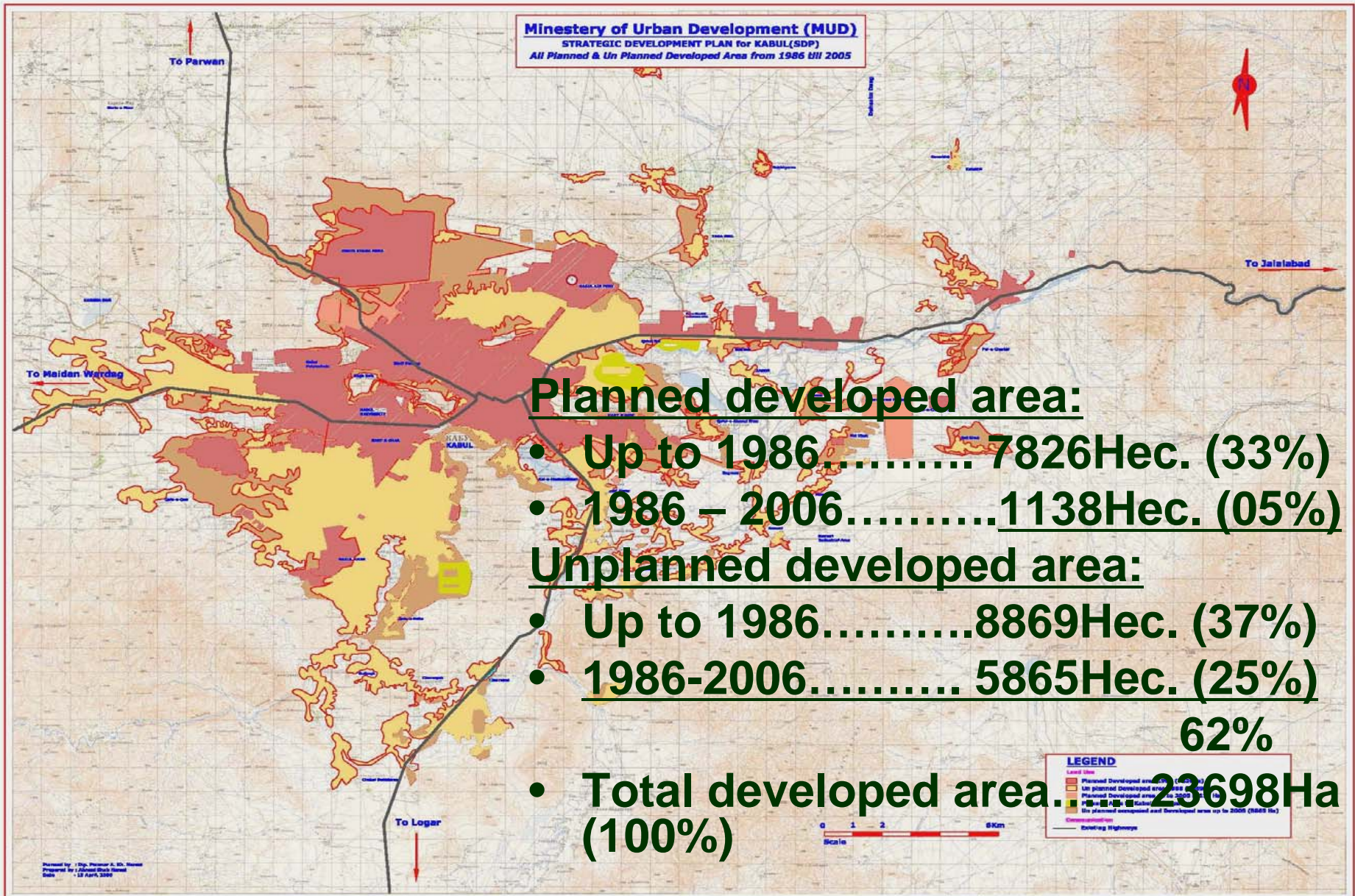
Urban population: 7M (28%) of total pop.

Rural population: 18 (72%)

Urban Settlements & Population In Afghanistan  
1385



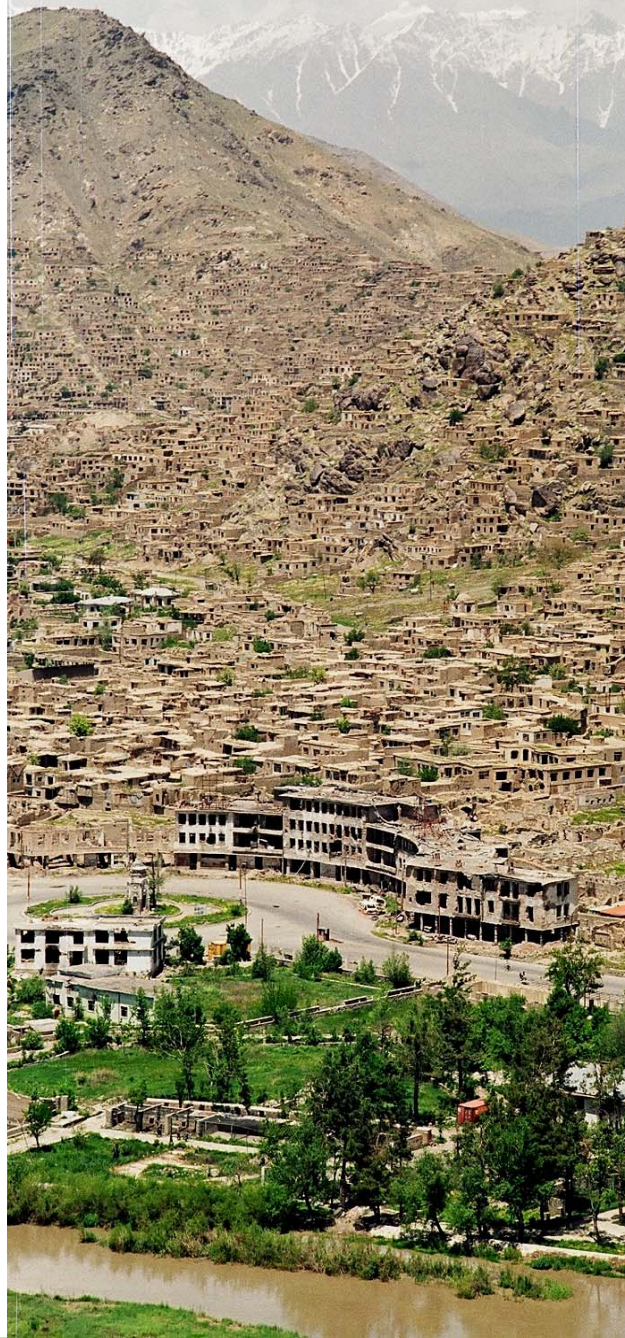
# Development of Kabul



1968



1993



2004



- Informal settlements are not just a “problem”, but an issue that requires affordable and practical solutions

➤ They are a major asset, on whose foundations urban development can proceed

➤ Significant additional resources can be generated and used for upgrading services & infrastructure



# Challenges of Urban Transportation system

## Management:

- Old and obsolete Traffic laws
- Weak governance for implementation of law and order
- Overlap of responsibilities
- Continuing war situation (unplanned traffic barriers and security blockades)
- Low technical, human and economical capacity
- Unbalanced development of small and large towns
- Transportation technical problems

# Challenges on Urban Transportation system

- **Infrastructure**

- No traffic lights in the cities
- Narrow urban roads
- Misuse of roads and pedestrians
- inadequate parking
- Slow vehicle's movement
- Lack of mass transport systems; trams, metros, etc.



# Challenges on Urban Transportation system

## Planning:

- Lack of overall traffic and transportation Planning and systems
- Lack of updated urban plans
- Rapid growth of unplanned areas in large cities due to sudden return of migrants to large urban areas

# Air Pollution (2007)

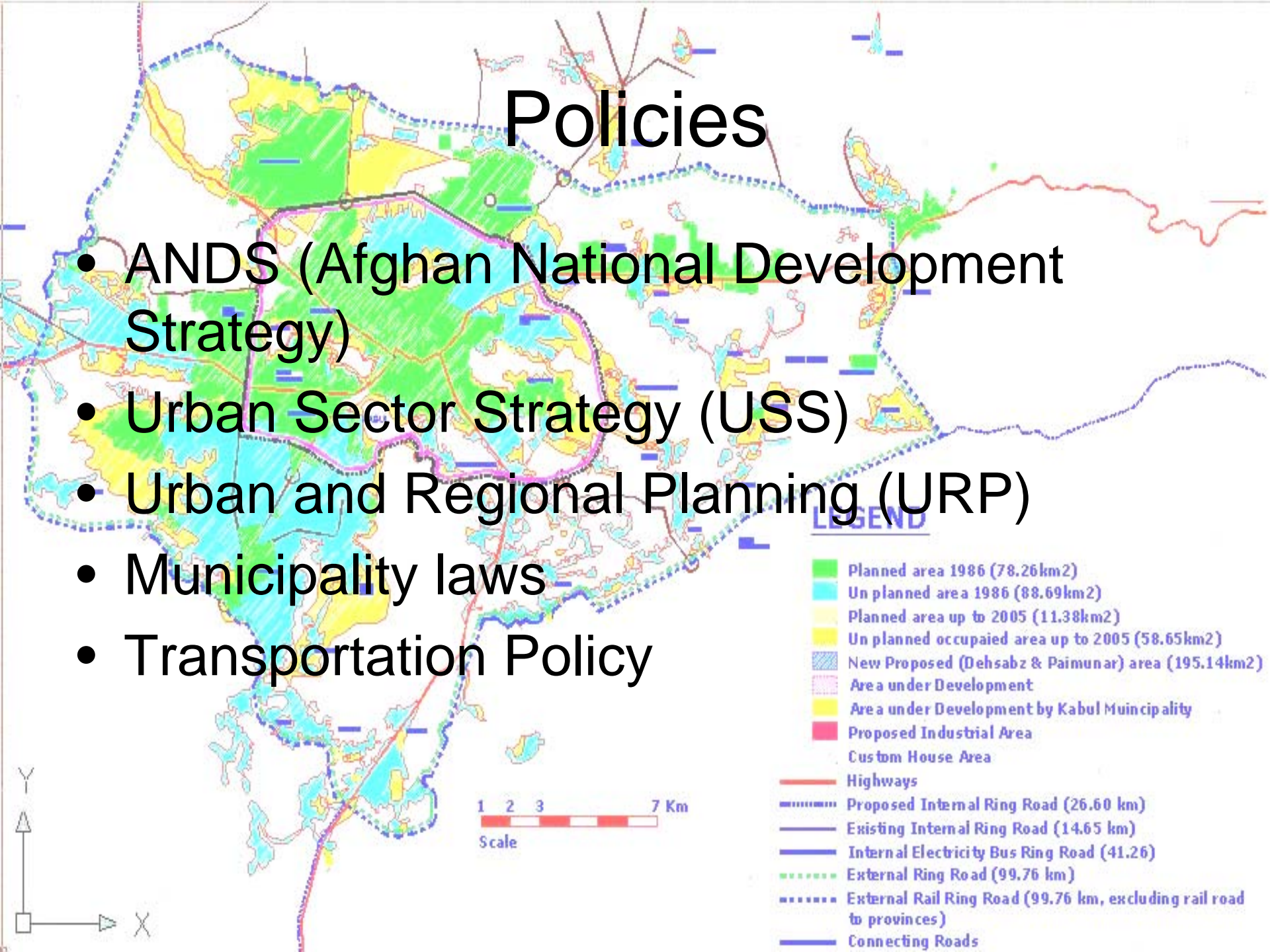
- ~300'000 vehicles Kabul; 11,6 per/ veh.
- Worst quality of fuel particularly diesel,
- 50% Unpaved dusty roads

## Causes:

- Over 60% residents of Kabul and large cities are suffering due to polluted air
- 150mic.g. small particles /cu. M.
- 120mic.g No<sub>2</sub> Nitrogen di oxide/ cu. M.
- 20mic.g So<sub>2</sub> Sulfur di oxide/ cu. M.

# Policies

- ANDS (Afghan National Development Strategy)
- Urban Sector Strategy (USS)
- Urban and Regional Planning (URP)
- Municipality laws
- Transportation Policy



# Policy cont..

ANDS:

MDG (Millennium Development Goals)

“To ensure that road improvements and connectivity of remote villages to national transport system”.

Since 2001, over 12'200 km all weather roads has been constructed or renewed.

# Policy cont...

## Urban Sector Strategy (USS)

### Urban Environment.

The urban environment of most cities is deteriorating as a result of **infrastructure deficiencies**

- Increased private vehicle ownership and use
- poor facilities for pedestrians, settlements on hazardous areas including on steep slopes
- Air and water pollution
- over crowded and unhygienic living conditions  
unsafe working conditions
- Lack of green and clean open spaces

# Policy cont...

## Urban Sector Strategy (USS)

### 3. Urban infrastructure and services

This strategy prong aims to

- (i) upgrade under-serviced planned and unplanned areas;
  - (ii) rehabilitate and extend of water supply and sanitation services;
  - (iii) rehabilitate and extend roads and drains;
  - (iv) improve solid waste management;
  - (v) improve transportation management.**
- Improvement of power supply**

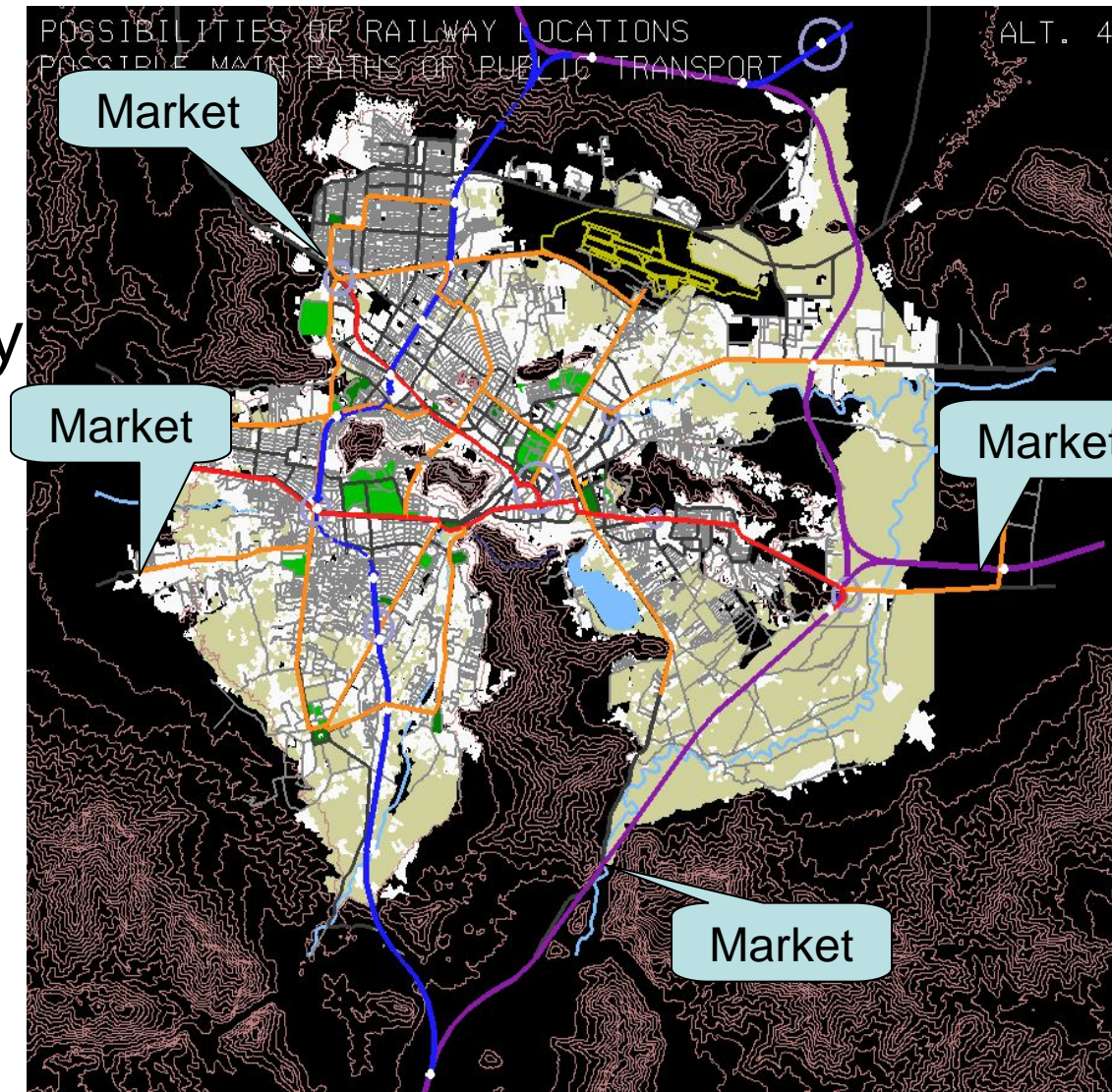


# National Transport Policy

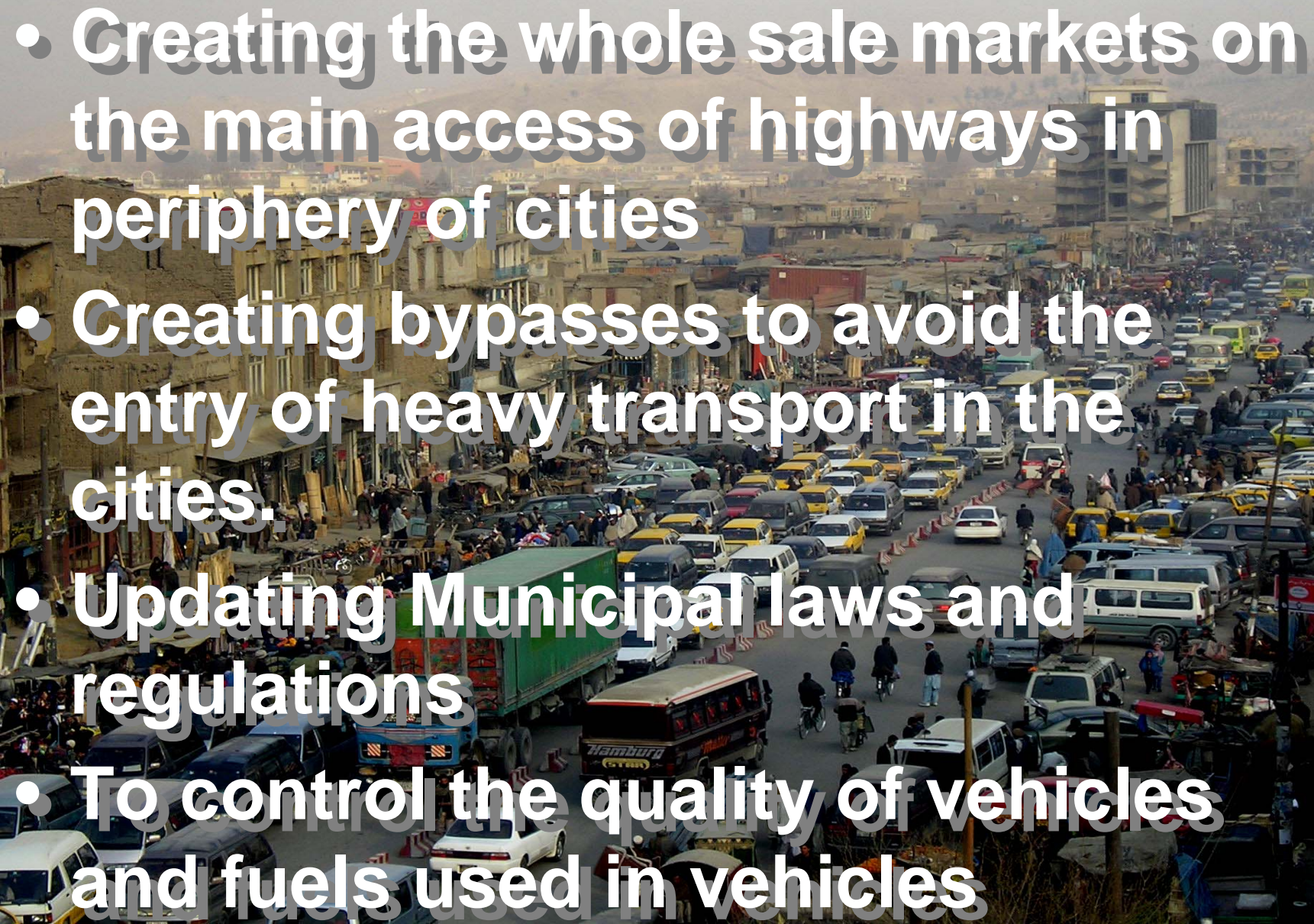
- To upgrade the existing Road network Fully upgraded and maintained ring road and roads to neighbouring countries by end-2009;
- Fiscally sustainable system for road maintenance using private contractors as much as possible by March-2008;
- Forty percent of all villages to be connected by all-weather roads to the national road system by the end of 2010;
- Forty percent of all roads in municipalities (i.e., cities) are improved to a good standard by the end of 2010;

# Urban and Regional Planning

- To promote **mass transport** for the cities
- To diversify the main flow of traffic from city centers by creating bypasses, ring roads
- To balance the development among urban centers
- To decentralize the main functions away from centers of cities



# Municipality laws and regulations

- Creating the whole sale markets on the main access of highways in periphery of cities
  - Creating bypasses to avoid the entry of heavy transport in the cities.
  - Updating Municipal laws and regulations
  - To control the quality of vehicles and fuels used in vehicles
- 
- An aerial photograph of a densely populated urban area, likely in a developing country, showing a major thoroughfare. The street is filled with a variety of vehicles, including cars, buses, and trucks, some of which are heavily loaded. Pedestrians and cyclists are also visible on the sidewalks and in the street. The buildings are multi-story and appear to be made of brick or concrete. The overall scene depicts a complex and busy urban environment where municipal regulations are crucial for managing traffic and public safety.

# International participation

- The donors has contributed \$3.3billion to rebuild transport system from 2002-2007.
- Italian Team works on Kabul Ring Road
- Czech Team works on Transportation system of Kabul. **More emphasize on Mass Transport**
- UN habitat; city profile
- AKF- conservation of historic Places
- JICA- Road improvement , etc
- ICT from India is working on Structural Development Plan of Kabul through KURP by World Bank



**Thank You  
for Attention**