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Planning a new capital city: Astana Kazakhstan

Kazakhstan



Area

- Size of Western Europe

Population

- 15 million

Economy

- -100th richest country (per capita GNP)
- Oil and minerals

Literacy

- 99% (highest world ranking



Astana, planning parameters

Population

-1998 (capital designation) 280k

-2005 500-600k

_2030 1 million

Car ownership

- -2005 less than 100 per 1000 pop
- -2030 probably 400 500 per 1000 pop

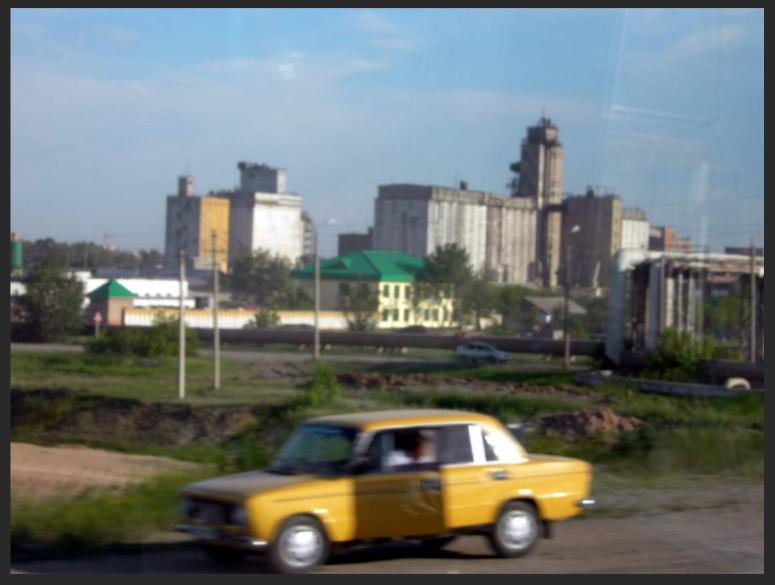
Landscape context





Landscape context – grain silo







Fortified towns on the Silk Route



Yurts

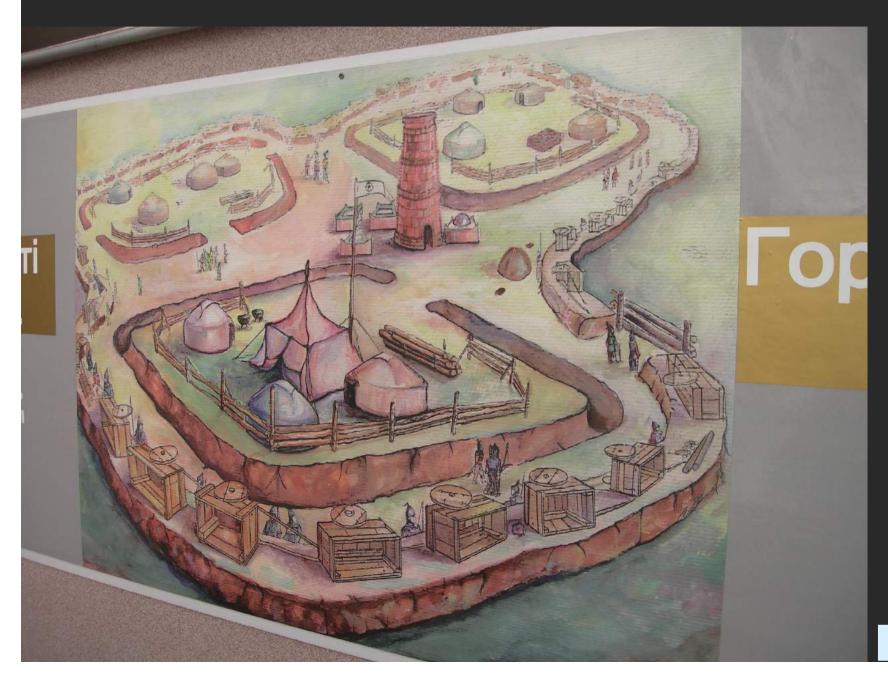




Settlement tradition

Nomad corall











Inside a yurt





Positive features of Astana

Market





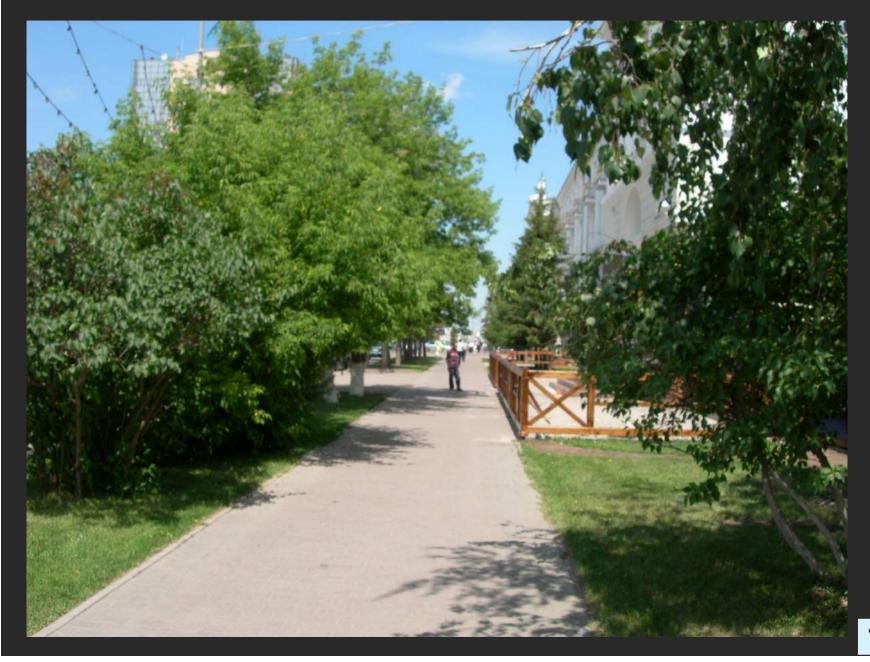
Market





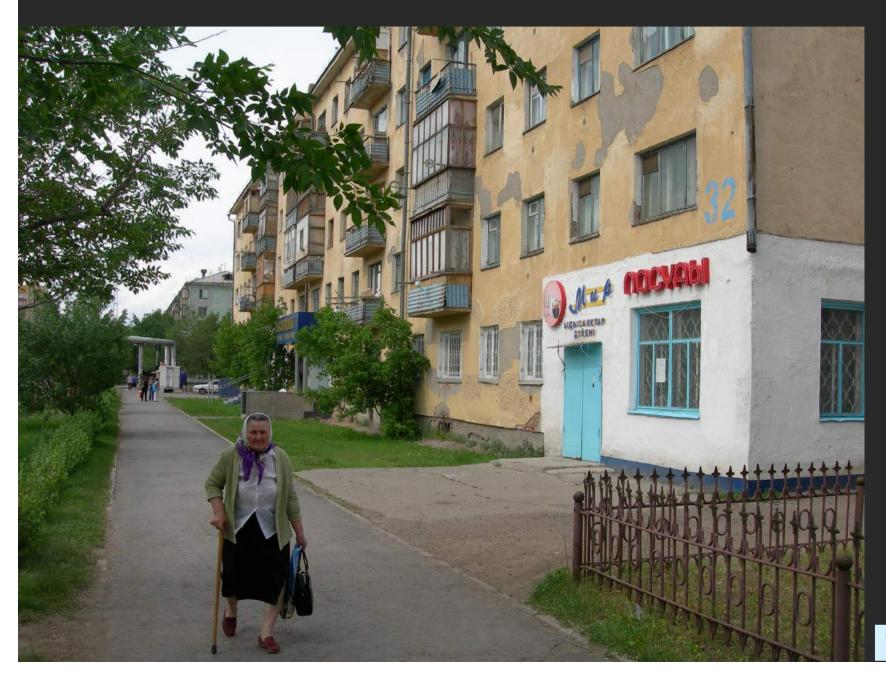
Russian grid: tree-lined streets





Soviet-era apartments –mixed use high density





Dachas







Negative features of Astana

Heating pipes





Heating pipes





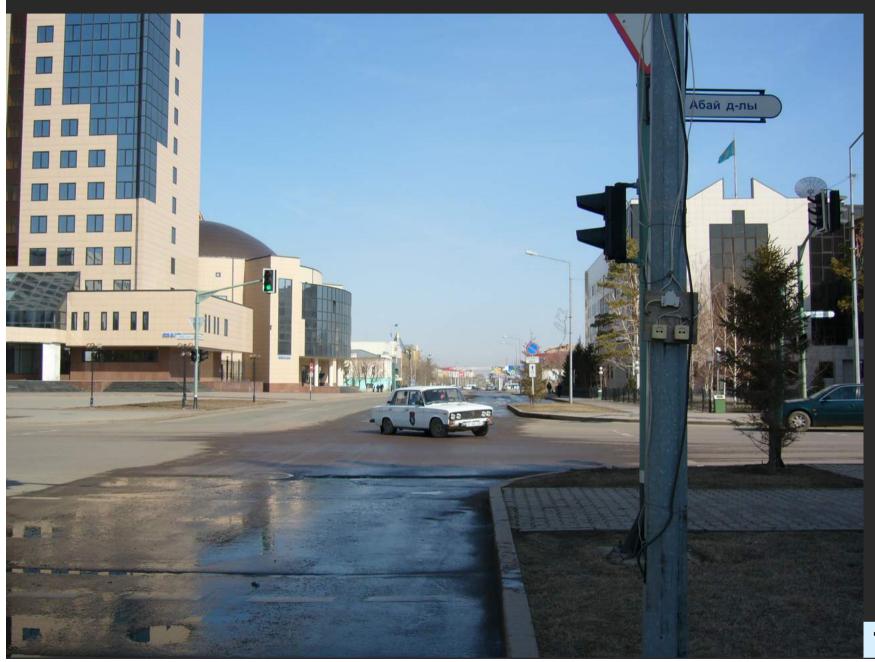
Shopping centre





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Loss of street structure – trees gone



High density – no amenity







Low density next to city centre: Diplomats housing









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False street line



Industrial wasteland







Poor housing areas



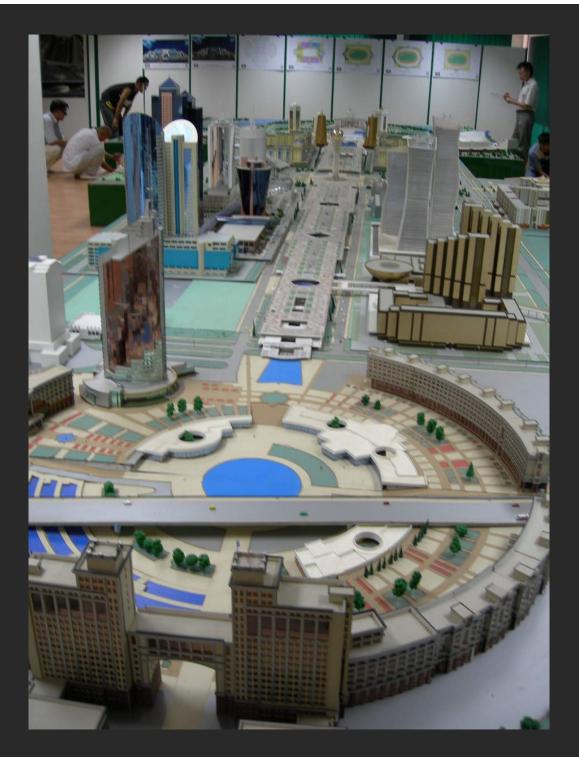


Worn out Soviet-era apartments





Rapid growth of Astana





New admin centre

Blank-sheet planning

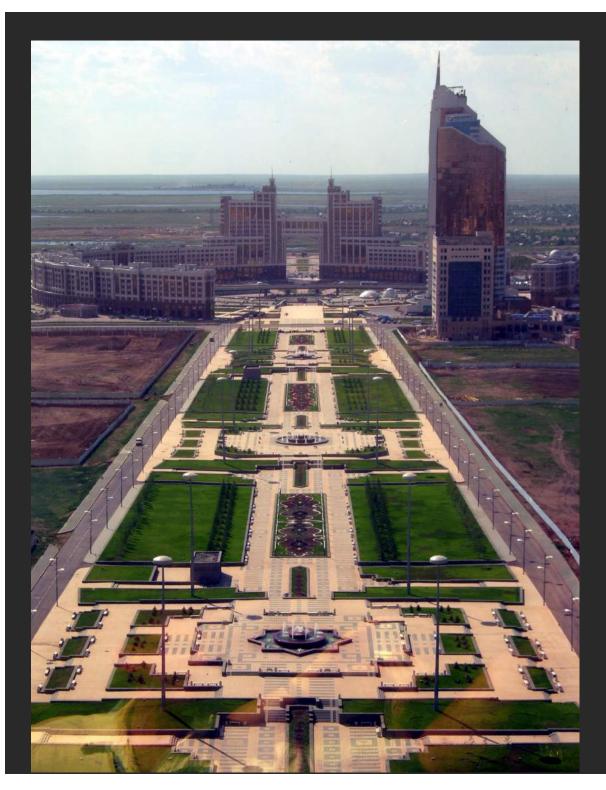












Central axis



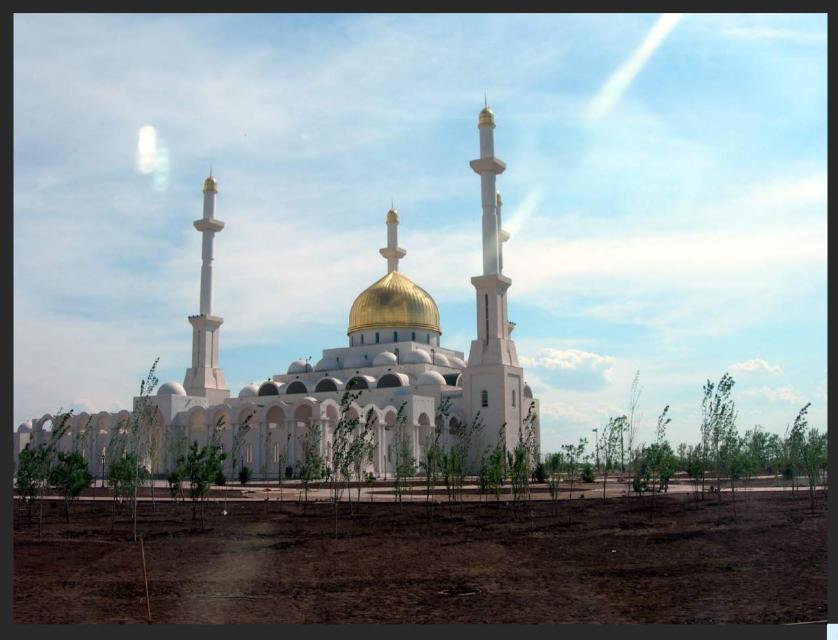
President's folly





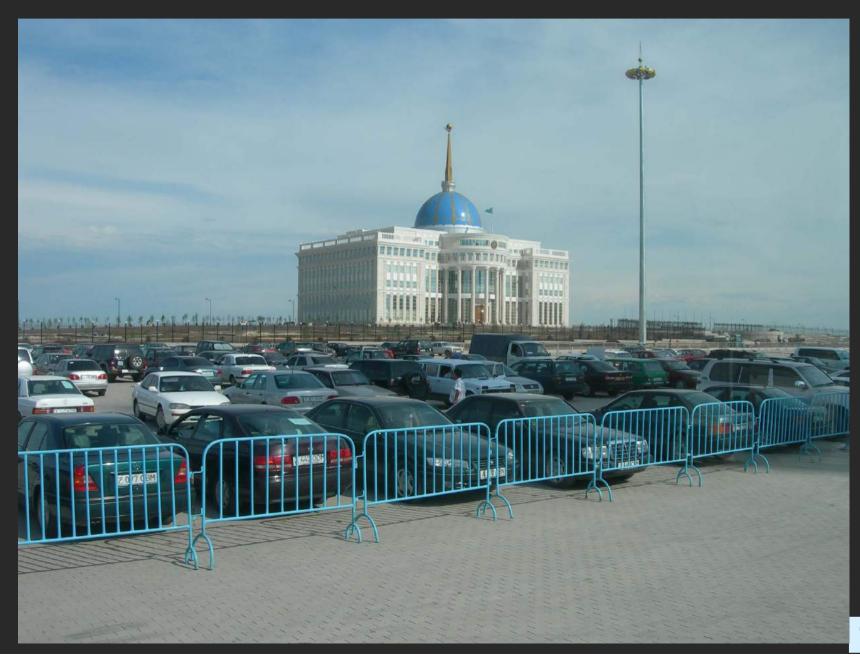
Central mosque





Presidential palace





Central axis





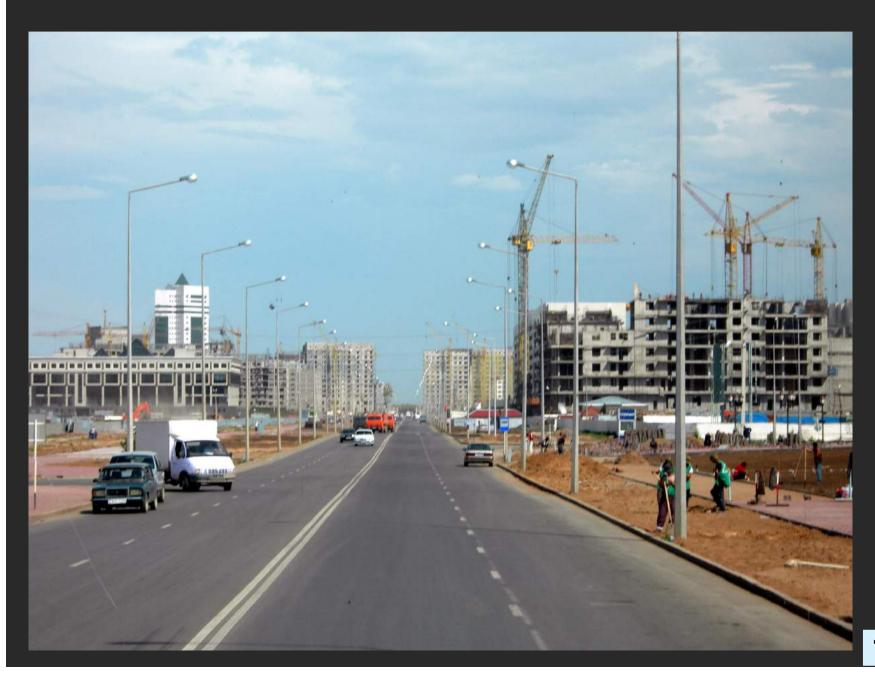
Private apartments





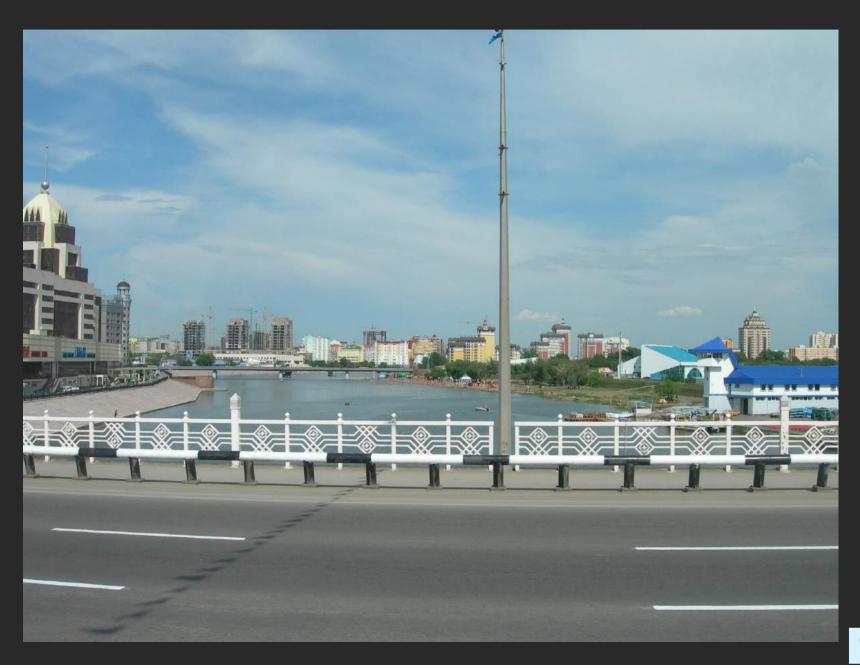
More apartments







Riverside development



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New square



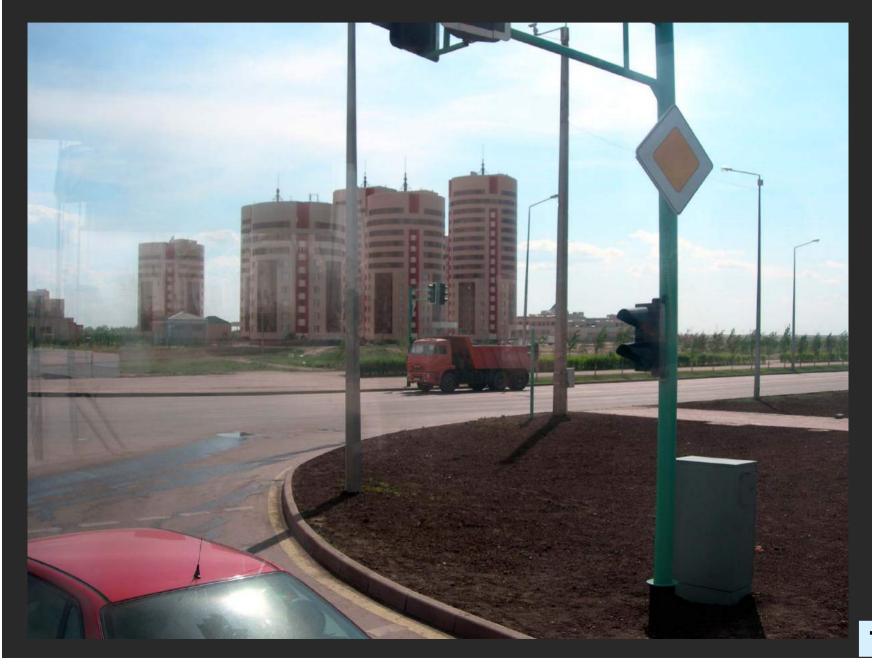


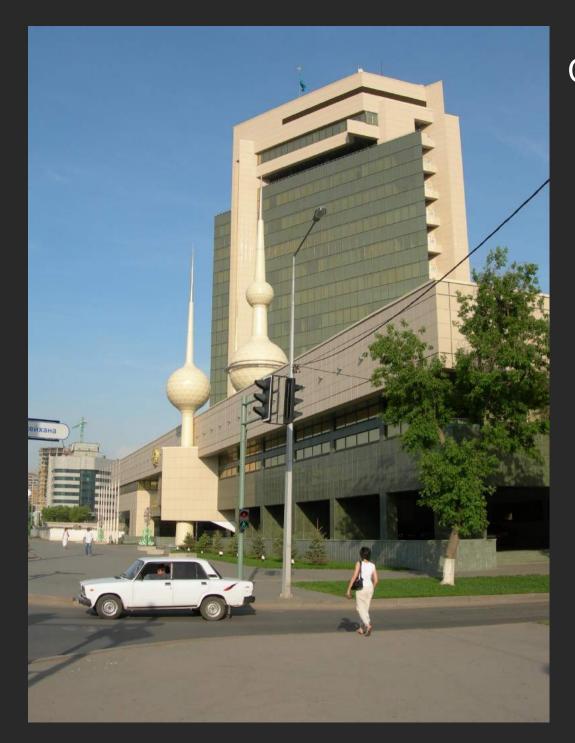
Higher density marches on





New social housing





City hall – "Akimat"



New university quarter







High density private housing by the river



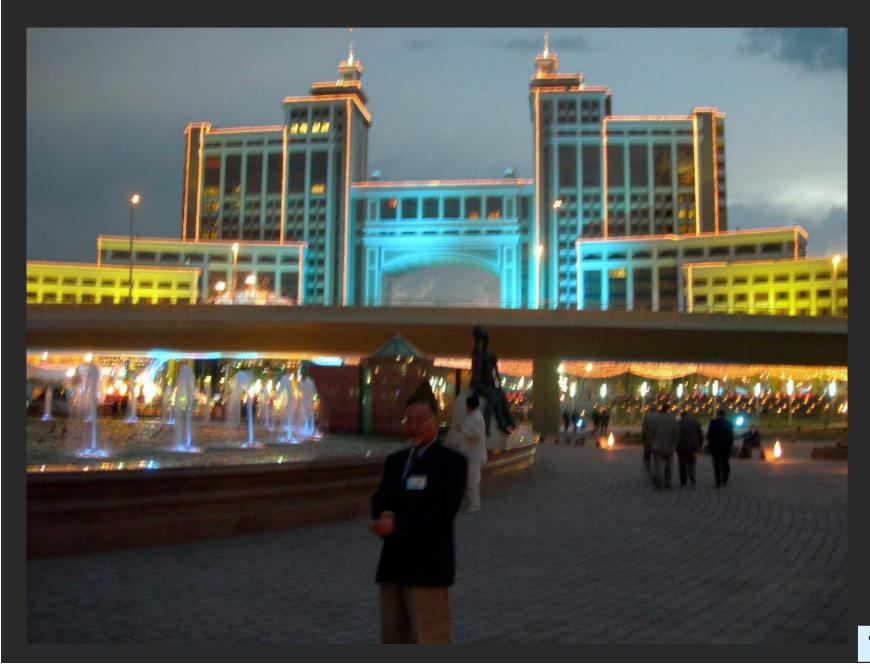








Bold architecture, central axis





Astana, transport parameters

Population will double by 2030

Number of cars will increase 8 X

2005 – 0.5 m car kms per day 2030 – 7.5 m car kms per day (15X increase)

If 50% of jobs in centre and all trips by car, peak traffic would require 12 X 8-lane motorways... and 150,000 parking spaces



Astana, transport parameters

Public transport – 35% mode share?

- -Buses
- -Trolleybuses
- -Minibuses

Few cycles

Car traffic already congestion

No parking controls

Very few car parks



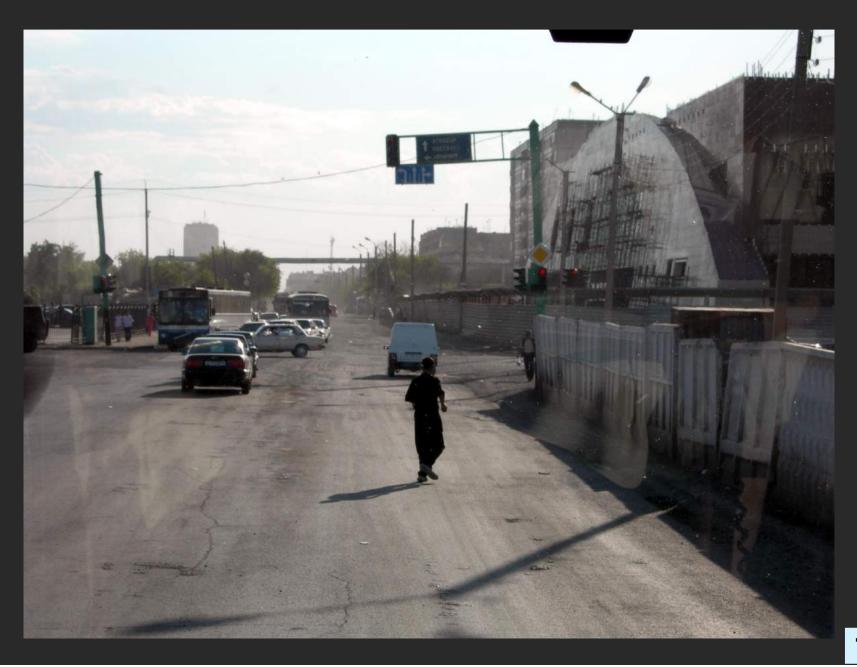








Chaotic streets





New railway station



Traffic plan







Minibuses – being replaced



Modern buses





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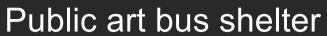
Old style bus





Bus maintenance facility



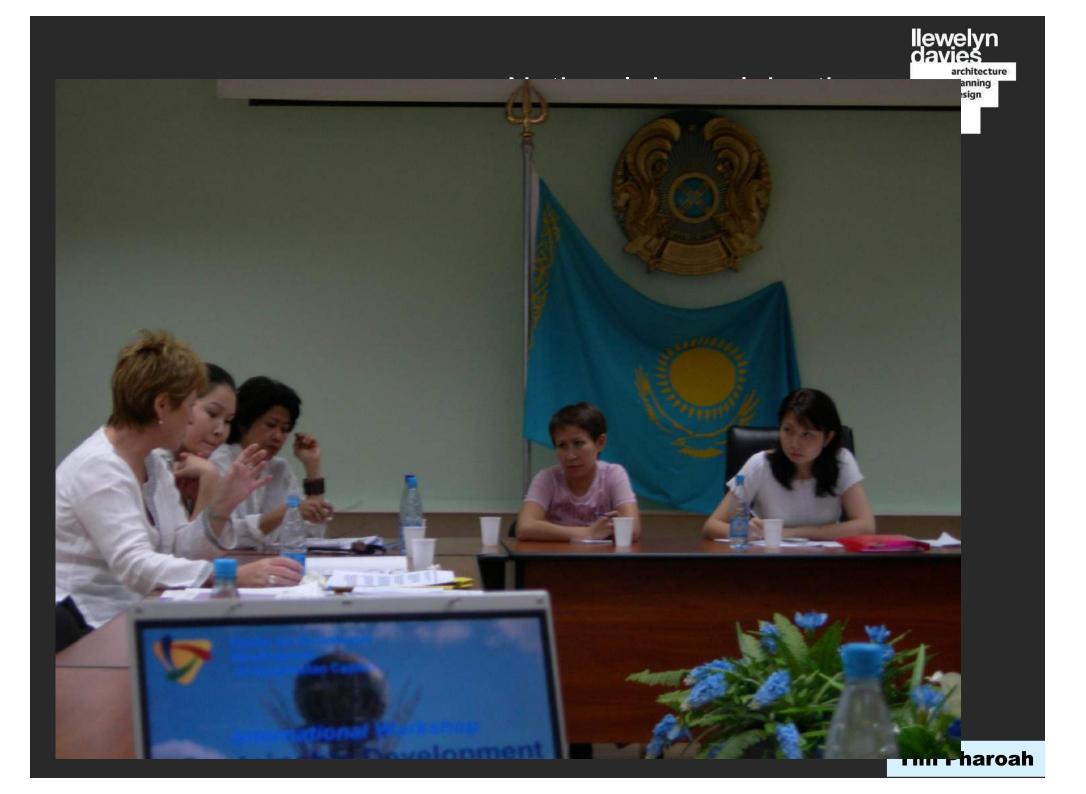








The greatest resource – the people





Inauguration of Astana's first organ

















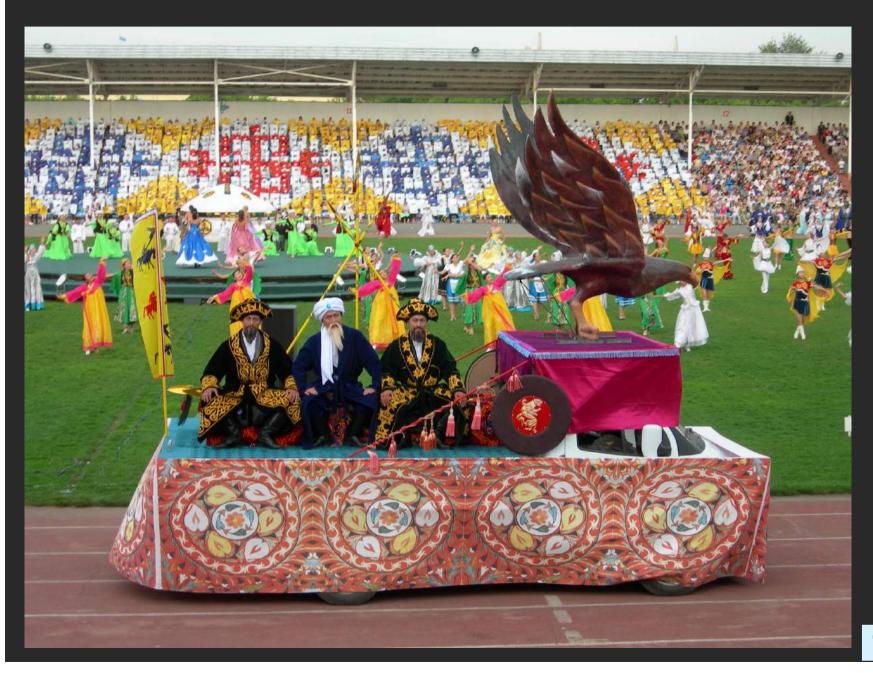














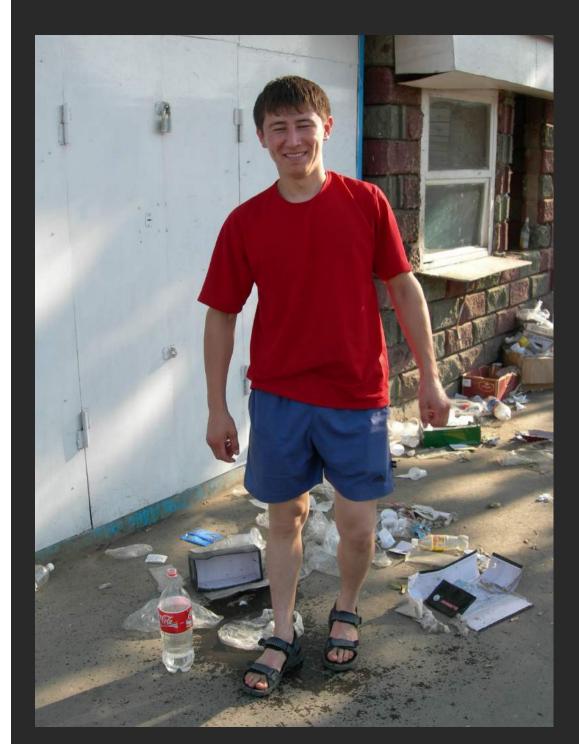














Market trader with dirty feet







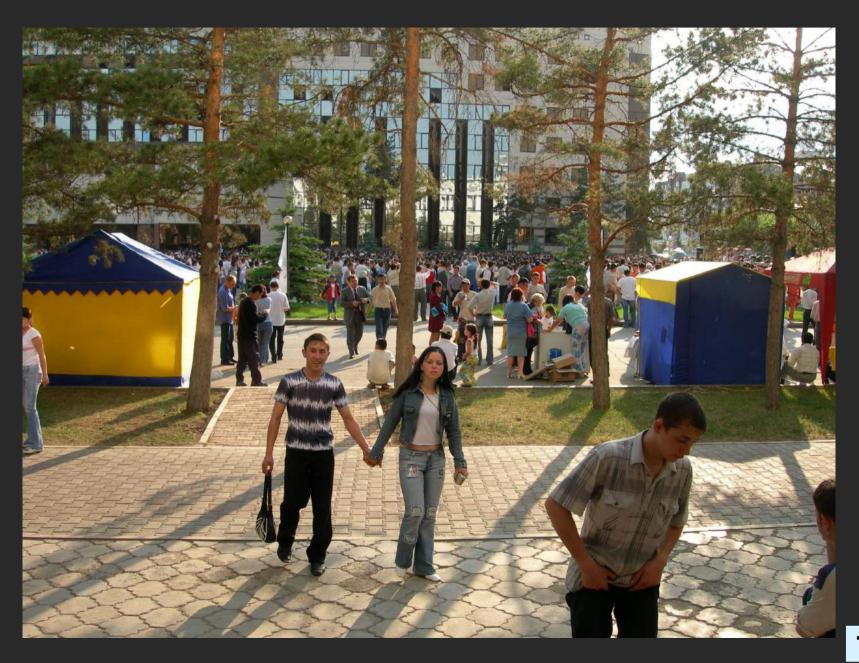








Concert in the square



Personal guide





Participation of experts





The end



