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**Planning a new capital city:
Astana
Kazakhstan**

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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



ti

Гор



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



Loss of street structure – trees gone



High density – no amenity



Low density next to city centre: Diplomats housing



At last – a street



False street line



Industrial wasteland



Poor housing areas



Worn out Soviet-era apartments



Rapid growth of Astana





New admin centre

Blank-sheet planning

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Central axis



Central axis



President's folly



Central mosque

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Presidential palace



Central axis



Private apartments



More apartments



Riverside development



New square



Higher density marches on



New social housing



City hall – “Akimat”



New university quarter



High density private housing by the river



The piano



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



Old style bus



Bus maintenance facility



Public art bus shelter



The greatest resource – the people





Inauguration of Astana's first organ





National day celebrations



National day celebrations



National day celebrations



President Nursultan Najabayev



National day celebrations



National day celebrations



National day celebrations



National day celebrations







Market trader with dirty feet







Concert in the square



Personal guide



Participation of experts

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The end

