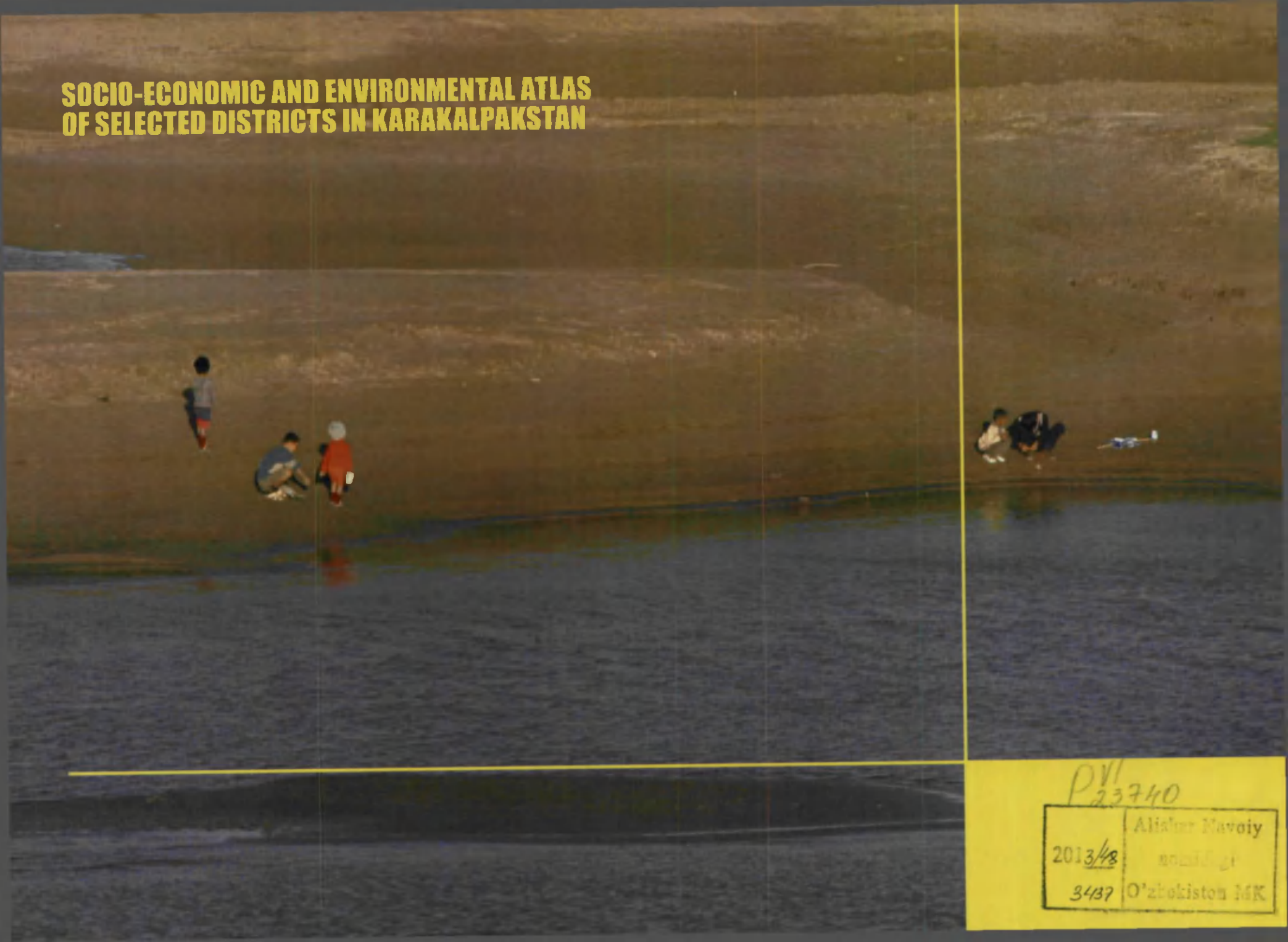


# SOCIO-ECONOMIC AND ENVIRONMENTAL ATLAS OF SELECTED DISTRICTS IN KARAKALPAKSTAN



PVI  
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The atlas also represents the first attempt to map indicators which are suitable for monitoring of the achievement of Uzbekistan's national Millennium Development Goals (MDG) at the regional, district and local levels. These "MDG maps" for three districts of Karakalpakstan are presented in the second part of this atlas. They show that there is still a lot of work to be done to improve the statistical base for monitoring progress towards achieving MDGs at the regional and district levels. This is both a challenge and an opportunity for greater cooperation and joint work by all those supporting the country to achieve the MDGs by the year 2015. The ELS project would be honoured if the maps shown in this atlas could be seen as a small contribution towards this effort.

1 The ELS operates also in Namangan region where it has produced similar maps for the three districts of Kasansai, Chartak and Mingbulok.

# CONTENT

This atlas provides a series of maps illustrating the socio-economic and environmental conditions of three districts of the autonomous Republic of Karakalpakstan where the ELS project operates. The selected districts are: Kegeily, Shumanay and Karauzyak. It includes several types of indicators which can be used to make an assessment of the districts communities welfare. These indicators are:

- Demographic
- Education
- Economic
- Health
- Social Protection
- Infrastructures
- Environment

Data has been derived from the survey of Rural Citizens Assemblies and from the Household Survey conducted by Tahlil, Centre for Social Research (CSR) from Mahalla Committees Data in 2005. In addition, some environmental data was obtained from remote sensing imagery processed and analysed by the Geographic Information System (GIS) Centre in Nukus. Data for the indicators at the national and regional level is derived from Uzbekistan's Goskomstat, unless otherwise stated.



## **ACKNOWLEDGEMENTS**

The socioeconomic atlas for Karakalpakstan was developed by the Enhancement of Living Standards Project team with the support of the European Union (EU) and the United Nations Development Programme (UNDP) in Uzbekistan in collaboration with the Tahlil CSR and the GIS Centre in Nukus. The ELS project would like to thank Ms. Angela Baschieri, expert on poverty mapping from the University of Southampton and Mr. Matteo Mode' Information Specialist with UNDP Uzbekistan, who took a leading role in the preparation of the atlas, and provided advice and support.

The views expressed in this booklet do not necessarily reflect the views of the EC and/or the UNDP, its executive Board or United Nations member States. This booklet is an independent publication commissioned by the ELS projects in Karakalpakstan and Namangan region. It is the result of a collaborative effort by the two projects teams in Karakalpakstan and Namangan region and a number of consultants, advisers and authors coordinated by the ELS Programme. The boundaries and names shown and the designation used on the maps presented in the booklet do not imply official endorsement or acceptance by the EC and/or the UN.

## UZBEKISTAN REGIONS (SECOND ORDER ADMINISTRATIVE DIVISIONS)



### ADMINISTRATIVE STRUCTURE OF THE AUTONOMOUS REPUBLIC OF KARAKALPAKSTAN

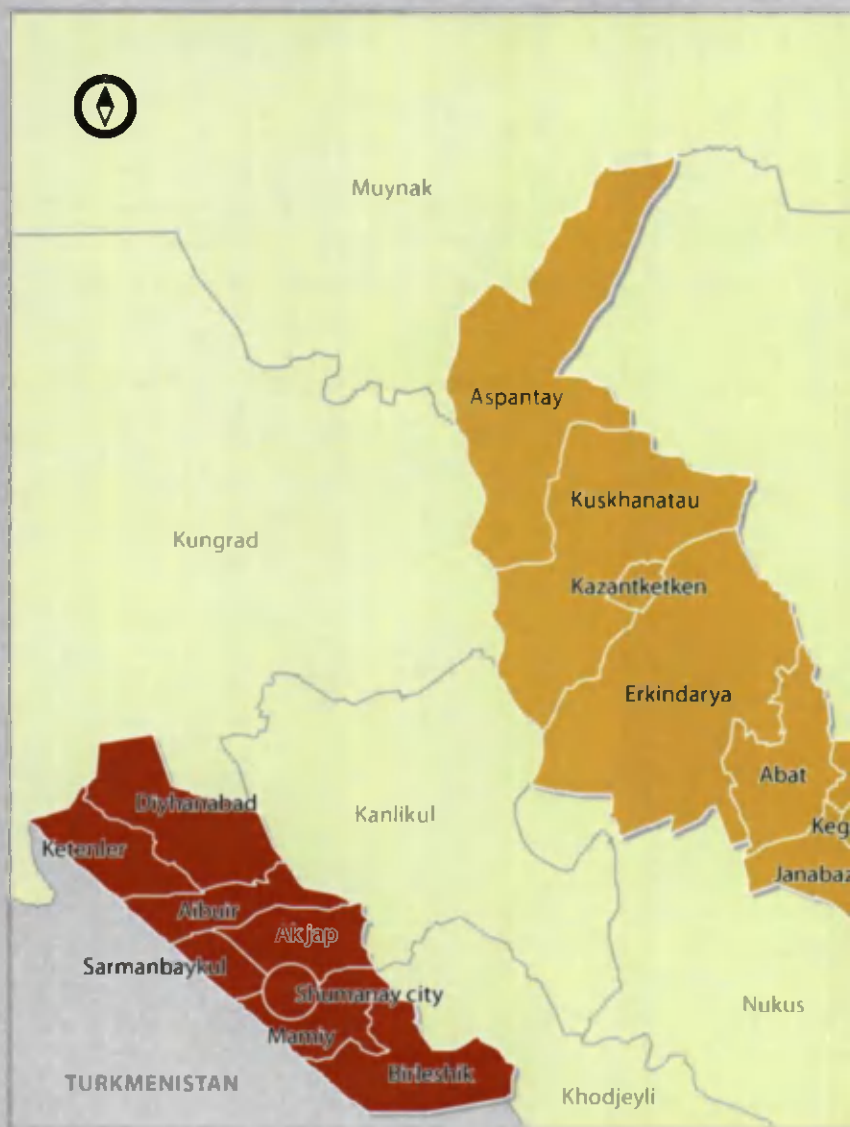
The population of the Republic of Karakalpakstan totals 1.565 mln. people, 760.6 ths. live in cities. The area is 166.6 ths. sq. km. Population density is 9.4 people/sq. km.

Nukus is the regional centre.

There are a total of 14 districts and 10 cities subordinated to the districts.

There are 14 rural towns, 124 Rural Assemblies of Citizens, 1183 villages and 172 mahallas.

# KEY TO RURAL ASSEMBLIES OF CITIZENS (RACS) IN ELS KARAKALPAKSTAN PROJECT'S DISTRICTS



Scale: 1 : 1,000,000

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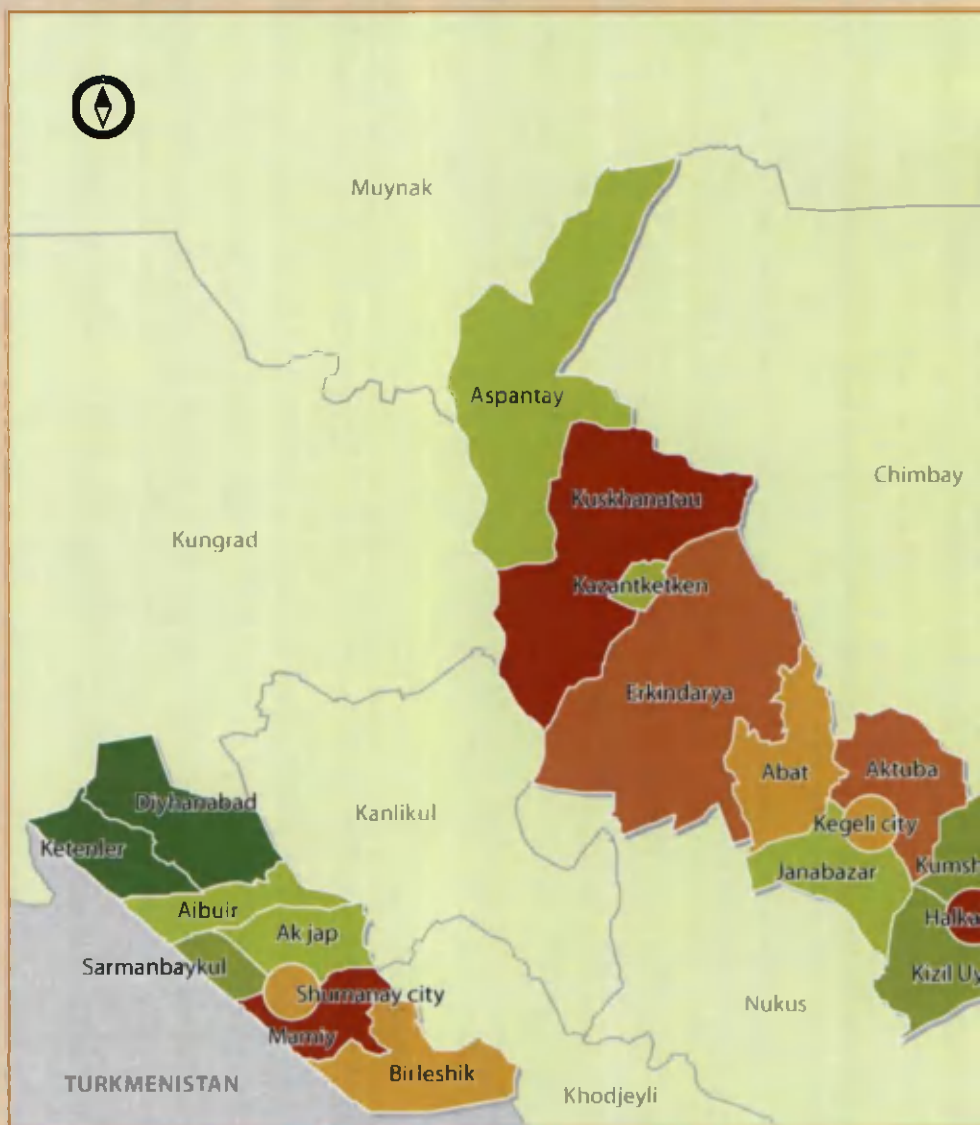
## LEGEND

- Karauzyak
- Kegeyli
- Shumanay
- Karakalpakstan Rayons' Borders
- Urban areas

**ADMINISTRATIVE  
DIVISIONS**



## CHILDREN LESS THAN 7 YEARS OLD (%)



Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.

Scale: 1 : 1,000,000

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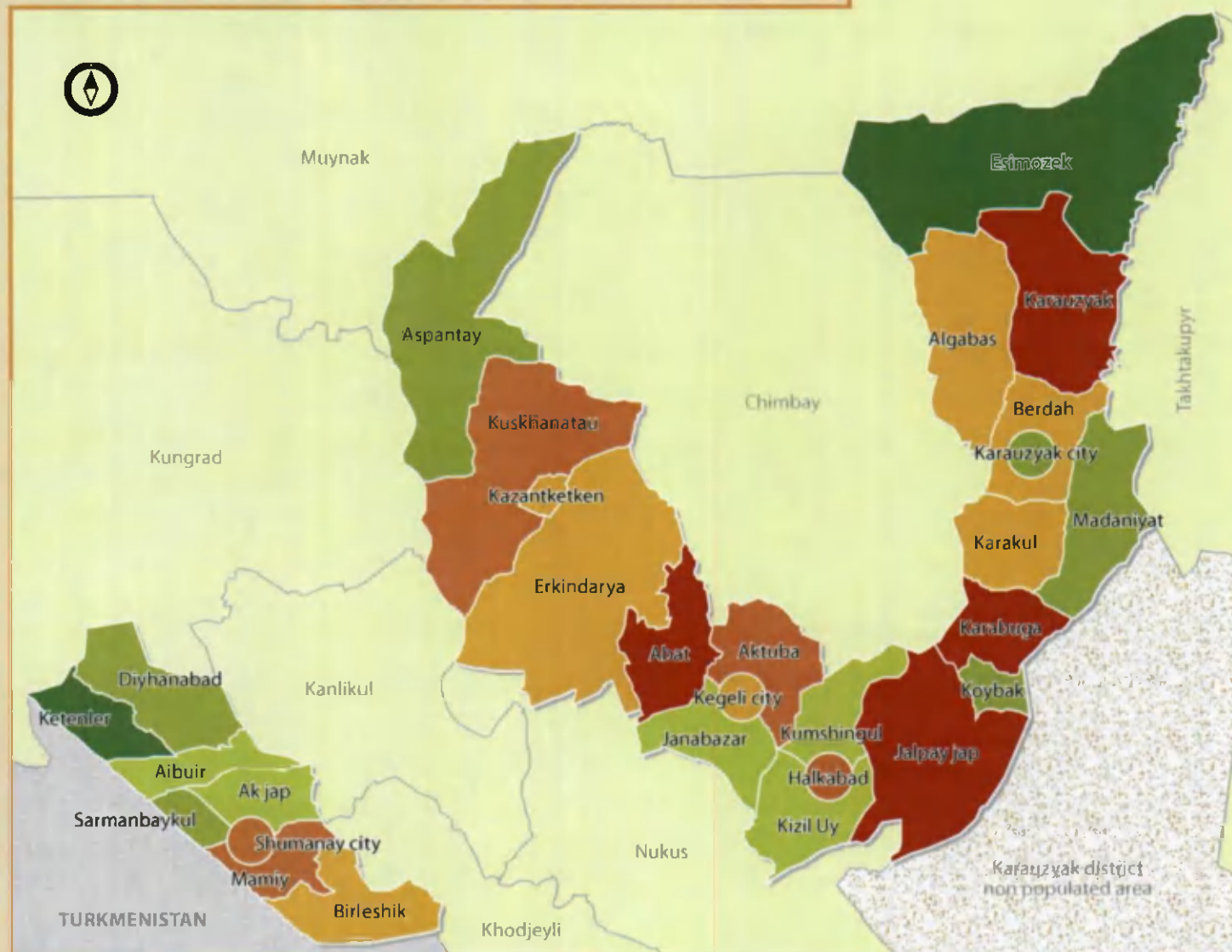
## LEGEND

- Below 7.50
- 7.51–10.00
- 10.01–12.50
- 12.51–15.00
- 15.01–17.50
- Above 17.50
- Karakalpakstan rayons' borders
- Urban areas

This map shows the percentage of children under 7 years old\*, and areas with unusually high (red) or unusually low (green) shares of young population. This map highlights differences in fertility levels. In Karakalpakstan 14.9 per cent of the population is under 7 years old compared to 16.7 per cent for the whole country.

\* we consider 7 years old as the upper age limit for this indicator as it is usually collected within the statistical system of reporting at the RAC level

## CHILDREN LESS THAN 15 YEARS OLD (%)



### LEGEND

- Below 25.00
- 25.00–30.00
- 30.01–35.00
- 35.01–40.00
- 40.01–45.00
- Above 45.00
- Karakalpakstan rayons' borders
- Urban areas

The percentage of children less than 15 years old\*, shows areas with unusually high (red) or unusually low (green) shares of young population. This map provides information on the number of people that will soon enter the labour market. In Karakalpakstan, 36.9 per cent of the population is under 15 years old compared to 36.7 per cent for the whole country.

\* We consider 15 years old are the upper age limit of this Indicators as it is usually collected within the statistical system of reporting at the RAC level.

Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

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DEMOGRAPHIC

## PENSION AGE POPULATION (%)



### LEGEND

- Below 5.00
- 5.00–7.50
- 7.51–10.00
- 10.01–12.50
- 12.51–15.00
- Above 15.00
- Karakalpakstan rayons' borders
- Urban areas

This map shows the percentage of pension-age population and highlights areas with unusually high (red) or unusually low (green) shares of pension-age population. In Karakalpakstan 6.2 per cent of population is of pension-age, compared to 7.1 for the whole country.

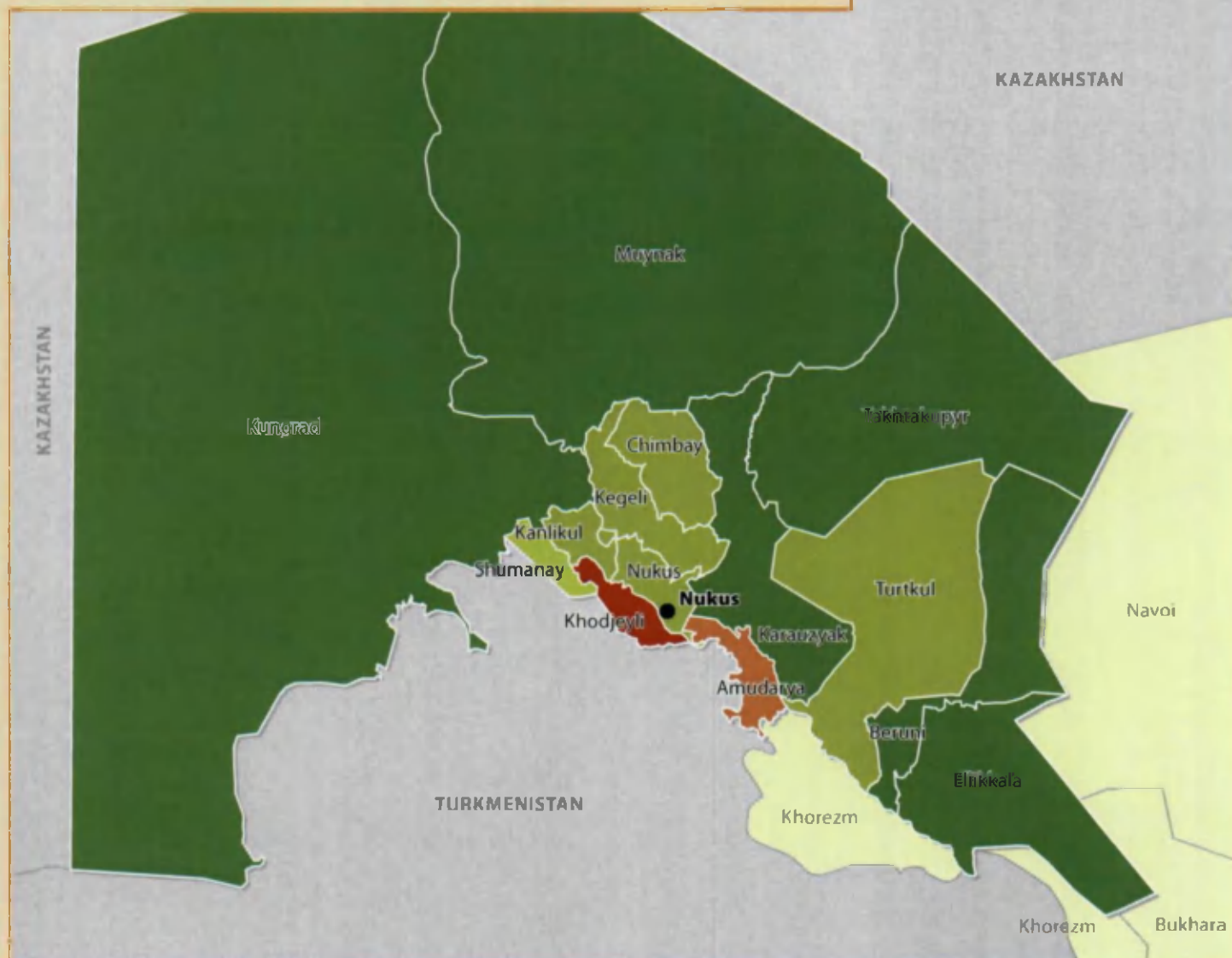
Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

Not official. For internal use only.

DEMOGRAPHIC



## POPULATION DENSITY



### LEGEND

- Below 30.00
- 30.01–60.00
- 60.01–90.00
- 90.01–120.00
- 120.01–150.00
- Above 150.00
- Karakalpakstan rayons' borders

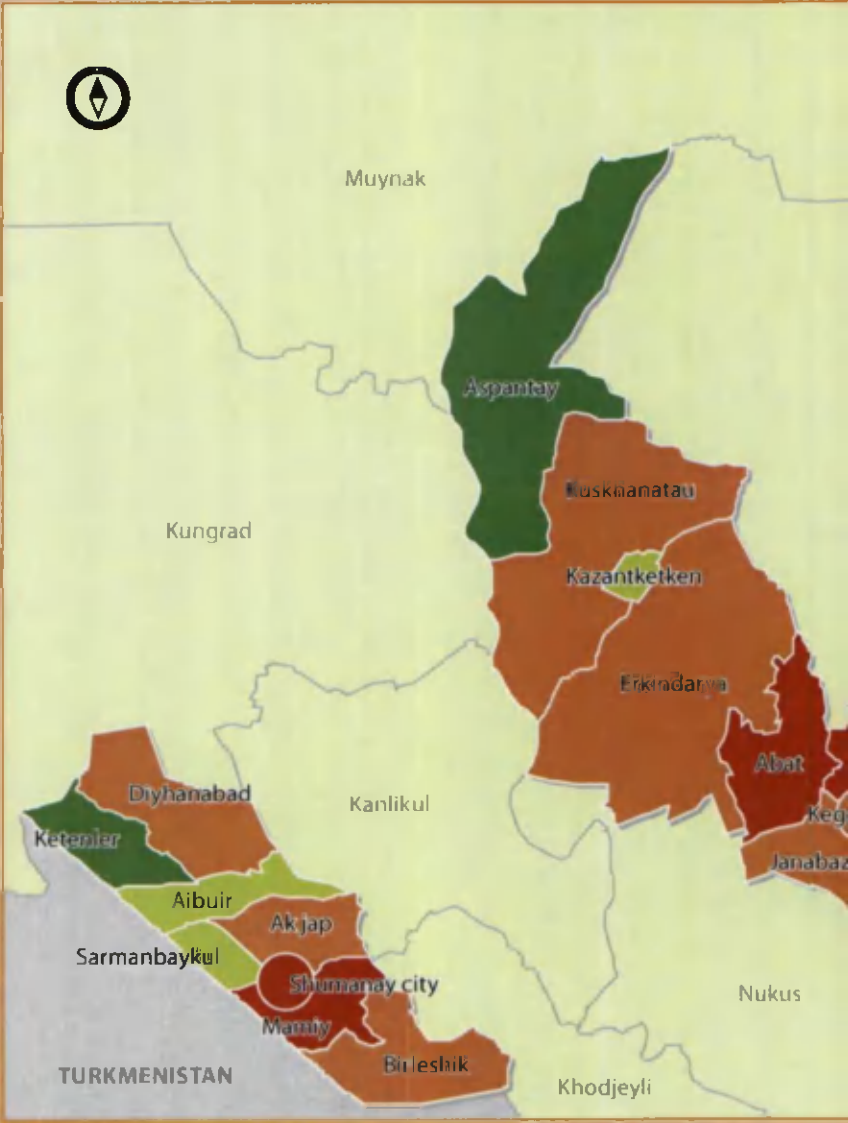
This indicator shows the population distribution by rayon in Karakalpakstan (density is the number of persons per square kilometre).

Source: Regional Hokimyat Statistical Report, 2005.  
Scale: 1 : 4,000,000

Not official. For internal use only.

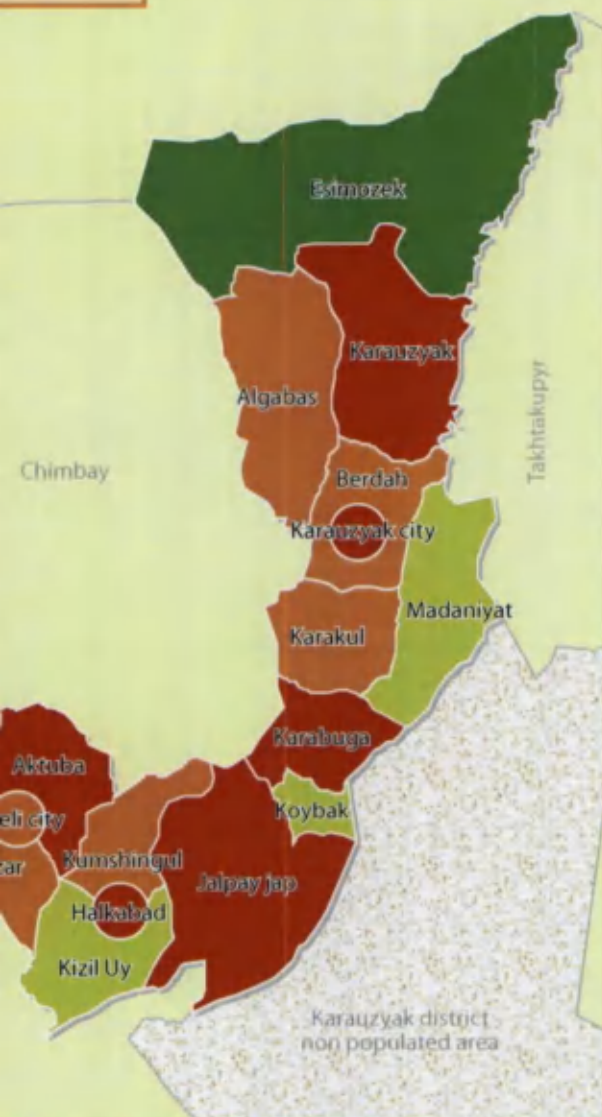
DEMOGRAPHIC

DEPENDENCY RATIO



Source: Study compiled by Tahill CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

Not official. For internal use only.



## LEGEND

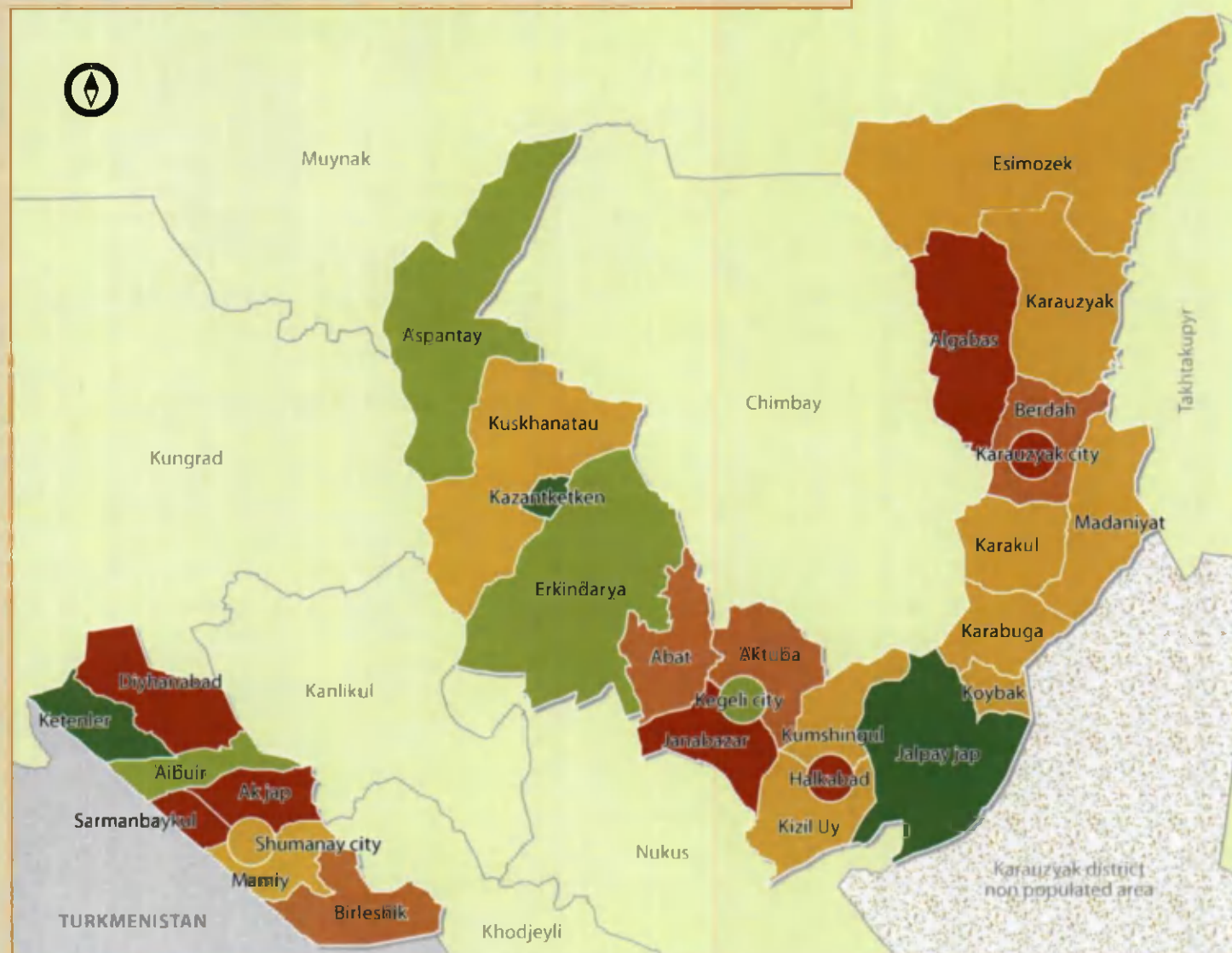
- Below 0.60
- 0.60–0.80
- 0.81–1.00
- Above 1.00
- Karakalpakstan rayons' borders
- Urban areas

The dependency ratio represents the ratio of the non-working population to the working population. Areas with high dependency ratios have a higher number of people who are economically dependent relative to those who are likely to be earning a wage. The dependency ratio for Karakalpakstan is 0.75, compared to 0.78 for the whole country.

In order to calculate the dependency ratio it is necessary to know the number of individuals below the age of 15 and above the age of 64 (those being considered the non-working population), and the total number of individuals between the age of 15 to 64 (those being considered as the working population). At the RAC level, the information on population above the age of 64 was not collected, mainly because the age of 60 or 54 is considered the official pension age for men and women respectively. Hence, the indicator was calculated using the threshold of 60 years for men and 54 years for women instead of 64 years.



## OLD AGE DEPENDENCY RATIO



### LEGEND

- Below 0.10
- 0.10–0.15
- 0.16–0.20
- 0.21–0.25
- Above 0.25
- Karakalpakstan rayons' borders
- Urban areas

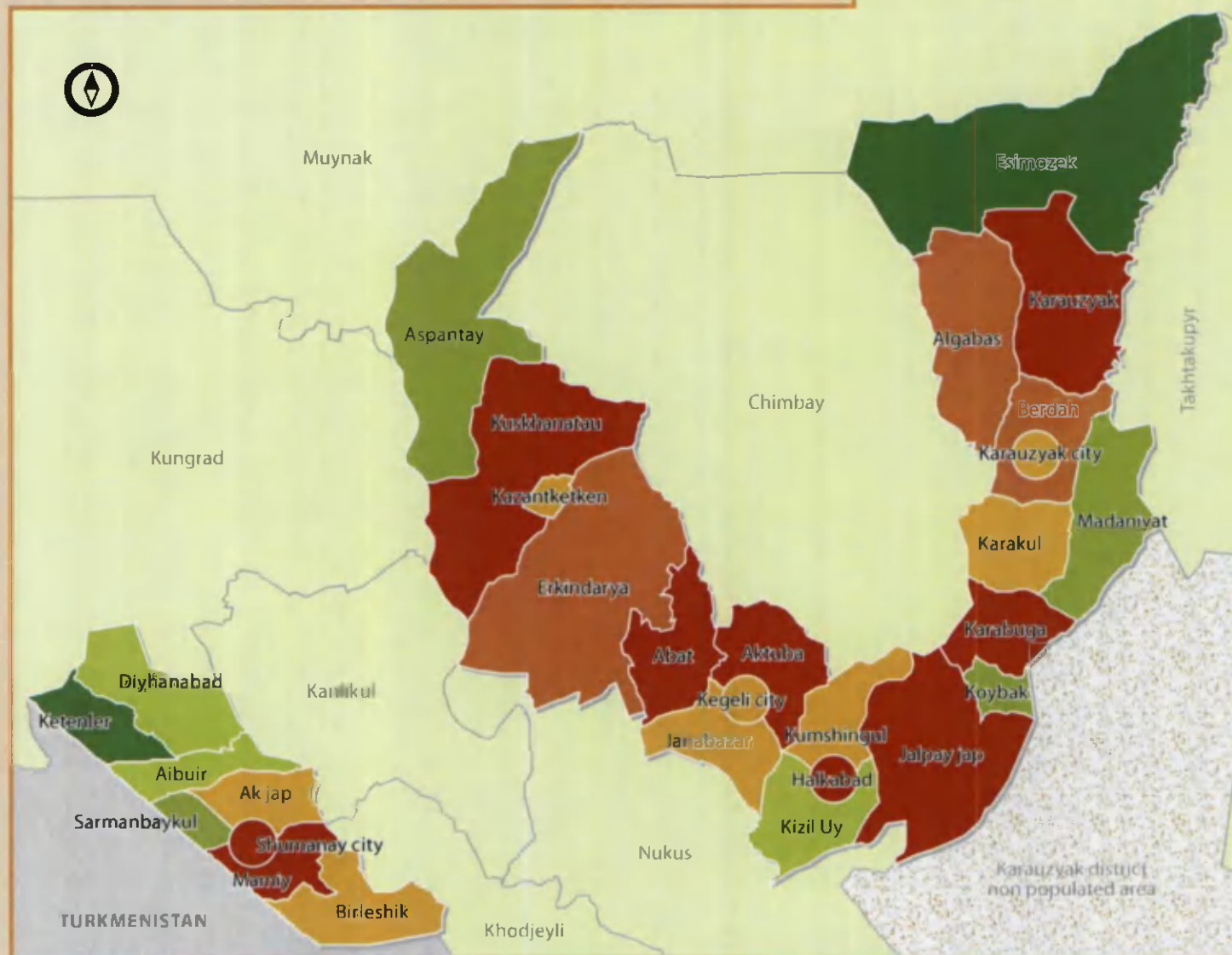
The old age dependency ratio is the ratio of the pension age population to the working age population. It gives a measure of the rate at which the population is aging. The old age dependency ratio for Karakalpakstan is 0.109, compared to 0.127 for the whole country.

Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

Not official. For internal use only.

DEMOGRAPHIC

## CHILD DEPENDENCY RATIO



### LEGEND

- Below 0.40
- 0.41-0.50
- 0.51-0.60
- 0.61-0.70
- 0.71-0.80
- Above 0.80
- Karakalpakstan rayons' borders
- Urban areas

The child dependency ratio is the ratio of the young non-working population to the working age population. A figure over 1.0 indicates that there is more than one child to each working age person, while less than 1.0 indicates that there is less than one child to each person of working age. The child dependency ratio is 0.698 for Karakalpakstan, compared to 0.654 for the whole country.

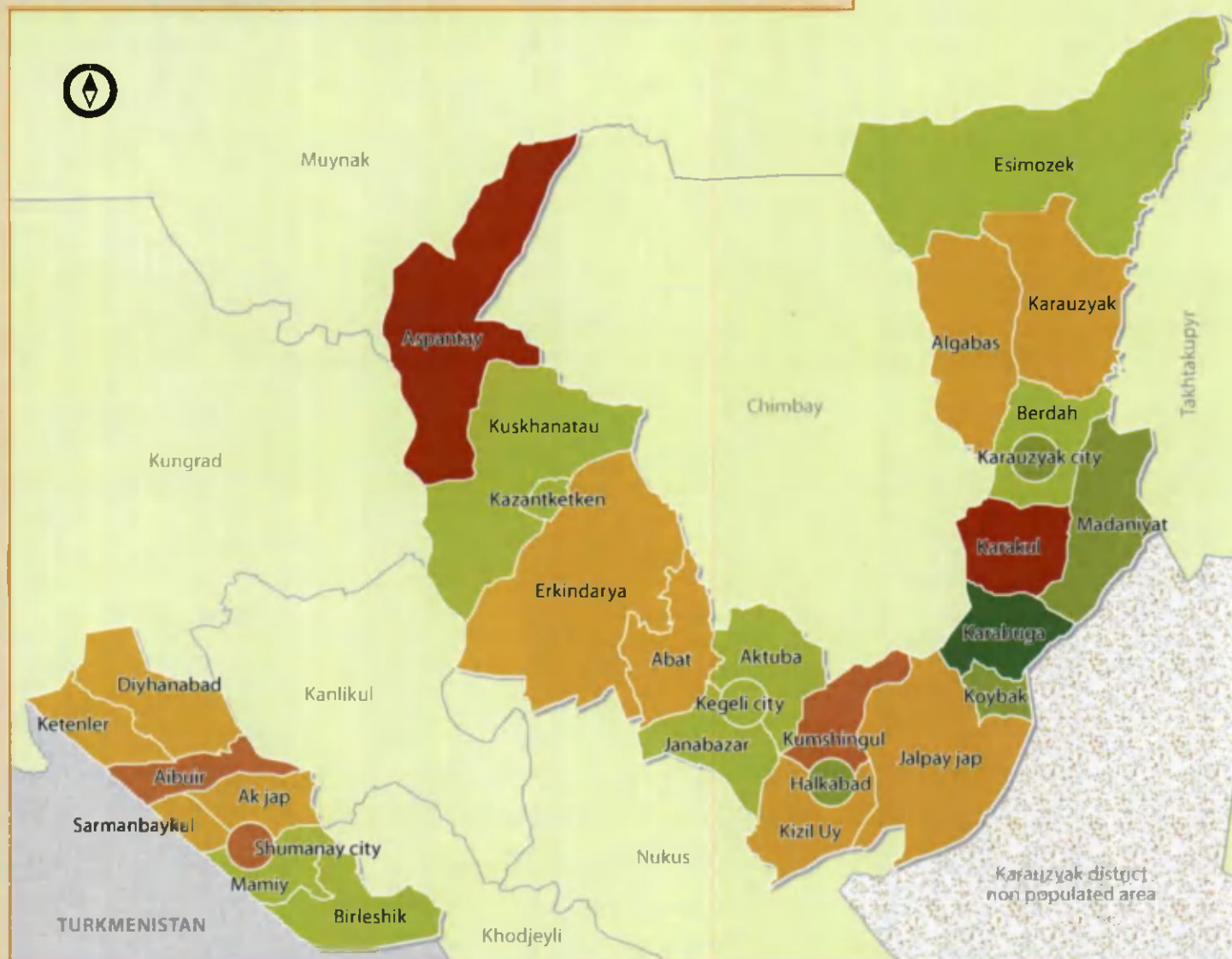
Source: Study compiled by Tahlii CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

Not official. For internal use only.

DEMOGRAPHIC



## AVERAGE HOUSEHOLD SIZE



### LEGEND

- Below 5.25
- 5.26–5.75
- 5.75–6.25
- 6.26–6.75
- 6.76–7.25
- Above 7.25
- Karakalpakstan rayons' borders
- Urban areas

The average household size reflects both living arrangements and differences in fertility. In addition, studies have shown that larger households have a greater poverty risk. This indicator is considered a correlate of poverty. This map shows areas with high (red) and low (green) average household sizes.

Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

Not official. For internal use only.

DEMOGRAPHIC



## PUPIL-TEACHER RATIO



### LEGEND

- Below 6.00
- 6.00–7.00
- 7.01–8.00
- 8.01–9.00
- Above 9.00
- Karakalpakstan rayons' borders
- Urban areas

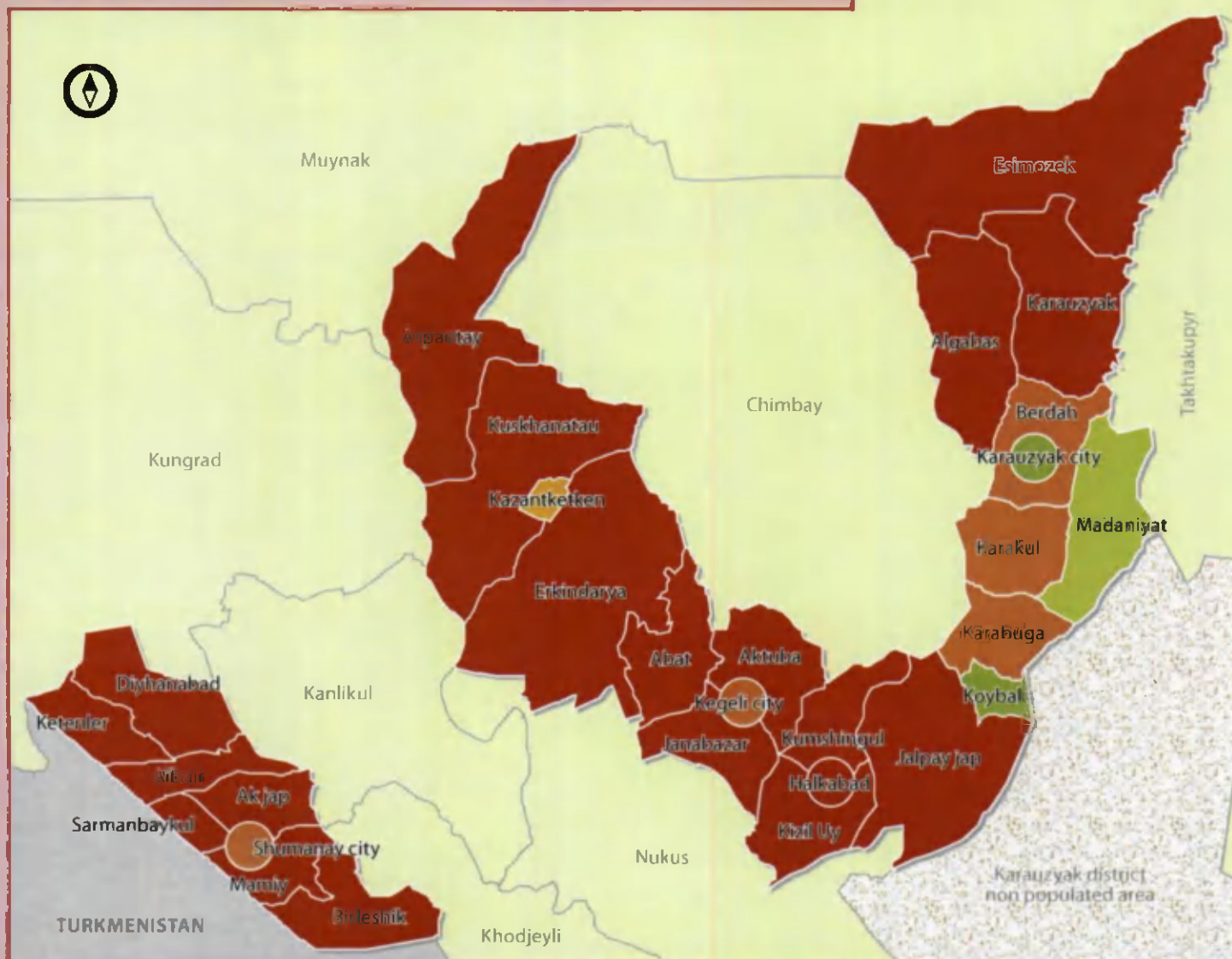
The pupil–teacher ratio is the number of students per teacher. The pupil–teacher ratio can be used as a measure of the quality of schooling, but it also reflects the density of population in rural and urban areas.

Source: Study compiled by Tahiri CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

Not official. For internal use only.

EDUCATION

## PRE-SCHOOL ATTENDANCE



### LEGEND

- Below 0.10
- 0.11–0.20
- 0.21–0.30
- 0.31–0.40
- Above 0.40
- Karakalpakstan rayons' borders
- Urban areas

Proportion of students under 7 years of age attending pre-school education.

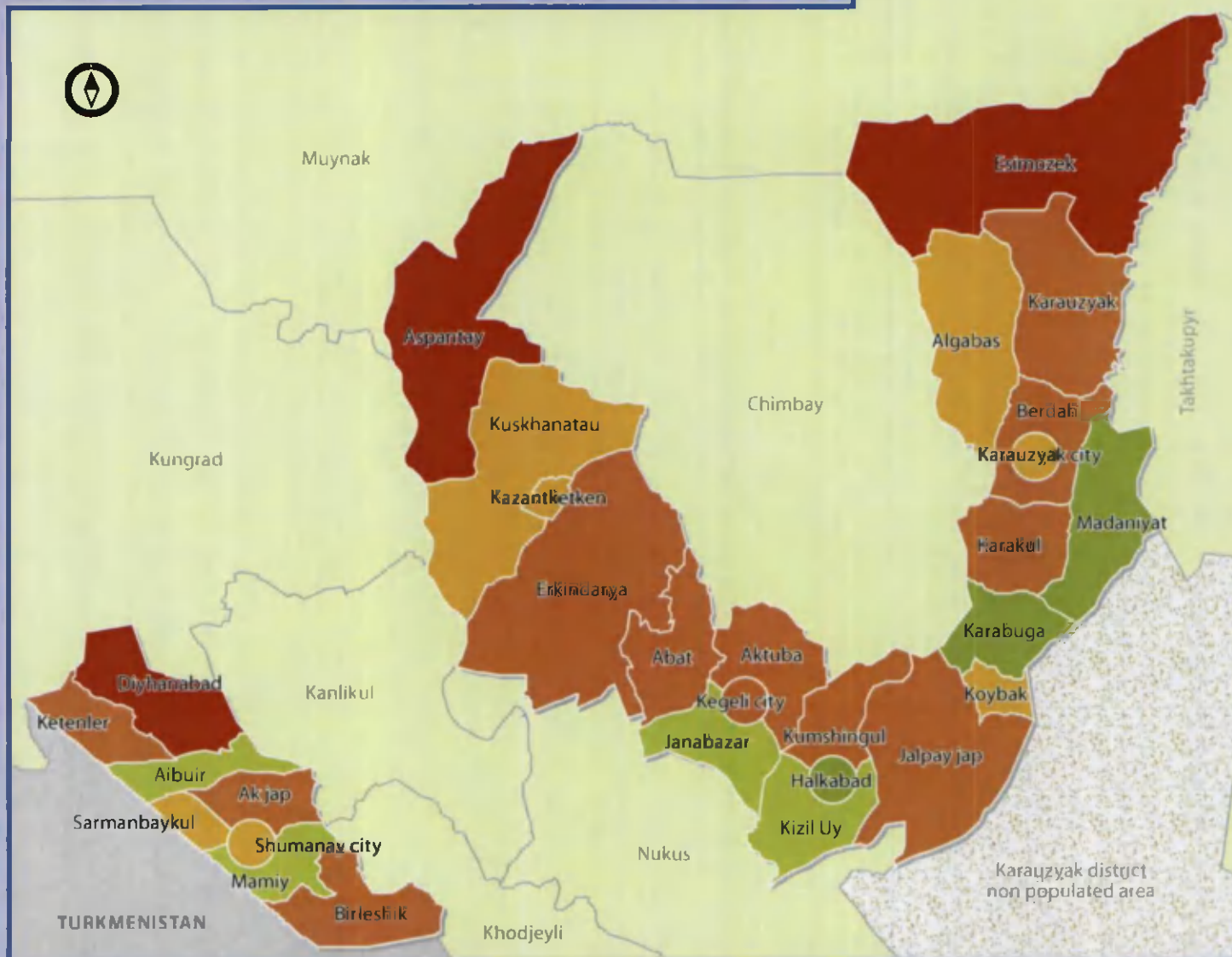
Source: Study compiled by Tahiri CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

Not official. For internal use only.

EDUCATION



# FAMILIES WITH MEMBERS WHO HAVE MIGRATED FOR WORK



## LEGEND

- Below 0.10
- 0.11–0.20
- 0.21–0.30
- 0.31–0.40
- Above 0.40
- Karakalpakstan rayons' borders
- Urban areas

This map shows the percentage of families with at least one migrant-worker as a share of the total families at the beginning of 2005. This indicator helps to give an indication of the size of migrant population, as well as of the amount of remittances received by the communities. However, it should be noted that migration may have a negative impact on the social welfare of families.

Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

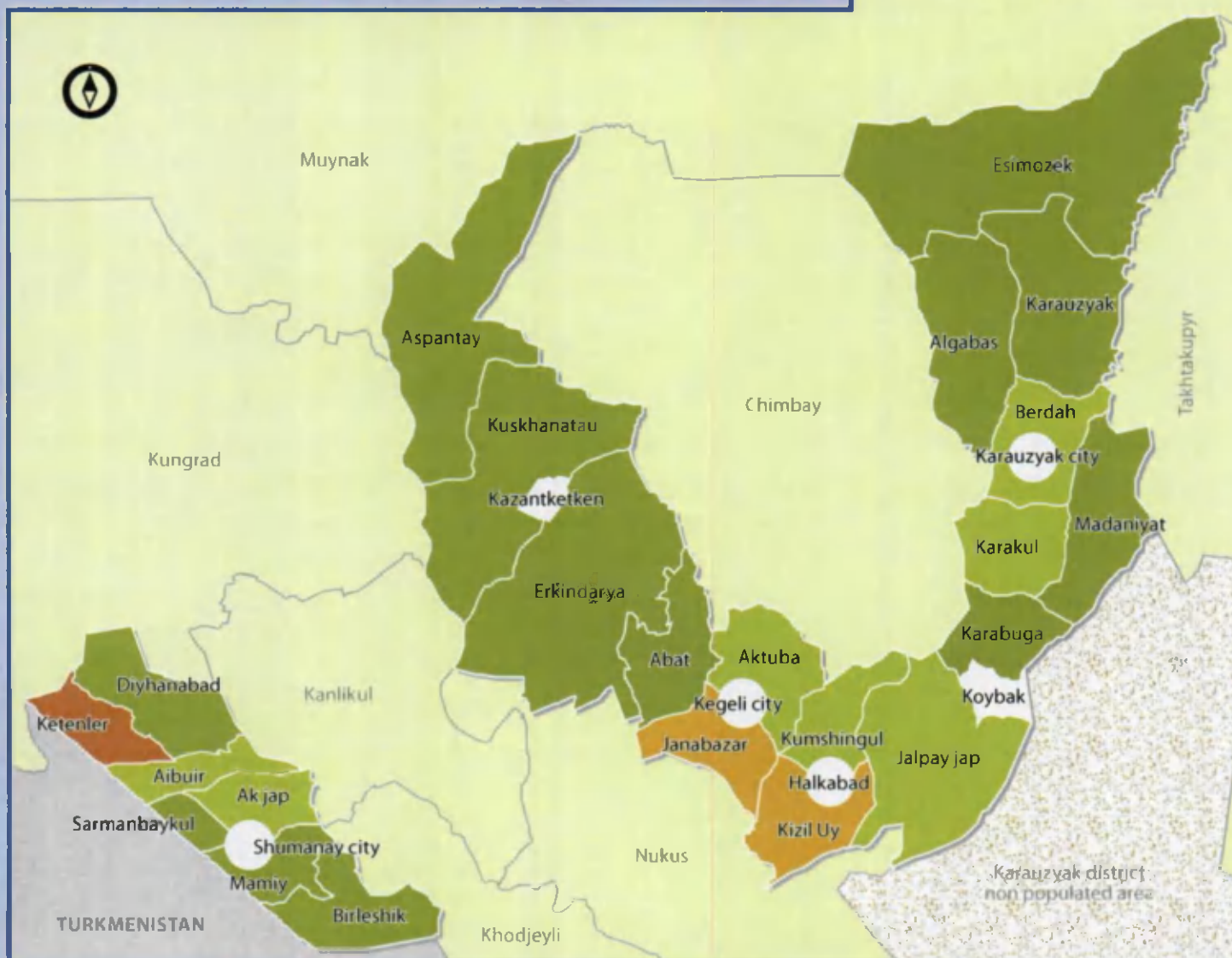
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ECONOMIC



## LAND USED FOR CULTIVATION UNDER GOVERNMENT ORDER (%)



### LEGEND

- Below 20.00
- 20.01–40.00
- 40.01–60.00
- Above 60.00
- Her
- Karakalpakstan rayons' borders
- Urban areas

This map shows the percentage of land used for crops under government order (cotton, wheat, rice, etc.) as a share of the total agricultural land area.

Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

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ECONOMIC

## AVERAGE NUMBER OF HEADS OF CATTLE PER FAMILY



Source: Study compiled by Tahlii CSR from Mahalla Committees Data, 2005.

Scale: 1 : 1,000,000

**Not official. For internal use only.**



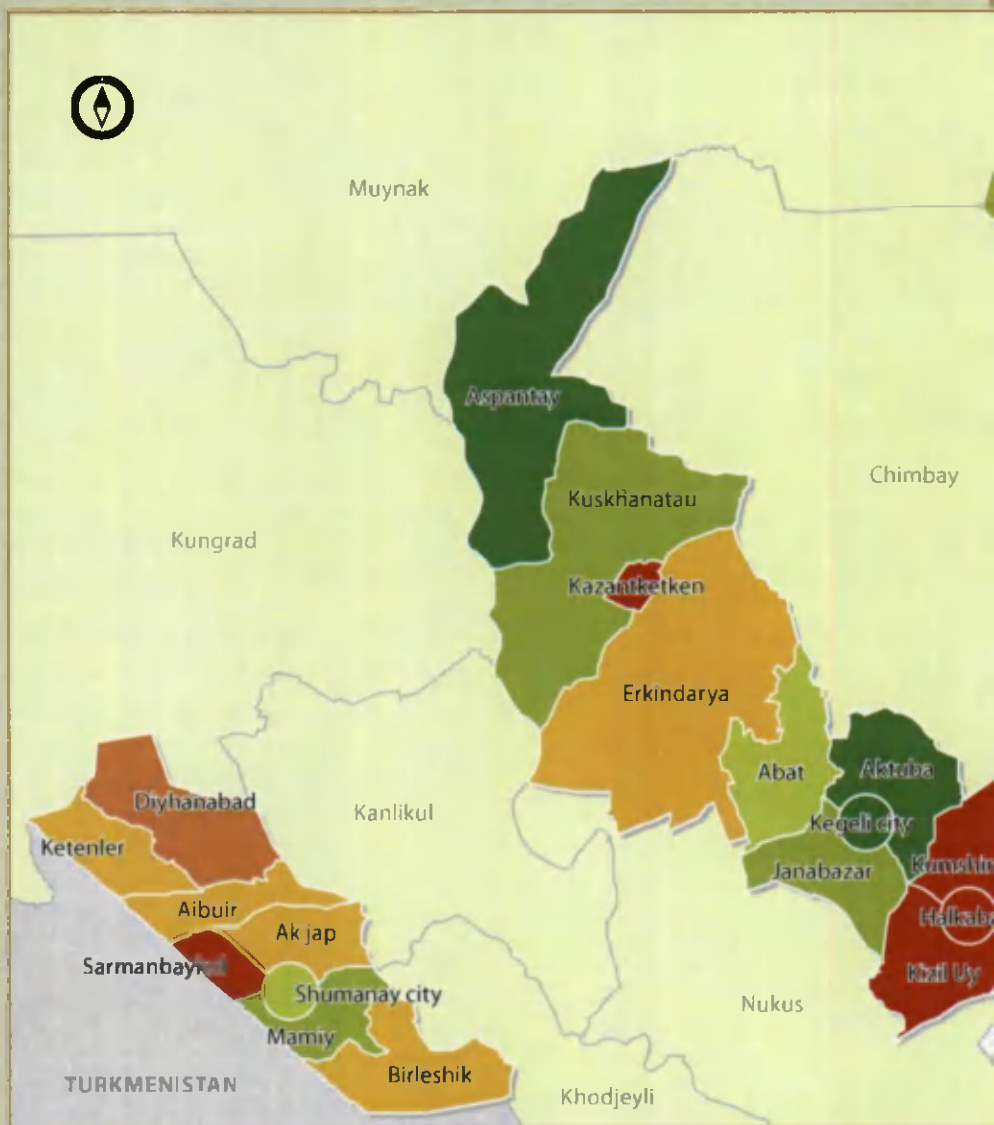
## LEGEND

- Below 2.00
- 2.01-4.00
- 4.01-6.00
- Above 6.00
- Her
- Karakalpakstan rayons' borders
- Urban areas

This map shows the size of the farming sector and also provides an indicator of the earning potential for farmers in the communities.



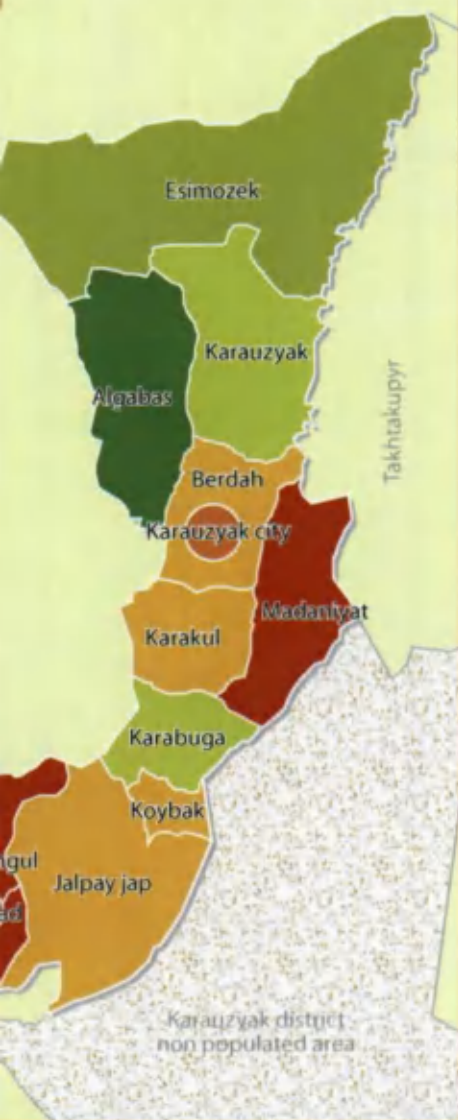
# DISABLED POPULATION (%)



Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.

Scale: 1 : 1,000,000

**Not official. For internal use only.**

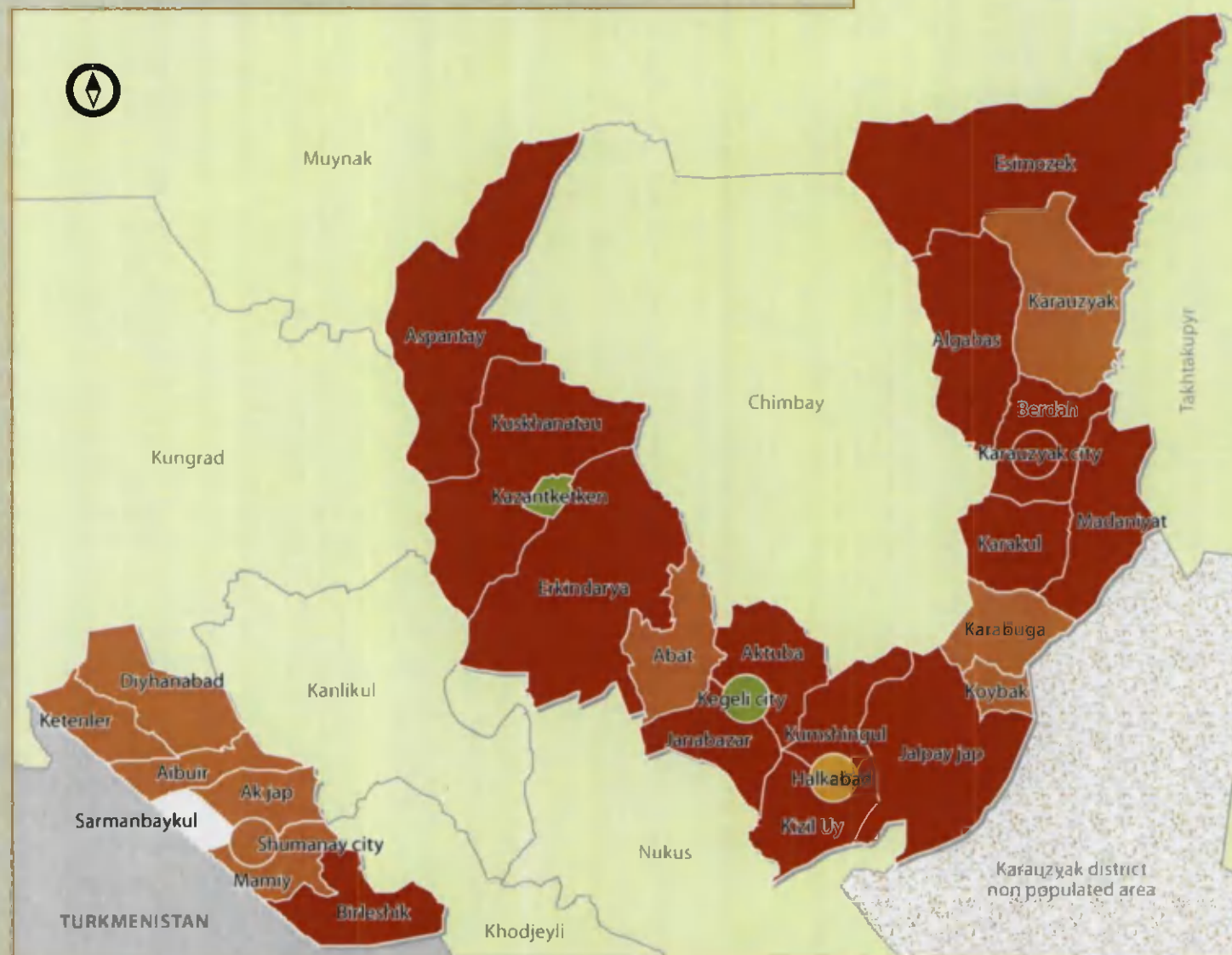


## LEGEND

- Below 1.50
- 1.51–2.00
- 2.01–2.50
- 2.51–3.00
- 3.01–3.50
- Above 3.50
- Karakalpakstan rayons' borders
- Urban areas

This map shows the percentage of registered disabled population. This indicator not only gives a picture of the population health status in the communities, but it also reflects the access to registration offices. As we can see from the map, the percentage of registered disabled is usually higher (red) in urban area.

## NUMBER OF DOCTORS



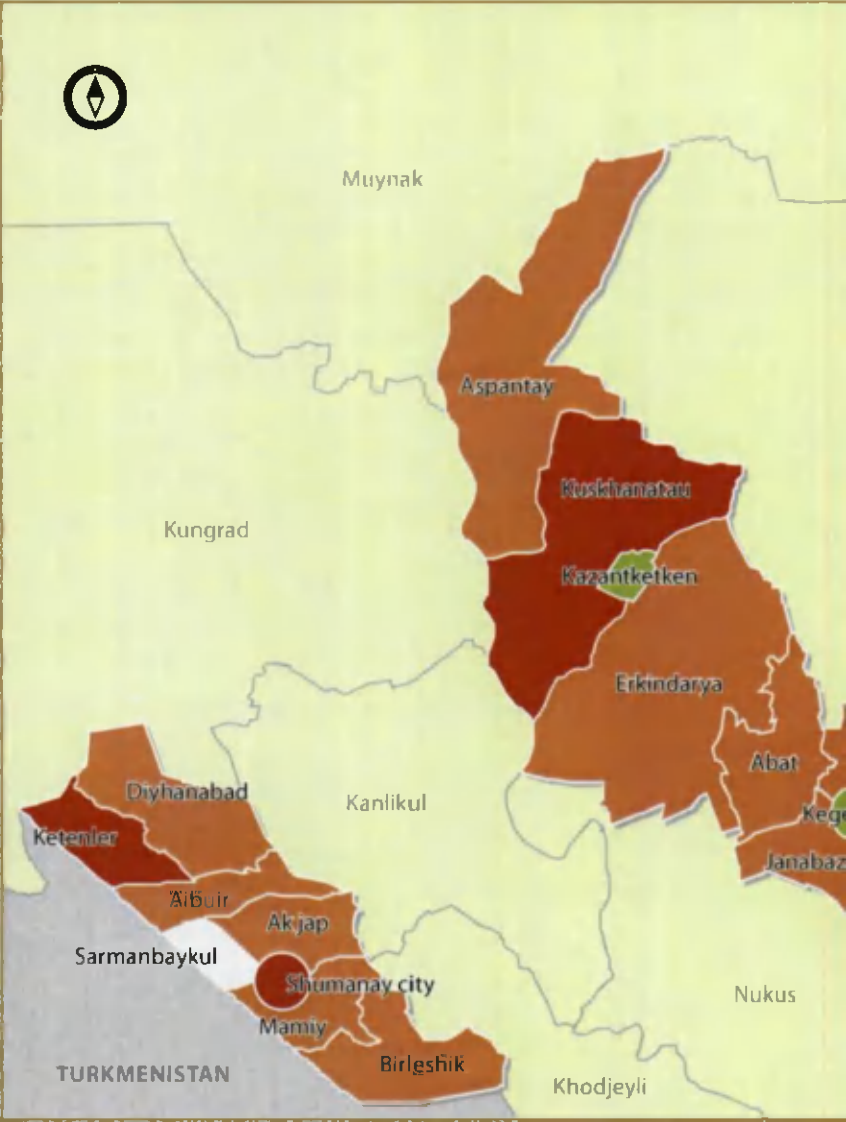
Source: Study compiled by Tahill CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

Not official. For internal use only.

HEALTH

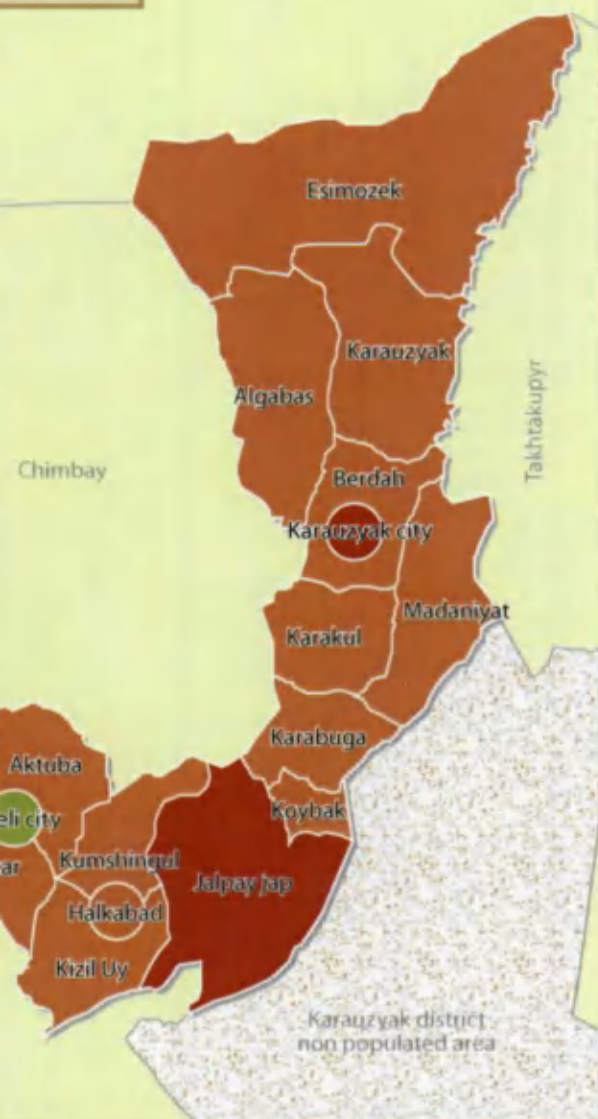


# NUMBER OF NURSES



Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

**Not official. For internal use only.**

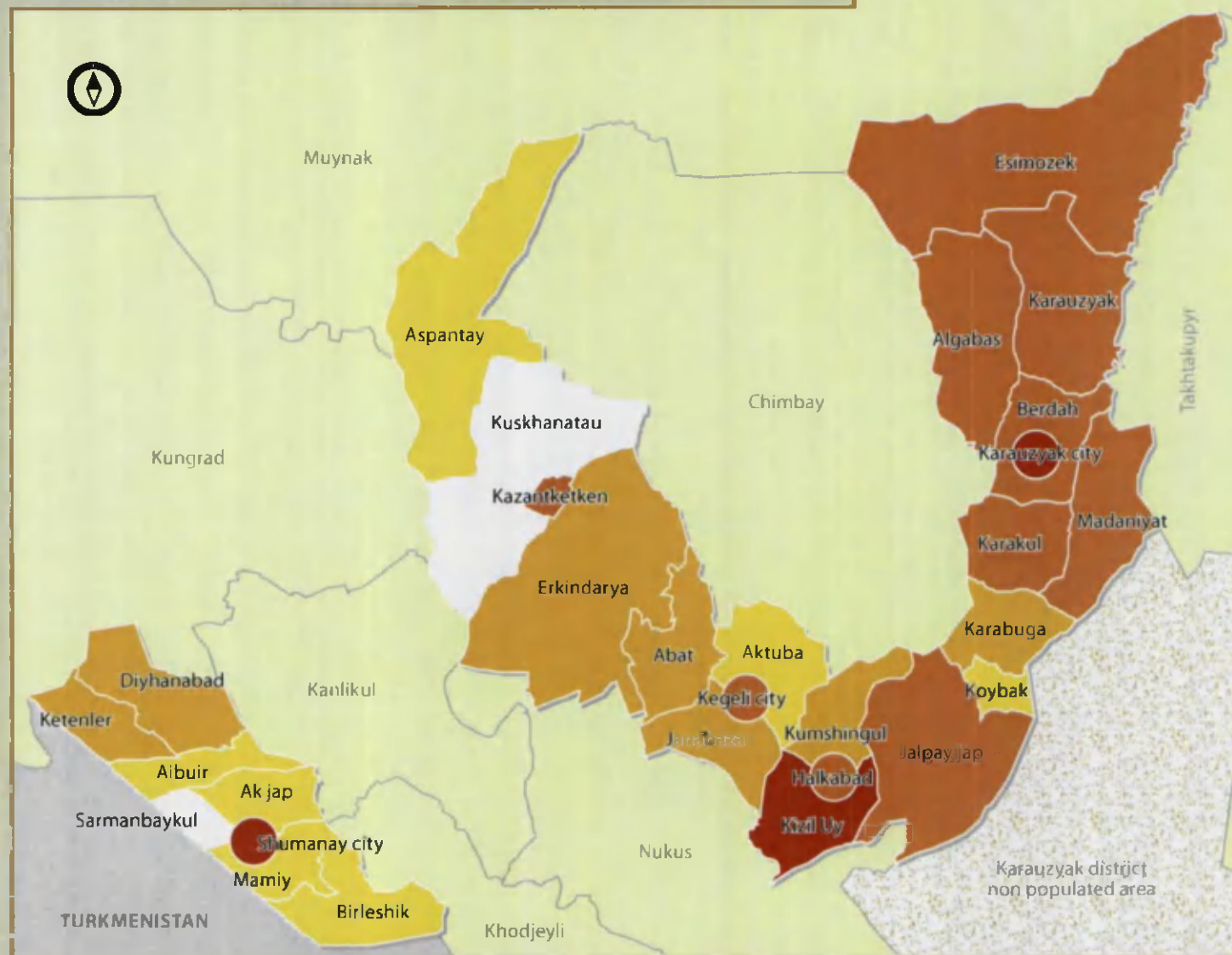


## LEGEND

- Below 2.50
- 2.51-7.50
- 7.51-12.50
- 12.51-17.50
- Above 17.50
- No hospitals
- Karakalpakstan rayons' borders
- Urban areas

This map shows the average number of nurses per thousands of persons as an additional indicator of the quality of healthcare. The area with a higher (green) percentage of nurses per 1000 population are the communities which have better health care quality.

# NUMBER OF TUBERCULOSIS CASES



## LEGEND

- No data
- 1-5
- 6-10
- 11-20
- 21-30
- 31-41
- Karakalpakstan rayons' borders
- Urban areas

The map shows the number of tuberculosis (TB) cases per each community in 2005. Because of the limited population numbers in each community, the map uses absolute numbers of cases instead of the TB incidence rate (number of TB cases per 100,000 persons).

Source: Karakalpakstan TB dispensary, 2005.  
Scale: 1 : 1,000,000

Not official. For internal use only.

HEALTH



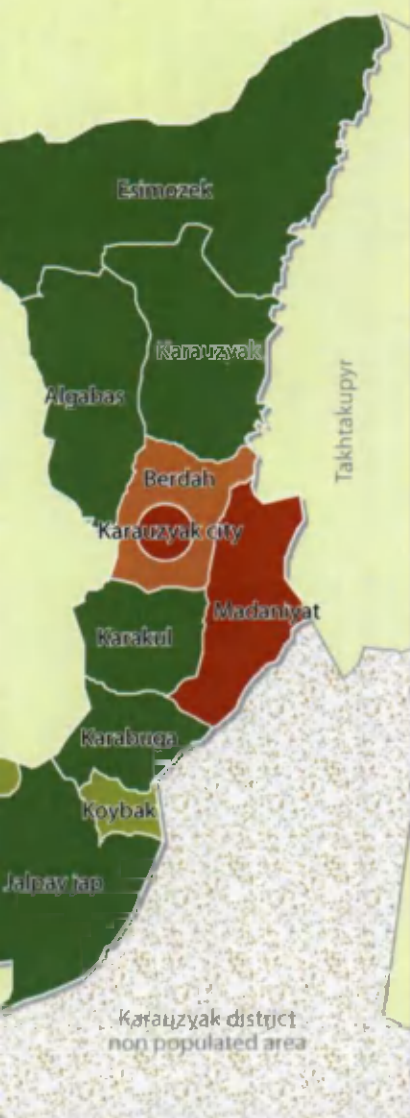
## FAMILIES RECEIVING SOCIAL BENEFITS (%)



Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.

Scale: 1 : 1,000,000

**Not official. For internal use only.**



## LEGEND

Below 10.00

10.01–20.00

20.01–30.00

30.01–40.00

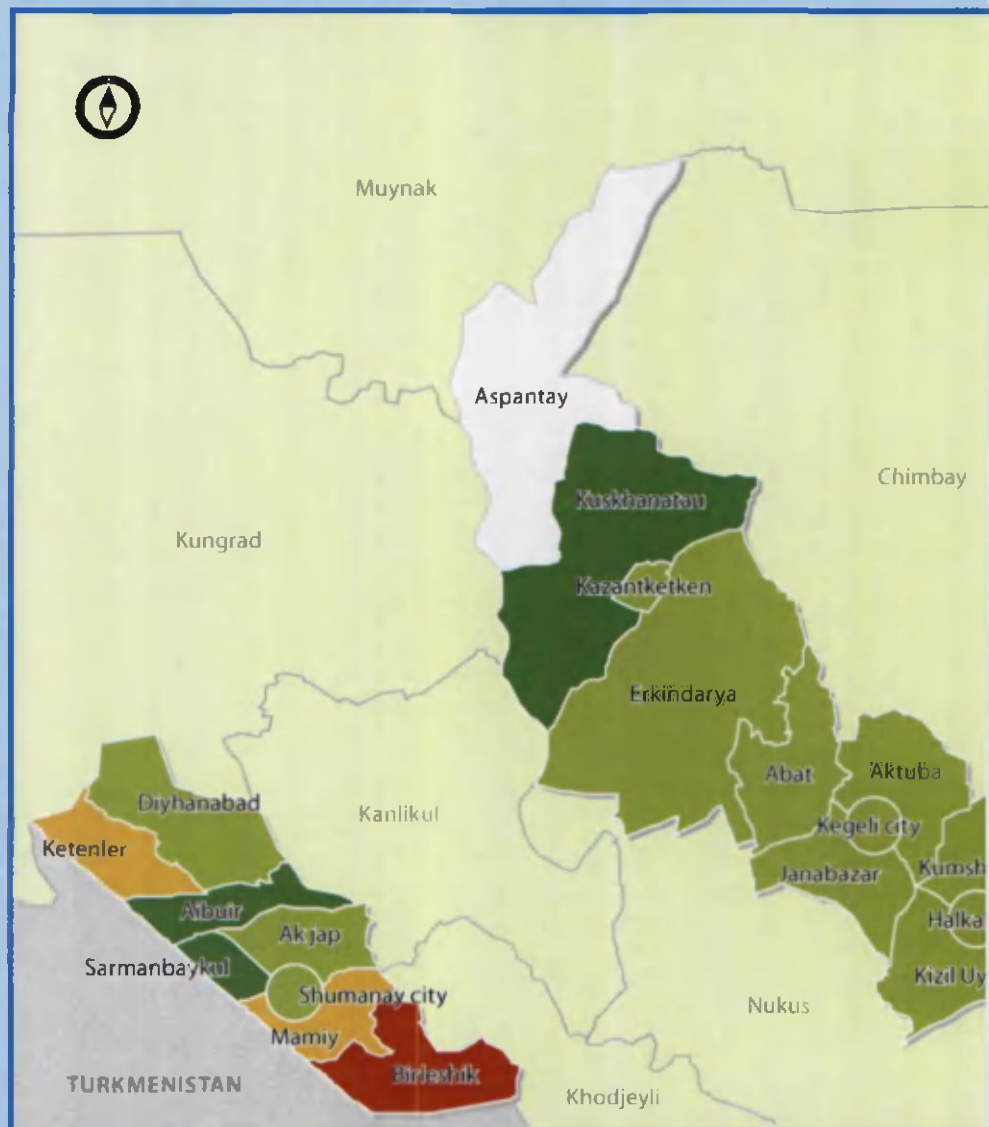
Above 40.00

Karakalpakstan rayons' borders

○ Urban areas

The map shows communities with high (red) and low (green) shares of families receiving social benefits.

## ACCESS TO GAS SUPPLY



Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

**Not official. For internal use only.**





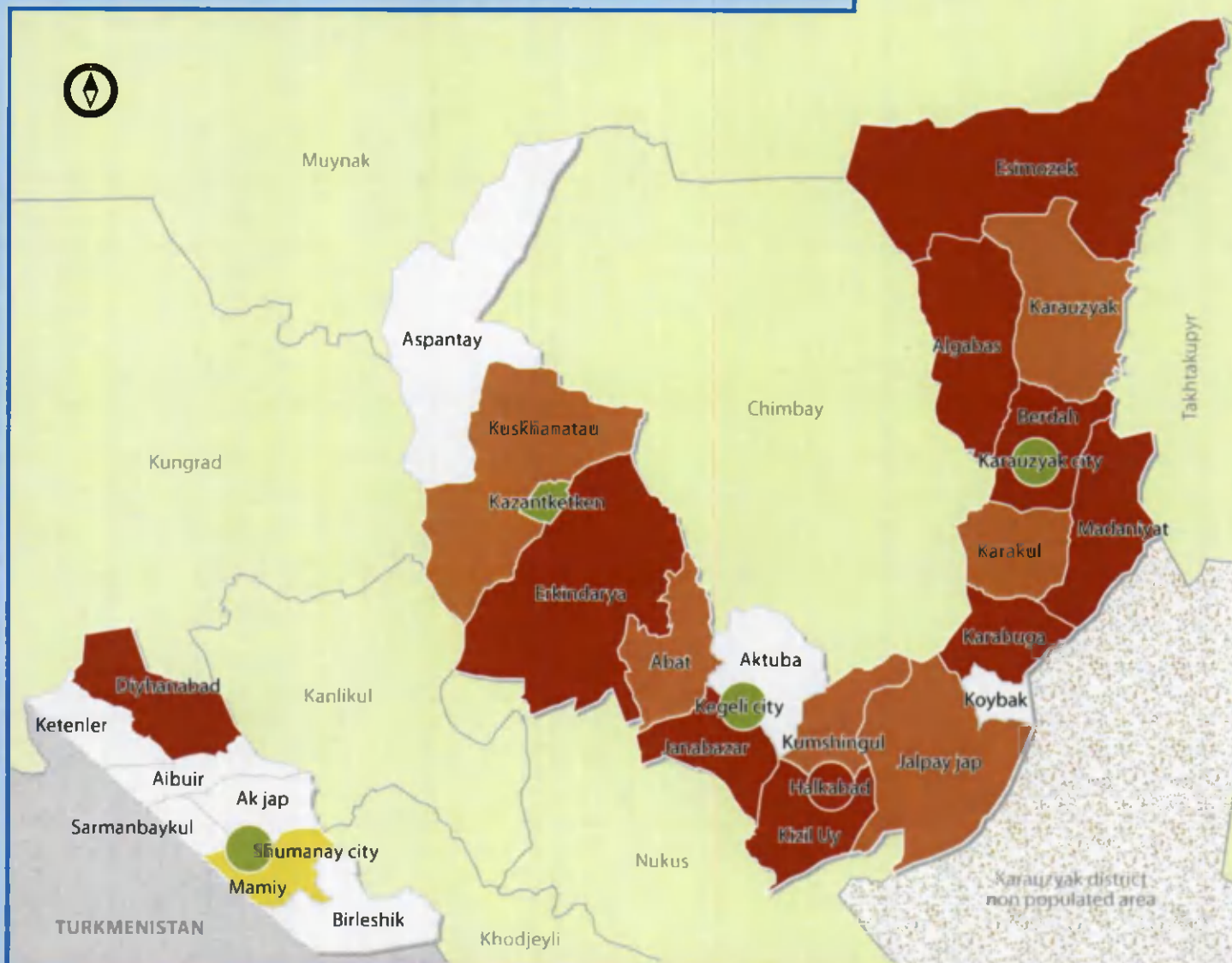
## LEGEND

- Below 10.00
- 10.01–20.00
- 20.01–30.00
- 30.01–40.00
- Above 40.00
- Karakalpakstan rayons' borders
- Urban areas

The map shows the share of households with access to functioning centralized gas supply and communities with low (red) or without (green) access to functioning centralized gas supply. It also shows that coverage of gas supply is not universal in Karakalpakstan.

It should be noted that this map reflects the availability of gas supply but not the quality of the service provided.

## WATER ACCESS



This map shows the percentage of households with access to clean piped water and communities with low (red) or without (white) access to clean piped water. It also shows that the coverage of water supply is not universal in Karakalpakstan.

It should be noted that this map reflects the availability of water pipe but not the quality of the service provided.

Source: Study compiled by Tahlii CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

Not official. For internal use only.

INFRASTRUCTURES

## ELECTRICITY



### LEGEND

- Below 95.00
- 95.01-97.50
- Above 97.50
- Karakalpakstan rayons' borders
- Urban areas

This map shows the share of households with access to electricity. It also shows that electricity supply is almost universal in Karakalpakstan.

it should be noted that this map reflects the availability of electricity but not the quality of the service provided.

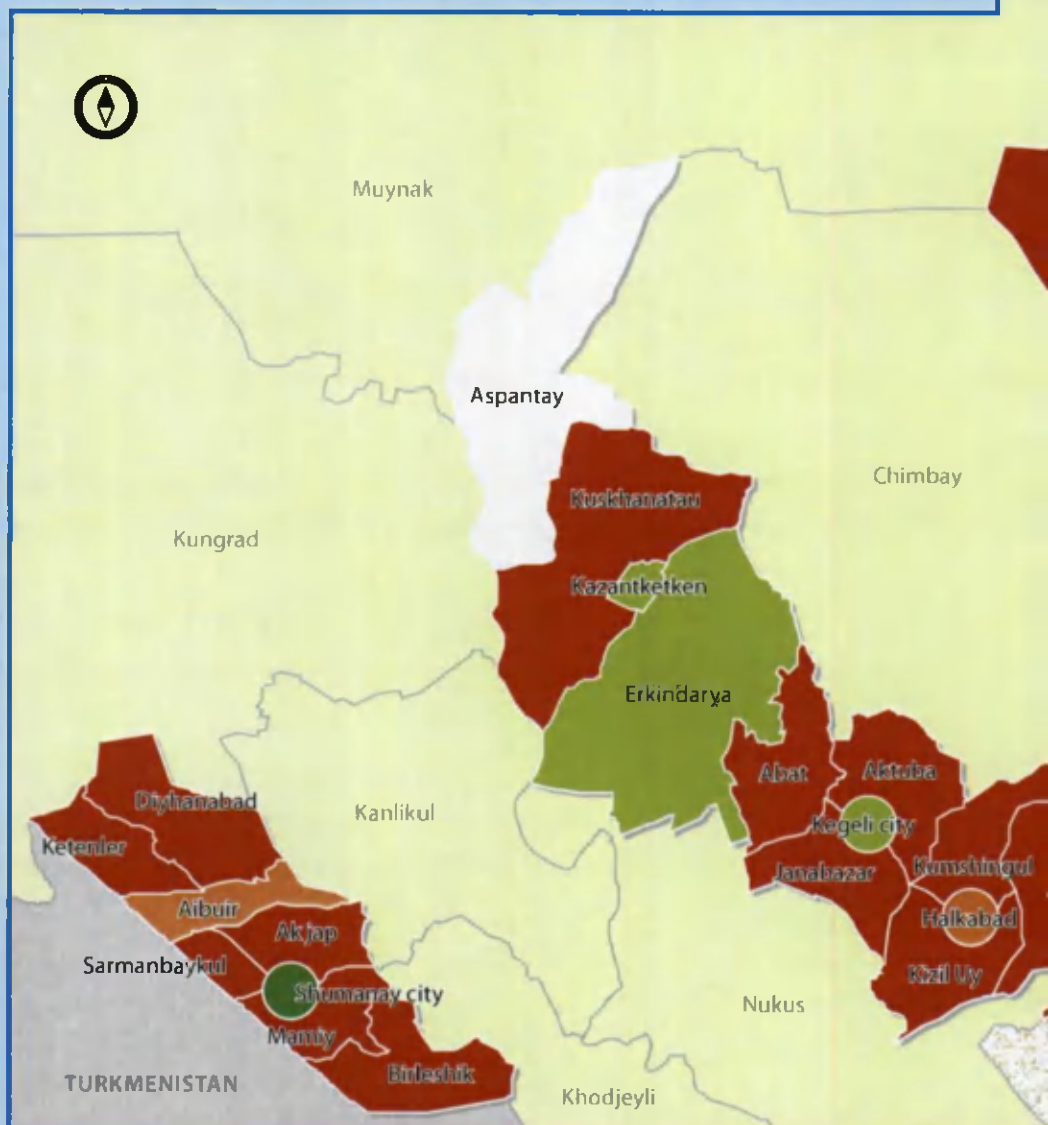
Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

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INFRASTRUCTURES



# TELEPHONE



Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

**Not official. For internal use only.**



## LEGEND

Below 20.00

20.01-40.00

40.01-60.00

Above 60.00

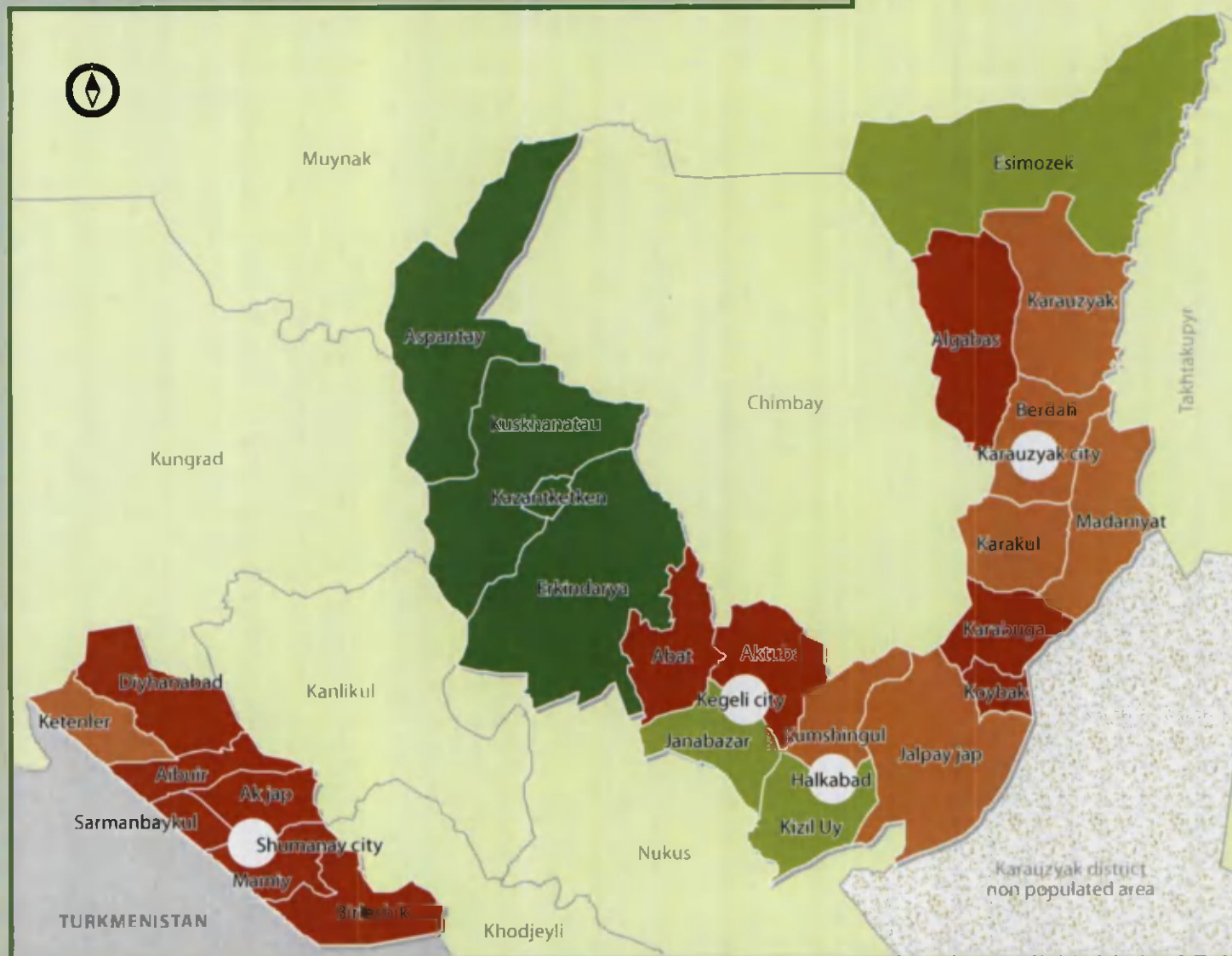
No access

Karakalpakstan rayons' borders

Urban areas

This map shows the share of households with a telephone. It also shows communities with low access (red) or without (white) telephone.

## AGRICULTURAL LAND (%)



### LEGEND

- Below 20.00
- 20.01–40.00
- 40.01–60.00
- Above 60.00
- N. a.
- Karakalpakstan rayons' borders
- Urban areas

This map shows the share of agricultural land as percentage of total land area.

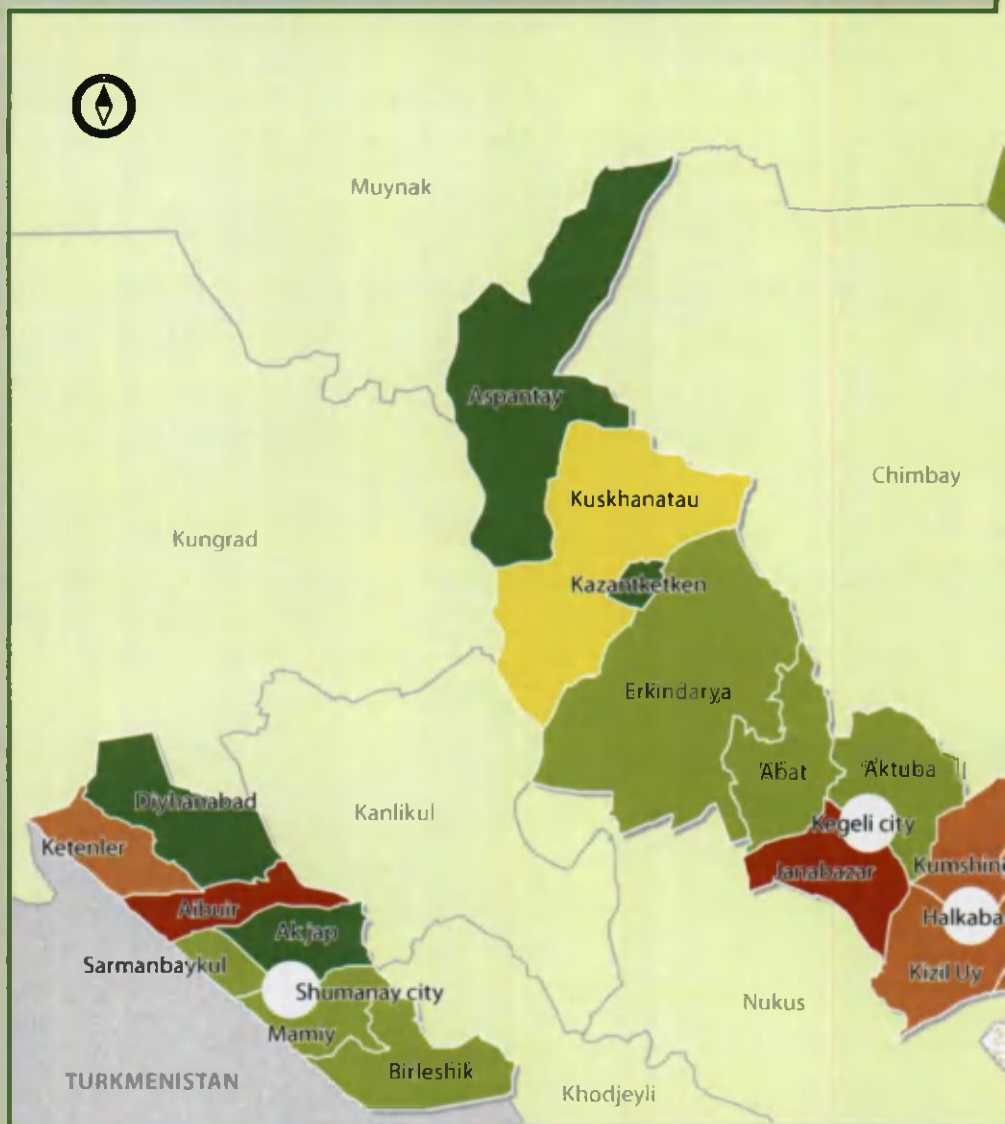
Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

Not official. For internal use only.

ENVIRONMENT

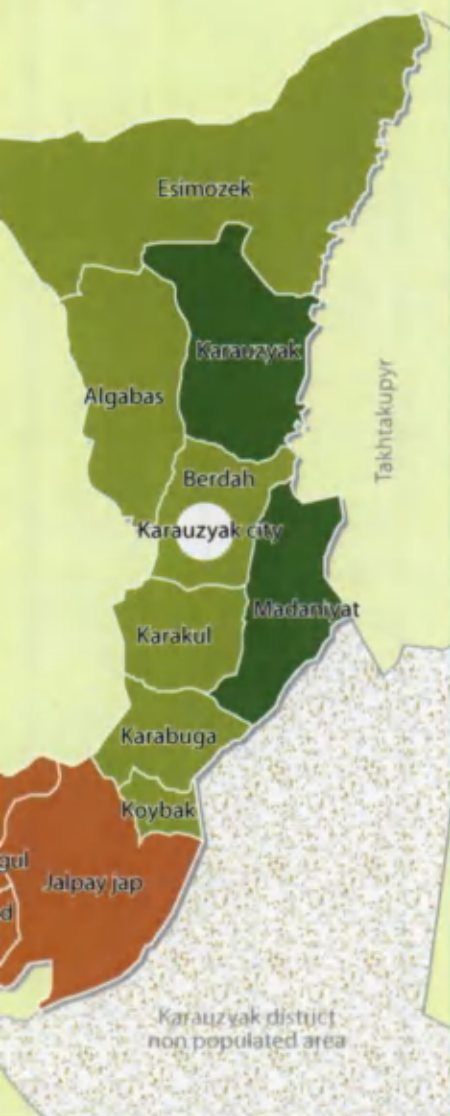


# AGRICULTURAL LAND WITH HIGH WATER TABLE (%)



Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

**Not official. For internal use only.**

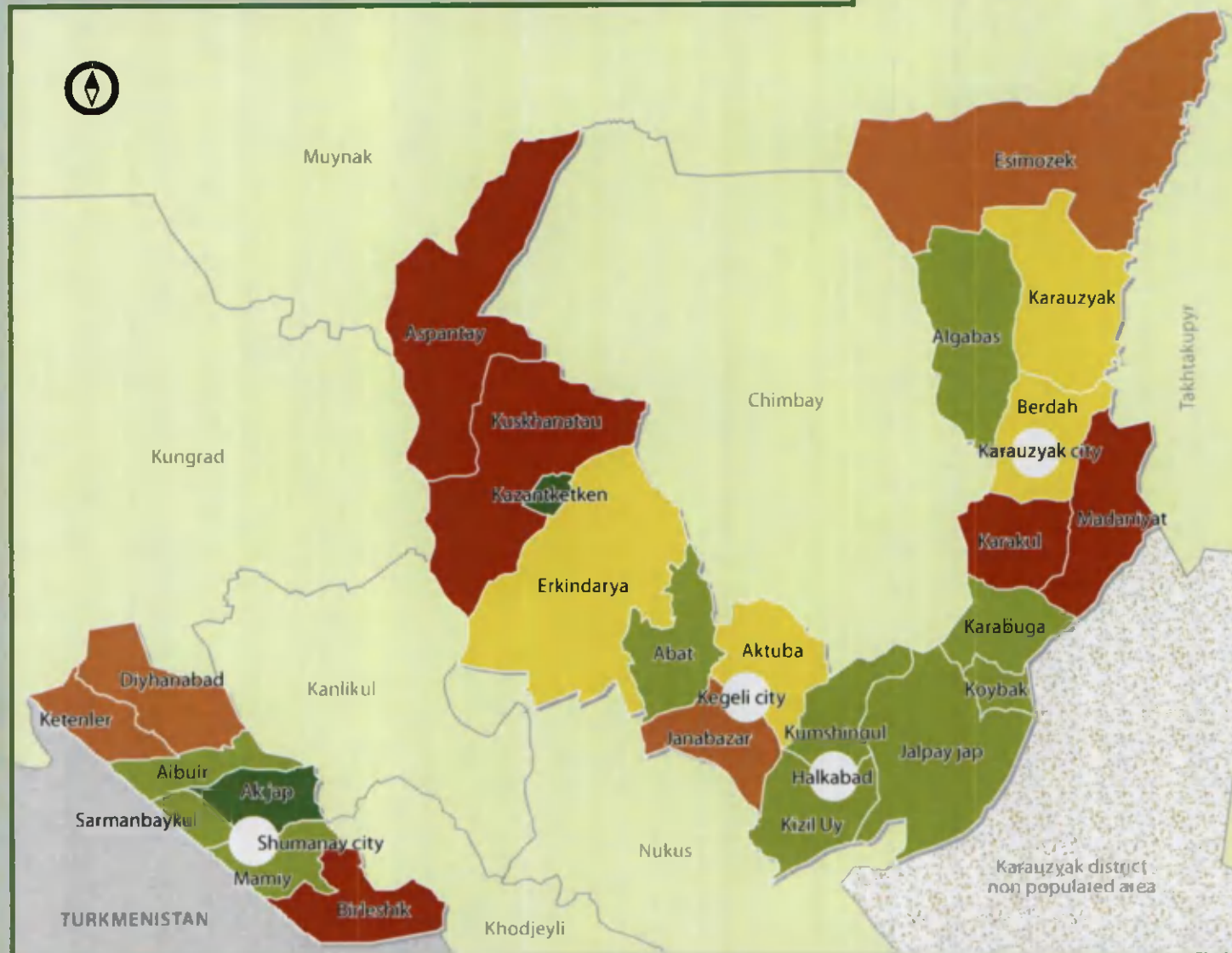


## LEGEND

- No high water table level
- 0.01–10.00
- 10.01–15.00
- 15.01–20.00
- Above 20.00
- N. a.
- Karakalpakstan rayons' borders
- Urban areas

This map shows communities with a high (red) percentage of agricultural land area with high water-table levels. Land with high water-table has a reduced potential output for agricultural production.

## LAND SALINITY LEVEL (%)



### LEGEND

- No land with high salinity
- 0.01–10.00
- 10.01–15.00
- 15.01–20.00
- Above 20.00
- N. a.
- Karakalpakstan rayons' borders
- Urban areas

This map shows communities with large (red) shares of their total agricultural land area with high salinity levels. High salinity level reduces the potential output for agricultural production.

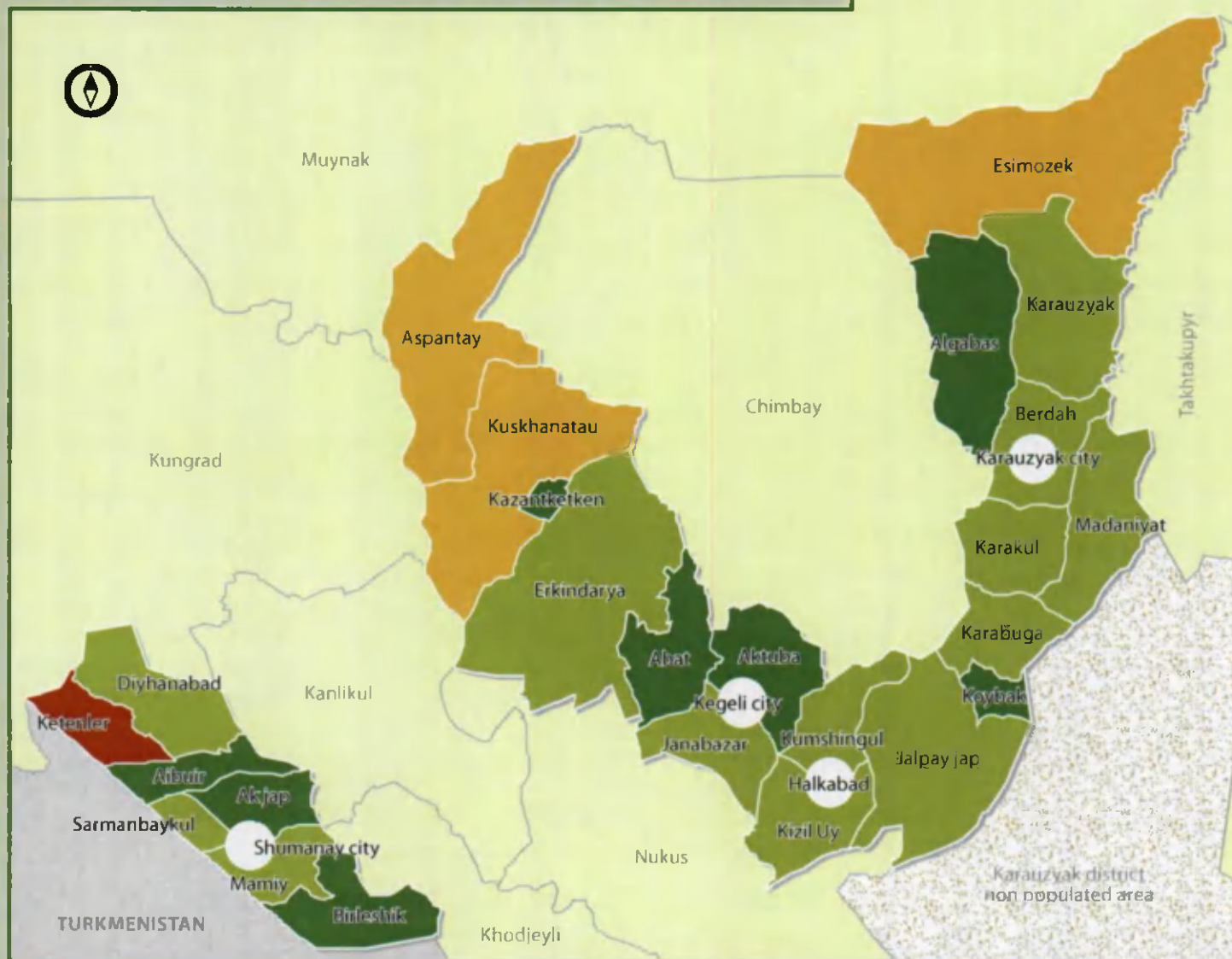
Source: Study compiled by Tahlil CSR from Mahalla Committees Data, 2005.  
Scale: 1 : 1,000,000

Not official. For internal use only.

ENVIRONMENT



## AGRICULTURAL LAND UNUSED DUE TO POOR LAND CONDITION (%)



### LEGEND

- Below 20.00
- 20.01–40.00
- 40.01–60.00
- Above 60.00
- N. a.
- Karakalpakstan rayons' borders
- Urban areas

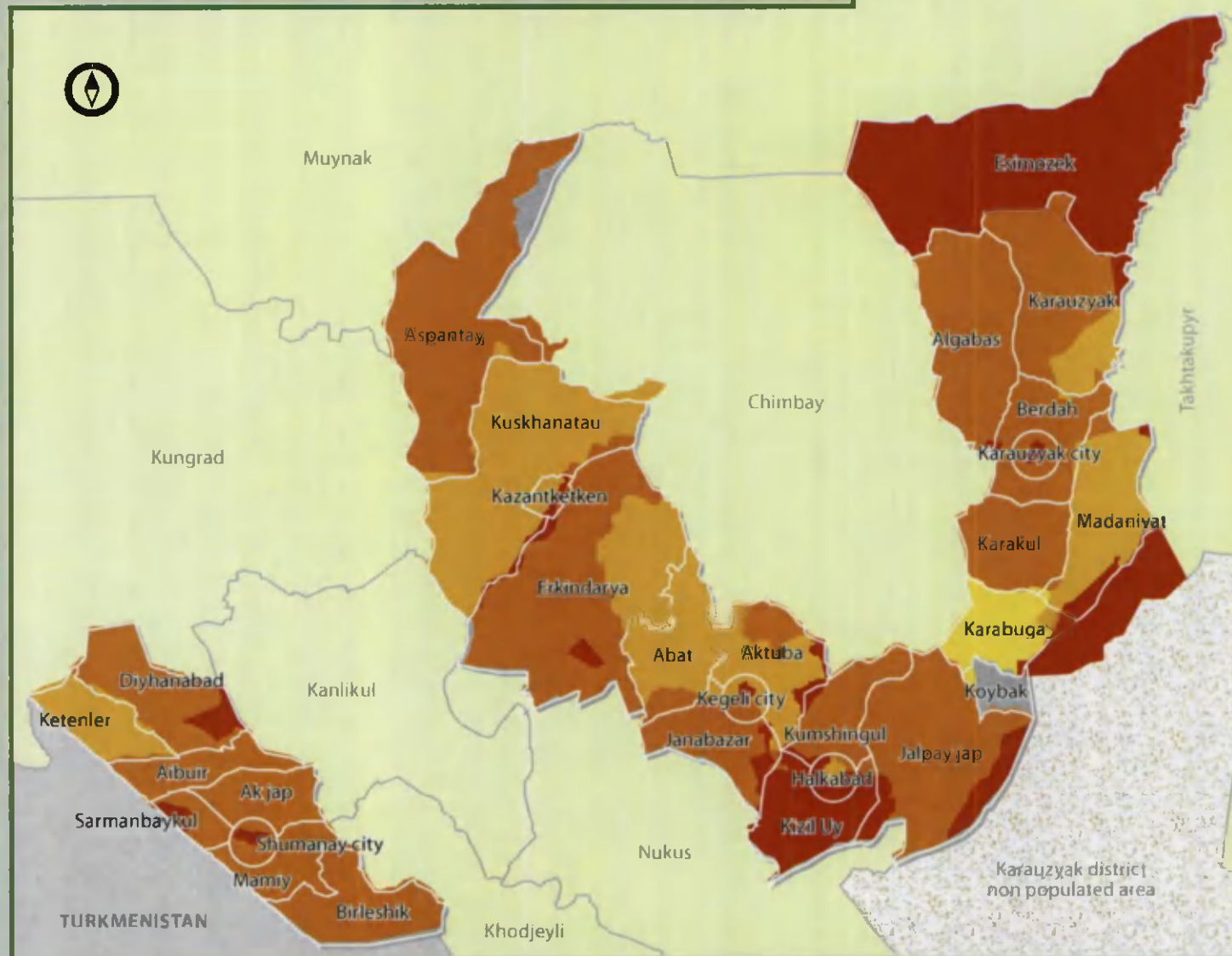
This map shows communities with a high (red) percentage of land which cannot be used due to poor condition (high salinity, high water-table and other environmentally related factors).

Source: Study compiled by Tahil CSR from Mahalla Committees Data, 2005  
Scale: 1 : 1,000,000

Not official. For internal use only.

ENVIRONMENT

## SOIL PRODUCTIVITY



### LEGEND

- Below 20.00
- 20.01–40.00
- 40.01–60.00
- Above 60.00
- N. a.
- Karakalpakstan rayons' borders
- Urban areas

Soil bonitet (SB) refers to relative quantitative assessment of soil productivity obtained at the compatible input level (Karmanov, 1980). The range of the SB ratings has 100 points, from which the highest yield has maximum points.

Source: State Committee for Land Resources, Geodesy, Cartography and State Cadastre; data downloaded from the Environmental Information System for Uzbekistan, (<http://eis.freenet.uz/>),  
Scale: 1 : 1,000,000

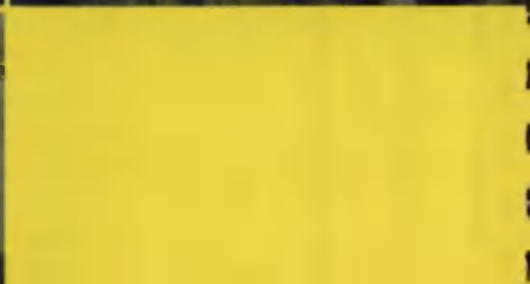
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ENVIRONMENT

## OTHER ECONOMIC INDICATORS







## TOTAL INCOME AS % OF COUNTRY AVERAGE (2002)



### LEGEND

- Below 80
- 81-100
- 101-120
- Above 120
- Uzbekistan oblast borders

The aggregate income per capita as percentage of the country's average (the whole country equals 100).

Source: Estimate of Ministry of Labour and Social Protection of the Population of the Republic of Uzbekistan, in Human Development Report 2005, page 38.  
Scale: 1 : 10,000,000

Not official. For internal use only.

OTHER INDICATORS

## SHARE OF REGIONS GDP (2004)



### LEGEND

- Below 4
- 5-6
- 7-8
- Above 8
- Uzbekistan oblast borders

Source: Uzbekistan Human Development Report 2005.  
Scale: 1 : 10,000,000

Not official. For internal use only.

OTHER INDICATORS



## NUMBER OF TB CASES (PER 100.000 PERSONS, 2002)



### LEGEND

- Below 60
- 61–80
- 81–100
- 101–120
- 121–140
- 141–160
- Above 160
- Uzbekistan oblast borders

The national value for the whole country is 79 per 100,000 persons.

Source: State Committee of the Republic of Uzbekistan on Statistics, Uzbekistan Human Development Report 2005, page 48.  
Scale: 1 : 10,000,000

Not official. For internal use only.

OTHER INDICATORS

## HUMAN DEVELOPMENT INDEX (2003)



### LEGEND

- Below 0,400
- 0,401–0,450
- 0,451–0,500
- 0,501–0,550
- 0,551–0,600
- Above 0,600
- Uzbekistan oblast borders

The Human Development Index for the whole country is 0.747.

Source: Uzbekistan Human Development Report 2005.  
Scale: 1 : 10,000,000

Not official. For internal use only.

OTHER INDICATORS

## POPULATION DENSITY (2004)



### LEGEND

- Below 50
- 51–100
- 101–150
- 151–200
- 201–250
- 251–300
- Above 300
- Uzbekistan oblast borders

This indicator shows the distribution of population by oblast, (number of persons per square kilometre). The population density for the whole country is 57 people per square kilometre.

Source: Uzbekistan Human Development Report 2005, page 85, table 21.

Scale: 1 : 10,000,000

Not official. For internal use only.

OTHER INDICATORS



## RURAL POPULATION (% , 2004)



Source: Uzbekistan Human Development Report 2005, page 85, table 21.  
Scale: 1 : 10,000,000

Not official. For internal use only.

OTHER INDICATORS

## LIFE EXPECTANCY (2003)



### LEGEND

- Below 70
- 71-72
- Above 72
- Uzbekistan oblast borders

Life expectancy at birth in the country is around 71 years.

Source: Uzbekistan Human Development Report 2005, page 85, table 21.  
Scale: 1 : 10,000,000

Not official. For internal use only.

OTHER INDICATORS

# MILLENNIUM DEVELOPMENT GOALS ASSESSMENT OF KARAKA

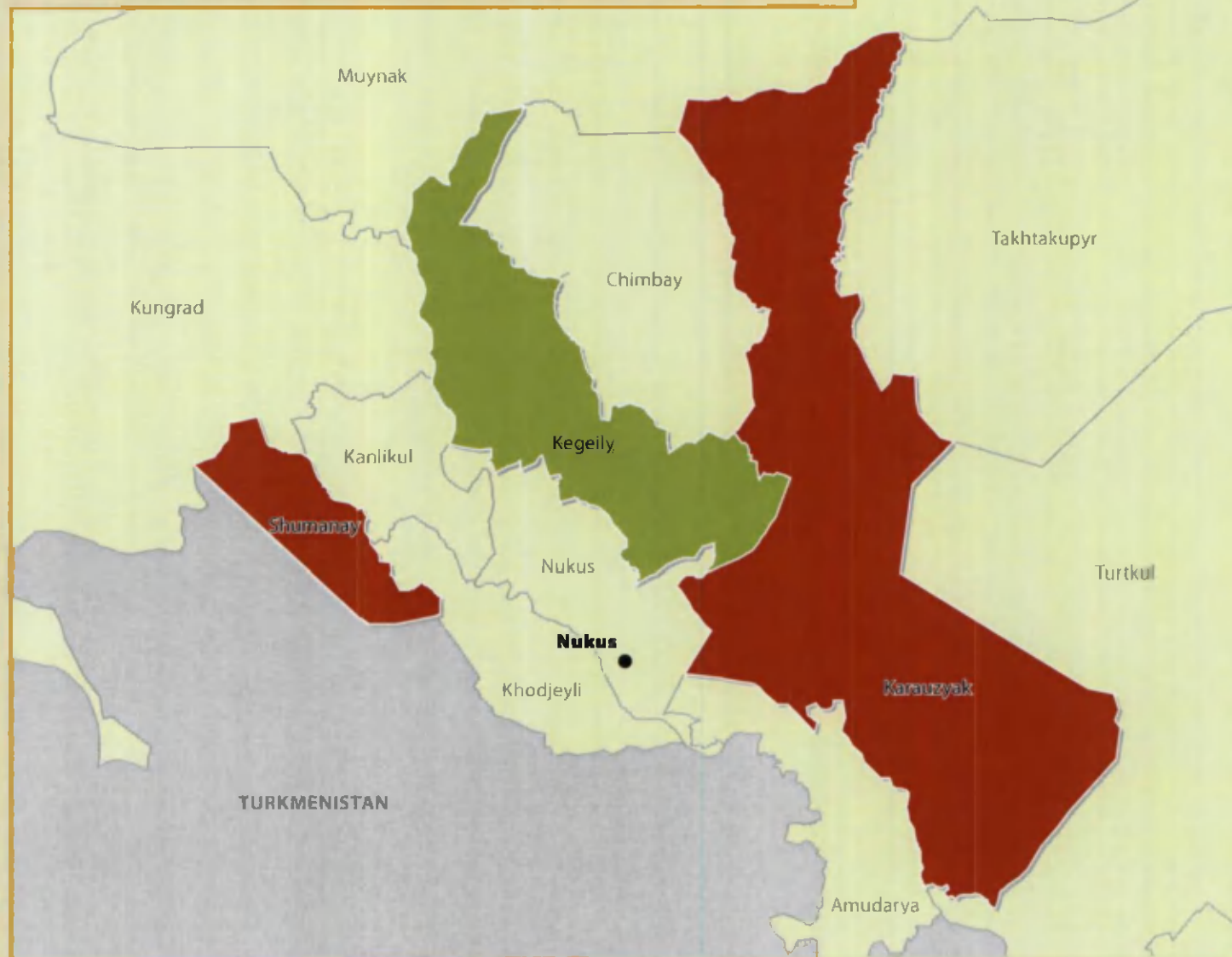




ALPAKSTAN



## POPULATION LIVING IN POVERTY (%)



### LEGEND

- Below 30
- Above 30
- Karakalpakstan Rayons' Borders

Halve the proportion of people living in poverty by 2015. Around 30 per cent of the population live in poverty and around 7 per cent live in extreme poverty.

Poverty is defined as the proportion of the population with per capita monthly consumption expenditure levels below the absolute poverty line (2100 calories per day).

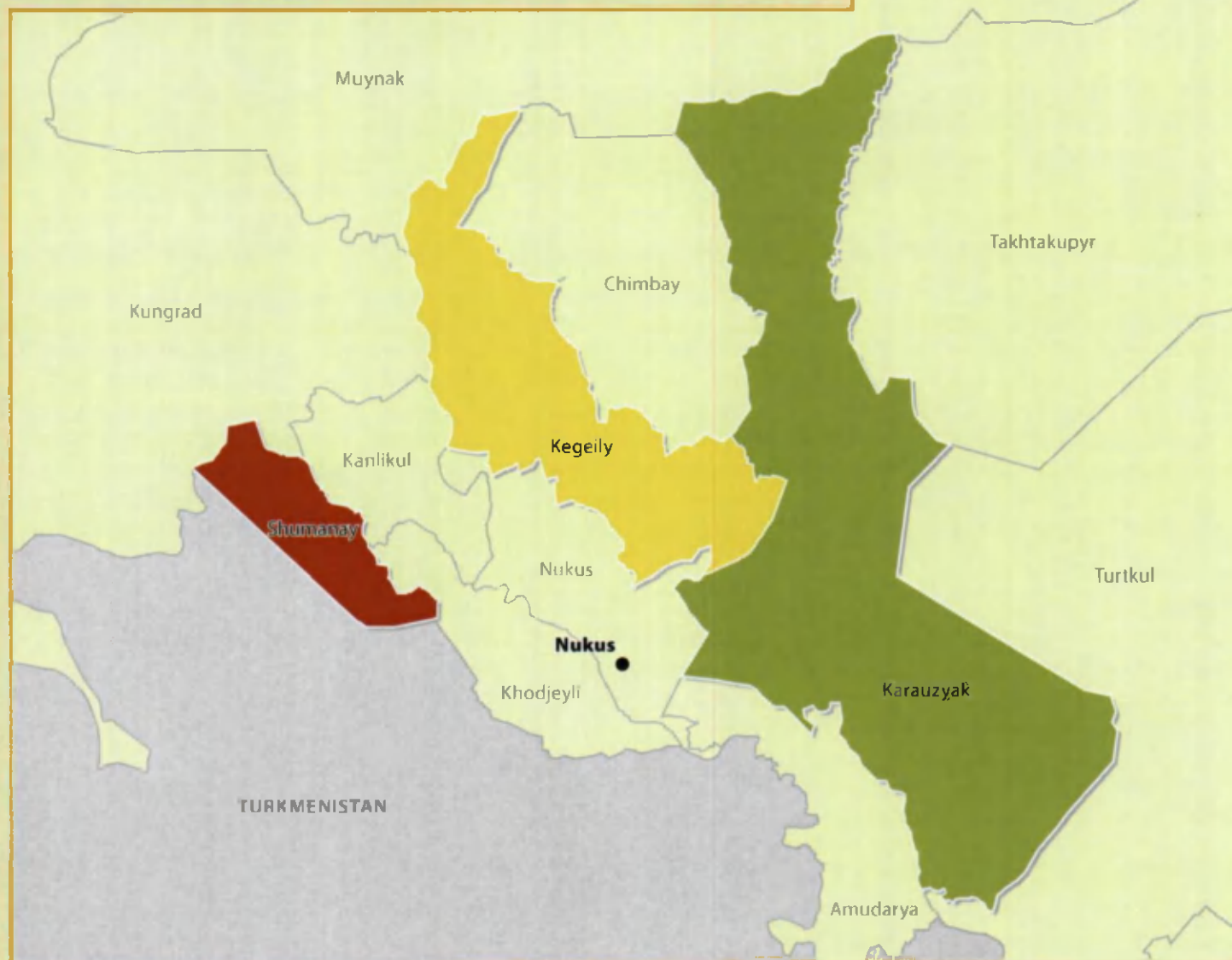
Source: Study compiled by Tahlil CSR from Household Survey Data, 2005.  
Scale: 1 : 1,200,000

**Not official. For internal use only.**

**MDG 1**

**IMPROVE LIVING STANDARDS  
AND REDUCE MALNUTRITION**

# PROPORTION OF THE POPULATION WITH PER CAPITA MONTHLY CONSUMPTION EXPENDITURE LEVELS BELOW THE POVERTY LINE



## LEGEND

- Below 5
- 5-10
- Above 10
- Karakalpakstan Rayons' Borders

Halve the proportion of people living in poverty by 2015. There appear to be significant regions differences in poverty levels, with Shumanay rayon having the highest rate of poverty and Kegeyli the lowest.

Proportion of the population with per capita monthly consumption expenditure levels below the extreme absolute poverty line (1500 calories per day).

Source: Study compiled by Tahlil CSR from Household Survey Data, 2005.  
Scale: 1 : 1,200,000

Not official. For internal use only.

**MDG 1**

**IMPROVE LIVING STANDARDS  
AND REDUCE MALNUTRITION**



## SCHOOL ENROLMENT AND LITERACY RATES



### LEGEND

- Below 65
- 66-70
- 71-75
- Above 75
- Uzbekistan oblast borders

Enrolment and literacy rates are almost universal in Uzbekistan. However, the quality of education has declined since the collapse of the Soviet Union. In order to monitor the quality of education, one would need data on learning achievements, which can be collected by ad hoc surveys. However, a good proxy for this indicator is the proportion of teachers in regular general education schools with higher education.

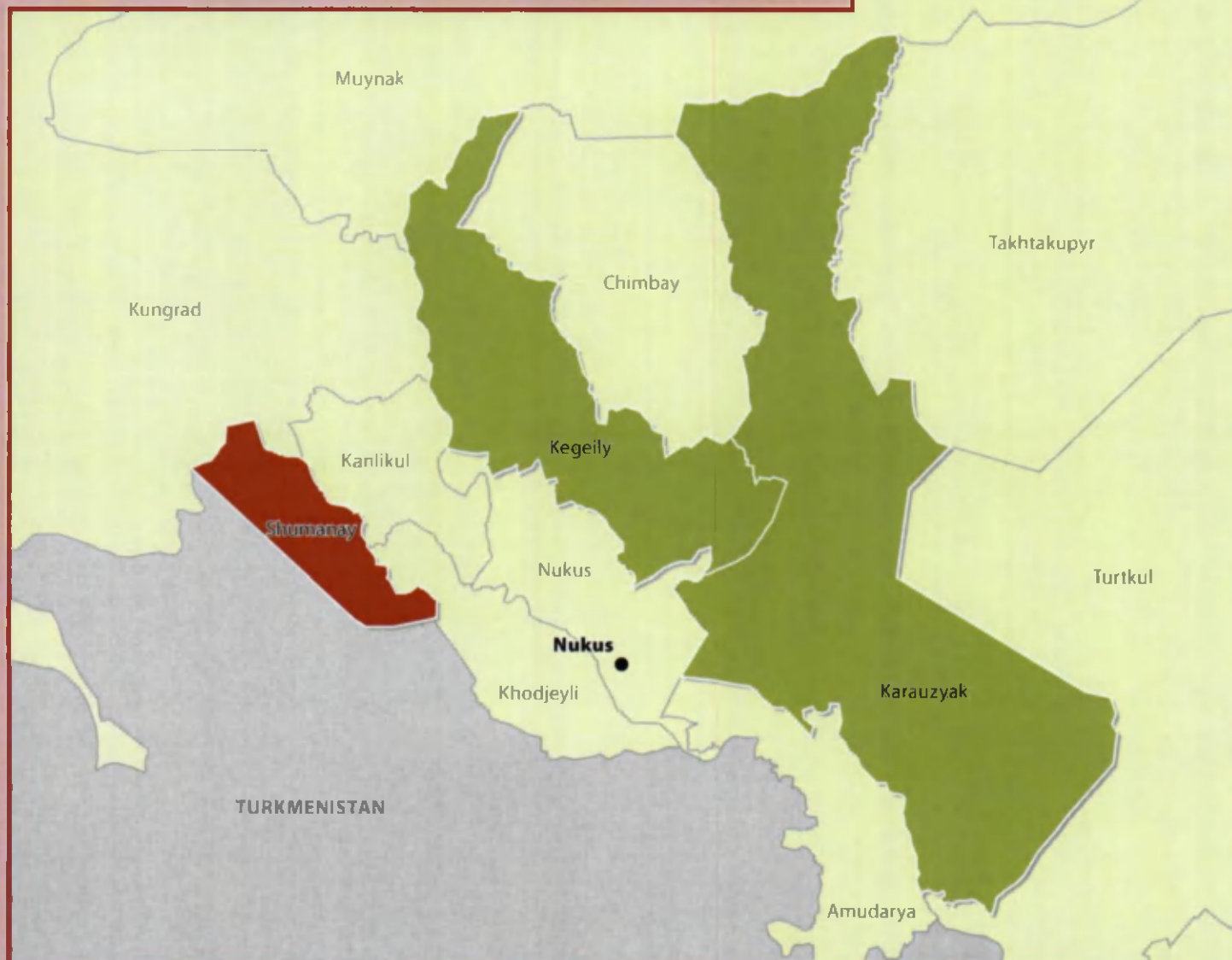
Source: Development of Education System In Uzbekistan 2000-2004, Statistical Bulletin, UNDP-Oz'Stat.  
Scale: 1 : 10,000,000

Not official. For internal use only.

## MDG 2

**IMPROVE THE QUALITY  
OF EDUCATION IN PRIMARY  
AND SECONDARY SCHOOL**

## RATIO OF WOMEN TO MEN IN THE NON-AGRICULTURAL SECTOR



### LEGEND

- Below 0.90
- Above 0.90
- Karakalpakstan Rayons' Borders

Source: Study compiled by Tahlil CSR from Household Survey Data, 2005.  
Scale: 1 : 4,000,000.

Not official. For internal use only.

**MDG 2**

**PROMOTE GENDER EQUALITY  
AND EMPOWER WOMEN**

## SHARE OF WOMEN POSTGRADUATE STUDENTS, 2000



Source: Women and Men of Uzbekistan, Statistical Collection, 2002.  
Scale: 1 : 10,000,000

Not official. For internal use only.

**MDG 3**

**PROMOTE GENDER EQUALITY  
AND EMPOWER WOMEN**



## SHARE OF WOMEN IN THE EMPLOYED POPULATION, 2004



### LEGEND

- Below 35
- 36-40
- 41-45
- Above 45
- Uzbekistan oblast borders

Source: Annual Population Data, 2004.  
Scale: 1 : 10,000,000

Not official. For internal use only.

**MDG 3**

**PROMOTE GENDER EQUALITY  
AND EMPOWER WOMEN**

## INFANT MORTALITY RATE IN RURAL AREAS



### LEGEND

- Below 16
- 17-18
- Above 18
- Uzbekistan oblast borders

Infant Mortality Rate in urban areas is considerably higher than in rural areas. This is due to the fact that births are more likely to be registered in urban areas. There is a need to improve the system of birth registration in order to obtain more reliable estimates.

Source: Annual Statistical Handbook, Goskomstat, 2003.  
Scale: 1 : 10,000,000

Not official. For internal use only.

**MDG 4**

**REDUCE CHILD MORTALITY**

## INFANT MORTALITY RATE IN URBAN AREAS



### LEGEND

- Below 16
- 17-18
- 19-20
- 21-22
- 23-24
- Above 24
- Uzbekistan oblast borders

Infant Mortality Rate in urban areas is considerably higher than in rural areas. This is due to the fact that births are more likely to be registered in urban areas. There is a need to improve the system of birth registration in order to obtain more reliable estimates.

Source: Annual Statistical Handbook, Goskomstat, 2003.  
Scale: 1 : 10,000,000

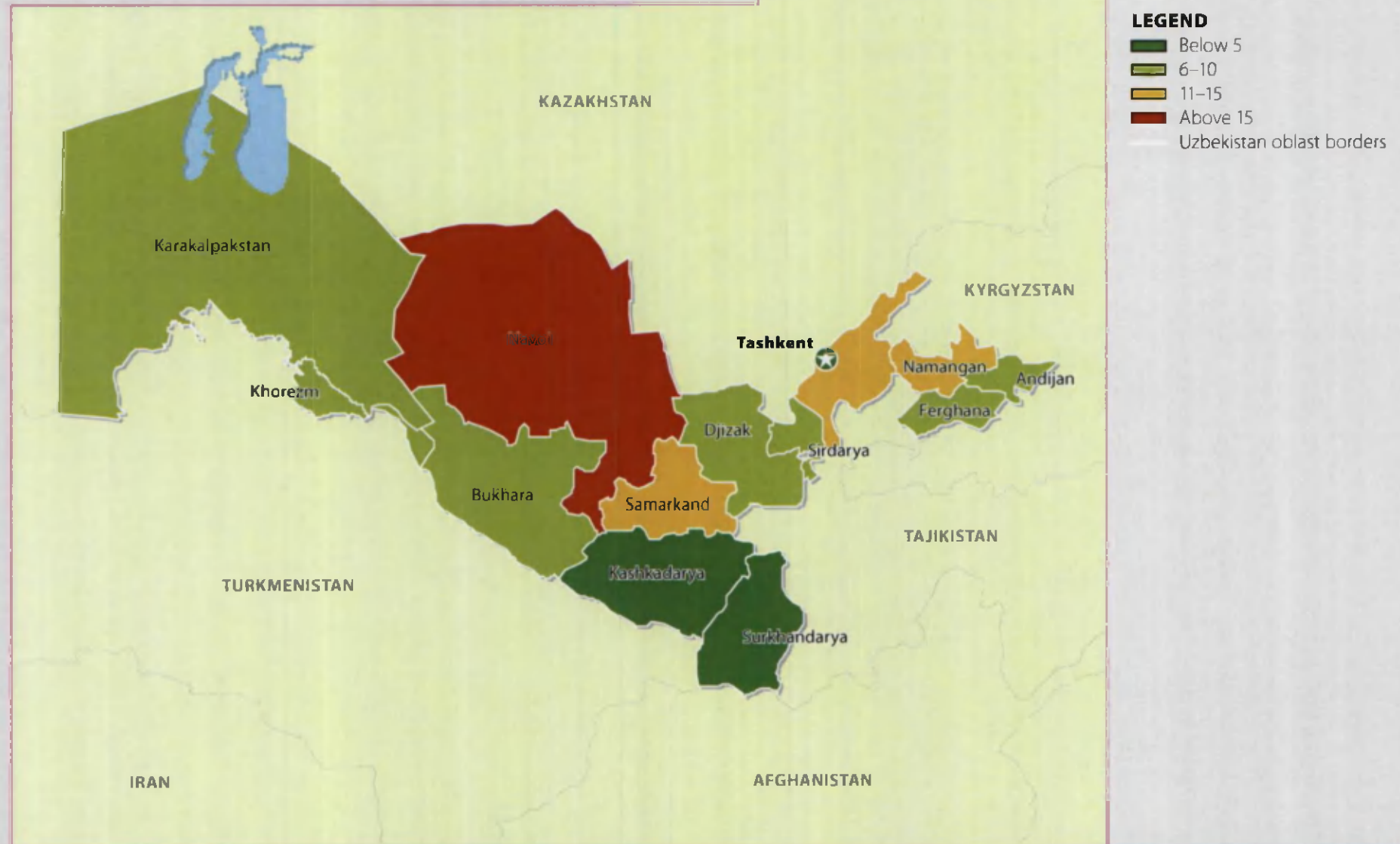
Not official. For internal use only.

**MDG 4**

**REDUCE CHILD MORTALITY**



## PERCENTAGE OF ABORTIONS PER 100 DELIVERIES, 2000



Source: Women and Men of Uzbekistan, Statistical Collection, 2002.  
Scale: 1 : 10,000,000

Not official. For internal use only.

**MDG 5**

**IMPROVE MATERNAL HEALTH**

# PROPORTION OF WOMEN 15–49 USING ANY MODERN METHOD OF CONTRACEPTION



## LEGEND

- Below 60
- 61–65
- Above 65
- Uzbekistan oblast borders

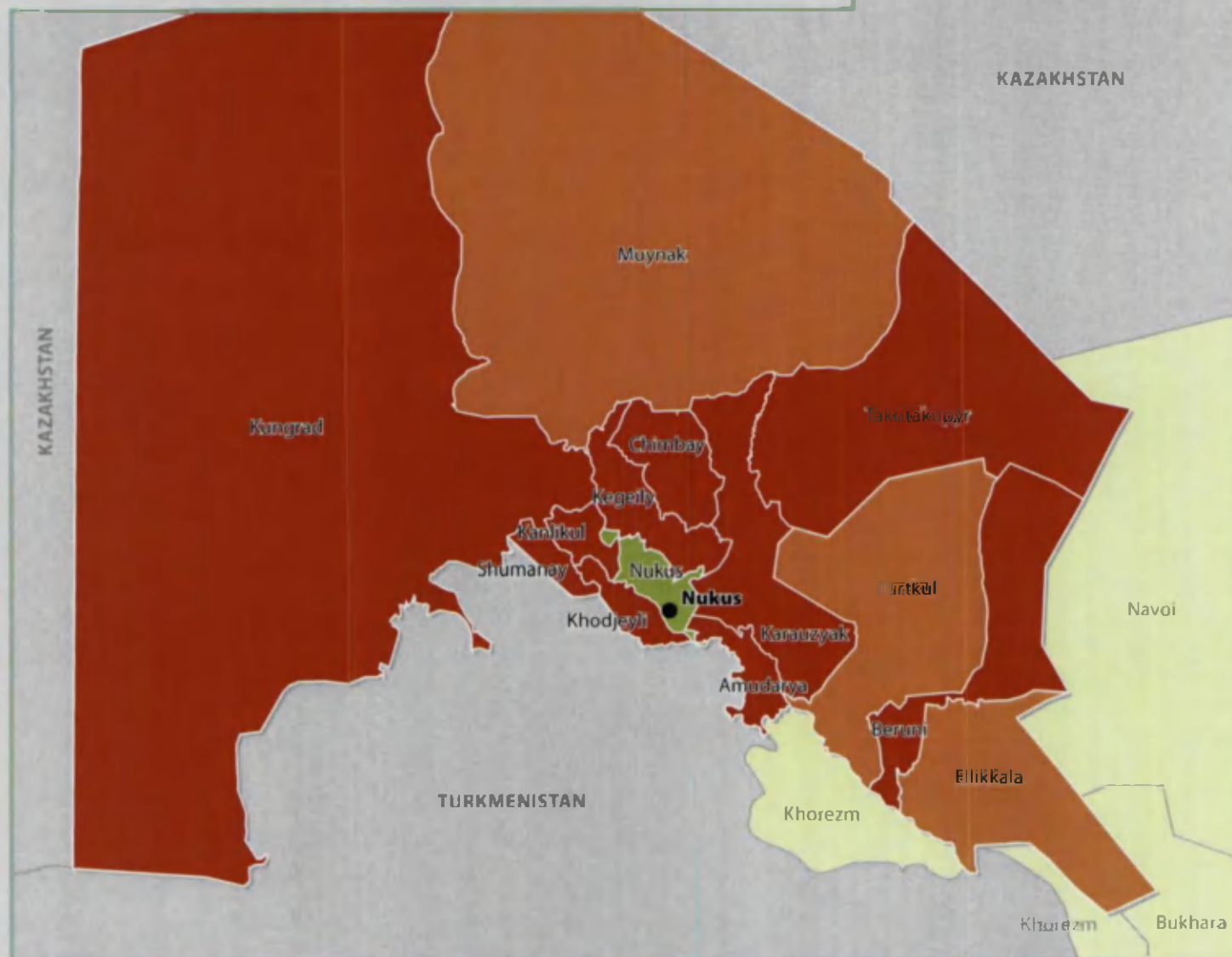
Source: Health Examination Survey, 2002.  
Scale: 1 : 10,000,000

Not official. For internal use only.

**MDG 6**

**COMBAT HIV/AIDS,  
TUBERCULOSIS AND MALARIA**

## SALINIZATION OF ALL KARAKALPAKSTAN DISTRICTS (%)



### LEGEND

- Below 30
- 31–45
- 46–60
- 61–80
- Above 80
- Karakalpakstan Rayons' Borders

Percent of salinized land as of irrigated area to decrease to 45% by 2015. Salinized land as a share of the total irrigated area.

Source: State Committee for Land Resources, Geodesy, Cartography and State Cadastre; data downloaded from the Environmental Information System for Uzbekistan, (<http://eis.freenet.uz/>), indicator 57(1), Irrigated Land Salinization (salinized land % of total irrigated land area).  
Scale: 1 : 4,000,000

Not official. For internal use only.

**MDG 7**

**ENSURE ENVIRONMENTAL  
SUSTAINABILITY**



# SALINIZATION OF ELS KARAKALPAKSTAN DISTRICTS (%)



## LEGEND

- Below 30
- 31-45
- 46-60
- 61-80
- Above 80
- Karakalpakstan Rayons' Borders

Percent of salinized land as of irrigated area to decrease to 45% by 2015. Salinized land as a share of the total irrigated area.

Source: State Committee for Land Resources, Geodesy, Cartography and State Cadastre; data downloaded from the Environmental Information System for Uzbekistan, (<http://eis.freenet.uz/>), indicator 57(1), Irrigated Land Salinization (salinized land % of total irrigated land area).  
Scale: 1 : 1,200,000

Not official. For internal use only.

MDG 7

ENSURE ENVIRONMENTAL  
SUSTAINABILITY