A globe showing the world's continents and oceans. The Central Asian region, including Kazakhstan, Kyrgyzstan, and Uzbekistan, is highlighted in a light orange color. The rest of the globe is in shades of blue and white.

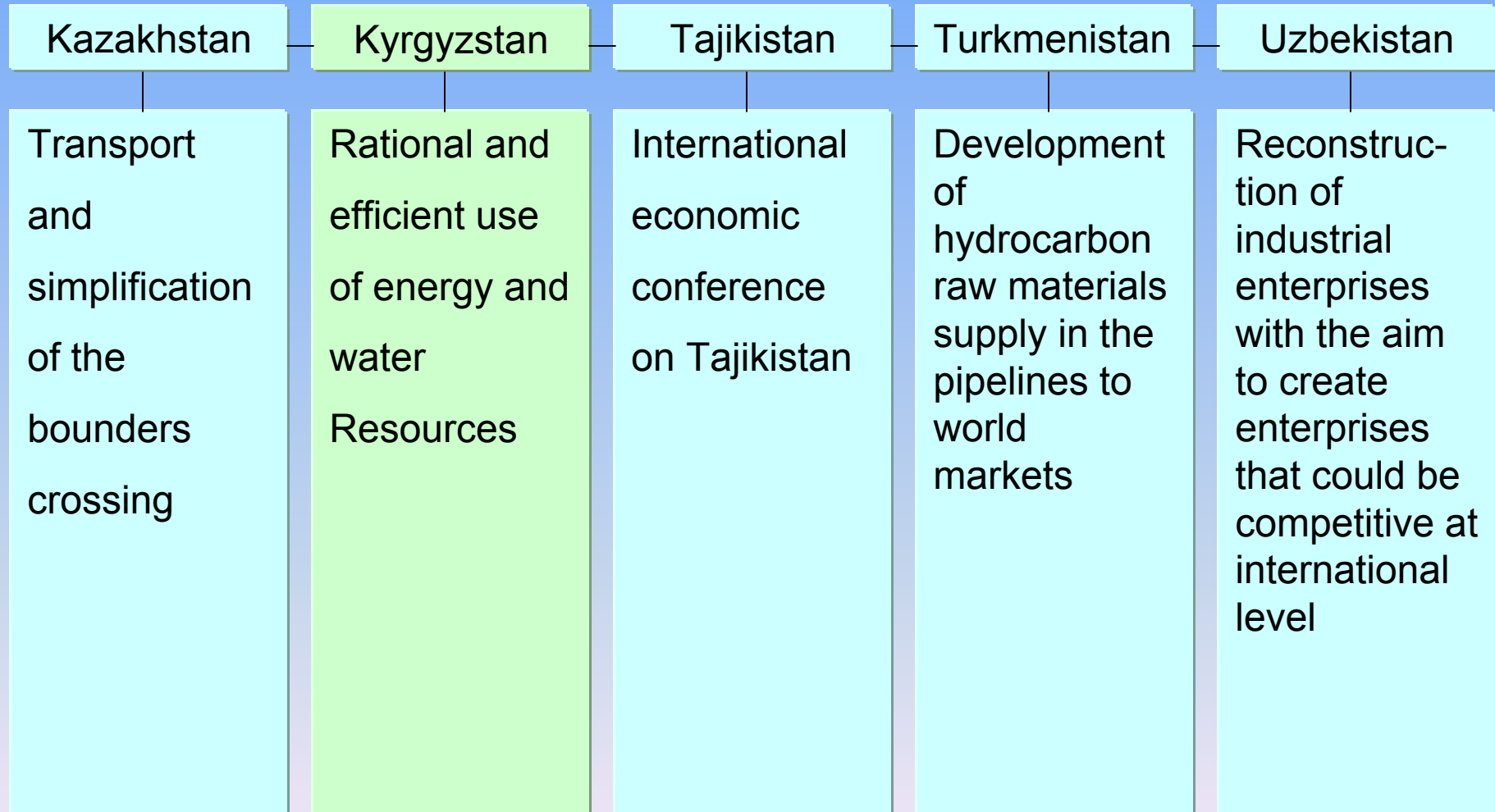
# **Rational and Efficient Use of Water and Energy Resources in Central Asia**



Map No. 3763 Rev.4 UNITED NATIONS  
October 1998

Department of Public Information  
Cartographic Section

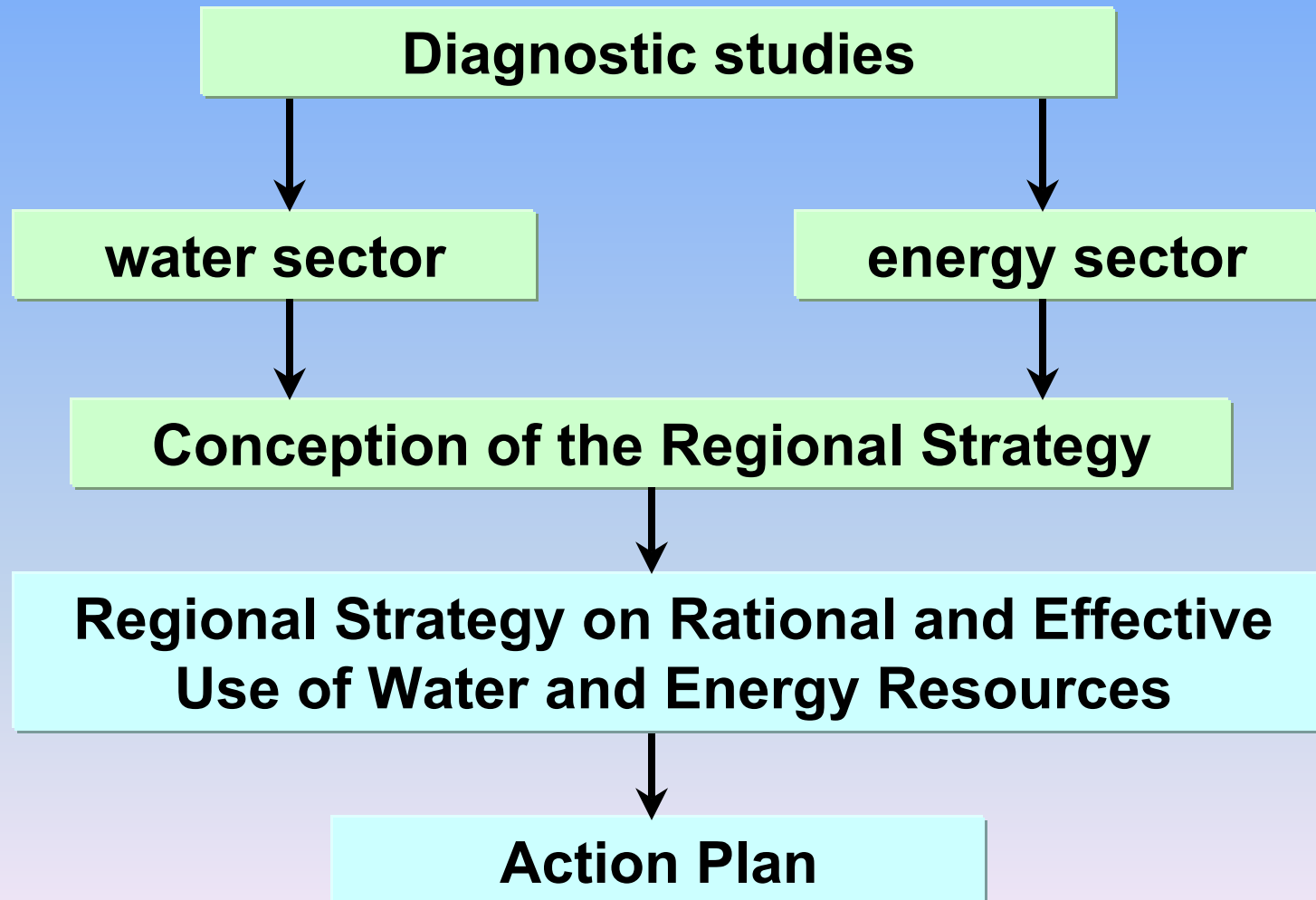
# Fields for cooperation in SPECA



# **Main goals of the project**

- ✓ **regional strategy development on efficient use of energy and water resources of the region**
- ✓ **creation of demonstration zones of efficient use of energy and water resources**
- ✓ **strengthening institutional capacity of the region**

# Steps to be undertaken



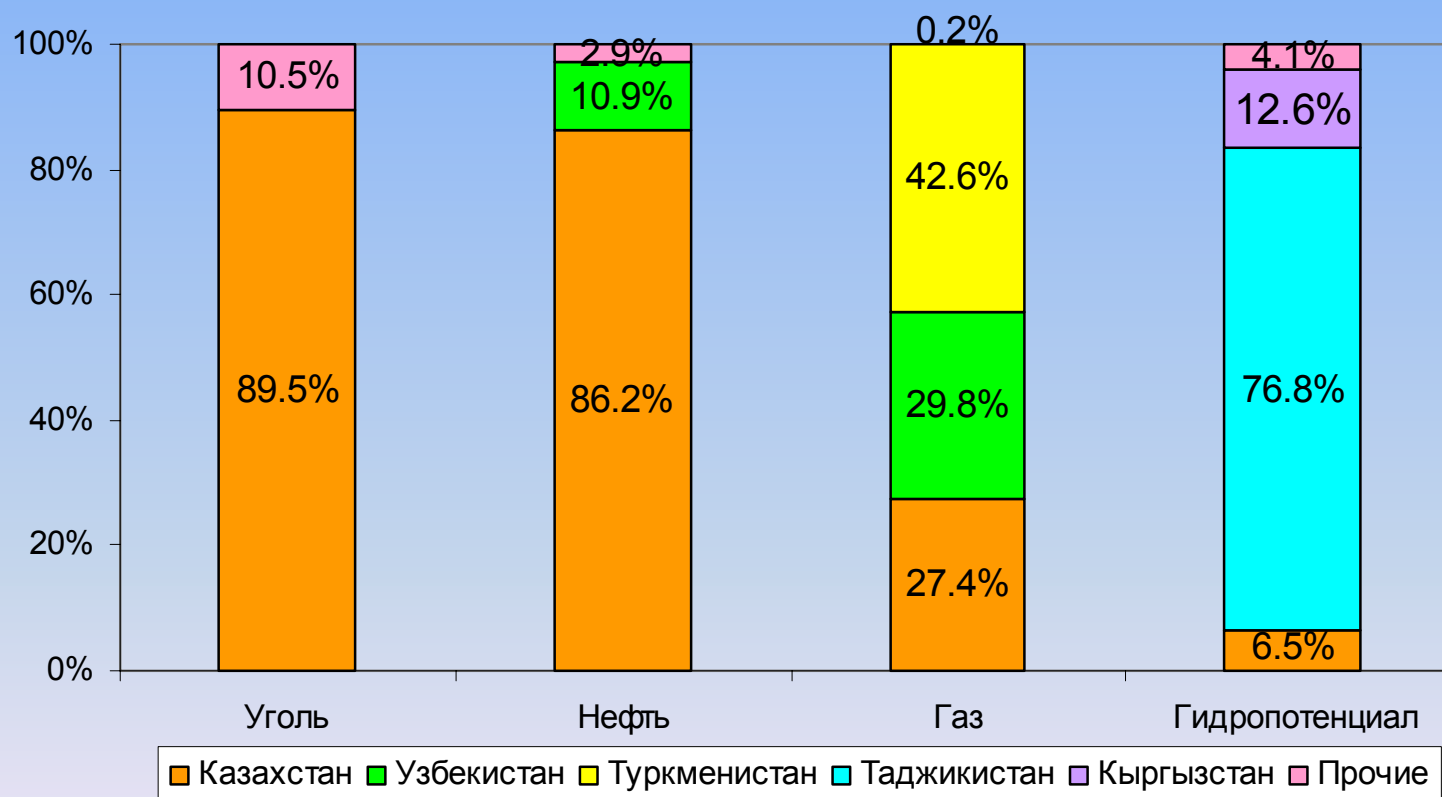
# **Major impediments to cooperation**

- ✓ **there are inter- sector and inter-state issues and tensions on sharing resources, in particular water and energy resources**
- ✓ **national policies on the use of water and energy resources are incomplete or inadequate**
- ✓ **instruments of regional cooperation in water and energy resource management do not meet qualifying standards or do not exist**

# **STRUCTURE OF ENERGY STUDY**

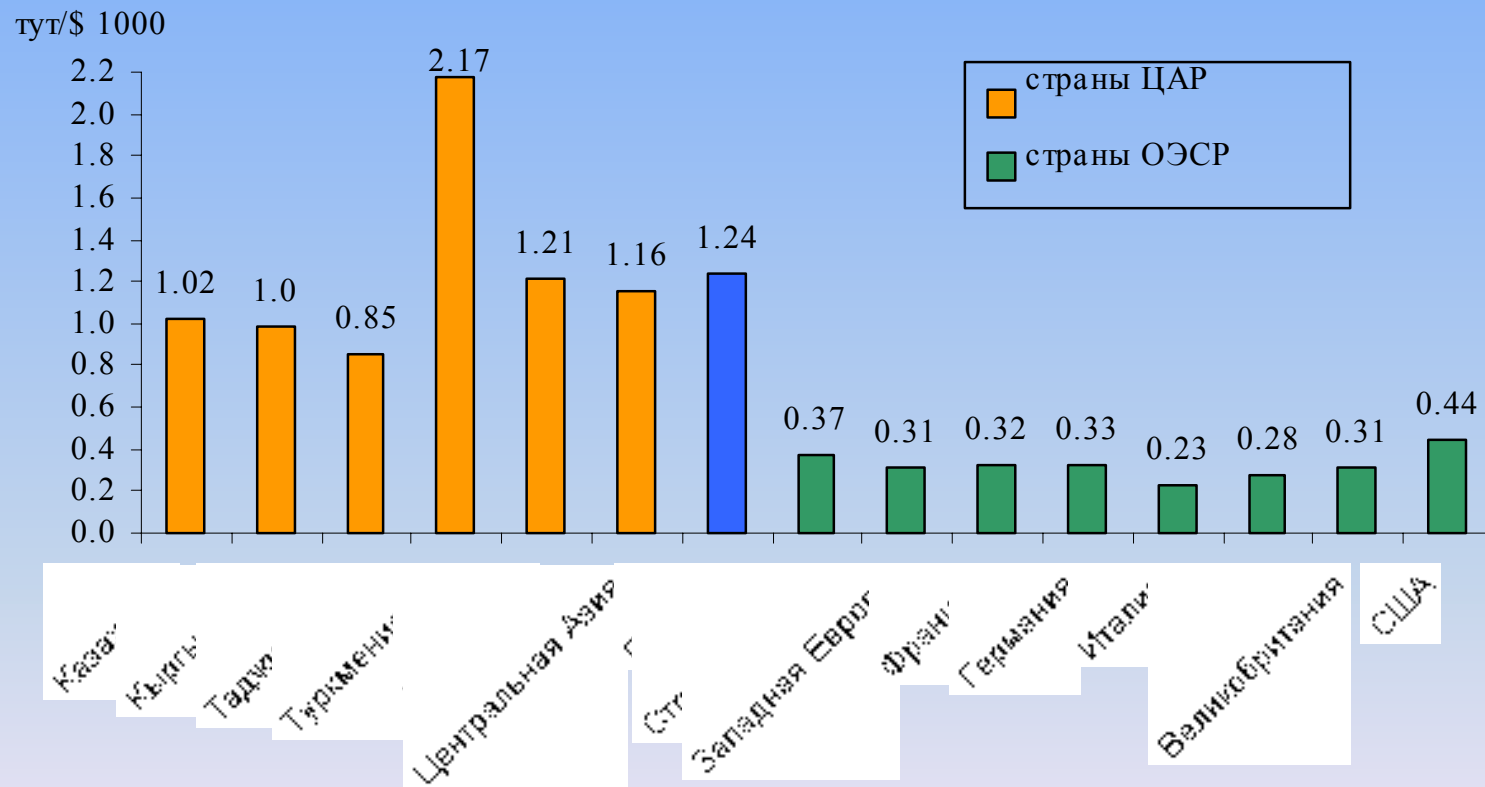
- **Modern state of energy and perspectives of its development**
- **Modern state of energy savings and perspectives of its development**
- **Energy development scenarios at the period up to 2020**
- **Cooperation in the region**
- **Instruments needs and financial scope**

## Distribution of the regional organic fuel prospected resources and economically effective hydro potential in the countries of Central Asia





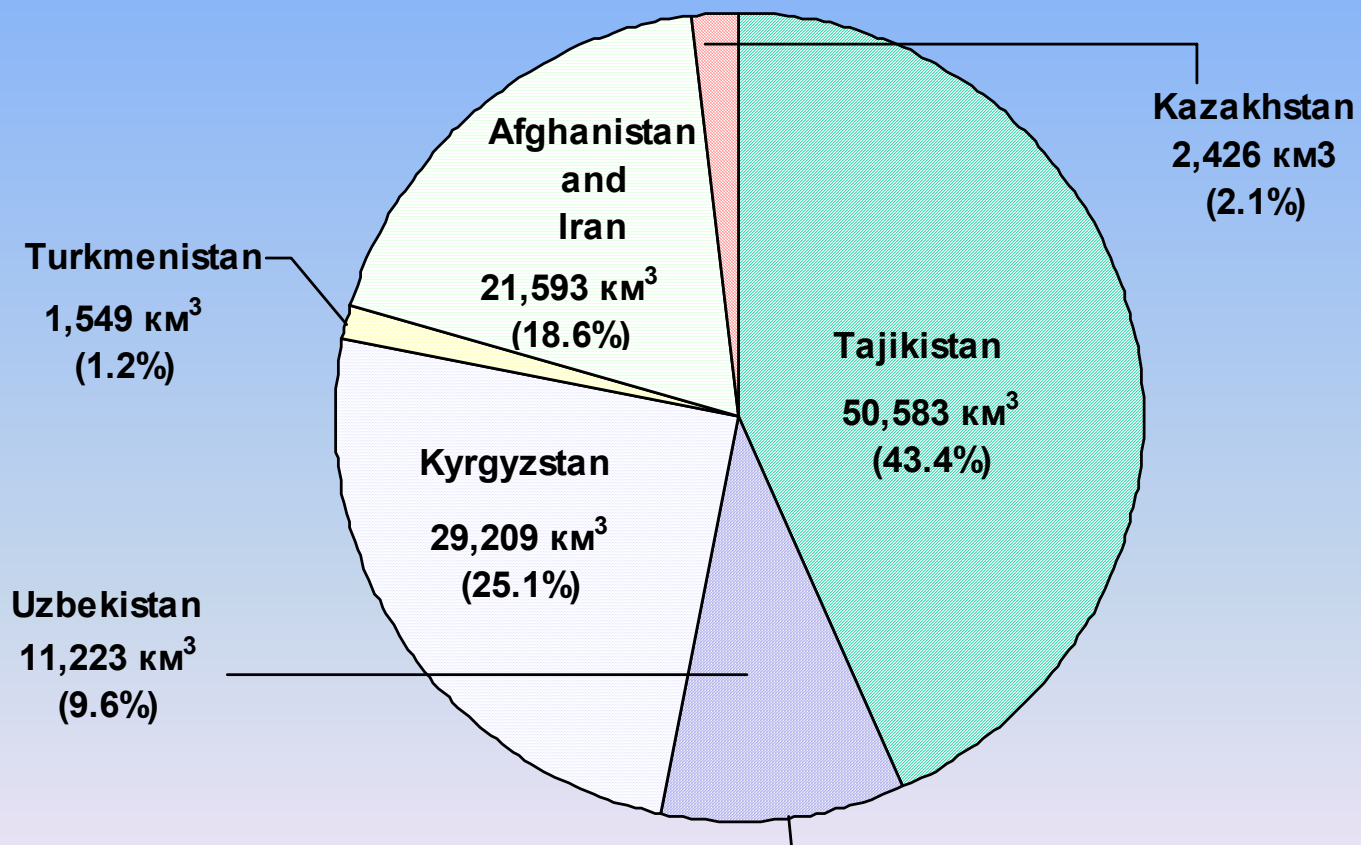
# GDP power intensity of the region countries and leading industrially developed countries of the world



# **Contains of the Diagnostic Report on Water**

- **General characteristics of water resources state and use in Central Asia**
- **Review of problems, which need harmonization or agreement among the countries or sectors**
- **Recommended approaches to the current problems agreement**

# Aral Sea Basin: River Drain, Forming Within the State



## **Most urgent measures to be undertaken in the region in order to develop co-operation on water issues in the Central Asia countries**

- Development and improvement of water allocation principles, including economic mechanisms.
- Improvement of the state of hydro technical facilities.
- Establishment of a unified water resources monitoring system, including monitoring of water quality.
- Development of a national water policy with due consideration of agreed national and regional interests.
- Improvement of the national water legislation.
- Improvement of an inter-state system of cooperation in the field of comprehensive use and protection of transboundary water resources.
- Development and improvement of the legal basis of inter-state relations for the use and protection of transboundary watercourses.
- Establishment of the mechanism for coordination of international assistance.

# **Recommended approaches to coordination of current problems**

- ➔ Definition of potential reserves of water resources in the region;
- ➔ Assessment of water needs for each of the country for a long perspective;
- ➔ Agreement of water consumption quotas for each of the country taking into account perspectives of development;
- ➔ Agreement of schedules of internal consumption of water resources that have intergovernmental significance;
- ➔ Agreement of water resources quality coefficients that need to be provided at water objects of intergovernmental significance;
- ➔ Agreement of procedures of intergovernmental water resources allocation and mutual control of its realization.

# **Principals of intergovernmental water resources sharing**

- ✓ Allocation of water reserves by quotas in accordance with current and perspective water consumption in the Central Asia countries;
- ✓ Establishment of a water supply schedule to the Central Asia countries;
- ✓ Definition of complex demands of water quality;
- ✓ Establishment of procedures of decision agreement on water allocation and control measures;
- ✓ Development of economic mechanisms of transboundary water use by the countries.

# **Basic principals of cooperation development**

- Readiness of the Central Asia countries for integration, coordination of activities on the basis of community of interests and establishment of the biggest favorable economic regime;
- Achievement of a consensus between the Central Asia countries and of an open dialog with international community outside the region between donors and

**Thank you  
for attention!**