

Organizational and managerial  
aspects of Science, Technology  
and Innovation activities  
in Uzbekistan

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# Science and Society now

The start of the third millennium has been marked with much scientific and technological success (.....) promising historic accomplishments for the civilization.

However, at the same time, the mankind has faced a great number of global-scale problems, requiring ingenious scientific approaches to secure sustainable development (.....).

# Science and sustainable development

The rational use of natural, non renewable resources extra actual question for the all countries of the World and it's a key for their Sustainable Development.

Social, economical, and cultural life of any society, securing its sustainable development has always been linked with scientific-technological progress and its efficiency, undoubtedly, clearly reflects welfare and intellectual state of society.

In this context, questions of studies and organization of research and innovation activities in countries with transition economies is becoming extremely relevant.

Apparently, achieving significant progress in development of science and technologies, innovation entrepreneurship in CIS countries is rather difficult at the moment.







The leading countries of the world have already started investing significant funds into scientific research and innovation, recognizing that solid returns and market gains can only be accomplished by implementing most of sophisticated achievements of science and technology.

However, science today, must not delimit itself with a were generation of significant economic benefits but also deliver sustainable development of the society.

During the socialistic model of production it was not maintain a well-formed back-up infrastructure of horizontal links among industrial enterprises, scientific and financial organizations.

- Nowadays, State bodies of social control in the countries with transition economies are facing difficult problems concerning coordination, management of research activities, identification of priorities of science development in market competition.
- There have been issues of establishing criteria, forms and methods for financing of science, taking into account that expenditure onto science, similarly as any other activities during transition, can't grow endlessly.
- Very important that state-supported scientific programs and projects must be closely linked with, on the one hand, their practical application and efficiency, and on the other hand, with ethical norms of research conduct, severe competition in the world market and resolution of local, regional and global problems.

- At present, government and social groups of Central Asian countries are seriously concerned with deterioration of environment, living conditions, breakage of balance between consumption and natural resources. Their economies are consuming so much resources, that nature simply can't renew, particularly in those parts of the globe, they have also increasing demographic problems and etc.
- Every 10-15 years there is a doubling pressure on the nature.
- In this situation very important to understand that the effects of non-rational use of natural resources, environment pollutions with different "Xenobiotics" may gradually increase so much that it will create emergency situation, to lose of ecological sustainability which will put into jeopardy the genetic safety and survival of Homo Sapiens and other biological species of the our planet- Earth (Acad.N.Dubinina,A.Ergashev,1982).

- The case of Uzbekistan

- Support given to Science by the State:*

  - Parliamentary Level*

  - Government Level*

- The executive sectors for scientific research projects and state programs( Fig. next pages) :*

  - Academy of science*

  - Ministry of higher education*

  - Branch sector of science*

  - Supreme Attestation Commission*

  - State patent authority*

A new system of analysis for science's application to development

- Why?
- How?
- Expected results

- In Uzbekistan, like in many other countries, science is sponsored mainly by Government.
- In 2002 the edict of the President «On improvements of organization of scientific-research activities” made our Republic evaluable to come to the competition in scientific work, that fully fits market economy principles.
- To make a management of Science efficiently, the Coordination Council under the Government was established. That is the senior coordination body on scientific-technological activities and policy of Republic of Uzbekistan.
- Coordination of the development of the Science and Technology in Uzbekistan is performed according to the simple and pretty clear chart ( Fig. on the page 14 and 15):

# The structure of coordination of science & technology in Uzbekistan

Oliy Majlis (the Senat)

The Cabinet of Ministers of Uzbekistan

The Coordination Council on Development of Science and Technology

The Council of Expertise of State scientific, technological and innovation programmes & projects

The Center on the Science and Technology

State scientific, technical and innovation programs

Academy of Science of Uzbekistan

Ministry of Higher Education of Uzbekistan

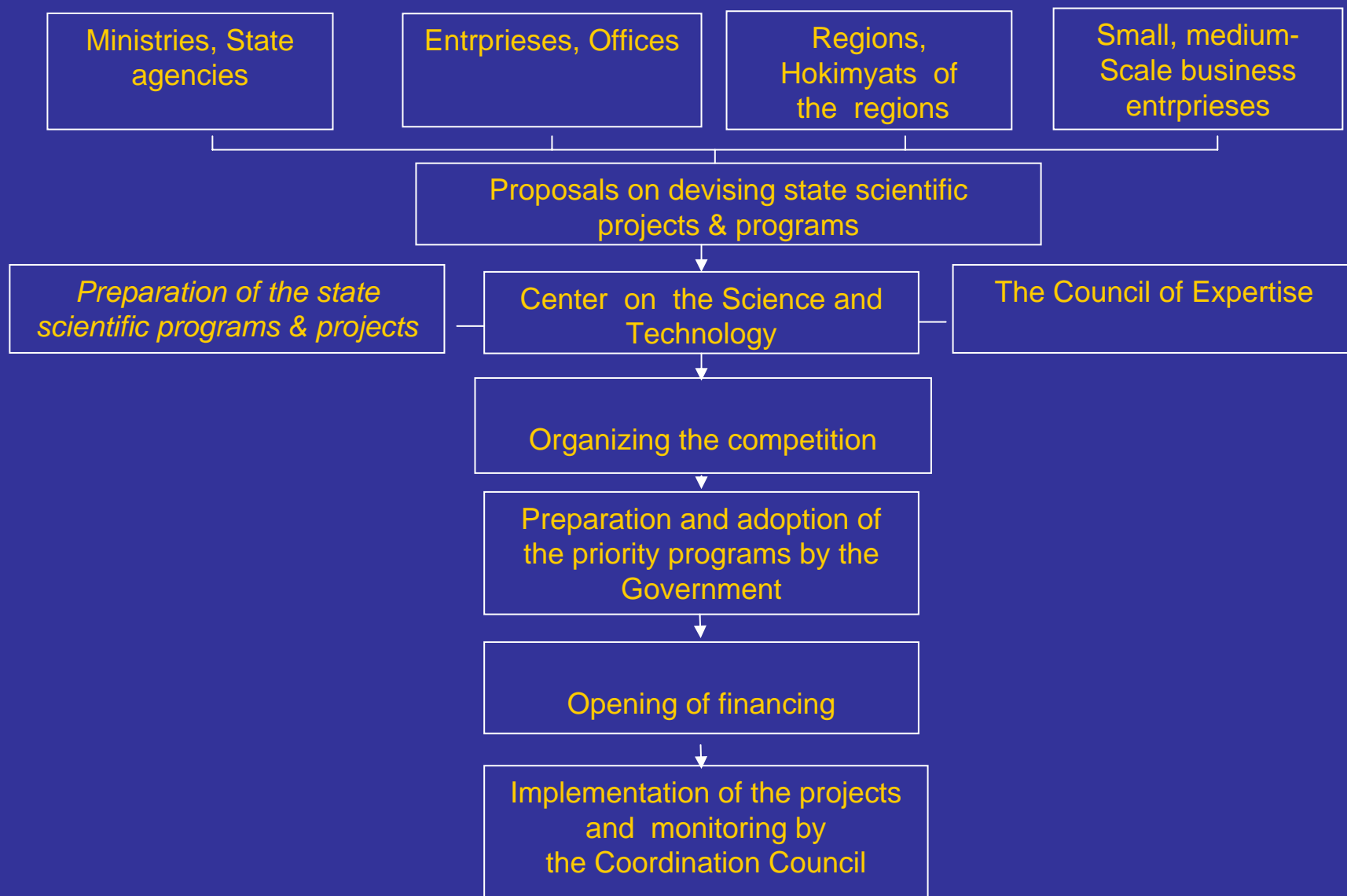
Ministry of Agriculture & Water Resources of Uzbekistan

Ministry of Health of Uzbekistan

Other branches of Industry

Non-Government. sector of the economy

# The system of organization of the scientific research in the Republic of Uzbekistan



# CONCLUSIONS

- As a matter of historical tendency, the region of the Central Asian countries, including present Uzbekistan, tracing back to medieval ages, had already observed emergence and development of some worldwide recognized scientific schools in fields of mathematics, astronomy, geography, medicine, etc.
- Particularly significant development in Uzbekistan of the XX century has been experienced also by such sciences as chemistry, physics, geology, seismology, archaeology, biology, etc.
- After Uzbekistan has gained independence, the policy of science management has been mainly directed towards maintaining the already achieved high scientific-technological potential of the Republic and more cooperation with different countries and International Organizations.
- Presently, reformation of the science and technology development management in Uzbekistan is oriented on a broad implementation of market mechanisms of financial support by the government, private, as well as by other sources.

Thank You all.