



OCCASION

This publication has been made available to the public on the occasion of the 50th anniversary of the United Nations Industrial Development Organisation.

TOGETHER

for a sustainable future

DISCLAIMER

This document has been produced without formal United Nations editing. The designations employed and the presentation of the material in this document do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations Industrial Development Organization (UNIDO) concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries, or its economic system or degree of development. Designations such as "developed", "industrialized" and "developing" are intended for statistical convenience and do not necessarily express a judgment about the stage reached by a particular country or area in the development process. Mention of firm names or commercial products does not constitute an endorsement by UNIDO.

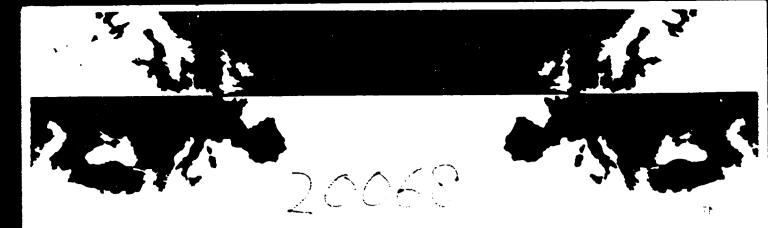
FAIR USE POLICY

Any part of this publication may be quoted and referenced for educational and research purposes without additional permission from UNIDO. However, those who make use of quoting and referencing this publication are requested to follow the Fair Use Policy of giving due credit to UNIDO.

CONTACT

Please contact <u>publications@unido.org</u> for further information concerning UNIDO publications.

For more information about UNIDO, please visit us at <u>www.unido.org</u>



European Institute for East-West Cooperation

INTERNATIONAL COURSE ON RESEARCH AND INNOVATION MANAGEMENT

29 October - 8 November 1992

FINAL REPORT

EUROPEAN INSTITUTE FOR EAST WEST COOPERATION VENEZIA 1262/A Dorsoduro Tcl. 041/5225109 Fax 39.41 5289995

ABSTRACT

The International Course on Research and Innovation Management was held in Moscow from 29 October to 8 November 1992. Thirty participants took part in the Course, and an international team of experts was responsible for providing the lectures and training activities. The Course was organized by the International Centre for Science and High Technology (ICS) with the participation and assistance of various institutes, such as the European Institute for East-West Cooperation, the London School of Economics, the Russian Academy of Science, the Moscow International Energy Club, the Innovation Institute, and others.

INTRODUCTION

The European Institute for East-West Cooperation is a non-governmental body and has as its Chairman the Nobel Laureate Ilya Prigogine, and as its Vice Chairmen Academician Makarov, Vice President of the Russian Academy of Science and Prof. Lions, Chairman of the France Space Agency. The main objective of the European Institute for East-West Cooperation is to promote cooperation and joint projects between Eastern and Western European countries.

The European Institute for East-West Cooperation has been involved in the running and organization of the International Course on Research and Innovation Management since 1990, with the preparation of the training material and assisting ICS in the coordination of the training programmes.

Science and Technology are among the key driving forces of change and development of today's societies. Enormous investments in scientific research, technology and innovation are made by governments and

private industries. An important new characteristic of this development is the increasing scientification and knowledge content of industrial products Scientific research in universities and independent and processes. institutions has moved closer to industry in order to gain in efficiency of The more society invests of its financial and human commercialization. resources in scientific and technological research, the stronger will be the demands by society and governments for quick returns on investments. This requires more effective management of research and innovation. An the dramatically increasing international additional dimension is It seems that Japan, better than other countries so far, has competion. succeed in the effective transformation of the pool of scientific and technological knowledge into industrial products for a world market.

CONTRIBUTION OF THE EUROPEAN INSTITUTE FOR EAST-WEST COOPERATION

Contribution of the European Institute for East-West Cooperation to the preparation, organization and running of the International Course on Research and Innovation Management.

The Contribution of the EIEWC was in accordance with the work plan and terms of reference dated September 1992 and the Contractor proposal dated September 1992 and it consisted in:

- a Preparatory Phase in order to make coherent and compatible all the teaching and training materials with the organization also of a round table with the purpose of finalizing the Programme;
- assistance in the running of the Course with teachin; and training activities;
- 3. assuring the participation of 9 students from developing countries;
- 4. organization of a final Round Table to discuss policy issues in this field in Russia and to receive suggestions for future courses.

-2--

A. PREPARATORY PHASE (June-October 1992)

- -Four senior scientists (Prof. Paolo Bisogno from the University of Rome, department of Research and Innovation Policy, Prof. Giovanni Abramo from the Department of the Innovation Transformation of National Research Council CNR, Dr. Bruno Schmitz, Strategic Analist for Science and Technology, Dr. Rustem Khairov, Social Implications) were involved in the preparation and assembling of teaching and training material, as well as in the teaching activities, for the Course on Research and Innovation Management.
- -One Round Table was organized (EIEWC's HQ) from 7 to 9 September 1992 togheter with the Academic Board (Prof. A. Forti, Prof. P. Bisogno, Prof. I. Angell, Dr. V. Kouzminov, Dr. G. Abramo, Dr. B. Schmitz, Dr. G. Aslanian, Prof. R. De Maria, Acad. A. Scheindlin and Prof. S. Nillsen) in order to prepare the final programme and check all training and teaching material.

B. TEACHING AND TRAINING ACTIVITIES

The European Institute for East-West Cooperation was responsible for the following activities during the International Course on Research and Innovation Management;

Tuesday, 3 November 1992

Technical and Economic Monitoring of Research and Development Products Human and Organizational Resources;

- Managing the Innovative Research and Development Team
- Management of Human Resources in a Research and Development Environment and the Russian Experience

-3-

Wednesday, 4 November 1992

Analysis of the Target Areas of Scientific Products, Product Cycle, Market Prospects

- Analysis of the Internal Market of Scientific Products in Russia

Thursday, 5 November 1992

The Environment of Research, Development and Innovation

- Geopolitical, Social and Cultural Factors with reference to Conversion Issues and to the Context of the European Community

Friday, 6 November 1992

Creativity and the Innovation Process

- How to Convert an Idea into a Product
- A case study on Creativity and Innovation: the Prato case

Saturday, 7 November 1992

Financing of Research, Innovation and New Product Development

- Transition to Market Economy and Management of Innovation
- The Role of Tecnnology Assessment and Policy Analysis in Research Development Decision Making
- International Financing of Research and Innovation

C. PARTICIPANTS FROM DEVELOPING COUNTRIES

The participation of the following persons from developing countries was supported by the European Institute for East-West Cooperation:

-4-

Abdrisaev Baktybek

Institute of Physics Bishkek, Kirghizia

Bolmaro Raùl Eduardo

National University of Rosario Faculty of Science and Engineering Rosario, Argentina

Conde Raul

University of Mar del Plata Faculty of Engineering Mar del Plata, Argentina

Demirkhanian Artur

Association ATLANTIS Stepanavan, Armenia

Madan Mohan Thevarkalathil

Dept. of Management Studies Indian Institute of Science Bangalore, India

Mailian Grigorij

Association ATLANTIS Stepanavan, Armenia

Omulo Monica

I.

7

Lancaster University (UK) Dept. of Environmental Science Kenya

1 I I I I

.../...

П

Potemkina Valentina UNIK Ltd. Kiev, Ukraine

Ramasamy Perumalsamy

Crystal Growth Centre Anna University Madras, India

D. CONCLUDING ROUND TABLE

At the end of the Training Course on Research and Innovation Management a Round Table was organized with the participation of some members of the Academic Staff of the Course: Prof. A. Forti, Prof. S. Nilsson, Dr. B. Schmitz, Dr. G. Aslanian, Acad. A. Scheindlin, Prof. I. Angell, the participants of the Course and the representatives of the Russian Academy of Sciences, the UNESCO Russian National Commission, the Russian Ministrty of Education and Science, etc.

During this Round Table an informal discussion took place regarding the problems in Russia related to the Research-Innovation System. In the present transition phase a series of problems are present, from the stability of the research manpower to the lack of concentration of efforts and scarse resources, joint to the lack of managerial skill. This situation should evolve taking into account the enormous manpower and resources potential of Russia.

Initiatives like this of ICS-UNIDO should be extended taking also into account that the riform of the potent system is being completed should be completed.

-6-

As far as suggestions for the future format of the Course are concerned, several raccomandations were made. The first one reflected the preoccupation that, as it is being done now, the lectures should consider and reflect, in a very accurate manner, the local conditions and particularly the culture and habits of the recepients. This means that the available teaching and training materials should always be adapted to the local conditions. It is also essential that each participant has at his disposal one computer in order to be acquainted with the various possibilities that I & T (information technology) offers to managers and directors of laboratories.

There is also a need to have for sometime, participating in the successive Courses on Resaerch and Innovation Management, persons coming from the same institutions.

This will create for us the basis for setting up courses in developing countries with the help of local specialists which have already being trained and are acquainted with our methodology.

CONCLUSIONS

The European Institute for East-West Cooperation has been involved in the cooperation with UNIDO-ICS in the organization and running of the International Course on Research and Innovation Management since two years.

This is a very important activity which should be extended to other countries and it should receive a mayor support UNIDO-ICS has now, with its partners, gained and accumulated an important experience and Know how which should be available internationally. As we are very honoured to participate to this very important initiative we would like to express to Prof. A. Forti and to his team our gratitude for the assistance and help received.

-7-