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UNIDO Project US/RER/02/164 – Training Course on Technology Foresight for Practitioners, 6 - 10 October 2003, Prague

FINAL REPORT - covering the work performed under the contract - to be submitted by 30 October 2003 - as stipulated by the Terms of Reference

Compiled by: Technology Centre AS CR, Rozvojova 135, Prague 6, Czech Republic

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Background:
The main objective of the training course: to create the critical mass of expertise in countries of the region of CEE/NIS in order to enable them to launch national and regional foresight activities.

Organizers and Programme of the Course: attached

Information leaflet:
The Technology Centre outlined the contents (incl. preliminary programme) of an information leaflet in February 2003 (the final version was approved by the Ministry of Foreign Affairs of the CR). The leaflet was finalized and published by UNIDO and then distributed to potential course participants in coordination with UNIDO promotion activities.

Course promotion:
Information on the course was published at the TC’s websites www.tc.cz and www.foresight.cz, both in their Czech and English versions.

Human resources:
A project team was established at the TC to complete the contract tasks:
Kristina Kadlecikova – Course Manager
Eva Svobodova – Course Secretary
Jana Antosova – Assistant
Tomas Kanak – IT specialist

Co-ordination:
All activities were continuously consulted with the main stakeholders of the project:
UNIDO (project organiser),
Ministry of Foreign Affairs CR (project sponsor),
Ministry of Education, Youth and Sports (project guarantor)

Experts / lecturers:
TC communicated with experts to deliver their contributions to the course textbook by 20 June and subsequently to deliver their presentations, abstracts of their textbook contributions and short CVs for the course workbook by 10 September 2003. The textbook was published by UNIDO, the workbook by TC. TC prepared also and on-line prioritization tool to be used by the course participants.
TC instructed all lecturers to combine their theoretical presentations with practical hands-on exercises – which they did and it proved to add value to the lectures.
The following experts have agreed to deliver lectures in the course (all of them recognized in their area of expertise): also see the attached Programme of the Course

Prof. Martin Potucek, CESES, Charles University, Czech Republic
Ing. Halka Balackova, Masaryk Institute of Advanced Studies, Czech Technical University, Czech Republic
Dr. Michael Keenan, PREST, University of Manchester, United Kingdom
Prof. Ian Miles, PREST, University of Manchester, United Kingdom
Prof. Hans Georg Graf, Centre for Futures Research, University of St. Gallen, Switzerland
Dr. Kerstin Cuhls, Fraunhofer Institute for Systems and Innovation Research (ISI), Karlsruhe, Germany
Dr. Robert Phaal, Centre for Technology Management IFM, University of Cambridge, United Kingdom
Dr. Karel Klusacek, Technology Centre AS CR, Czech Republic

Hotel and transport facilities, boarding arrangements:
TC booked hotel rooms for 35 participants in the Parkhotel Hotel in Prague and arranged for the shuttle-bus service between the hotel and the course venue in the mornings and evenings. Additionally, 5 rooms were booked for the lecturers and UNIDO staff in another hotel - close to the course venue.
It was agreed that participants would confirm the booked accommodation directly – this information was stated in the Application Form.
Participants had breakfasts and dinners in the Parkhotel Hotel (except for one evening for which a social event - a dinner - was planned). Lunches were offered in a self-service dining room close to the course venue.

Provision of basic facilities for the course:
The following facilities were defined as needed and TC provided them:
a conference room (up to 50 participants, complete audio equipment, beamer with connected notebook, video conference equipment, recording equipment and services, internet connection, overhead projector, video projection, flipchart, internal TV circuit, telephone, copy machine and fax)

The application process: Technology centre prepared an on-line application form and provided computer support for handling the application process. The on-line application form was prepared on the basis of an application form for a training programme provided by UNIDO, containing all data to be requested from applicants for participation in the course. A database of applicants was generated upon their filling-in and submitting the electronic application form. The on-line application form and process were worked on in May 2003 and finalized at the beginning of June 2003. Then it was made accessible from both the Technology Centre (TC) and the UNIDO web site.
TC was continuously monitoring the application process and reviewing the filled-in forms for their completeness. The applicants had to be approached to add data they had not provided (since not deemed mandatory) and which were necessary for the evaluation / selection process.
TC sent the first batch of applicants to the Ministry of Foreign Affairs of the CR for comments on 10 July. Remarks by TC were included for consideration. Another batch followed. Based on UNIDO request TC forwarded the evaluation of applicants by both the Technology Centre and the Ministry of Foreign Affairs of the CR to UNIDO by 15 August 2003 so that UNIDO might inform participants in due time (by 29 August) on their
acceptance. Altogether 59 applicants from 26 countries expressed their interest in participating in the course as of the end of September. Representatives of the following countries expressed their interest: Albania, Azerbaijan, Belarus, Brazil, Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Georgia, Greece, Hungary, Iran, Kazakhstan, Lithuania, Malta, Poland, Romania, Russia, Serbia and Montenegro, Slovakia, Slovenia, Turkey, Ukraine, Uzbekistan, Venezuela. Finally, 31 participants from 15 countries attended the course. (see the attached List of Participants with name, institution and country stated for each participant)

Additionally, two representatives of UNIDO participated in the course: Ms. Pilar Rodriguez-Ruiz and Mr. Toshiyuki Miyake.

Representatives of the following countries participated in the course: Albania, Belarus, Bulgaria, Croatia, Cyprus, Czech Republic, Hungary, Iran, Lithuania, Poland, Russia, Serbia and Montenegro, Slovakia, Slovenia, Ukraine.

Evaluation of the Course by Participants: A standard Training Course Appraisal Form was provided by UNIDO. On the last day of the course the Form was distributed among the participants who were asked to kindly provide their opinion and comments. Generally, the course was assessed positively in all aspects, i.e. pre-course administration, achievement of course objectives, course content, training methods, documentation and hand-outs, trainers’ knowledge of the subject, rapport with trainers, overall usefulness of the training. A discussion was opened at the very end of the course – in addition to positive assessments suggestions were raised regarding providing more background information on foresight prior to the course and defining the context of foresight in one of the initial lectures.

Kristina Kadlečiková
Technology Centre AS CR

Attached:
Technology Foresight for Practitioners - Programme
List of Participants
Technology Foresight for Practitioners

Training course
6-10 October 2003, Prague, Czech Republic

Regional Initiative on Technology Foresight for Central and Eastern Europe and the Newly Independent States

Organizers: United Nations Industrial Development Organization, in cooperation with the Technology Centre of the Academy of Sciences of the Czech Republic
Sponsor: The Government of the Czech Republic, the Ministry of Foreign Affairs of the Czech Republic
Guarantor: The Ministry of Education, Youth and Sports of the Czech Republic

Programme:
Five-day training workshop on foresight for experts from Central and Eastern European Countries and the Newly Independent States involved in designing and conducting national and regional foresight exercises.

Objectives:
Provide participants with the knowledge of foresight tools as well as hands-on experience in applying such tools and methodologies to address strategic questions and decisions such as:
• What technologies are likely and desirable to be dominant in national or regional economy?
• What priorities should national research and development programmes feature?
• Where should the budget for publicly funded research and development be allocated?
• What skills and competencies should be developed for the future?
• What will be the demand of the society for industrial products, services, food, shelter, health, education, life style and welfare over the next 10 years?

Knowledge to be acquired in the course:
• Principal foresight methods and possibilities of their applications;
• Case studies as a reference and inspiration for solving problems;
• Guided hands-on exercises in the application of selected foresight methods;
• Networking – establishing contacts with workshop participants and lecturers.
Programme

Day 1 – Monday 6 October 2003

09:00-09:30  Welcoming addresses
Speakers:
Jaromír Přívratský, Ministry of Foreign Affairs of the Czech Republic
Dan Liang, United Nations Industrial Development Organisation
Miroslav Marek, Ministry of Education, Youth and Sports of the Czech Republic

09:30-10:30  Introductory session
Karel Klusacek, Technology Centre AS CR, Czech Republic
Ricardo Seidl da Fonseca, United Nations Industrial Development Organisation
Objectives of the course, introduction of participants, what foresight is and is not, foresight levels – corporate, regional, national, multinational, illustrative examples of foresight applications, major foresight methods

10:30-11:00  Coffee

11:00-13:00  Socio-economic aspects of foresight
Martin Potucek, CESES, Charles University, Czech Republic
Main challenges of the future, how the future can be shaped using foresight, practical exercise - participants will identify the main issues and challenges in their countries to which foresight can be applied

13:00-14:00  Lunch

14:00-15:30  Background analysis
Hans Georg Graf, The Centre for Futures Research, University of St.Gallen, Switzerland
Environmental scanning, megatrend analysis, trend evaluation

15:30-16:00  Coffee

16:00-18:00  Ideas generation
Halka Balackova, Masaryk Institute of Advanced Studies, Czech Technical University, Czech Republic
Brainstorming – principles, practical hints, practical exercise
Day 2 – Tuesday 7 October

09:00-10:30  Foresight tools - expert panels
Michael Keenan, PREST, University of Manchester, United Kingdom
Principles, practical hints

10:30-11:00  Coffee

11:00-13:00  Foresight tools - Scenario planning
Ian Miles, PREST, University of Manchester, United Kingdom
Principles and process, practical hints

13:00-14:00  Lunch

14:00-15:30  Foresight tools - Scenario planning
Ian Miles, PREST, University of Manchester, United Kingdom
Organisation of a scenario workshop, practical exercise

15:30-16:00  Coffee

16:00-18:00  Foresight tools - Scenario planning (continues)
Ian Miles, PREST, University of Manchester, United Kingdom
Organisation of a scenario workshop, practical exercise

Day 3 – Wednesday 8 October

09:00-10:30  Foresight tools – Delphi surveys
Kerstin Cuhls, Fraunhofer Institute for Systems and Innovation Research (ISI), Karlsruhe, Germany
Principles, process, examples, case studies

10:30-11:00  Coffee

11:00-13:00  Foresight tools – Delphi surveys (continues)
Kerstin Cuhls, Fraunhofer Institute for Systems and Innovation Research (ISI), Karlsruhe, Germany
Principles, process, examples, case studies

13:00-14:00  Lunch

14:00-15:30  Foresight tools – Critical technologies
Karel Klusacek, Technology Centre AS CR, Czech Republic
Principles, process, examples, practical exercise

15:30-16:00  Coffee

16:00-18:00  Foresight tools – Critical technologies (continues)
Karel Klusacek, Technology Centre AS CR, Czech Republic
Principles, process, examples, practical exercise

18:30  Dinner in the restaurant JAS
Day 4 – Thursday 9 October

09:00-10:30  Foresight tools –Technology roadmaps
Robert Phaal, University of Cambridge, United Kingdom
Principles, process, examples, practical exercise

10:30-11:00  Coffee

11:00-13:00  Foresight tools –Technology roadmaps (continues)
Robert Phaal, University of Cambridge, United Kingdom
Principles, process, examples, practical exercise

13:00-14:00  Lunch

14:00-15:30  Organising and managing a foresight exercise
Michael Keenan, PREST, University of Manchester, United Kingdom
General guidelines, case examples

15:30-16:00  Coffee

16:00-18:00  Design of a foresight exercise I
Course lecturers available for consulting
Course participants will be provided by concrete tasks, which could be solved using the foresight, selection of topics, discussion with course lecturers, preparation of work in small groups

Day 5 – Friday 10 October

09:00-13:00  Design of a foresight exercise II
Course lecturers available for consulting
Course participants will design their own foresight exercise, practical work in small groups

13:00-14:00  Lunch

14:00-16:00  Presentation of group’s outputs
Group rapporteurs present their exercise to course participants and lecturers, discussion

16:00-17:00  Tea and coffee - final discussion
A brief course evaluation by participants, discussion with lecturers
Closing
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