

# Technology Foresight Summit 2003



# Agenda

**Budapest, 27-29 March 2003**

Danubius Thermal Hotel Margitsziget, Budapest, Hungary



UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION  
Vienna International Centre, P.O. Box 300, A-1400 Vienna, Austria  
Telephone: (+43 1) 26026-0, Fax: (+43 1) 26926-69  
Internet: <http://www.unido.org>



UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

#### HOSTS OF THE SUMMIT:

CARLOS MAGARIÑOS  
(Director General, UNIDO)

ISTVÁN CSILLAG  
(Minister, Ministry of Economy and  
Transport, Hungary)

#### MODERATOR OF THE SUMMIT:

TIBOR TÓTH  
(Ambassador of the Republic of  
Hungary to the United Nations Office  
in Geneva)



## OPENING CEREMONY

*Time: 27 March 2003, 14.00-15.00*

*Room: Star Auditorium*

### Opening addresses :

CARLOS MAGARIÑOS  
(Director General, UNIDO)

ISTVÁN CSILLAG  
(Minister, Ministry of Economy and  
Transport, Hungary)

BÁLINT MAGYAR  
(Minister, Ministry of Education,  
Hungary)\*

SZILVESZTER E. VIZI  
(President, Hungarian Academy of  
Sciences)

## TECHNOLOGY FORESIGHT PANELS

### Description and Contents of the Panels

#### TF Plenary: Knowledge-based Society, Innovation and Technology Foresight

*Time: 27 March, 2003, 15.00-16.50*

*Room: Star Auditorium*

- Foresight practice as a tool for enhancing competitiveness and innovation on corporate, sub-, supra- and national levels;
- Main global scientific, technological and social trends, taking into consideration the findings of the various national foresight studies.

#### Chairperson:

ÁRPÁD SIEGLER (Deputy Secretary of State, Ministry of Education, Hungary)\*

#### Speakers:

LUKE GEORGHIOU (Executive Director, PREST, University of Manchester, UK)  
Topic: "Foresight Concept and Practice as a Tool for Decision-making"

LAJOS NYÍRI (Executive Manager, ZINNIA Group LP, Hungary)

Topic: "Innovation: A Bridge Between R&D and Industry – a Bottleneck in CEE & NIS countries"

Mary Harney Tanaiste (Deputy Prime Minister, Ireland)  
Topic: "The Role of Foresight in Policy Making"

#### TF Panel 1: Foresight at National and Sub-national Level

*Time: 28 March 2003, 8.50-10.00*

*Room: Béla*

- Role of Foresight as a tool for strategic decision making and consensus building;
- How to raise the ability of society to shape the future rather than waiting for it to happen;
- The importance of foresight exercises in Central- and Eastern-Europe and in the NIS countries for enhancing innovation and global competitiveness of industry;
- Anticipating issues related to political, economic, social transition;
- Outcome of foresight: the "products" (reports, studies) and the process itself;
- Ways to disseminate the culture of foresight to the society.

**Speakers:**

LENNART LUEBECK (Programme Manager, IVA, Sweden)  
Topic: "Foresight at National Level: The Experience of Sweden and its contribution to the Foresight process and culture"

GORDON OLLIVERE (Managing Director, RTC North Ltd., UK)  
Topic: "Foresight Project as a Tool to Enhance Regional Development"

**Contributors:**

MICHAEL ZGUROVSKY (Rector, National Technical University, Kiev Politechnical Institute, Ukraine)  
Topic: "The Role of Technology Foresight in Economic Transformation in Ukraine"

TURGUT TUMER (Associate Vice-president, Scientific and Technical Research Council of Turkey –TUBITAK)  
Topic: "The Rationale and Methodology of the Turkish Foresight Programme (Vision 2023)"

**Rapporteur:**

ATTILA HAVAS (Researcher, Institute for new Technologies UNU-INTECH)

**TF Panel 2: Foresight at Corporate and Regional (Multi-country) Level**

*Time: 28 March 2003, 10.30-12.00*  
*Room: Béla*

- Integration to the European Union and globalisation: new drivers of longer-term thinking.
- New trends in "foresighting": networks of foresight programmes as a first step towards a supra-national or European foresight;
- Recent initiatives to introduce foresight exercise (method and culture) in Central and Eastern-Europe and in the Newly Independent States;
- ERA (European Research Area) as a tool to enhance competitiveness of Europe;
- Experiences of future oriented programmes and strategic thinking at corporate level; what foresight can offer for both small-enterprises and multi-national organisations;
- Trans-border regions in Central and Eastern-Europe and in the Newly Independent States – an opportunity for cooperation;
- The regional dimension on technology foresight process.

**Speakers:**

HANS GRAF (Director, Centre for Futures Research, St. Gallen, Switzerland)  
Topic: "Experiences with Foresight Methods at Corporate Level"

GUSTAVO FAHRENKROG (Head, Technology, Employment, Competitiveness and Society Unit, Institute for Prospective Technological Studies – IPTS, Spain)  
Topic: "Networking of Foresight Programmes"

GUENTHER CLAR (Principle Officer, European Commission K1)  
Topic: "Emerging Foresight Programmes in the CEE region"

RICARDO SEIDL DA FONSECA (Programme Manager, Industrial Promotion and Technology Branch, UNIDO)  
Topic: "Regional Initiative on Technology Foresight for CEE & NIS"

**Rapporteur:**

ATTILA HAVAS (Researcher, Institute for new Technologies UNU-INTECH)

**TF Panel 3: Emerging Technologies for Transportation and Logistic**

*Time: 28 March 2003, 14.00-15.30*  
*Room: Béla*

- Response to the need of different groups of CEE countries and NIS for a mid- and long-term development vision on the transportation sector and logistics services;
- Dissemination of the best practices, experience, results and lessons of technology foresight in the field of transportation and logistics;
- Development of more technology-oriented long-term strategies as regards to relevant national and regional transport system development for decision makers of public and private sector, such as NGOs, governments and local authorities, R&D institutions, NGOs and business community;
- Consideration of the main objectives of EU common transport policy and evaluation of regional specialities and circumstances in order to bring together the initiatives which are able to meet the new challenges and can provide assistance for a sustainable mobility;
- Selection of the main priorities to be applied in the transportation and logistics system development in CEE and NIS.

**Speaker:**

ROGER VICKERMANN (Director and JEAN MONNET Professor of European Economics, Centre for European, Regional and Transport Economics, University of Kent, UK)  
Topic: "Transport, traffic and logistics connecting countries"

**Contributors:**

WŁODZIMIERZ RYDZKOWSKI  
(Chairman, Transport Policy  
Department, University of Gdansk,  
Poland)

ATTILA GÖNCZI (Associate Professor of  
University Politehnica Timisoara,  
Faculty of Management in Production  
and Transportation, Department of  
Transportation and Logistics, Romania)

**Rapporteur:**

KATALIN TÁNCZOS (Head, Department  
of Transport Economics, Budapest  
University of Technology and  
Economics, Hungary)

### TF Panel 4: The Future of Environment – the Environment of the Future

*Time: 28 March 2005, 8.50-10.00*

*Room: Ybl*

- Public expectations and reality for cleaner production and healthy environment;
- Environment and quality of life: prospects for improvement and threats;
- International economic relations and environmental management: the need for common visions and agreements.

**Speakers:**

MICHAEL BRAUNGART (Professor for  
Process Engineering, Senior Technical  
College of Northeast Lower Saxony,  
Germany)  
Topic: "New Approaches and Aspects of  
Protecting the Environment"

ADAM BUDNIKOWSKY (Director,  
Institute of International Economics,  
Warsaw School of Economics)  
Topic: "Common Problems and their  
Solutions for Environmental Protection  
in the CEE & NIS Region"

**Contributor/Rapporteur:**

SÁNDOR KEREKES (Professor, Budapest  
University of Economic Sciences and  
Public Administration, BUESPA)

### TF Panel 5: Information and Communication Technologies – Pervasive Electronics

*Time: 28 March, 2005, 10.50-12.00*

*Room: Ybl*

- Emerging paradigms for electronics and computing technologies (nano-, molecular-, quantum-, bio-technologies);
- Increasing intelligence and connectivity in all kinds of devices;
- The future of communications, perspectives of broadband and mobile technologies, global connectivity;
- Pervasive electronics and computing technologies and development of multi-platform applications;
- Industrial possibilities and challenges with special attention to the CEE / NIS region.

**Speakers:**

ISTVÁN FODOR (Chairman, Ericsson,  
Hungary)  
Topic: "Techniques and Technologies  
which will Change our Lives:  
Ubiquitous Electronics"  
Robert Saracco (Director, TILAB,  
Italy)  
Topic: "Information and Communication  
Technologies: Disruptions to Look for  
and their Impact on Countries  
Evolution Strategies"

**Contributors:**

WILLEM VAN DER VEGT  
(CEO, Philips Hungary)  
Topic: "Electronics Manufacturing  
Industry in CEE"

KIRIL BOYANOV  
(Head, Central Laboratory for Parallel  
Processing (CLLP), Bulgarian Academy  
of Sciences)  
Topic: "Trends in Telecommunication  
and Developments in Bulgaria"

**Rapporteur:**

BÁLINT DÖMÖLKI (Chairman, IQSOFT  
Intelligent Software Co. Ltd., Hungary)

### TF Panel 6: Information and Communication Technologies - Application Trends & Social Issues

*Time: 28 March 2005, 14.00-15.50*

*Room: Ybl*

- Trends in the use of pervasive computing devices (personal networks, mobile applications etc.);
- Enterprise-wide applications in the world of global connectivity;
- The increasing role of community building and citizen participation supporting applications;
- Fighting the "digital divide", both within the countries and between regions;
- Preserving multilingual and multicultural values in the world of global communications;
- Challenges for security and trust in an increasingly ICT-dependent society.

**Speakers:**

ZSUZSA SZENTGYÖRGYI (ICT Expert,  
Adviser to the President of the National  
Academy of Sciences, Hungary)  
Topic: "Application Trends and Social  
Issues of Information and  
Communication Technologies"

VASILE BALTAC (President, ATIC-IT&C  
Association of Romania)  
Topic: "Information Society and its  
Challenges to Emerging Economies"

**Contributors:**

MAREK TIITS (Permanent Secretary, Research and Development Council, State Chancellery, Estonia)  
Topic: "ICT Foresight as the Tool in Fostering Industrial Development in the CEE"

NIKO SCHLAMBERGER (State Undersecretary, Statistical Office of the Republic of Slovenia)  
Topic: "Measuring the Information Society"

**Rapporteur:**

BÁLINT DÖMÖLKI (Chairman, IQSOFT Intelligent Software Co. Ltd., Hungary)

### TF Panel 7: Prospects and New Technologies for Agriculture and Food Industry

*Time: 29 March 2005, 8.50-10.00*  
*Room: Béla*

- Impacts of integration to the European Union on the agriculture and food industry of the Central and Eastern-European Countries and the Newly Independent States;

- Longer-term thinking on possible scenarios dealing with structural changes that will occur as a result of compliance with the "aquis communautaire" in the post accession period;

- Agri-environment: Environmental issues in crop production are mainly

related to agro-ecological aspects, plant technologies as pollution sources, sustainability, cultivated areas as wildlife habitat and landscape management;

- Regional (foresight) programmes as potential tools for enhancing rural development and eco-tourism;

- Product development: bio-products, marketing opportunities and difficulties of traditional/regional specialties;

- Food quality and safety;

- New forms of cooperatives in the countries in transition:

- Procurement, production, technology-equipment supply, logistics and storage, joint marketing
- Small/medium-size enterprises and multinational companies (co-operation or competition?);

- New role of the state:

- Education and information of small-holders adult education, model farms, consultative networks
- Introduction of compliance with EU norms in quality assurance
- EU accepted methods of protecting indigenous small-holders.

**Speakers:**

IOANNIS PAPADOPOULOS (Director, Agricultural Research Institute, Cyprus)  
Topic: "Challenges of Agriculture in the CEE & NIS in the next two Decades"

PÉTER BIACS (Deputy State Secretary, Ministry of Agriculture and Regional Development, Hungary)  
Topic: "Future of Food Industry in the CEE & NIS"

**Contributors:**

ANTONI RUTKOWSKI (Vice President, Academy of Sciences, Poland)

PETER ŠIMKO (Vice-Director, Food Research Institute, Slovakia)

**Rapporteur: \*\***

### TF Panel 8: Automotive Industries at Cross-Roads

*Time: 29 March 2005, 8.50-10.00*  
*Room: Ybl*

- The weight of Central Europe in the global automotive market: would a fast economic development (catching up) boost this market?

- The importance of accession countries as a production base:

- assembling high-volume, low-end models, and/or low-volume, high-end models;
- producing high value-added sub-systems for Europe and global production networks and/or low-tech, low value-added components for the local markets;

- The role of endogenous automotive firms in accession countries in the regional, European and global production networks:

- low-cost, efficient second- and third tier suppliers ('screw-driving' plants);
- mighty first-tier suppliers engaged in R&D and high value-added services (logistics, training, TQM, etc. for other suppliers);

- The impacts of environmental challenges, reactions of global players and endogenous firms;
- The diffusion of new automotive technologies (e.g. fuel cells) in accession countries, and the role of endogenous firms and R&D centres in developing them;
- The marriage of electronics, ICT and automotive technologies;
- New concepts for personalised transport systems and the role of endogenous firms and R&D centres in developing them;
- Alternatives to automotive transport (local, city-to-city) and their impacts on the global and endogenous automotive firms.

**Speaker:**

ISTVÁN LEPSÉNYI (President, Association of the Hungarian Automotive Industry, Managing Director, Knorr-Bremse Ltd, Hungary)  
Topic: "Automotive Industry – A driving Force of the Economies of Central and Eastern Europe"

**Contributors:**

KAREL SKLENAR (VW-Skoda, Czech Republic)

LUDOVIT UJHELYI (Vice President, Automotive Industry Association, Slovakia)

CALLIN POPESCU TARICEANU  
(President, The Association of  
Automotive Manufacturers and  
Importers (APIA), Romania)

**Rapporteur:**

ERZSÉBET CZAKÓ  
(Associate Professor, Appointed Head  
of Department, Department of Business  
Economics, BUESPA, Hungary)\*

**Plenary: Rapport on the  
Technology Foresight Panels**

*Time: 29 March 2005, 10.50-12.00*  
*Room: Star Auditorium*

In the closing plenary session, recommendations of the panel will be summarized and presented for the participants and for the ministerial round table conference.

**BIOTECHNOLOGY PROSPECTIVE  
FORUM**

**Description and Contents of the  
Sessions**

*Time: 28 March 2005, 8.50-10.00*  
*Room: Star Auditorium*

**BT Session 1: Biotechnology  
and the Biomedical Industry**

- The post-genomic era and the new paradigm of medical biotechnology;
- Computational and information-driven approaches in the pharmaceutical industry;
- Drug design and pharmaceutical development strategies based on genomic information.

**Speakers:**

FRIEDRICH DORNER  
(President, Baxter Bioscience, Austria)  
Topic: "Medicine and Man: Can  
Mankind Cope?"

JACOB DE Vlieg  
(Executive Director, Molecular Design  
and Informatics, N.V. Organon, Akzo-  
Nobel, The Netherlands):  
Topic: "The Role of "in silico" Biology in  
Drug Discovery"

LÁSZLÓ TAKÁCS  
(Head of Genomics and Bioinformatics,  
Pfizer Global Research and  
Development, France)

Topic: "Parallel Biology: Current  
Aspects of Genome Research and its  
Application in the Pharmaceutical  
Industry"

**Rapporteur:**

PÁL VENETIANER (Research Professor,  
Biological Research Centre, Hungary)

**BT Session 2: Biotechnology,  
Food and Agriculture**

*Time: 28 March 2005, 10.50-12.00*  
*Room: Star Auditorium*

- The challenges and potentials of biotechnology in forming the new agriculture;
- Global and local approaches to agricultural biotechnology, meeting the needs of a growing world population;
- Regulatory aspects of agricultural biotechnology: new challenges to markets and to regulatory agencies.

**Speakers:**

MARC VAN MONTAGU  
(Chairman, Department of Molecular  
Genetics, Institute Plant Biotechnology  
for Developing Countries, Ghent  
University, Belgium)  
Topic: "Plant Biotechnology for  
Developing Countries. What is needed  
and what can be done."

DÉNES DUDITS  
(Head, Institute of Plant Biology  
Biological Research Centre, Hungarian)

Academy of Sciences)  
Topic: "The Green Genome Era:  
Central European Perspective."

ANDRZEJ ANIOL (Deputy Director for  
Research, Plant Breeding &  
Acclimatization Institute, IHAR,  
Poland)  
Topic: "The Legal and Regulatory  
System of Biotechnology in Poland and  
its Relation to EU Regulations."

#### Rapporteur:

PÁL VENETIANER (Research Professor,  
Biological Research Centre, Hungary)

### BT Session 3: Biotechnology and the Environment

*Time: 28 March 2003, 14.00-15.50*

*Room: Star Auditorium*

- Biotechnology as a challenge and a help to the environment;
- The effect of biotechnology on the new food standards: regional and global views;
- Public perception of biotechnology: what the public would like to know;
- Biotechnology and society: global and regional views;
- Genetically modified organisms and the environment.

#### Speakers:

JOACHIM SCHIEMANN (Institute for  
Plant Virology, Microbiology and  
Biosafety, Germany)

Topic: "Environmental and Biosafety  
Aspects of Commercially used GM  
Plants"

PETER RASPOR (Biotechnical Faculty,  
University of Ljubljana, Slovenia)  
Topic: "Food Standards, Safety and  
Biotechnology: A Central-European  
Perspective"

TOMASZ TWARDOWSKI (Institute of  
Bioorganic Chemistry, Polish Academy  
of Sciences)  
Topic: "Biotechnology and the Social  
Environment"

#### Rapporteur:

PÁL VENETIANER (Research Professor,  
Biological Research Centre, Hungary)

### Plenary: Cross-cutting issues on Biotechnology

*Time: 28 March 2003, 16.00-17.50*

*Room: Star Auditorium*

- Biotechnology as a new chapter of scientific and cultural evolution;
- Cross-cutting issues of agricultural and industrial biotechnology: common themes of regulation and property rights;
- Biotechnology in a developmental framework: What the developing world needs.

#### Speakers:

FRANK GANNON  
(Executive Director, European  
Molecular Biology Organization,  
EMBO, Germany)  
Topic: "The Interaction between  
Academia and Industry in the  
Development of European  
Biotechnology"

FRANCISCO E. BARALLE  
(Director/Trieste Component,  
International Centre for Genetic  
Engineering and Biotechnology, ICGEB,  
Italy)  
Topic: "Biotechnology: A Development  
Perspective"

MAURIZIO IACCARINO  
(International Institute of Genetics and  
Biophysics, IIGB, Italy)  
Topic: "Science, Culture and  
Biotechnology"

#### Rapporteur:

PÁL VENETIANER  
(Research Professor, Biological  
Research Centre, Hungary)



## MINISTERIAL ROUND TABLE

### Discussion issue:

### Impact of the European Union enlargement and integration process on the local industry

### Participant countries:

Austria, Bulgaria, Croatia, Cyprus, Czech Republic, Hungary, Lithuania, Poland, Romania, Slovakia, Slovenia, Yugoslavia

### Working lunch

*Time: 29 March 2005, 12.00-14.00*

*Room: Platán Restaurant*

### Speakers:

CARLOS MAGARIÑOS  
(Director General, UNIDO)

MATTHIAS HORX  
(Trend and Future Researcher)\*

### Round table

*Time: 29 March 2005, 14.00-16.00*

*Room: Star Auditorium*

### Moderator:

FRANZ VRANITZKY  
(former chancellor of Austria)

### Ministers\*:

NIKOLAY VASSILEV  
(Deputy Prime Minister and Minister of

Economy, Bulgaria)

LJUBO JURČIĆ (Minister, Ministry of Economy, Croatia)

TEA PETRIN (Minister, Ministry of Economy, Slovenia)

MICHAL KLEIBER  
(Minister, Ministry of Science and Technology, Poland)

JERZY HAUSNER  
(Minister, Ministry of Economy, Labour and Social Policy, Poland)

PETRA BUZKOVA (Minister, Ministry of Education, Youth and PT, Czech Republic)

PETR MARES (Vice Premier, Czech Republic)

ROBERT NEMCSICS (Minister, Ministry of Economy, Slovakia)

PETRAS ČESNA (Minister, Ministry of Economy, Lithuania)

DAN NICA (Minister, Ministry of Information Technology and Telecommunications, Romania)

Dragan Domažet (Minister, Ministry of Ministry of Science, Technologies and Development, Serbia)

Nicos A. Rolandis (Minister, Ministry of Commerce, Industry and Tourism, Cyprus)

ISTVÁN CSILLAG (Minister, Ministry of Economy and Transport, Hungary)

## FAIR OF THE FUTURE

### Presentations

*Room: Jázmin 2*

- HUGO SCHEPENS (Secretary General, EuropaBio)  
Topic: "Biotech in EU, Focus on Entrepreneurship"  
*Time: 27 March 2005, 15.00-15.50*
- ERNŐ DUDA (President and CEO, SOLVO Biotechnology)  
Topic: "Biotech in CEE and NIS, focus on opportunities and threats"  
*Time: 27 March 2005, 15.50-14.00*  
Topic: "CEE/Hungarian Biotechnology Sector"  
*Time: 28 March 2005, 8.50-9.00*
- MARCUS MOSER (Managing Director, German Business Concepts-Research)\*  
Topic: "How to do Business in the Biotechnology Sector" \*  
*Time: 28 March 2005, 9.00-9.50*
- YIGAL KOLTIN (Vice President, International R&D, Millenium Pharmaceuticals)  
Topic: "Evolution of a Leading Biopharmaceutical- the Millennium-Saga"  
*Time: 28 March 2005, 9.50-10.00*
- RAGHBIR BAINS (Business Development Executive, IBM EMEA Life Sciences Group)  
Topic: "IBM and Biotech (IBM's Experiences with Biotech Companies)"  
*Time: 28 March 2005, 10.50-11.00*

- ANN DE BEUCKELAER (Partner, Biopolis Consultants Ltd.)  
Topic: "Governmental Assistance to the Biotechnology Sector in Germany"  
*Time: 28 March 2005, 11.00-11.50*
- GEORGE SIMON (Vice President, Business Development, Myriad Genetics)\*  
Topic: "Business Development in Biotech"  
*Time: 28 March 2005, 11.50-12.00*
- ZSOLT RIEDER (Director, CRM and Custody Management, K&H Bank Plc.)  
Topic: "Investment in the Hungarian Biotechnology Sector"  
*Time: 28 March 2005, 14.50-15.00*
- ZSOLT LAVOTHA (President & CEO, Lavipharma Corp.)\*  
*Time: 29 March 2005, 8.50-9.00*
- ESZTER TÁNCZOS (Chief Scientific Officer, Biotissue Technologies AG)\*  
*Time: 29 March 2005, 9.50-10.00*

### Exhibitors

*Time: 27-29 March 2005*

*Room: Jázmin 1*

(Participants in the process of selection)

Closing ceremony

---

## CLOSING CEREMONY

*Time: 29 March 2005, 16.00-16.30*

*Room: Platán Restaurant*

### Closing address:

PÉTER MEDGYESSY  
(Prime Minister, Hungary)

- \* to be confirmed
- \*\* to be nominated



MINISTRY OF ECONOMY AND TRANSPORT, HUNGARY



UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION