

## UNITWIN/UNESCO Chairs Programme Progress report

**Period of activity:** January 1<sup>st</sup> – December 31<sup>st</sup>, 2008

**Title of the UNESCO Chair or Network:** Global e-Learning with applications to multiple domains

**Institution/Country:** University of Tampere, Finland

**Report established by:** Tapio Varis

**Function / Title:** Professor and Chair, Vocational education with particular reference to global learning environments

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Fax: 33 1 45 68 56 26/27/28

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### Summary

(Not exceeding 300 words, outcomes/results/impact)

The activities of the Chair have been positively reflected in the cooperation with the Finnish National Commission of Unesco, UNESCO-UNEVOC cooperation, and research work with the European Commission and the Alliance of Civilizations movement of the United Nations. The Chair has been used actively in the UNESCO-UNEVOC International Experts Consultation Seminar in Dublin, Ireland, and in preparations of cooperation with St. Petersburg UNEVOC centre in Russia, as well as in activities in Morocco. The ideas have been used to develop the Global University System (GUS) within the UNESCO Chair in global e-learning at the University of Tampere. The Chair has emphasized media literacy because of the topicality and importance of media education as part of citizenship skills and the problems encountered in its realization. Another issue has been cultural dialogue and cooperation with the Alliance of Civilizations movement created by the United Nations. The United Nations AoC movement and the European Commission uses the Chair in media literacy education. One of the main activities of the Chair in 2008 was the Workshop “Ubiquitous ICT for Sustainable Education and Cultural Literacy,” in Hämeenlinna, 6–7 October 2008. The SECL workshop is a continuing effort of academics representing consortium institutions from Finland, Germany, Sweden, and Jordan and other countries collaborating on an EU Tempus funded project. This workshop is intended as a contribution to bring together scientists, public authorities, businesses, academics, civil society organizations and other interested groups and stakeholders to understand challenges for sustainable education and cultural literacy in the global context; identify the potential of ICT to advance and improve education; share knowledge and best practices about successful policies in global education; create venues of collaboration; and consolidate responsible communities for multi-literacies. The Chairholder held full length courses in intercultural communication in Jordan and Chile.

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## I. Address and Contact

	Address of
	Address of

	the Host Institution	the Chairholder (or coordinator) Other contact person
<p>Name TapioVaris</p> <p>Function/Title Professor and Chair, Vocational Education with particular reference to global learning environments</p> <p>University/Institution University of Tampere</p> <p>Faculty/Department/Centre Faculty of Education/ Research Centre for Vocational Education</p> <p>P.O.Box 229, FIN-13101 Hameenlinna, Finland</p> <p>Street</p> <p>Postal Code FIN-13101 Hameenlinna, Finland</p> <p>City Hameenlinna</p> <p>Province</p> <p>Country Finland</p> <p>Phone +358 3 3551 3608</p> <p>Fax +358 3 3551 3611</p> <p>E-mail tapio.varis@uta.fi</p> <p>Website of UNESCO Chair or UNITWIN Network</p> <p>Website of Host Institution</p> <p><a href="http://www.uta.fi/">http://www.uta.fi/</a></p> <p><a href="http://www.uta.fi/~titava">http://www.uta.fi/~titava</a></p> <p><a href="http://www.friends-partners.org/GLOSAS/Global_University/Global%20University%20System/Reference_web_sites.html">http://www.friends-partners.org/GLOSAS/Global_University/Global%20University%20System/Reference_web_sites.html</a></p> <p><a href="http://www.itu.int/wsis/goldenbook/search/display.asp?Quest=8032562&amp;lang=en">http://www.itu.int/wsis/goldenbook/search/display.asp?Quest=8032562&amp;lang=en</a></p>	<p>University of Tampere, P.O.Box 229 FIN-13101 Hameenlinna Finland</p>	<p>University of Tampere, P.O.Box 229 FIN-13101 Hameenlinna Finland</p>

## II. Available resources

*For each type of resource placed at the disposal of the Chair/Network, please specify its source (cf. Annex 1)*

### 1. Human resources

- Status of the Chair in the organizational structure of the Institution (number of posts contributing to the Chair): integrated in the full professorship
- Number of academic staff (full time and part time), full professors, researchers, lecturers: one full time professor
- Number of visiting staff: a few short term visitors

- If there are other staff or groups contributing to the Chair or Network, please indicate their number and status (postgraduate students, advisors, consultants, experts, NGOs, etc): NGO Vice-President for Global University System (and network)
- Number of administrative staff: integrated with regular administration

## 2. Other resources

Financial contributions (*indicate amount, source and purpose*): full time professor salary for the coordinators basic work

UNESCO-UNEVOC Centre, specific contracts  
European Union, Research and Expert work

Material resources (*indicate their nature and use*): for specific purposes/projects

Space placed at the disposal of the Chair or Network University office room

To facilitate easy handling of data, for each type of resources listed above, please provide the amount whenever available or an estimate sum in US Dollars or Euros

## III. Activities

*(Please, provide short information for each activity)*

### 1. Academic activities

#### **Education** (*leading to certification*)

- **Title and expected results for each courses, workshop, etc.**
  1. Doctoral seminar and lecture course in master programme, University of Tampere, Finland
  2. Course on Media Education, University of Tampere, Finland
  3. Course on Global Changes in Society and Vocational Education, University of Tampere, Finland
  4. Course on “Intercultural communication (in English),” German-Jordanian University, Amman, Jordan, July 2<sup>nd</sup> – August 8<sup>th</sup>
  5. Course on “Intercultural communication” (in Spanish) , Pontificia Universidad Católica de Chile, Escuela de Comunicaciones, Magíster en Comunicación y Educación, and Universidad Arturo Prat, Iquique, Chile, October 25 – November 9
- **Global E-Learning Course Offerings to TOBB Economic and Technology University (ETU) in Ankara, Turkey from the following institutions (in arrangements):**
  1. New Jersey Institute of Technology (NJIT), USA <<http://tinyurl.com/6ojx4u>>
    - emergency management information systems
    - management of information systems
    - Design of Interactive Systems
  2. University of Tampere, Finland <<http://tinyurl.com/6ojx4u>>
    - Introduction to Web Publishing
    - Introduction to Hypermedia
  3. Polytechnic Institute of New York University
    - Bioinformatics <<http://www.poly.edu/epoly/programs/masters/bioinformatics/>>

- Duration
- Target groups (cf. Annex 2)
- Geographical coverage for partners and participants (cf. Annex 3)

### ***Training (short term)***

- Title and expected results for training activity
- Duration
- Target groups (cf. Annex 2)
- Geographical coverage for partners and participants (cf. Annex 3)

### ***Research by GLOSAS/USA (founder of GUS):***

- **Quantitative Policy Analysis of Global Socio-Economic-Energy-Environment Development (GSEED)** <<http://tinyurl.com/6fb8bb>> -- a variation of Globally Collaborative Environmental Peace Gaming (GCEPG) <<http://tinyurl.com/k2c7a>>

Nigeria is a major Oil Producer and member of the Organization of Petroleum Exporting Countries (OPEC). The country's economy is mostly dependent on Crude Oil, which is produced in the Niger Delta region. The challenges of the long term neglect of these Oil Producing Areas, is succinctly reported by Tom O'Neill, "**Curse of the Black Gold: Hope and Betrayal in the Niger Delta**," in the February 2007 edition of National Geographic. 40% of oil produced in the Niger Delta region is exported to the USA. Again about 40% of the electricity generated at the U.S. power plants utilizes Oil from Nigeria, because of its low sulfur content. Former Vice President and Nobel Peace Laureate, Mr. Al Gore recently proposed to replace fossil fuel with renewable energy to generate electricity in the USA in ten years <<http://tinyurl.com/66sk9d>>. If Mr. Gore's bold scheme were to succeed, most of the developed nations (among them Nigeria's Oil importers) would follow suit thereby leave Nigeria greatly exposed to the risk of lessening oil revenue. This project is focused on modeling Nigeria's Energy Policy Response Dynamics, taking into account the ramifications of Mr. Gore's ambitious energy policy proposal; the impacts of highly unstable world oil prices; as well as the depleting levels of production as a result of the conflicts in the Niger Delta Region of the country.

This GSEED Project, focusing on the issue of environment and sustainable development in developing countries, is also to train would-be decision makers in crisis management, conflict resolution, and negotiation techniques basing on "facts and figures."

With global GRID computer networking technology and Beowulf mini-super computers of cluster computing technology, we plan to develop a socio-economic-energy-environmental simulation system and a climate simulation system in parallel fashion, both of which are to be interconnected in global scale.

This project will jointly create a **Globally Collaborative Network of the Centers for Conflict Prevention, Management and Resolution (GCN/CCPMR) on Environmental Issues**, which utilizes the globally distributed gaming/simulation system.

Our first milestone of this project is to make the GCN/CCPMRs as one of the Research and Training Center (RTC) programs of the United Nations University (UNU) with the collaborative efforts of the Earth Institute (EI) of Columbia University, Millennium Institute (MI), New York University/Polytechnic Institute (NYU/PI), International Communication of Negotiation with Simulation (ICONS) of the University of Maryland, GLOSAS/USA, and Global University System (GUS)/UNESCO/UNITWIN Networking Chair Program at the University of Tampere, Finland, etc.

The environmental issues will be more severe and fierce as getting close to the 2050, which is the target year of the United Nations Millennium Development Goals (UN/MDGs), since many of its items are expected not meeting with the goals. The decision-makers in those

years would be the youngsters in 10s and 20s nowadays. They must then be well prepared to cope with those conflicts with rational analysis and critical thinking basing on the facts and figures.

This project will create GUS/Nigeria.

#### ◆ **Use of Beowulf Mini-super Computer at Ethiopian Meteorological Agency**

Ethiopian meteorological agency approached us for arrangement of Beowulf mini-super computers for their local meteorological forecasting at their 11 branch offices to deliver early warning on weather, climate, drought, flooding, and also on their capacity building.

This project will create GUS/Ethiopia.

- Duration Indefinite
- Target groups (cf. Annex 2) High school, undergraduate, graduate students
- Geographical coverage for partners and participants (cf. Annex 3) Japan, the US, China, Russia, and the other relevant countries.
- Intended use of results

This project will construct Globally Distributed Socio-Economic-Environmental Simulation System through broadband Internet, which will have two-tier system:

- a. One for training young would-be decision makers in crisis management, conflict resolution, and negotiation techniques basing on "facts and figures" and
- b. The other for helping decision makers construct a globally distributed decision-support system for positive sum/win-win alternatives to conflict and war.

## **2. Conferences/ Meetings**

- Title for each conference, meeting organized by the Chair/Network
- Dates and place

### ***Varis:***

Alliance of Civilizations, First Forum, Madrid, January 14-15, participant

Media Literacy Expert Group, European Commission, Brussels, January 23, 2008 (Speaker)

Congreso internacional fundacional AE-IC, Santiago de Compostela, January 30 – February 1, 2008 (keynote)

Evaluation of the Higher Education in Media and Journalism teaching in Estonia, Higher Education Evaluation Council of Estonia, March 30 – April 5 (Chair)

IV Congreso Internacional de Prensa y Periodismo Especializado, Guadalajara del 7 al 9 de mayo 2008 (keynote)

10 Years of Vocational Education in Estonia, May 22, 2008 (keynote)

Media Literacy, Brdo, Slovenia May 4-6, 2008 (keynote)

UNESCO-UNEVOC international experts consultation: Stimulating networking and capacity building within the UNEVOC Network through enhanced North- South collaboration. Dublin Institute of Technology, Dublin, Ireland, August 17 - 20, 2008. (speaker)

Digital Literacy Expert Group, European Commission, Brussels, September 4, (speaker)

Connecticut Career Choices Education Leadership Symposium International Competitiveness, Lessons from Abroad, Litchfield, USA, September 12, (keynote)

ICL Conference 2008, Villach Austria, September 26, (keynote)

SECL2008 Workshop (Chair and Co-organizer, keynote) and TEMPUS Project Jordanian-German-Finnish-Swedish working seminar, Hämeenlinna, Finland, October 5 - 7, 2007, Project participant

Media Literacy Expert Group, European Commission, Brussels, October 16-17 (speaker)

Seminario Innovación en Educación, Embassy of Finland, Chile, October 30 (keynote)

Educación y Innovación en Finlandia, Universidad Arturo Prat, Iquique, Chile, November 4, 2008 (keynote)

New Literacies for the Digital Generations, International Conference on Digital Literacy, Brunel University, London, November 16-19, 2008 (keynote)

Skills and Work in the Global Changing Markets. 6<sup>th</sup> International Congress of Quality Management in Education and Training Systems (cimqusef'2009), 16 – 18 December, Rabat 2008, Morocco (paper)

### **Utsumi:**

#### **◆ Meetings on GUS and GCEPG/GSEED projects:**

- **April 7, 2008 at New York University – with echelons of Imo State government and university in Niger Delta Region of Nigeria**

(08/05/08) [Creation of GUS in Niger Delta Region of Nigeria](http://tinyurl.com/5z66hz)  
<http://tinyurl.com/5z66hz>

- **July 15, 2008 at Center for International Earth Science Information (CIESIN) of Columbia University, Palisades, NY**

(07/20/08) (1) [Mtg at Columbia University on July 15th](http://tinyurl.com/56wk74) and (2) [GCEPG Project to meet with Al Gore's bold vision](http://tinyurl.com/56wk74)  
<http://tinyurl.com/56wk74>

- **August 21, 2008 at Polytechnic Institute of New York University**

(08/25/08) [Meeting with Prof. Walter Ollor from Nigeria at Polytechnic Institute of NYU on 8/21/08](http://tinyurl.com/65aw7z)  
<http://tinyurl.com/65aw7z>

- **September 10, 2008 at Polytechnic Institute of New York University**

(09/16/08) [Tapio Varis' mtg at Polytechnic Institute of NYU on 9/10/08](http://tinyurl.com/4gva57)  
<http://tinyurl.com/4gva57>

#### **◆ Audio Interview on GUS and GCEPG/GSEED projects:**

- (11/07/08) [Podcasting Interview of Tak Utsumi in United Nations Yak](http://tinyurl.com/56oav3)
- (12/12/08) **Second Podcasting Interview of Tak Utsumi in United Nations Yak**

<http://tinyurl.com/9vf9hv>

◆ **Participants (*number and geographical coverage*):**

Japan

1. Soka University

Netherlands

1. International Research Society on Methodology of Societal Complexity

Nigeria

1. Igbinedion University, Okada (IUO)

Russia

1. Novosibirsk State University
2. Republic of Altai, Ministry of Education, Science and Youth Policy
3. Russian Academy of Sciences

Turkey

1. Bogazici University

United States of America

1. Columbia University
2. GLObal Systems Analysis and Simulation Association in the U.S.A. (GLOSAS/USA)
3. McLeod Institute of Simulation Sciences (MISS) at California State University at Chico
4. Millennium Institute
5. Polytechnic Institute of New York University
6. University of Maryland
7. University of Vermont

**3. Interuniversity Exchanges/ Partnerships**

*(Please specify:*

*Name and institutions involved in the exchange and partnership, number of persons- staff and students received, staff and students sent on exchange)*

**4. Publication and multimedia materials**

*(Please estimate costs of publications and expected revenues from their sale)*

**Varis, T:**

Associate Editor of International Journal of Mobile Learning and Organisation (IJMLO)

Editorial Board member of Digital Libraries: An International Journal, (TERI, India)

Editorial Board Member of The International Journal of Learning and Media, (University of London)

Kansainvälinen tiede- ja koulutuspolitiikka. Teoksessa ”Ihmistä kasvattamassa: Koulutus – Arvot – Uudet Avaukset” Suomen kasvatustieteellinen seura, Kasvatusalan tutkimuksia 40, 2008, s.41-52

Makrotason ilmiöt kulttuurienvälisessä ammattikasvatuksessa. Ammattikasvatuksen aikakauskirja No 2, 2008, s.6-14

European and global approaches to digital literacy. Digital Kompetanse, Nordic Journal of Digital Literacy, No 1, 2008, p. 53-60

Digital Libraries: European Approaches, World Digital Libraries, No 1, 2008, p.VIII-IX

Vocational Competencies of Digital Literacy, in Perspectives on Multiple Literacies: International Conversations, edited by Claire Maltais, University of Ottawa's Faculty of Education, p 107- 118

Global University in the Knowledge Societies, Journal Educational Research, Guangdong Higher Education (in print 2008).

Comunidades virtuales, puntos de encuentro, Madrid, Secretaría IV Congreso  
<[secretaria4congreso@educared.net](mailto:secretaria4congreso@educared.net)>:

Communications in the informationsociety, Investigar La Comunicación, Actas y Memoria Final Comngreso Internacional Fundacional AE-IC, Santiago de Compostela, 2008-12-31

La Educación profesional y vocacional para las sociedades del conocimiento. In “Hacia sociedad del conocimiento – Cultura y modelo Nordico para la sociedad de la información, semejanzas y divergencias con el caso español, publishing house GEDISA, Madrid 2008

Experiencias de éxito en la innovación educativa: el caso finlandes  
Telos, No , 2008

Overview: The Growing Role of ICTs in Education and Training (Maja Zarini, David N. Wilson, Naing Yee Mar and Tapio Varis) , in 'International Handbook of Education for the Changing World of Work: Bridging Academic and Vocational Learning', Editors: Rupert Maclean and David N. Wilson, Associate Editor: Chris Chinien, Publisher: Springer (in press 2008)

Media Literacy and Intercultural Dialogue, in Tapio Varis and Salem Al-Agtash (Eds.) Ubiquitous ICT for Sustainable Education and Cultural Literacy, Publications of the Finnish National Commission for Unesco No 84, 2009, p. 40-45

UNESCO-UNEVOC international experts consultation: Stimulating networking and capacity building within the UNEVOC Network through enhanced North- South collaboration. Dublin Institute of Technology, Dublin, 17 - 20 August, 2008.

Globalization and multicultural challenges for vocational teacher education, University of Tallinn, Department of Education 2008.

### **Utsumi:**

Alexander Tselykh, Takeshi Utsumi, Ksenia Avetisova  
**Creation of Global University System in Russia (GUS/Southern Russia/Taganrog)**, (March 8, 2008)  
<http://tinyurl.com/7xu2va>

**Projects of GLOSAS/USA**, (May 20, 2008)  
<http://tinyurl.com/65sffj>

Takeshi Utsumi  
**"Fostering Global Leaders with Peace Gaming."** Published at The 10th Global Leadership Forum: Leadership and Globalisation: Challenges and Opportunities, June 18-23, 2008, Novosibirsk, Russia  
<http://tinyurl.com/3w8olc>

Takeshi Utsumi  
**"Development History of Peace Gaming and Global University System"** for 40th anniversary of Simulation and Gaming, September 7, 2008  
<http://tinyurl.com/63hqqg>

Takeshi Utsumi  
**Quantitative Policy Analysis of Global Socio-Economic-Energy-Environment Development (GSEED) Project**  
Synopsis (October 28, 2008) <<http://tinyurl.com/6oaua3>>  
Concept Paper (October 9, 2008) <<http://tinyurl.com/3k2fk9>>  
List of Working Group Members <<http://tinyurl.com/65wrk7>>

Walter G. Ollor and Takeshi Utsumi  
**Creation of Global University System in Nigeria (GUS/Nigeria)**, (November 10, 2008)



<http://tinyurl.com/62fcnp>

Walter G. Ollor, Peter O. Jack, and Takeshi Utsumi,  
**Nigeria Energy Policy Analysis: Modelling Nigeria's Energy Policy Response Dynamics**, (December 24, 2008) <<http://tinyurl.com/96xfhh>>

### Publication

- Book

Title:

Author(S)

Publisher(s)

Year

Language(s)

Number of pages

- Periodical (periodicity)
- Others (*specify, please*)
- Teaching/learning material

Title:

Author(S)

Publisher(s)

Year

Language(s)

Number of pages

### Multimedia material

LAYERS, Art for Digital Literacy

<http://sites.google.com/site/layerssite/Home>

[www.layers.fi](http://www.layers.fi)

by Tapio Varis, Heikki Mäenpää, Sara Sintonen

Producer and/or distributor (*with address*): Heikki Mäenpää, cultural bridges

Year: 2008

Teaching/learning material

Type of material:

- Video
- CD ROM
- Visio conference: Multicultural event
- Other type of material

(Please specify): \_\_\_\_\_

Duration:

Format:

Language(s):

Main keywords (4 or 5):

## 5. Others

## IV. Outcomes

Please describe shortly (up to 500 words) the major outcomes of the Chair/Network with special reference to their impact on the human, social, economical and cultural development at local, national, regional or international level. Whenever applicable indicate the impact of activities on promoting gender equality, rural development, attaining the Millennium Development Goals, Education For All and Sustainable development etc.

The activities of the Chair have been positively reflected in the cooperation with the Finnish National Commission of Unesco, UNESCO-UNEVOC cooperation, and research work with the European Commission and the Alliance of Civilizations movement of the United Nations. The Chair has been used actively in the UNESCO-UNEVOC International Experts Consultation Seminar in Dublin, Ireland, and in preparations of cooperation with St. Petersburg UNEVOC centre in Russia, as well as in activities in Morocco. The ideas have been used to develop the Global University System (GUS) within the UNESCO Chair in global e-learning at the University of Tampere. The Chair has emphasized media literacy because of the topicality and importance of media education as part of citizenship skills and the problems encountered in its realization. Another issue has been cultural dialogue and cooperation with the Alliance of Civilizations movement created by the United Nations. The United Nations AoC movement and the European Commission uses the Chair in media literacy education. One of the main activities of the Chair in 2008 was the Workshop “Ubiquitous ICT for Sustainable Education and Cultural Literacy,” in Hämeenlinna, 6–7 October 2008. The SECL workshop is a continuing effort of academics representing consortium institutions from Finland, Germany, Sweden, and Jordan and other countries collaborating on an EU Tempus funded project. This workshop is intended as a contribution to bring together scientists, public authorities, businesses, academics, civil society organizations and other interested groups and stakeholders to understand challenges for sustainable education and cultural literacy in the global context; identify the potential of ICT to advance and improve education; share knowledge and best practices about successful policies in global education; create venues of collaboration; and consolidate responsible communities for multi-literacies. The Chairholder held full length courses in intercultural communication in Jordan and Chile.

## V. Forthcoming activities

*(Please outline the action plan for the current biennium)*

1. Cooperation in educational projects with Abu Dhabi (Future Capitals, World Summit)
2. Vocational Education planning for Georgia
3. Contributions to the Second Forum of Alliance of Civilizations movement of the UN
4. Courses and e-learning implementation in Brazil, Jordan, Senegal, Turkey, USA, and Russia
5. Cooperation with UNESCO-UNEVOC in the world conference in China
6. Planning workshop of GSEED project in Nigeria in May, 2009
7. Workshop at TOBB/ETU in Ankara, Turkey

8. 10<sup>th</sup> Year Anniversary workshop of GUS at the University of Tampere
9. Workshop to create GUS/Ethiopia

## **VI. Development prospects**

Action aimed at obtaining a stable permanent status of the Chair/Network in the structure of the Institution

Short and medium term: The UNESCO Chair has a permanent status in the Faculty of Education, University of Tampere. The Research Centre for Vocational Education was given the status of National UNESCO-UNEVOC Centre in 2006.

Long term: Institutionalizing the Global University System (GUS) and promoting UNESCO-UNEVOC training and research activities to become an international research and educational centre

Expanding activities

Broadening partnerships

Unesco-Unevoc Centre at ITMO, St Petersburg

Mobilization of resources

Fund raising to be made in 2008:

**Annex 2****Target groups**

(Please specify for each category number of male and female)

<b>Target group</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
Undergraduate students			
Graduate students	6	10	16
Postgraduate students	6	7	13
Academics			5
Public administrators			200
Employees from industry or other private organizations <i>(please, specify)(lectures for entrepreneurs)</i>			20
Teachers from primary education			
Teachers from secondary education			
Teachers from technical and vocational education			100
Teachers from adult education			20
Others groups <i>(Please specify)(Keynote lectures in national ICT conferences for teachers)</i>			1500

**Annex 3****Geographical Coverage**

- **National**  **(Finland)**
- **Regional/Interregional/International**  **x**  
*Please specify countries and regions*

<b>Regions</b>	<b>Countries</b>
Africa	Nigeria, Sierra Leone, Ethiopia, Kenya, etc. South Africa
Arab States	Jordan, Morocco, Egypt, Palestine

Asia/Pacific	China, India, Mongolia
Eastern and Central Europe	Russia, Siberia, Rostov-on-Don, Poland, Turkey, Croatia, Romania
Western Europe and North America	European Union, USA
Latin America and the Caribbean	Chile, Brazil, Nicaragua