Panel 12: Climate Change Governance: National, Regional and Global Policy Dimensions

"Multilevel Climate Change Governance from an Innovation System Perspective"

Miroslav Polzer

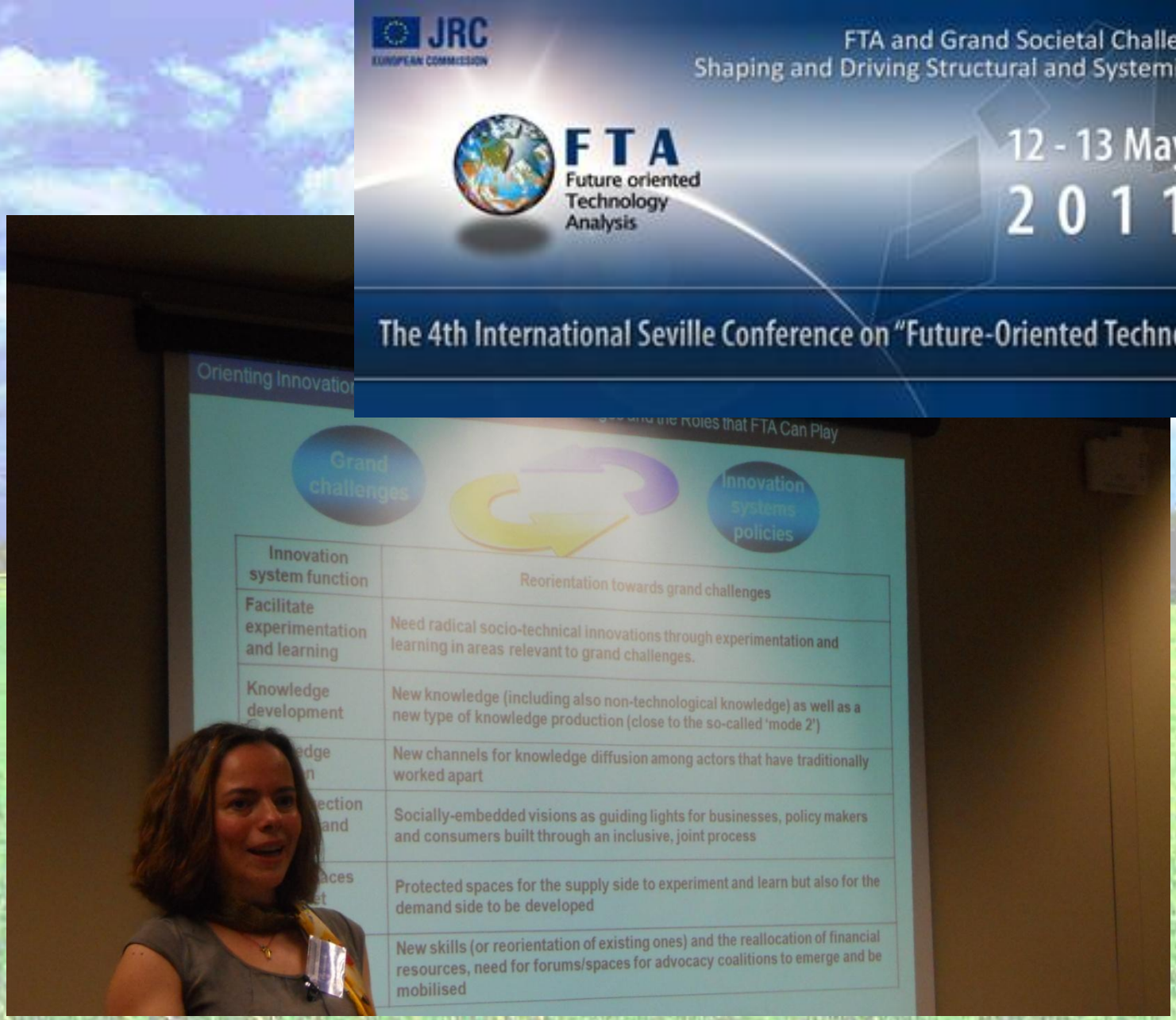
Austrian Science and Research Liaison Office Ljubljana

&

International Association for the Advancement of Innovative Approaches to GlobalChallenges IAAI

ASO LJUBLJANA
AUSTRIAN SCIENCE AND RESEARCH LIAISON OFFICE LJUBLJANA

INTERNATIONAL ASSOCIATION FOR THE ADVANCEMENT OF INNOVATIVE APPROACHES TO GLOBAL CHALLENGES



ORIENTING INNOVATION SYSTEMS TOWARDS GRAND CHALLENGES AND THE ROLES THAT FTA CAN PLAY

Effie Amanatidou
Visiting Research Associate / PhD researcher, Manchester Institute of Innovation Research, UK

Grand Challenges, Governance and Innovation Systems

In spite of the **uncertainty** and **lack of complete understanding** permeating grand challenges, it is often accepted that these **can lead to a great deal of disruption to societies and economies** over the coming decades. Moreover, they are **boundary-spanning in several respects**, requiring, for example,

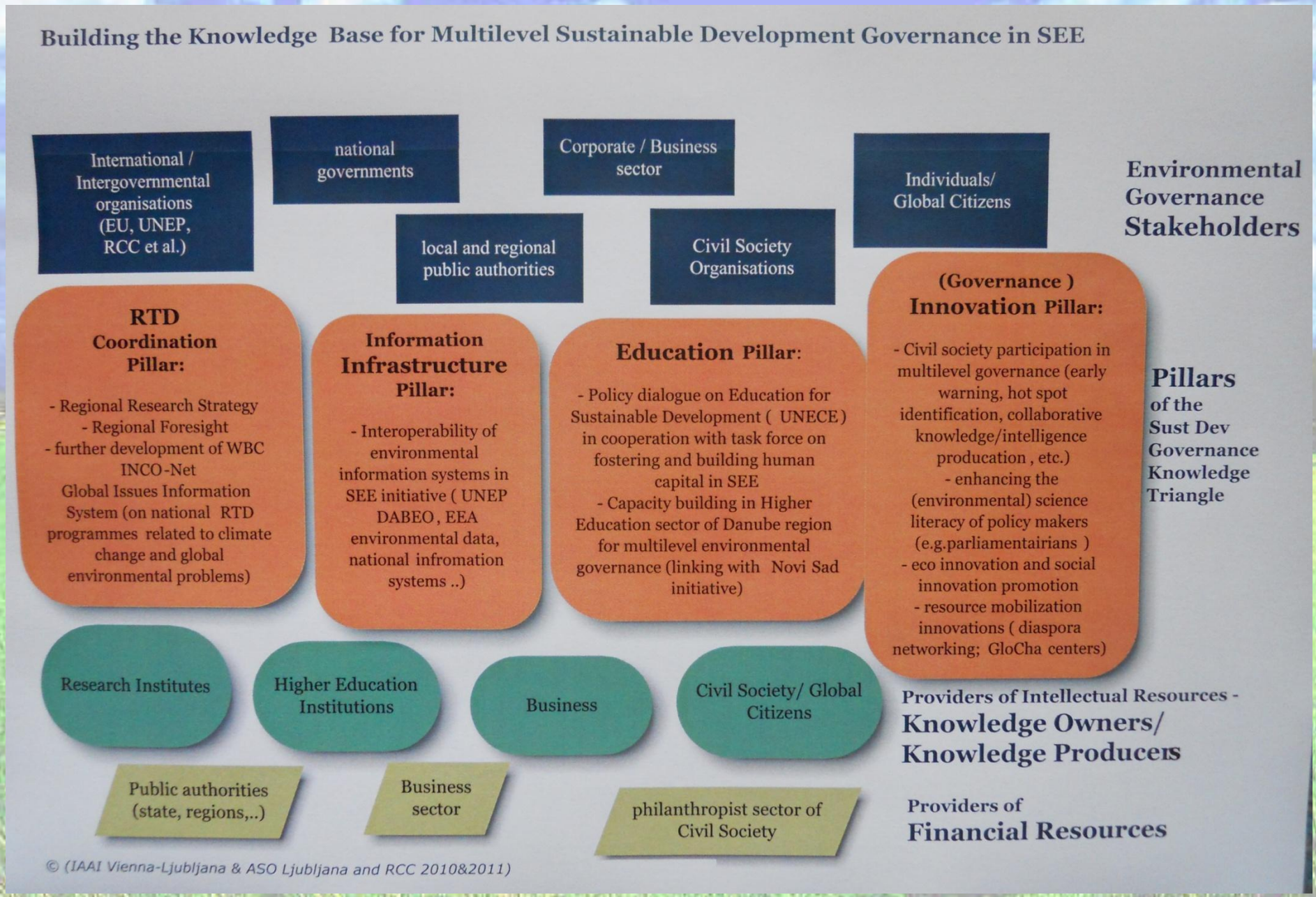
- **Interdisciplinarity** that transcends the boundaries of traditional epistemic communities. Addressing grand challenges will require the **pooling of different knowledge bases** and, in particular, closer **collaboration** between the **'hard' and social sciences and humanities**.
- **Cross-departmental coordination and coherence** beyond the traditional silos that characterise **policy making**. Grand challenges require **multi-agency responses** and it is important that these are coherent if they are to be **effective**.
- **Multi-level governance** approaches that acknowledge the principle of **subsidiarity** while ensuring coherence between global, regional (e.g. European), national, and sub-national agendas and activities to address grand challenges.
- **Technology convergence** or fusion that opens up new possibilities to manage, mitigate or even eliminate some of the causes and harmful symptoms associated with grand challenges.
- **Cross-sectoral collaboration between various industries** with the **complementary assets** to address grand challenges.
- **Longer-term time horizons** to be introduced more explicitly into **shorter-term policy agendas** and **business planning practices**.

Dealing with grand societal challenges is presently **a major focus of research and innovation policies at the EU level**. **Innovation is considered one of the best means for successfully tackling major societal challenges**

Table 1: Innovation system functions and their reorientation towards grand challenges

Innovation system function	Reorientation towards grand challenges
Facilitate experimentation and learning	Solutions to grand challenges will require, in many instances, radical socio-technical innovations. Experimentation and learning needs to be strengthened, with greater amounts of probing and experimentation in areas that are potentially relevant to grand challenges. This can be facilitated through for example research and innovation programmes.
Knowledge development	The transformative shifts implied by solutions to grand challenges will need new knowledge as well as a new type of knowledge production. New knowledge (including also non-technological knowledge) has to be developed on topics relevant to grand challenges among a distributed landscape of actors. This implies a type of knowledge production close to the so-called 'mode 2' (Nowotny, et. al. 2003) acknowledging the distributed nature of knowledge, and facilitating knowledge creation across different boundaries at various levels (as explained above in Section 2)
Knowledge diffusion	Knowledge diffusion is essential given the boundary-spanning nature of grand challenges. The need for cross-disciplinary/departmental/national/sectoral coordination implies new channels for knowledge diffusion among actors that have traditionally worked apart
Guide direction of search and selection	Dealing with grand challenges requires strong visions, strong in the sense that they constitute mobilising convictions among a large group of actors. These should be socially-embedded and guiding lights for businesses, policy makers and consumers. Building these visions should be an inclusive, joint process, highlighting inter-dependencies and encouraging alignment of actors. The incompatibility of existing visions which have lead to unsustainable solutions also has to be addressed in this process.
Create spaces for market formation	Market formation means generating protected spaces for the supply side to experiment and learn (see function 'Facilitate experimentation and learning' above) but also for the demand side to be developed. This can be done through a mix of regulation, procurement and other market-creating incentives.
Develop and mobilise resources	The development and mobilisation of new resources translates into new skills (or reorientation of existing ones) and the reallocation of financial resources. There is the need for forums/spaces for advocacy coalitions to emerge and be mobilised – this is especially important given the boundary-spanning nature of grand challenges.

The Broader Picture



Past Concept Development Activities
(in the Context of ASO Ljubljana www.aso.zsi.at)

ACUNS SW 2008
„Building the Knowledge Base for Global Governance“
Ljubljana July 23 – August 2 2008

Austrian Science and Research Liaison Office ASO Ljubljana has been partner of The Academic Council on the United Nations System (ACUNS) www.acuns.org and the American Society of International Law (ASIL) www.asil.org, in organizing the eighteenth ACUNS-ASIL Summer Workshop on International Organization Studies; the topic has been "Building the Knowledge Base for Global Governance http://www.aso.zsi.at/sl/veranstaltung/2995.html
Mr. Polzer has been academic co-director of the summer workshop

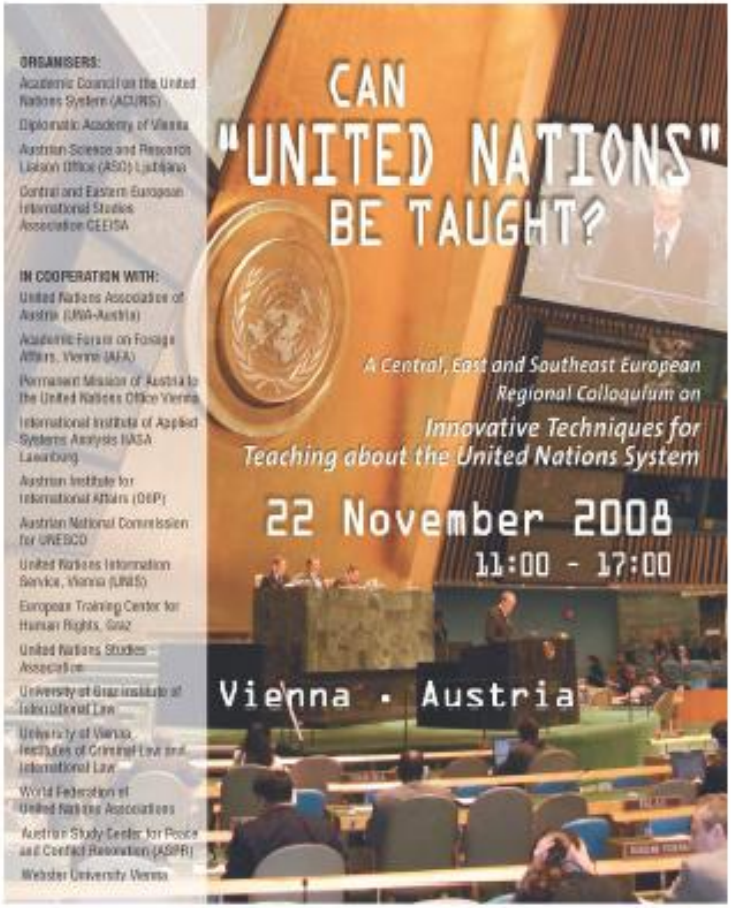
International conference "Global Philanthropists: Partners for a Knowledge Based Response to Climate Change"

Portorož, June 2008

http://www.glocha.info/conferenceindex.html

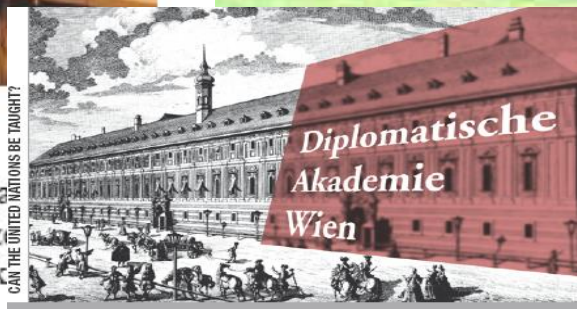
This event has been initiated and coordinated by the Centre for Social Innovation (ZSI), Vienna, in cooperation with the European Foundation Centre (EFC) and the Slovenian Ministry of Higher Education, Science and Technology in Portorož/Slovenia in June 2008 (more information can be found on internet www.glocha.info) in which some of the proposed network members have participated.

(from left) Gasper Hrastelj, Miroslav Polzer, Gerry Salole, Wilhem Krull, Janez Podobnik, Lucka Kajfez Bogataj, Peter Volasko, Emilio Rui Vilar, Jerome C. Glenn, Blaz Golob



November 22nd 2008 Austrian Science and Research Liaison Office Ljubljana has been coorganizer of the event »Can United Nations be Taught? A Central, East and Southeast European Regional Colloquium on Innovative Techniques for Teaching about the UN System«, at Diplomatic Academy in Vienna http://www.aso.zsi.at/sl/veranstaltung/3038.html

UN Assistant Secretary Genera
Coordination Mr. Thomas Stelz
right) has been the keynote speak



CAN THE UNITED NATIONS BE TAUGHT?

DA FAVORITA PAPERS 01/2009

FAVORITA PAPERS **01/2009**

CAN THE UNITED NATIONS BE TAUGHT?

Compendium of Innovative Teaching Techniques

ASO LJUBLJANA

diplomatische akademie wien

(a copy of the proceedings can be ordered free of charge at aso-ljubljana@zsi.at)

2nd CEE/SEE Regional Colloquium
Capacity Building on Global Governance and the UN System

Teaching Climate Change and the United Nations System

Date: Monday May 17th & Tuesday 18th, 2010
Venue: Faculty of Law, Bulevar kralja Aleksandra 67, Belgrade

ORGANISERS

- Faculty of Law, University of Belgrade, *www.ius.bg.ac.rs/eng/*
- Faculty of Political Sciences, University of Belgrade, *www.fpn.bg.ac.rs/eng/index_e.html*
- Environmental Ambassadors, Belgrade, *www.ambassadors-env.org/*
- Academic Council on the United Nations System ACUNS, *www.acuns.org*
- Austrian Science and Research Liaison Office (ASO) Ljubljana *www.aso.zsi.at*
- Diplo Foundation, Belgrade Office *www.diplomacy.edu*
- Petnica Science Center – Innovative Sci+Tech Education and Regional Teacher Training *www.petnica.rs*
- The European Center for Peace and Development, Belgrade – Ljubljana, *www.ecpdorg.net*
- United Nations Association of Serbia, *www.unaserbia.rs/*
- Educons University, Sremska Kamenica, *www.educons.edu.rs*
- South East Europe Media Organisation SEEMO, Vienna, *www.seemo.org/*

IN COOPERATION WITH

- Ministry of Environment and Spatial Planning, Republic of Serbia, *www.ekoplan.gov.rs/en/index.php*
- United Nations Institute for Training and Research UNITAR, *www.unitar.org*
- United Nations Environment Programme UNEP *www.unep.org/*
- United Nations Development Programme UNDP *www.undp.org/*
- United Nations Economic Commission for Europe *www.unece.org*
- World Federation of UN Associations WFUNA *www.wfuna.org*
- Education Reform Initiative of South Eastern Europe ERI-SEE *www.erisee.hr*
- UNESCO (Serbian National Commission and UNESCO Venice Office) *www.unesco.org*
- Regional Cooperation Council RCC *www.rcc.int*

www.investsciencesee.info/ccandun

Home
About ACUNS
Member Services
Annual Meeting
Projects and Programs
Global Governance
Newsletter
Library
Calendar
Professional Opportunities
Contact Us

Partners

Wilfrid Laurier University

CIGI

ASIL The American Society of International Law

Annual Meeting

Welcome to the ACUNS 23rd Annual Meeting

Date: June 3-5, 2010
Theme: New Security Challenges
Location: University of Vienna, Vienna International Centre and Austrian Parliament

Proposals on the conference theme, New Security Challenges, in addition to other topics relating to the UN system and/or to the broader ACUNS mandate will be considered. Anyone presenting on a workshop panel is expected to register.
Call for Papers

KEYNOTE SPEAKER

Dr. Danilo Türk
President of the Republic of Slovenia
"New Security Challenges"

JOHN W. HOLMES MEMORIAL LECTURE:

Dame Margaret Anstee
Former UN Under-Secretary General
"What Price Security?"

PLENARY SESSIONS:

The UN Under Fire
Lakhdar Brahimi
Jan Egeland
Edward Mortimer
Abiodun Williams

An Agenda for Human Rights
Manfred Nowak
Mary Robinson
To be confirmed

Annual Meeting 2010

Call for Papers
Event Partners
Hotels
Registration Form
Tourism Information

Archived Annual Meetings

Small, Middle, and Emerging Powers in the UN System
June 4-6, 2009
Institute of International Relations at The University of the West Indies, St. Augustine Campus, Trinidad

Annual Meeting Papers
John Holmes Memorial Lectures
Previous Annual Meetings:

Networking Meeting „The Role of Universities in Innovation and Education for Sustainable Development in Southeast Europe“ at 5th GUNI International Barcelona Conference on Higher Education

català | castellano | english | français

GUNI
GLOBAL UNIVERSITY NETWORK FOR INNOVATION

Presentation | Programme | Call for Good Practices | Parallel events | Workshops | Conference materials

5th International Barcelona Conference on Higher Education
Higher Education's Commitment to Sustainability: from Understanding to Action

Universitat Politècnica de Catalunya (UPC)
23 - 25 November 2010

Call for Applications: Higher Education Experts from Southeast Europe/Western Balkans at 5th International Barcelona Conference on Higher Education

[28-10-2010]

Great opportunity to assist at the GUNI Conference!
A Call for Applications for the participation of 10 Higher Education experts from Southeast Europe/Western Balkans in networking meeting **'The Role of Universities in Innovation and Education for Sustainable Development in Southeast Europe' at 5th International Barcelona Conference on Higher Education "Higher Education's Commitment to Sustainability: from Understanding to Action"** organized by the Global University Network for Innovation (GUNI), is launched by the Austrian Science and Research Liaison office Ljubljana.

n building the knowledge base for sustainable development in any modern society, universities
s known is the role of universities regarding the "innovation" edge of the knowledge triangle
tion and the role of universities in promoting the step from understanding to action. With many
zation processes and EU integration processes (like e.g. European Innovation Agenda,
Higher Education Area etc.) going on in the Higher education sector of Southeast Europe
a need for capacity building, mutual learning and integration into existing networks of higher
g. GUNI and COPERNICUS Alliance, European Network on Higher Education for Sustainable

esearch Liaison office Ljubljana is therefore partnering with GUNI and with Prof. Friedrich
Center of Expertise in Education for Sustainable Development - Graz University who is currently
NICUS Alliance to facilitate capacity building among higher education experts from Southeast
king with international peers by facilitating their participation at 5th International Barcelona
ucation which will be held 23th till 25rd of November 2010 in Barcelona.

From ASO Ljubljana to IAAI GloCha center Klagenfurt in the Context of Rio 2012

....

IAAI Objective:

Systemic Innovation regarding Resource Mobilization of Global Civil Society for Effective Global Governance in Support of the Work of United Nations System

GLOCHA

GLOBAL CHALLENGES WORLD CUP

IAAI Global Challenges (GloCha) Initiatives:

- GloCha (Rio) Charter on Shared Social Responsibility for Global Commons
- Global Challenges Song World Cup - Rio 2012 Youth Song World Cup
- Global Citizenship Ethics Standard Setting based on Art 29 (1) of UDHR
- GloBalkCan Youth - Promoting Global Citizenship and Future Orientation in SEE
- Global Forum on Philanthropy Innovations and Research/Education Funding
- Global Challenges (GloCha) Center Klagenfurt - Ljubljana (September 2011)
- GloCha Center (pilot) network in Southeast Europe (incl. diaspora resources mobilization for sustainable development)

Rio 2012

Rio 2012 Objective & Themes

The objective of the Conference is to secure renewed political commitment for sustainable development, assess the progress to date and the remaining gaps in the implementation of the outcomes of the major summits on sustainable development, and address new and emerging challenges
The Conference will focus on two themes: (a) a green economy in the context of sustainable development and poverty eradication; and (b) the institutional framework for sustainable development.

Institutional framework for sustainable development

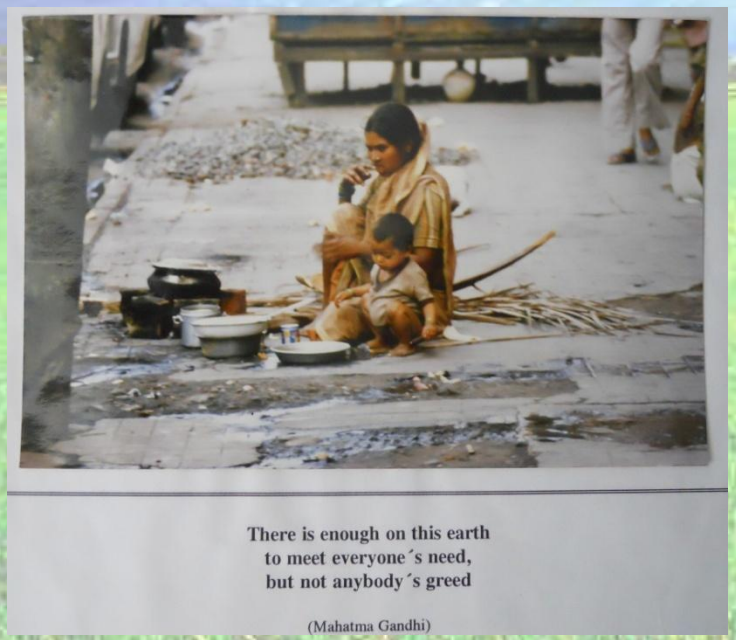
The institutional framework for sustainable development covers a spectrum of ***formal and less formal bodies****,* ***organizations****,* ***networks*** *and* ***arrangements*** *that are involved in* ***sustainable development policymaking*** *or* ***implementation activities****. An effective institutional framework is key to the implementation of sustainable development at all levels. It is expected that the Conference will further strengthen the institutional framework and enhance the integration of the three pillars of sustainable development. This includes consideration of options for strengthening the environmental pillar of sustainable development and* ***achieving effective international environmental governance****.*

http://www.uncsd2012.org

The IAAI – GloCha Approach

INTERNATIONAL ASSOCIATION FOR THE ADVANCEMENT OF INNOVATIVE APPROACHES TO GLOBAL CHALLENGES

Knowledge and Philanthropy/Ethics Driven Multistakeholder Partnership on Shared Social Responsibility for Global Commons Growth ("GloCha GlobComm Initiative")

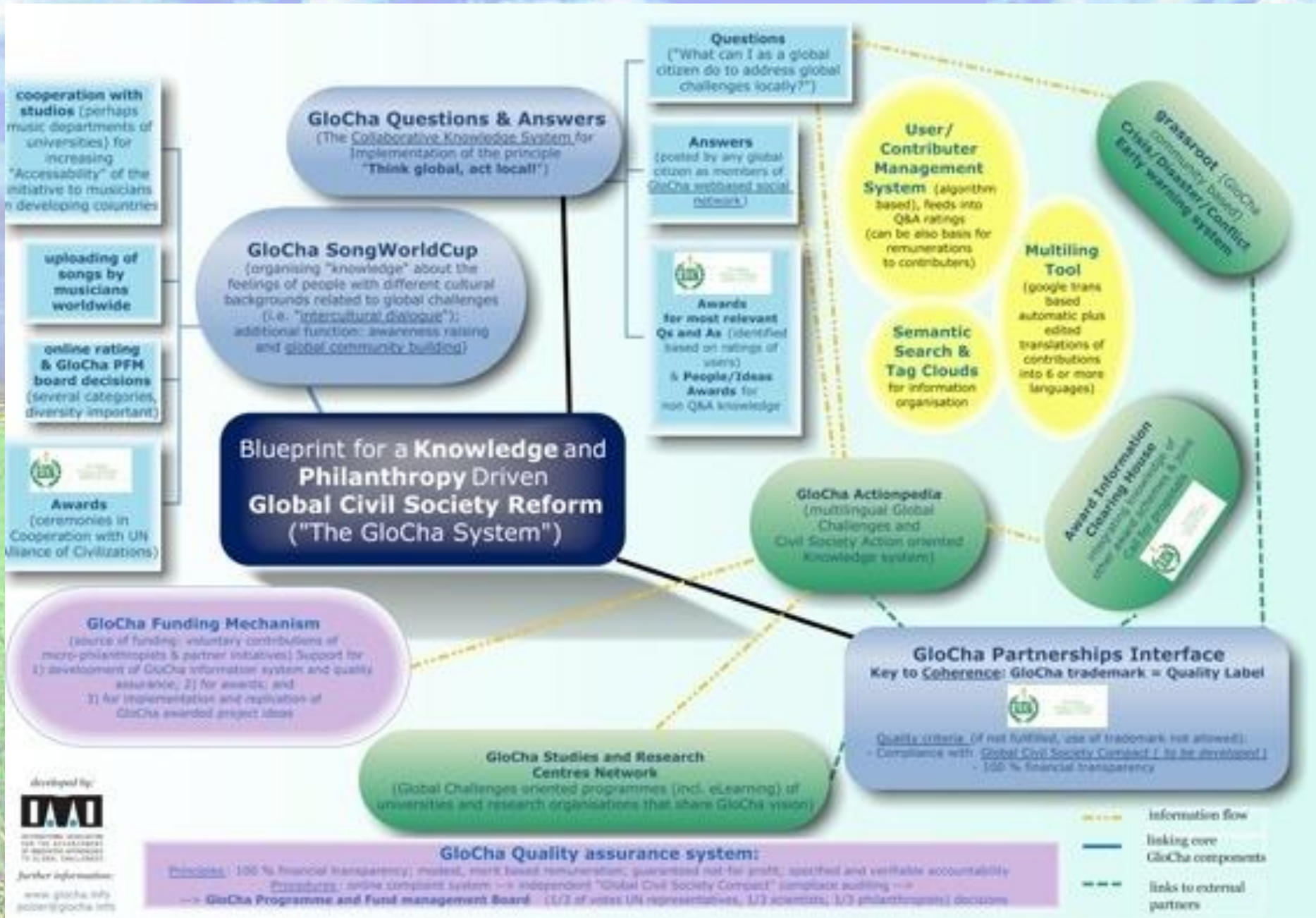


Every individual must act as if the whole future of the world, of humanity itself, depends on him.
(*Joseph Weizenbaum*)

& Art 29 of Universal Declaration on Human Rigths

GLOCHA GLOBAL CHALLENGES WORLD CUP

Blueprint for a Knowledge and Philanthropy Driven Global Civil Society Reform



GloCha Shared Vision & Governance Innovation

"Rio 2012 Charter on Shared Social Responsibility for Global Commons" (GlobCommCharter)

to be **adopted by**

- **Civil Society Organisations** (like e.g. **CIVICUS – World Alliance for Citizen Participation** www.civicus.org/, **CONGO - The Conference of Non-Governmental Organizations in Consultative Relationship with the United Nations** www.ngocongo.org, **Committee of Religious NGOs at the UN** www.trunity.net/rngo/),
- **Academy**: UN Academic Impact network http://academicimpact.org/index.php, Global University Network for Innovation GUNI www.guni-rmies.net/ , International Association of Universities www.iau-aiu.net *("intellectual social responsibility")*
- **Educational sector**: UNESCO Associated Schools Project Network www.unesco.org/new/en/education/networks/global-networks/aspnet/, International Eco Schools network (Foundation for Environmental Education www.fee-international.org)
- UN Global Compact (**Corporate sector**)
- **UN system**
- **National Governments**
- **Regional and Local authorities**
- **Youth** organizations

“Rio 2012 Charter on Shared Social Responsibility for Global Commons” (GlobCommCharter) Reporting Initiative

GlobComm Charter **endorsers are asked to report** on an annual basis **their contribution to global commons growth**

Universities (UN Academic Impact members, Global University Network on Innovation etc. are invited to partner with IAAI to **analyze these report** towards **mapping of new global Commons** and towards developing a Global Commons based **new global wealth metrics**

GLOCHA

GLOBAL CHALLENGES WORLD CUP

Competition and recognition of achievements/contributions through “Global Challenges World Cup” as the driving force of integration of different stakeholders!

Vision: in cooperation with ICT experts like google (finding the right “**algorithm**” to identify **internet user behaviour based metrics/ranking** for most relevant contributions/activities in terms of open innovation based collaborative wealth generation for sustainable development

IAAI – GloCha Centers Network

- The **GloCha Center Klagenfurt-Ljubljana** will focus on **mobilization of intellectual and financial resources of global civil society for addressing global challenges** (like (sustainable development, climate change adaptation etc.) in **partnership** with other stakeholders (governments, local and regional authorities, business sector, philanthropy/foundations, diaspora communities; individuals etc.) developing **RTDI governance innovations**.

- IAAI plans to establish a **network of GloCha Centers in SEE countries** as pilot case for aglobal initiative. The GloCha centers network management concept is "**Management by shared vision, trust, financial transparency, common performance information system and long-time accountability**". Key elements of the evolving GloCha center network system are:
- a vision on **collaborative wealth generation** based on **shared (global) social responsibility**
- **decentralized open innovation** and **collaboration processes** for **knowledge based sustainable development wealth generation/accumulation** (= "sustainable development (global) commons growth")
- **global citizenship ethics**,
- **new global commons concepts**,
- **new wealth indicators** (which can document the contribution of science and education to sustainable development) and
- **common financial and impact assessment reporting information system** as the elements providing **cohesion** among the different **GloCha systems elements**.

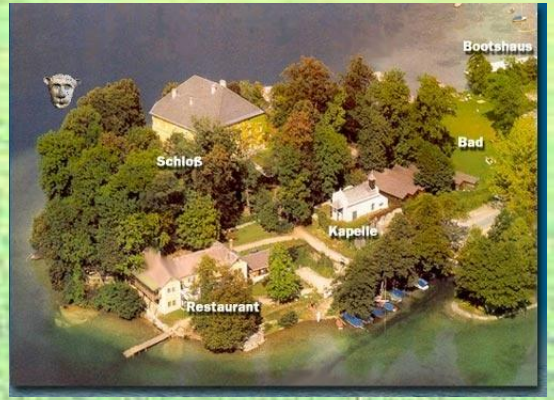
Future Plans

Workshop proposal "**Rio 2012- Window of Opportunity for a Multi-Stakeholder Partnership" and "Art 29" for 64th UN DPI NGO conference Sustainable Societies – Responsive Citizens in Bonn**
-> **elaboration of a the First Draft of Rio GlobComm Charter**

October 3 2011, Geneva: **side event to the OHCHR Social Forum** (which is on "Right to Development" this year); working title: "**Human Rights and Human Responsibilities in the context of Sustainable Development and the Rio 2012 Window of Opportunity**" (to be confirmed)

12-14 September GloCha /UN AI/GUNI Workshop "**Universities Global Challenges World Cup: Universities' Role in Building Global Intellectual Commons)** (linked to Rio GlobComm Charter; Subject: "**What are Global Commons in the Universities Context and How can we measure them & What Information and Quality Assurance Systems do we need?**" –

15 & 16 September 2011, University of Klagenfurt/Celovec, IAAI, ACUNS et al.: International Green Economy and Rio 2012 conference (in the context of CEE/SEE Capacity building on Global Governance and UN Studies) "**Investing in Global Commons – Our Shared Global Social Responsibility?**"



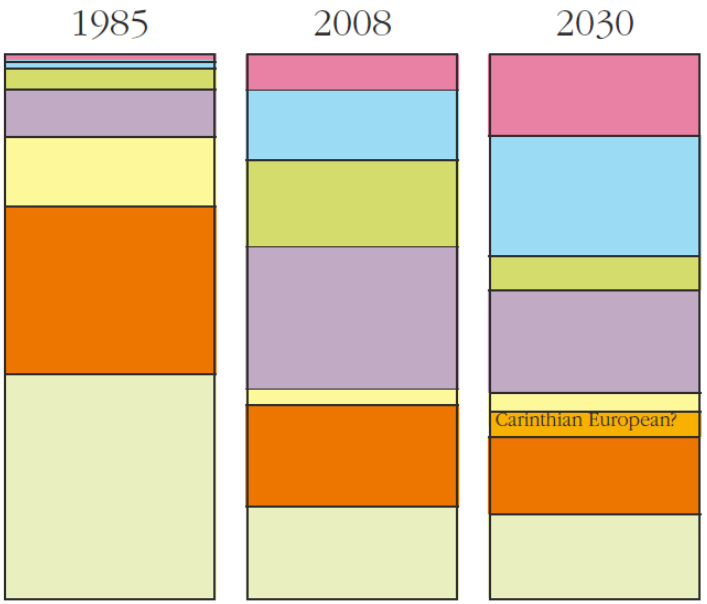
Conference side events:

- Launch of the „**Global Challenges (GLOCHA) Knowledge Center Klagenfurt/Celovec - Research. Innovation and Education for a better World**") in Klagenfurt/Celovec (Austria) (project of IAAI in cooperation with Alps-Adriatic University of Klagenfurt www.uni-klu.ac.at and City of Klagenfurt at Lake Wörthersee)

- Launch of **Rio 2012 Youth Song World Cup**

Multilevel Governance & Multiple identity

Variety of identity dimensions	Problem solving soci-eties
Global	
Europe	
Area of Slovenian Culture and Science	
Austria[6]	
Carinthia	
Carinthian Slovenes (virtual space)	
Family – local environment	



dynamic societal functional relationship: my multiple areas of life → my multiple challenges → my multiple identity → my collaboration in diverse problem solving societies → my multiple options for action.

Wisdom Seeks Unity in Reality

The essence of wisdom is to be able to see unity in diversity and differentiation. The way of the wise is to see an inclusive relationship between a microcosmic system and a macrocosmic system, between the infinite and the infinitesimal, between the leader and the follower, between the self and the world.

The Upanishads, the precious body of ancient sacred literature of India, describes this relationship between our self and our world in simple language:

As is the human body
So is the cosmic body.
As is the human mind
So is the cosmic mind
As is the microcosm
So is the microcosm
As is the atom
So is the universe. (ibid.: 11)

Similar findings of ancient knowledge on microcosmos and macrocosmos from India (Upanishades)

and ACUNS 2011
JOHN W. HOLMES MEMORIAL LECTURE
"Multilateralism in a Copernican World"
Bruce W. Jentleson:

„Global Citizenship Identity is the Sun in the Present day Universe of multiple multilateralism"

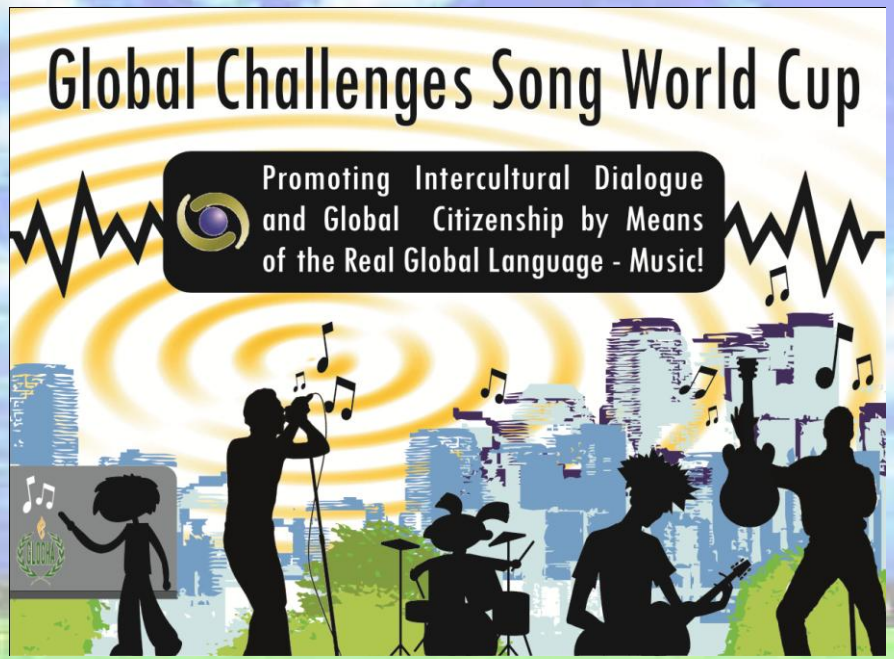
=

source for global citizenship focused governance innovations!!

Journal of Human Values
http://jhv.sagepub.com

Wise Ways: Leadership as Relationship
Debashis Chatterjee
Journal of Human Values 2006; 12; 153

„**Global Challenges Song World Cup 2010**“ – a first basic **outline**



Basic idea:

The **view on common global challenges and the challenges of the future** articulated by means of the **universal language “music”** can **facilitate intercultural dialogue, bring musicians and young people from around the world in contact,** strengthen **global citizenship identity layers** and thus **narrow interethnic and interreligious conflict potentials.**

Global civil society has enormous **financial and intellectual resources** as well as **passion** which can be harnessed to **address global challenges more effectively**.

Musicians have a special **sensorium for the spirit of** time and the **capability to articulate the feelings and the hopes of the people around the world** through a **universal language** – the language of music. Music opens a **direct link between the hearts and minds of the people all around the world** thus building ties for a **global community** which is more committed and capable to address global challenges effectively.

Global Challenges Song World Cup shall explore in this respect new ways of how **intercultural dialogue** or **dialogue among civilizations** respectively can be **used to support work of UN system** by developing – based on a dialogue among civilizations on global challenges – a global identity/a **global community in which joint efforts towards global challenges and e.g. joint commitment towards global climate change action are emphasized stronger than religious/linguistic/national/ethnic cleavages.**

Rio 2012 Youth Song World Cup

IAAI plans **in cooperation with Earth Charter Initiative** www.earthcharterinaction.org, **UN Information Service Vienna** http://www.unis.unvienna.org/, **UNEP Vienna Office** http://www.unep.ch/roe/liaison_vienna.htm, **UN Academic Impact Students initiative ASPIRE, Friendship Ambassadors Foudnation, Austrian Public Broadcasting Corporation** *(tbc)* and some other partners **to give youth from around the world a voice in global sustainable development governance and to raise public awareness and (global commons focused) philanthropic engagement related to Rio 2012 by means of a "Rio 2012 Youth Song World Cup".**

As a **first step towards implementation of "Rio 2012 Youth Song World Cup" initiative** shall be a side event to the UN High Level Conference on Youth http://social.un.org/youthyear/high-level-meeting.html on **"Empowering Youth to have a voice at Rio 2012 conference by means of social media"** (side event will be proposed by June 15 and needs approval from UN Year of Youth conference organizers)

12 & 13 September Preparatory meeting for the Rio 2012 Youth Song World Cup with about 10-20 youth representatives from around the world is planned in Klagenfurt (Austria)

15 September **the launch of the "Rio 2012 Youth Song World Cup" will take place at the international conference "Why and how to invest in Global Commons?" in Klagenfurt/Celovec (Austria).** At this conference there will be also the **launch of GloCha Center Klagenfurt-Ljubljana** which will be the main support unit (technical and administrative) for Rio 2012 Youth Song World Cup.

Thank you for your attention!

Miroslav Polzer

International Association for the Advancement of Innovative Approaches to Global Challenges IAAI -
Global Challenges (GloCha) Knowledge Center Klagenfurt/Celovec
-
Austrian Science and Research Liaison Office Ljubljana (ASO)

polzer@zsi.at; www.aso.zsi.at & www.glocha.info

http://www.glocha.info./gce.html