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Prof. Dr. Dirk Helbing <[soms@ethz.ch](soms%40ethz.ch)>

Hans Rudolf Herren, Ph.D. <[hh@millennium-institute.org](hh%40millennium-institute.org)>

Prof. Dr. Konrad Osterwalder <[rector@hq.unu.edu](rector%40hq.unu.edu)>

Akira Onishi, Prof. Dr. <[onishi@cgmfost.org](onishi%40cgmfost.org)>

**References:**

(a) Dirk Helbing, “Globally networked risks and how to respond,”
Nature, Vol. 497, May 2, 2013
<<http://tinyurl.com/bljjzx7>>

(b) Dirk Helbing, “Globally networked risks and how to respond,”
Media Information
<<http://tinyurl.com/cnd7oxg>>

(c) **ATTACHMENT I** of;
(20130505) Q&A on our GEWS/ECOWAS project
<<http://tinyurl.com/cfqaxxx>>

(d) Synopsis of The Global Early Warning System (GEWS) and The Global University System (GUS) (May 3, 2013)
<<http://tinyurl.com/ct2b6cn>>

(e) Item (5) of;
(20120126) On International Peace Building
<<http://tinyurl.com/buwx5hw>>

(f) Item (3) of;
(20111228) Initial contact to FuturICT Team of the "Living Earth Simulator (LES)" project
<<http://tinyurl.com/ctk8vk7>>

(g) Takeshi Utsumi, "Globally Collaborative Environmental Peace Gaming (GCEPG)"
<<http://tinyurl.com/k2c7a>>
This project is now out-grown to GEWS — see Reference (d) above.

(h) Chapter 2 of Draft of Proposed Book; "Electronic Global University System and Services"
<<http://tinyurl.com/6r8c63>>

(i) Takeshi Utsumi, P. Tapio Varis, and W. R. Klemm
"**Creating Global University System (GUS)**"
<<http://tinyurl.com/sfgm7>>

(j) (20120916) (1) Signing ceremony of MOU by Baharicom and GLORIAD at Stevens Institute of Technology on September 13, 2012, (2) GLORIAD International Board Mtg in Chicago, (3) Annual conference of CITI of Columbia University
<<http://tinyurl.com/95n723k>>

(k) GLORIAD World Map
<<http://tinyurl.com/awabmbd>>

**Dear Prof. Dr. Helbing:**
(1) Many, many thanks for your msg with very interesting, excellent articles (References (a) and (b) above).

It is my quite honor to receive them from such a prominent person like you.

I have read them with great interest — though frankly speaking, I sometimes could not distinguish which of real or simulated systems you are talking about in the Reference (a).  They are an excellent theoretical guidance to our Global Early Warning System (GEWS) (Reference (d) above).

**Dear E-Colleagues:**Although the Reference (a) is highly technical, I strongly commend to read the Reference (b).  They are the product of excellent literature survey of many, many papers.

(2) You proposed to construct “Planetary Nervous System” in the Reference (a) above.  This may correspond to “Global Neural Computer Network,” which I coined in early 1980s and which was often used by then the Vice President Al Gore.

The socio-economic-energy-environmental simulation models of various countries scattered around the world would correspond to the neuron of the global brain, synapsis to the routers of Internet, nerves to the Internet, etc.  This also depicts the basis of our GEWS technical structure, i.e., the distributed simulation -- see References (e) and (f) above how I got the idea of the “Distributed Simulation” in the summer of 1971.

(a) I then presented my first paper on the distributed simulation at the first International Conference on Computer Communication (ICCC) in Washington, DC in the fall of 1972  (Reference (g) above).

(b) I then initiated the globalization of Internet in 1970s to early 1980s (Reference (g) above).

(b) I then worked on the deregulation on the use of email (Reference (g) above), since I foresaw the need to communications among game players around the world — some say that this even led to the Arab Spring!!

(c) I then conducted a series of “Global Lecture Hall (GLH)” multipoint-to-multipoint, multimedia interactive videoconferencing as spanning the globe with the use of hybrid technologies (Reference (h) above), since I realized that the text-oriented email is not enough for transmissions of engineering diagrams and high-resolution medical images.

(d) I then initiated the creation of Global University System (GUS) (Reference (i) above).

Our GEWS project is the culmination of those activities.

(3) Prof. Onishi, one of our Japanese colleague, has his FUGI (Futures of Global Interdependence) model, which has 194 country sub-models and 6 UN sub-models, total 200 sector models.  This once ran on Hitachi super computer, but he squeezed it to fit into a laptop.  Since those country models were built by himself, he is willing to replace each component country model with the one built by the experts of each country of our GEWS project, so that its accuracy would be improved.

(4) As you may know, Hans Herren’s Millennium Institute in DC is a renowned think tank specializing on the use of system dynamics methodology. As you see in the Reference (c) above, Hans is a strong supporter of our GEWS project.

BTW, Hans is a graduate of your Swiss Federal Institute of Technology.  Also, when I met Prof. Dr. Konrad Osterwalder at the UN University seminar in UN building in Manhattan in February of 2010, he was the rector of the United Nations University in Tokyo (\*), and told me that Hans Herren is one of his good friends.  Dr. Osterwalder was the President of your Swiss Federal Institute of Technology prior to become the rector of the UNU.

(\*) BTW, the UNU was created by Dr. Michio Nagai, President of Tokyo Institute of Technology, my alma mater and he was one of my mentors — what a small world!!

(5) Pls feel free to suggest to your FuturICT <<http://www.futurict.eu>> group members to join in our GEWS project — this project is growing rapidly around the world (\*) — starting the Economic Community Of West African States (ECOWAS) along the west coast of the African continent.  We would be delighted to interlink simulation models of your members with our patent-pending procedures to form a global model in a global scale virtual super-computer (Reference (d) above).

(\*) This morning, I received a msg from a Tanzanian colleague to join in our GEWS project to work on the water management issues along the Nile river basin countries.  Another msg is about the creation of GEWS/Scandinavia.

Our telecom infrastructures are the “Africa Coast to Europe (ACE)” ultra high-speed (5 tera) optical fiber submarine cable along the western coast of Africa (with US$ 700 million from the European Commission) and the Global Ring Network for Advanced Applications Development (GLORIAD) (with about US$280 million from various country governments including about $28 million from the US National Science Foundation) optical fiber network around the world.  We successfully achieved their matchmaking in the summer of 2012 (References (j) and (k) above).

(6) Let’s work together for the betterment of humankinds.

Keep in touch,

Best, Tak

**ATTACHMENT I**

**From:** "Helbing Dirk" <[dirk.helbing@gess.ethz.ch](dirk.helbing%40gess.ethz.ch)>
**Subject: Globally networked risks and how to respon**d
**Date:** May 6, 2013 4:22:27 AM EDT
**To:** "<[takutsumi0@gmail.com>](takutsumi0%40gmail.com%3E)" <[takutsumi0@gmail.com](takutsumi0%40gmail.com)>

Dear Takeshi Utsumi,

I would like to send you the attached paper on Globally Networked Risks for your information.

Best regards, Dirk Helbing

PS: I am also attaching two versions of a media information, which you are welcome to post

**List of Distribution**

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