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**References:**

(a) Rosenberg, A. and T. Curtain, “What Is Economics Good For?”, The New York Times, August 25, 2013
<<http://opinionator.blogs.nytimes.com/2013/08/24/what-is-economics-good-for/?_r=1>>

(b) Utsumi, T., “The Global Knowledge Centers Network (GKCN) with The Global University System (GUS)” (June 25, 2013)
<<http://tinyurl.com/o5l22ll>>

(c) (20130730) (1) About "Political Science" and (2) System dynamics simulation in public health sector
<<http://tinyurl.com/olfodsb>>

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

**Dear Prof. Rosenberg:**
(1) I read your article appeared in the recent New York Times (Reference (a) above) with great interest.

(2) In one of para in it, you mentioned that “Economics employs partial differential equations ....”

I would greatly appreciate it if you can kindly inform me what are the dimensions of those PARTIAL differential equations except time.

(3) In contrast to the aggregating approach as of the “Limits to the Growth” at the Massachusetts Institute of Technology (MIT), we are initiating the Global Early Warning System (GEWS) (which is the previous name of the current Global Knowledge Centers Network (GKCN)) (Reference (b) above) with the use of distributed simulation methodology which I conceived at the 1971 Summer Computer Simulation Conference (SCSC) in Boston.

As you see in it, we are interconnecting the distributed socio-economy-energy-environmental simulation models scattered in various countries through broadband Internet, which will then act as if a single global model in a global scale virtual supercomputer (Figures 1 and 5 of Reference (b) above).

With your way of thinking, this may be called a “Pseudo” PARTIAL differential equations (including “Pseudo” DISTANCE dimension), but each of those models (which are constructed by the System Dynamics methodology (which was initiated by Prof. Jay W. Forrester of MIT)) are massively parallel simultaneous highly non-linear ORDINALY differential equations, which are integrated along the dimension of TIME.

(4) In your article, you mentioned as;

“The fact that the discipline of economics hasn’t helped us improve our predictive abilities suggests it is still far from being a science, and may never be.”

“No one can predict the direction of scientific discovery and its technological application.  That was Popper’s key insight.”

The aim of our GEWS project is NOT for the forecasting of future as the cases of the “Limits to the Growth” nor FUTUR-ICT Project at the University City London with $1.3 billion from the European Union.  We are more interested in capacity building of bureaucrats and young aspiring future leaders for their fostering scientific and rational thinking for policy analysis and evaluation, as mentioned in the Reference (b) above.

Prof. Forrester once told me privately that the essence of system dynamics methodology is NOT predicting future, but learning the intricacies of inter-relationship among various world phenomena and that our distributed simulation approach is the ENHANCED systems dynamics — these are very basic necessities for the global intercultural education for attaining global peace.

(5) You also questioned the validity of calling economics as one of scientific disciplines.

Pls browse the Reference (c) above, which I described about my incidence when I questioned the same to the Late Dr. Shigeru Nambara, the Rector of the University of Tokyo, who was the most prominent political science philosopher in Japan and a close friend to the Late Dr. James Conant, the Rector of Harvard University.

I later found out that the Greek origin of the word “science” has the meaning of “to learn” or “to know.”

Best, Tak

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