Roundtable on Future of Democracy: Challenges and Opportunities
Ethical Markets, St. Augustine, Florida
November 7 – 9, 2018

Session 3: Challenges Confronting Democracy
Moderators: Hazel Henderson - Rodolfo A. Fiorini
Challenges Confronting Democracy

The Millennium Project MGCs

Sustainable development and climate change

1. Global ethics
2. Clean water
3. Population and resources
4. Democratization
5. Global foresight and decisionmaking
6. Global convergence of IT
7. Rich - poor gap
8. Health issues
9. Education and learning
10. Peace and conflict
11. Status of women
12. Transnational organized crime
13. Energy
14. Science and technology

Rodolfo A. Fiorini

POLITECNICO MILANO 1863
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The United Nations SDGs

1. No Poverty
2. No Hunger
3. Good Health
4. Quality Education
5. Gender Equality
6. Clean Water and Sanitation
7. Renewable Energy
8. Good Jobs and Economic Growth
9. Industry, Innovation and Infrastructure
10. Reduced Inequalities
11. Sustainable Cities and Communities
12. Responsible Consumption
13. Climate Action
14. Life Below Water
15. Life on Land
16. Peace and Justice
17. Partnerships for the Goals
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A Combined Overview

(MCG01~ SDG11-12-13-14-15) (MCG02~ SDG06) (MCG03~ SDG08-09) (MCG04-SDG05-10) (MCG06~ SDG09-11) (MCG07~ SDG01-10) (MCG08~ SDG02-03) (MCG09~ SDG04) (MCG10-12~SDG16) (MCG11~ SDG05) (MCG13~ SDG07) (MCG02~ SDG06), (MCG09~ SDG04), (MCG11~ SDG05) MCG05, MCG14, MCG15
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The Root of the Current Problem for AMS System Modelling
On Paradigmatic Limitations

MODERN PARADIGMATIC LIMITATION EXAMPLES

Optimal Control Theory System Robustness & System Risk Analysis.
The Root of the Current Problem for AMS System Modeling

R.A. Fiorini, 2014
“Observer c’est pour la plus grande part, imaginer ce que l’on s’attend à voir.”

Ambroise-Paul-Toussaint-Jules Valéry (1871-1945) from "Degas, Danse, Dessin", in Oeuvres de Paul Valéry (Librairie Gallimard, 1960), II, p. 1169.
Remembering The Relativity’s Father

_We cannot solve our problems with the same thinking we used when we created them._

- Albert Einstein
« Le seul véritable voyage ce ne serait pas d'aller vers de nouveaux paysages, mais d'avoir d'autres yeux… »

Valentin Louis Georges Eugène Marcel Proust (1871-1922) from La Prisonnière (1923).
Complexity is the impossibility of separating a system from its context.

A living being from its environment.

An object from its measuring instrument.
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Time To Return To Original Configuration

“The intuitive mind is a sacred gift and the rational mind is a faithful servant. We have created a society that honors the servant and has forgotten the gift.”

Albert Einstein
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Remembering The Futurist

Instinct is something which transcends knowledge. We have, undoubtedly, certain finer fibers that enable us to perceive truths when logical deduction, or any other willful effort of the brain is futile.

Nikola Tesla
Remembering The Great Pioneer of Quantum Physics

“Science cannot solve the ultimate mystery of nature. And that is because, in the last analysis, we ourselves are part of nature and therefore part of the mystery that we are trying to solve.”

Max Planck
By default, systems are simple. Some of them are complicated. Occasionally systems are complex. Wicked systems are exceedingly rare.

By default, systems are complex. Simple systems are limiting cases. Includes “complicated systems.”

Complex systems treated as if they were simple tend to generate wicked problems.
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INNER vs. OUTER UNIVERSE (IOU) Mapping

DIRECT SPACE (DS) → CO-DIRECT SPACE (CS)

RECIPROCAL SPACE (RS) → RECIPROCAL CO-SPACE (RC)

R.A. Fiorini, 2014
CICT Solution to the Problem for AMS System Modeling

Resilience Conceptual Framework

- Continuum
- Large and slow
- System in focus
- Small scale
- Multi-Scale Model
- Large scale
- Meso-system
- Small scale
- Micro-system

TD
POV

BU
POV

R.A. Fiorini, 2014
The Major Driver of Social Evolution

WE CANNOT SOLVE OUR PROBLEMS WITH THE SAME THINKING WE USED WHEN WE CREATED THEM

-Albert Einstein
We were and are still currently educated to REDUCTIONIST learning which leads to ACTIONS based on (UNAWARE) APPROXIMATED approximations.

We MUST switch to
EVOLUTIONARY learning which can create the right INTERACTIONS with a complex world and universe, based on AWARE, EXACT approximations.
Because we all share this small planet Earth, we have to learn to live in harmony and peace with each other and with Nature. That is not just a dream, but a necessity.

Learning according to Tenzin Gyatso, the 14th Dalai Lama (1935-)
If our fifth major risk is to apply only short-term solutions to long-term problems, according to John MacWilliams, as popularized by the recent book of Michael Lewis, then the biggest risk of all is to achieve a reduced awareness on our current INABILITY TO GET NEW EYES, according to WAAS.
Our Biggest Driver for Social Evolution and Equitable Development MUST BE The Increased Ability to Get New Eyes by Appropriate Education and Evolutionary Learning.
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Neuralizer Work Is Always In Progress
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Thank You for Your Attention