Vulnerability of human civilization, and Asian Community

Soon-ok Myong
Ph.D. in Cultural Anthropology
Faculty of Oriental Studies
Al Farabi Kazakh National University
Evolution of Human civilization
by Yuval Noah Harari

Stone age
Marginal creatures

Cognitive revolution
Emergence of fictive language.
Extinction of Sapiens brothers: Neanderthals/Denisova/Homo floresiensis

Revolution: Agricultural
Industrial
IT

Superhuman?
Homo sapiens is replaced by superhumans?
Vulnerable ground of civilization
Conflicts in Asia
Post-human Era
Could human control strong AI completely?
Mankind could be destructed by AI?
Humans will disappear?

- **Human history**: 250,000 years
- **Human extinction by 2400**: (Socio-biologist Edward Wilson)
- **Disappearing 75% of animal species within two generations**: (Science Advances, 2015)
- **Leaving for other planet within 30 years**: (S. Hawking. BBC, 2017)
• Vulnerable ground of material prosperity
• Self-destructive contradiction
Hey, why are you running?

Cuz everybody is running.
Who are we:
Selfish gene

A biography of DNA.
Biologically programmed being

Survival and reproduction

Stone age body and emotion
Who are we?
Super power with stone age body

- **Contradiction of Stone age body and modern lifestyle**
  99% of the time in the Paleolithic environment.
  Survival and breeding centered body and emotion (Kwon Y., 2012)

- Power: money, health, beauty, honor, technology.....

- Illusion: More powerful = happier
Who are we?

Limits of language expression
(L. Wittgenstein)

There is no truth. There is only perception (Gustave Flaubert).

A justifying machine
(Neurobiologist Roger W. Sperry)

Desire is a mirage
Who are we?
Illusion from brain’s interpretation

Illusion of the brain (optical and cognitive)

Data from sensory organs + Brain interpretation
Unconscious reasoning

Brain: a machine that justifies self-selection (Neurobiologist Roger W. Sperry)

No logical causality of choice / dominance of experience model

Limitation of brain memory
Who are we?

Thinking, fast and slow (Daniel Kahneman)

System 1

- Fast
- Effortless
- Unconscious
- Associative
- Speed response in a crisis
- Jumps to conclusion

System 2

- Slow
- Effortful
- Conscious
- Logical
- Deliberate
- Reflection, consideration
- Can handle abstract concept
- Requires time
Who are we?
Irrational decision making: fast thinking

Tendency of automatic thinking by intuition
  Habit of quick thinking
  Without patience and willing effort
  Conscious system requires a lot of energy

Exaggeration and overconfidence
  with a few small examples

Misjudgments, illusions, stereotypes, prejudices
Who are we?
Erosion of empathy
Who are we?

Making others: Illusion of racism (skin color)

Anger, frustration, hostility, cynicism

Cognitive, linguistic, physical violence

State  
Religion  
Ideology  
Nation
Who are we?
Theories of Human nature

**Dominant Myth of Selfishness**

**Partial truth**

**History:** assumption about universal selfishness

**Simplicity:** to seek simple and neat explanations for a complex world

**Habit:** educated and socialized to universal selfishness

**Evil**
- Xunzi
- Thomas Hobbes
- Adam Smith

**Good**
- Mencius
- Jean Jacques Rousseau
- David Hume

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Evil

Good

Who are we?

Theories of Human nature

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Who are we?
Science of cooperation (Lee Ross)

**Group 1: Community game**
- 70% cooperative
- 30% not cooperative

**Group 2: Wall street game**
- 70% not cooperative
- 30% started cooperatively, then not cooperative responsively

**Result:**
We are not all the same
Many of them are influenced by context
Design of social structure
Super cooperator

Altruistic group wins
(Edward O. Wilson)

Contribution to next gene’s reproduction
(W.D. Hamilton)

Super cooperator
(Martin Nowak)
Five mechanisms for the evolution of cooperation

(Mathematical biologist Martin Nowak)
To activate human cooperation

Powerful effect of social pressure (Alex Laskey)

Financial incentives

Moral incentives

Responsibility as a citizen

Reputation
Worldview of the big picture

Oneness / Connectedness
Oneness / Connectedness

Story of H$_2$O
Story of Air, communication
Story of Breath, O$_2$
Story of Fe
From the perspective of the big picture

Oneness / Connectedness

In Life
- Oxygen
- Carbon
- Hydrogen
- Nitrogen
- Calcium
- Phosphorus
- Others

On Earth (Earth's crust)
- Oxygen: 47%
- Silicon: 27%
- Aluminum: 8%
- Magnesium: 2%
- Potassium: 2%
- Sodium: 1%
- Other elements: 1%

In the Universe
- Helium
- Hydrogen
- Oxygen
- Other elements
Perspective of the big picture

Structure of On-life (Zhang Hwe Ik)

On-life as self-sufficient unit of life

Co-life

Individual
If you are a poet, you will see clearly that there is a cloud floating in this sheet of paper. Without a cloud, there will be no rain. Without rain, the trees cannot grow. And without trees, we cannot make paper. The cloud is essential for the paper to exist. If the cloud is not here, the sheet of paper cannot be here either. So we can say that the cloud and the paper inter-are.
To innovate mindset

Mindfulness
- noticing new things
Be at the present
Health, happiness, productivity, creativity
Responsibility of Modern Sapiens

• Agent of Changing the World to be ‘a harmonious community’