

Preciousness of joining the project toward global symbiosis



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Asian Community and Identity

Crisis Facing Homo Sapiens

Structure

- Crisis of human community/ Prejudice of human species
- Human beings
 - in evolutionary perspective
 - in genetic perspective
 - in new evolutionary perspective: Altruistic personality
 - in perspective of brain science
 - in psychoanalytical perspective
 - in broad historical perspective: happiness/satisfaction
- Civilization, Making Others
- Models of cooperation
- Ways to innovate cooperation

Crisis of human community

- Tragedy of humans

Violence, conflict, poverty, starvation, boat people



Crisis of human community

Are we happy?

The happiest people in Bhutan



Unhappy modern civilizers



Crisis of human community

- **Economic crisis:**
Vulnerable ground
of material prosperity



- **Sixth mass-extinction of animals** due to human
Previous 5 mass-extinctions due to natural disasters

(Science Advances, June 2015)

Human extinction by 2400, short history of human in history of life

(Socio-biologist Edward Wilson)

❖ **Post-human era: Weak AI, Strong AI**

Prejudice of human species

The earth rests on the hands of human species?

- A highly civilized creator who occupies the earth exclusively.
- Ability to manipulate nature and to control all other species
- Ability to manipulate mankind's own species

Is man the final stage of evolution?

History of Homo Sapiens



More 250000 years?

Present

Wiseest Homo sapiens ?

Trapped in civilization

(money, ideologies etc.)

Shrinking their own destiny

Uncertain future

Sapiens

Delicate and large brain structure

The only survivor among 5~6 other human species

Sapiens's defeating other human species.

(Choi Jaechun)

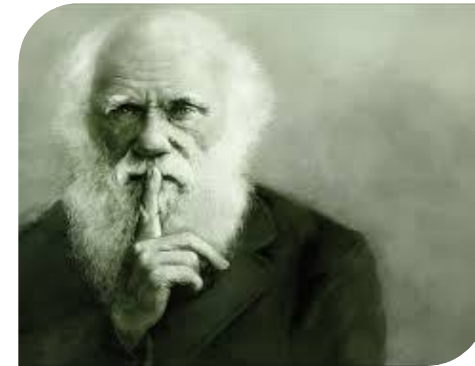
Killing Field in Cambodia



Who are we ?

Evolutionary perspective

- Darwinism: survival and reproduction from unicellular to Homo sapiens



- Evolution doesn't mean progress but diversity
- Human beings: an accidental outcome of the evolutionary

Who are we ?

Genetic perspective

- The selfish gene (R. Dawkins)
- Continuity of DNA, Ephemerality of life
- Altruism: another form of selfishness



Who are we ?

Perspective of brain science

- **Fundamental limit** (Kim Dae-Sik)

- **Limitation of linguistic expression**

Lower language resolution than recognition resolution.

Impossible to reach the real world with symbolic and linguistic expressions

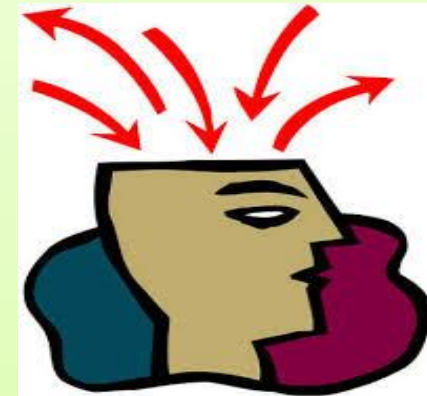
10% linguistic expression of the world we perceive

- **Optical illusion of the brain**

- **Limitation of brain memory**

Overload capacity of brain/ Compressive memory

Input to the brain, output from the brain.



Who are we ?

Perspective of brain science

Brain's illusion in selection

Preference before selection?

(Showing one experiment)

BRAIN

A machine that justifies self-selection (Neurobiologist Roger W. Sperry)

No logical causality of choice

Interpreting and justification

Dominance of experience(memory) model

Brain's interpretation

- **Stereotypes, prejudice, illusion, distortion**

Who are we ?

Psychoanalytical perspective : Desire is a mirage

- **Desire** (Jacques Lacan)

Desire is "the desire for something else" since it is impossible to desire what one already has"

Desire is not a relation to an object but a relation to a lack.

The more civilized, the greater the desire

A constant gap between desire and satisfaction

Who are we ?

Broad historical perspective

Happiness and satisfaction

More powerful, more unified human

Became Happier? "NO"

As conditions improves, expectations increases.

(Sapiens by Yubal Harari)

- **Evolutionary biochemical system: survival and reproduction**
- **Happiness does not depend on power, external condition**
- **Constant pleasure: against survival and reproduction.**

Making others Separatism and violence

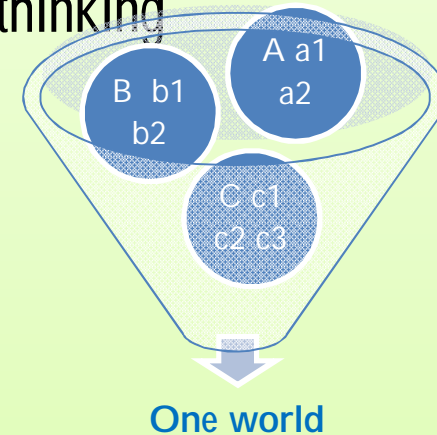
Trap of world view on the same and difference

- Civilization with technique, language, knowledge, science
- Knowledge production: analyzing, categorizing, dividing into smaller categories
- Cultural and ideological knowledge / Rapid spread
- A narrow framework of biased knowledge/Mechanistic thinking



Knowledge impacts our mindset

Production of the Other making boundaries



Characteristics of prejudice: rigidity, irrationality, over-generalization,
unreasonability (Stephan, W)

Who are we ?

Altruistic personality

- **New group theory:** Domination of cooperative colonies

“Within a group, selfish individual wins altruistic one. But a group of altruistic individuals wins a group of selfish individuals”

(Edward O. Wilson ‘The social conquest of earth’ 2012)

- **New evolutionism:** Altruism in genetic perspective

Actor’s costal behavior to benefit the recipient’s the production of offspring (inclusive fitness theory)

Altruism to contribute to next generation’s gene reproduction

(1964. The genetical evolution of social behavior by W.D. Hamilton)

Limitation of Altruism, kin selection

Who are we ?

Evolution of cooperation

Five mechanism for the evolution of cooperation (Martin Nowak)

Cultivated forms of cooperation for human

Direct reciprocity: I help you, you help me

Indirect reciprocity: I help you, somebody helps me

Spatial selection: Neighbors or friends help each other

Group selection: Groups of cooperators win

Kin selection: Help genetic relatives

Blood is thicker than water

Kin selection

“I will jump into the river to save two brothers or eight cousins”

(Biologist . B. S. Haldane, Kin selection theory: Hamilton, 1964)

My Sacrifice –percentage of sharing same gene

Brothers-50%; Me and Grand father-25%

- Unconditional sacrificial and cooperative behavior
(Mother Teresa, Lee Soohyun)

Jumped into the railroad to save people (Lee Soohyun, in Tokyo, 2001)

Second Lee Soohyun, Shin Hyungoo (2006)



Who are we ?

Evolution of cooperation

- **Conservative evolution theory**
Competition and conflict in the process of variation and selection
- **Super cooperation** (Martin Nowak "The time has come for super cooperators")
Evidence of Cooperation from origin of life " Cooperation is abundant in nature."
Three billion years ago, bacterial cells were fed to feed for other's reproduction
Successful cooperative evolution of insects, plants, animals, Homo sapiens
- **Successful models of cooperative competition: Plants and insect relationships (Bee carrying pollen and getting honey)**
- **Trees dominant in weight, insects in numbers on the planet**

Ways to innovate cooperation

To reconcile with other creatures, nature

Instability of human cooperation system

- A Star Wars civilization with Stone Age emotions; 99% of the time in the Paleolithic environment.
- Survival and breeding centered body and emotion/Rapid change in the way of life

Dictatorship(selfishness) of a gene

Hold hands with nature and other beings

Social system leading to cooperation

- **Homo symbiosus** (Choi Jae-chun, Animal behaviorist)

Choice for survival among symbiosis, predation, parasitism

Limited resources, competition is inevitable, learn cooperation model in nature.

“We, alone on earth, can rebel against violence of the selfish replicators.”

- “Compete like crazy, but treat each other well.” As fiercely as the teams of students compete, they are also strongly inclined to assist each other — even direct competitors — at every opportunity. (Woodie Flowers, mechanical engineering, MIT)

Ways to innovate cooperation To activate indirect reciprocity

Indirect reciprocity Reputation-social pressure

- Social animal- gossip, internet; the spread of reputation
“For direct reciprocity you need face. For indirect reciprocity you need a name.” (David Haig)

Powerful effect of social pressure (Alex Laskey)

Saving money: being a good citizen: telling neighbours' saving behaviors

- Mutual reciprocity based on trust, sharing neighbors' altruistic behaviors to raise confidence

To be empathetic

Feelings of connectedness

Emphasizing: to feel the boundary between self and other blur

Not emphasizing: to feel separate(subject versus object)

Low empathy - human cruelty

Disconnection in digital era

- **3 Social factors to lead low empathy**

Obedience to authority, ideology, in-group out-group relations

Erosion of empathy

by authority by Stanley Milgram in Yale U.

by an ideology, as shown on 9/11 in world trade center in USA

by out-group relations, the catastrophic genocide in Rwanda

(TEDx, Simon Baron Cohen)

Empathizing:

Spiritual medicine that makes us one.

How to be empathetic?

A case of Donation pledge

Erosion of empathy

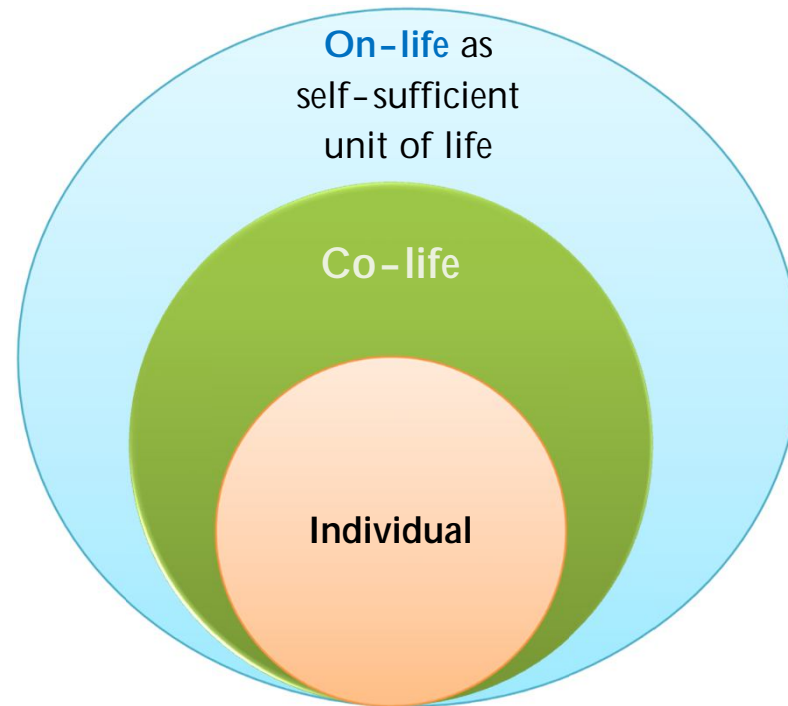


Ways to innovate cooperation

To recognize that we are 'the one'

- Physics perspective (Zhang Hwe Ik)

Structure of On-life



Big frame and good frame to see the world

Ways to innovate cooperation

To recognize that we are ‘interbeing’



Thich Nhat Hanh, In the Heart Understanding – Thay’s commentary on the Heart of the Prajanaparamita Sutra

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.

A new verb “inter-be” combined with the prefix “inter-“ with the verb “to be.”
There is no independent self – that the perception of self, of “me”, of “mine” is
an illusion

Ways to innovate cooperation

Emphasis on homogeneity

Categorizing by language, artificial boundaries, limitation to reach the real world.

How to get out of the closed thinking frame?

Mindfulness-noticing new things (Ellen Langer)

Be at the present, be at the moment

Noticing makes you sensitive for context and perspective.

The more you notice the more you like the thing you are noticing

Health, happiness, productivity, creativity

Recognition of differences/ A common point that we are different



To conclude

Activation of indirect reciprocity : social sharers of good model

Recognition of connectedness of beings: we are 'Inter-being'

Holding hands with all other forms of life and nature

Mindfulness

