BUILDING SUSTAINABLE COMMUNITIES

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ITU Kaleidoscope overview

- **2008** Kaleidoscope series of conferences were initiated
- **2010** ITU academia membership category was established
- **2013** Kaleidoscope 2013 is held in Japan, at Kyoto University
Conference theme: Building Sustainable Communities

- `Sustainability’
  - Already discussed for many years?
  - Key phrases
    - Population growth
    - Economic growth
    - Limited resources on our planet

Time to start discussing `survivability’?
Growth towards Better Life and Prosperity

ITU Kaleidoscope 2013
Environmental Problems

Depletion of Resources

Pandemics

Rapid Economic Growth
QoL (Quality of Life)

Development toward Prosperity

Time
QoL\n\nHuman Population\n
Resources\n
Development toward Prosperity\n
Decline\n
Time
Problem is when this declining starts.
The Struggle for Human Survival

Catastrophe Valley

Technology

Applied Science

Fundamental Science

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Struggle for Human Survival

Further Population Increase

Technology

Applied Science

Fundamental Science

Catastrophe Valley
First Paradox

Growth towards Better Life?
First Paradox

Growth towards Extinction
Economic Growth?

More!
Never enough!
Must win!

Our civilization looks like a lit candle in the blowing wind.
S & T only cannot sustain the present civilization

Technologies

Applied Science

Fundamental Science

Philosophy

Population Explosion

Resource Shortage

Global Warming

Mutual Help

Harmony

Coexistence
The peak must be delayed by changing of our way of life.
By mitigation we will be given a time for enabling S&T to find out a way out.
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ICT can contribute to the sustainability

- Kaleidoscope can also contribute to it

Various aspects:
- Technical aspect
- Application aspect
- Economic aspect
- Regulation aspect

Various participants:
- Developed/developing countries
- Universities, industries, governments, and standardization organizations
Related programs at Kyoto University

- **Dec 2011** Inter-Graduate School Program for Sustainable Development and Survivable Societies

- **Nov 2012** Graduate School of Advanced Integrated Studies in Human Survivability
京都・奈良が発祥!!
8世紀〜9世紀に成立された「大学寮」
貴族子弟の教育施設、卒業生は官吏。
大学頭→学長
博士 →教授
得業生→大学院生
学生 →学生

京都二条城前
Kyoto University’s academic approach is based on:

1. Academic Freedom
2. Academic Self-Reliance
3. Interdisciplinary Dialogue

8 Nobel Laureates
2 Fields Medalists
1 Gauss Prize Winner

+ Many Other Awards
京都学派（Kyoto School of philosophy）
Prof. Shinya Yamanaka, M.D., Ph.D. Wins the Nobel Prize in Physiology or Medicine in 2012

iPS cells (induced pluripotent stem cells)

A colony of hundreds of human iPS cells
Science

Non Science
Science

Non Science

Proto science
Kyoto: One-Thousand-Year Ancient Capital of Japan

• Cultural and historical city:
  • Heritages: Ginkakuji, Kinkakuji temple...
  • Streets: the Philosopher's walk...
  • Events: Gyoki Daie at Chion-in temple...

(wikipedia)
Thank you! (=Arigato!) and welcome to Kyoto! (=Yokoso!)