Center for Sustainable Development Studies of Toyo University and SDGs

Director of Center for Sustainable Development Studies
Hidetoshi Kitawaki
Center for Sustainable Development Studies, Toyo University (CESDES; 東洋大学国際共生社会研究センター)

Research Organization
- Research member: 12
- Visiting researchers in Japan and overseas: 20
- Research assistants (RA): 10

Operating Organization
- General meeting for decision-making
- Secretariat meeting for operation
- External evaluation committee
- Research associate: 1
- Assistant: 1
Previous Researches regarding SDGs

• Many researches and books on the idea of SDGs
• Many study methods for formulating macroeconomic policies
• Japan focuses on SDGs as “Environmental issues around us”
• Serious environmental problems and poverty alleviation need to be focused on in developing countries

Practical improvement of the living environment rooted in developing countries is necessary
PURPOSE

- Improving the living environment in developing countries is the most important aspect of human security
- SDGs must be achieved in infrastructure construction, economy, and social aspects
- Return previous knowledge to the field
- Integration of research with international contributions
- Improvement of living environment in developing countries in Asia, Africa, Latin America, and the Pacific
- Conducting researches to link each SDGs
VISION

Enhancement of Human Security Through Improvement of Living Environment in Developing Countries
–TOYO SDGs Global 2020-2030-2037–

TOYO SDGs Global
Beyond 2020 … and
SDGs Achievement -2030 … towards “Beyond SDGs”
150th Anniversary of Toyo University -2037

SUSTAINABLE DEVELOPMENT GOALS
FEATURES

• Interdisciplinary Team
• Visiting researchers in Japan and overseas
• Vision of “Beyond2020”
  (1) Global Research, (2) International order Formation,
  (3) Development of Leaders
• Establishment of new approaches to International development
• Acquisition of external funds
• Cooperation among industry, government and academia
• Cooperation with international graduate students from developing countries and JOCV
• Development of overseas contracted schools and joint research (e.g. Jomo Kenyatta University of Agriculture and Technology in Kenya, University of the South Pacific in Oceania, University of Sao Paulo in Brazil)
1. Implementation of SDGs Verification Research Project
   - One research project each in Asia, Africa, and Latin America
   - Five cases of external funding, including science and research expenses
   - Three international cooperation projects in collaboration with JICA, etc.

2. Publication of research results
   - Publication of two books on practical experience of SDGs (November 2019 and September 2021)
   - 20 papers published in SCOPUS (including visiting researchers)
   - Newsletter (Three Japanese and two English reports per year)
   - International symposiums and Workshop
   - Website update

3. Development of young researchers
   - 2 - 3 doctorates awarded annually
   - Employment of 10 Research Assistants (RA)
   - Employment of PD
OUR ONGOING RESEARCH

- Education
- Social Welfare
- Waste Management
- Public Works
- Community
- Poverty Reduction
- Disaster Management
- Human Security
- Urban Planning
- Infrastructure
- Water Environment
- IoT
CASE 1: Solid Waste Management

Stages of Development of Solid Waste Management (SWM)

Stage 1: SWM is at a primitive stage in which public sector is not involved

Stage 2: Systematic waste collection is introduced but final disposal sites are not controlled

Stage 3: Sanitary landfill is implemented but candidate sites becomes scarce

Stage 4: Intermediate treatment is introduced and separate collection becomes necessary

Stage 5: Maturation of society causes complicated technical/sociological problems in SWM

Stage 6: Material-cycle society with 3Rs becomes target of SWM
CASE 1 : Solid Waste Management

Stage 1

SWM is at a primitive stage in which public sector is not involved

• Public sector is not involved
• Self-disposal and recycling by waste pickers
• Discharge rates still low
• Disposal at open spaces near living quarters

(Honduras, 1998)
CASE 1: Solid Waste Management

Stage 2

Systematic waste collection is introduced but final disposal sites are not controlled

- Increase in solid waste discharge amount
- Organized collection by hand carts and vehicles
- Open dumping causes problems such as open burning, odor, leachate, vectors and rodents etc.

(Mozambique, 2016) (Botswana, 2016)
CASE 1: Solid Waste Management

Stage 3

Sanitary landfill is implemented but candidate sites becomes scarce

• A sanitary landfill will be introduced where waste is covered with soil and leachate is collected and treated to prevent water pollution

(Dominica Republic, 2006) (Cambodia, 2003)
CASE 1: Solid Waste Management

Intermediate treatment is introduced and separate collection becomes necessary

- Reduction of disposal rates required
- Treatment systems are introduced

(Japan, 2008)
Maturation of society causes complicated technical / sociological problems in SWM

• Industrialization changes solid waste quality

**NIMBY** Not In My BackYard

**LULUS** Locally Unwanted Land USes

**BANANA** Build Absolutely Nothing Anywhere Near Anybody

(Pakistan) (East Timor, 2005)
CASE 1: Solid Waste Management

Stage 6

Material-cycle society with 3Rs becomes target of SWM

- As the slogan of 3R (Reduce, Reuse, Recycle), the concept of waste management changes from "Properly dispose of what has occurred" to "Reduce the amount of waste"

(Japan, 2008)
CASE 1 : Solid Waste Management

Consideration Towards Sustainability

- Features and Constraints in Japanese ODA Schemes
- Project Cycle Management
- Government Structure and SWM Sector
- Development of Japanese Experienced Personnel
- Importance of "Soft Component"
- Encouragement of Behavior Change
- Change in People's Concept towards SWM
- Tariff Collection
- Use of Appropriate Technology
- Not Adopt but Adapt
- Withdrawal Strategy
- Research Needs

(Papua New Guinea)
NEWSLETTER

• First newsletter was published in 2002
• The latest newsletter (Japanese: 48th, English: 31st)
第1章 持続可能な開発目標（SDGs）とは何か
第2章 経済開発とSDGs−民間主導のアフリカ経済−
第3章 ソーシャルビジネスとSDGs
−インフラ普及における有効性−
第4章 都市化とSDGs
−都市化の肯定的利用手段としての建築物−
第5章 環境分野でのSDGsの達成に向けた国際貢献
第6章 防災とSDGs
−SDGsの礎として−
第7章 ジェンダーとSDGs
−女性のエンパワーメントと障壁に関する見解:
フィリピンにおける様々なコミュニティの女性リーダー−
第8章 社会的保護・社会保障とSDGs−拡大する社会的保護−
第9章 すべての人に対する支援とSDGs
−不可欠な障害者支援、スリランカを事例に−
第10章 観光開発とSDGs
−環境保全と地域社会を基盤としたサステナブルツーリズム−
第11章 アフリカの開発とSDGs
−アフリカにとっての持続可能な開発目標とアフリカ開発銀行の役割−
第12章 アフリカにおける農業と技術
第13章 マサイ・コミュニティとSDGs
第14章 持続可能な開発目標に対する国際共生社会研究センターの貢献
RESEARCH RESULT

BOOK「国際貢献とSDGs –持続可能な開発のフィールド–」

第1部　SDGs実現に向けた課題と枠組み
1. SDGsと国際貢献
2. アフリカにおける国際貢献とSDGs
3. ラテンアメリカにおける国際貢献とSDGs

第2部　SDGs実現に向けたフィールドからの取組
4. 中国における脱貧困事業とSDGs
5. 高等教育パートナーシップとSDGs
6. SDGs達成に必要不可欠なICT
7. 人材育成とSDGs
8. 社会的保護・社会保障とSDGs
9. SDGsと障害者支援
10. 都市コミュニティとSDGs
11. SDGsと水道整備
12. SDGsへ向けたクリーン・エネルギーのあり方
13. SDGsの達成を見据えた都市化のあり方
14. 本書のまとめ
ANNUAL REPORT

- Contents:
  1. General information on Center for Sustainable Development Studies
  2. Reports from each research member, visiting researcher and RA
  3. Reports on symposiums and workshops held in a target year
INTERNATIONAL SYMPOSIUM
Towards the Actualization of SDGs in Asia and Latin America - In Relation to Common Bonds between Brazil and Japan -

- Date: 23rd November, 2018
- Venue: Inoue Enryo Hall
Enhancement of Human Security Through Improvement of Living Environment in Developing Countries

- TOYO SDGs Global 2020-2030-2037 -

- Date: 9th October, 2019
- Venue: 125 Memorial Hall
RESEARCH RESULT

SYMPOSIUM

International Contribution and Realization of SDGs - Field of Sustainable Development -

- Date: 22nd November, 2019
- Venue: Sky Hall
RESEARCH RESULT

WORKSHOPS
Sustainable Development and International Contribution for African countries (2016)

Responsible Tourism for Sustainable Development (2016)
RESEARCH RESULT

WORKSHOPS

Toward International Collaborative Research between Jomo Kenyatta University of Agriculture and Technology and TOYO University (2017)

Sustainable Development and Tourism - A case from Cambodia (2017)
RESEARCH RESULT

WORKSHOPS

What Can We Do for Sustainable Development Sharing Experiences between Kenya and Japan (2017)

Disaster Resilience and Recovery – Asian Experience and Research Opportunities in Italy – (2017)
ACADEMIC AGREEMENT

- Jomo Kenyatta University of Agriculture and Technology in Kenya (2017)

Signing ceremony

Meeting in Kenya
ACADEMIC AGREEMENT

- University of Sao Paulo in Brazil (2018)

Signing ceremony

Japan town in Brazil

Campus
ACADEMIC AGREEMENT

- Tamaki Town in Mie Prefecture, Japan (2019)

Ise Newspaper (4th July, 2019)

Signing ceremony

Internship for international students
### SCHEDULE

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<td>水環境改善（松丸、北脅、荒巻、岡本）</td>
<td>日・米・加・中・韓の中枢管理機能立地の比較分析（志摩）</td>
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<td>自動車交通の公共交通へのシフト（岡村、柏崎）</td>
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<td>ジェンダー役割の変容と女性（中村、藤本）</td>
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