

SDGs & Organic Cycle 2019.8.20 2019 International Foru

2019 International Forum in Solo

Civic Engagement 4.0 Justice

~ Dignity ~ Sustainability

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Three Dimensions of Sustainable Development

- Sustainable development has been defined as development that meets the needs of the present without compromising the ability of future generations to meet their own needs.
- For sustainable development to be achieved, it is crucial to harmonize three core elements: economic growth, social inclusion and environmental protection.



United Nations DPI

Another Way to Look at SDGs – The Five Ps



United Nations DPI

Food Security and SDGs

- Food security is required for local sustainability
 - SDG 2 Food Security · 14 Marine · 15 Land · 6 Water ·
 - 7 Energy · <mark>13 Climate</mark> 11 Resilient Cities
- Basis for food production
 - 12 resource use
 - 8 decent work 9 innovation
- "economic goals"



Sustainable region :city, municipality, country, etc.



SDG12: sustainable society and material cycles - "3R"



Goal 12 Ensure sustainable consumption and production patterns



Sustainable consumption and production

- = Sound material cycle society
- = 3R

Local cycle of resources

SDG12.3

 By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses

Food waste treatment in Japan





Food waste: avoidable and unavoidable parts expiry dates

Avoidable - "could have been eaten"

- a lot of unopened food could be found in household waste, e.g."expired" food
- some wasted food was even before "expiry" date

Unavoidable - peels, bones, shells, usually removed or uneaten. expiry dates are just an indication. Many items could still be eaten safely (and tasty) after the expiry date



Avoidable food waste discharged from households

3R of food waste

* Reduction is most important, especially for avoidable food waste

* Reuse is not effective (e.g. donate to poor people)

- very limited capacity (does not solve waste disposal problem)

- does not solve fundamental problem of poverty

* Recycling is appropriate for unavoidable food waste (e.g. composting)

- Cooperation (e.g. sorted waste disposal) of citizen, farmers, and business is necessary. Change mindset

Important to make the system "visible" to get citizens' awareness

3 Factors to make society 3R

1. Trigger,

Crisis situation or some topic,

Problems Waste Management on policy, processing skill, economy and cost, etc. Opportunities of getting attention about waste by citizens, actors

2. Leadership,

Top management of the leaders on municipality, NGO, businesses, schools, etc.

3. Social Capacity

Participation and partnership

Citizens' participation and partnership is the engine to change the society

They should be needed to establish and keep 3R system of municipality



Trigger: Nagoya City Waste Crisis and Preservation of Fujimae Wetland

- 1990's:Continuous increase of waste
- 1997: waste exceeds 1 million t/year
- 1998: shutdown of 1 incinerator
- 2000: predicted finished capacity of landfill
- Project of landfill construction at Fujimae Wetland → Fierce opposition of citizens (e.g. birdwatchinggroup)

★debate on "birds or waste"?

 1999 Jan: Nagoya mayor turns down landfill plan at Fujimae wetland

★the wetland was saved

- 2002 Nov. Registration of Fujimae Wetland as Ramsar site
- How to deal with the waste? -> REDUCE!!



"Okaeri Yasai" Project: creation of local material cycle in Nagoya

- 2008 Feb **Project start**
- By naming the system and the products as "Okaeri Yasai", the loop becomes more visible to the citizens and stakeholders - raising awareness

\uparrow

 Not only composting the food waste, but also connecting consumers, retailers and farmers through the use of compost, thus completing the loop

 \rightarrow Circular Economy





"Okaeri Yasai is growing in this field"

("Okaeri Yasai" means "Welcome back, vegetable!")



Sale of Okaeri Yasai at a supermarket



(From the menu list of Nagoya City primary school) Item with this mark uses rice produced in Minato-ward, and Broccoli produced in Midori-ward.

Broccoli is produced with compost made from waste of shops and homes in Nagoya. This is called "Okaeri Yasai". It also contributes to reducing waste in Nagoya City



Pupils eating Okaeri Yasai at school

Cooking class using Okaeri Yasai

Consumers visiting farmers growing Okaeri Yasai









10000

おかえりやさい

6日代記, 1日的たい、その福田市田、北三田市市 日本田市市代をたち日本下す。

BAR BAR

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IN SUPERILIES STREET

この畑では、「おかえりやさい」が 育っています この畑では、名古屋市内のスーパーや学校給食、ホ アルやレストランなどから出された生ごみをリサイ

この畑では、名古屋市内のスーパーや学校給食、ホ テルやレストランなどから出された生ごみをリサイ クルしてつくったたい肥をつかって野菜(おかえりや さい)をそだてています。

なごや循環型野菜「おかえりやさい」とは?

生ごみのリサイクルたい肥をつかって8古屋 市や近郊の農家が育てた野菜のこと。おか えりやさいプロジェクトを通して、8古屋市 内のごみ減量をすすめています。

この感でつかっている生ごみたい際は、 なごやか牧事(夜道)で観視しています。

おかえりやさいプロジェクト事務局 tol-052-972-2390 http://okaeri.o.kd/g

Thank you for your attention!



