

14th Asia-Pacific Eco-Business Forum in Kawasaki
Session2 Environmental Technology to Help Achieve SDGs

Contribution to SDGs by using ICT

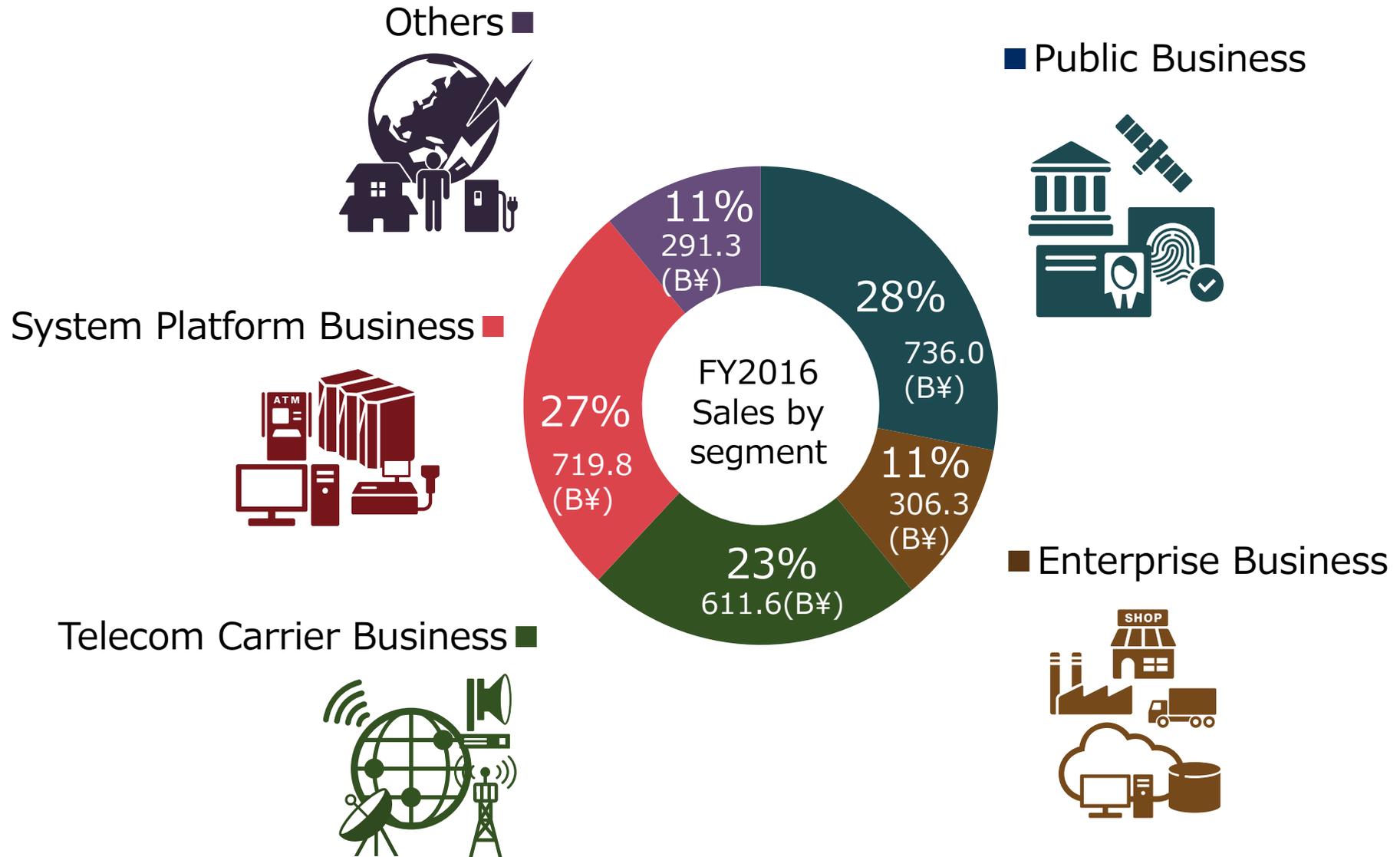
February 1, 2018

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Proportion of Sales (By Operating Segments)



NEC's 7 Social Value Creation Themes for Resolving Social Issues

Orchestrating a brighter world



7 social value creation themes correspond to SDGs

Important Themes for Environmental Management



**Paris Agreement
on climate
change measures**

COP21 held in 2015
(21st Session of the Conference of Parties
to the United Nations Framework
Convention on Climate Change)



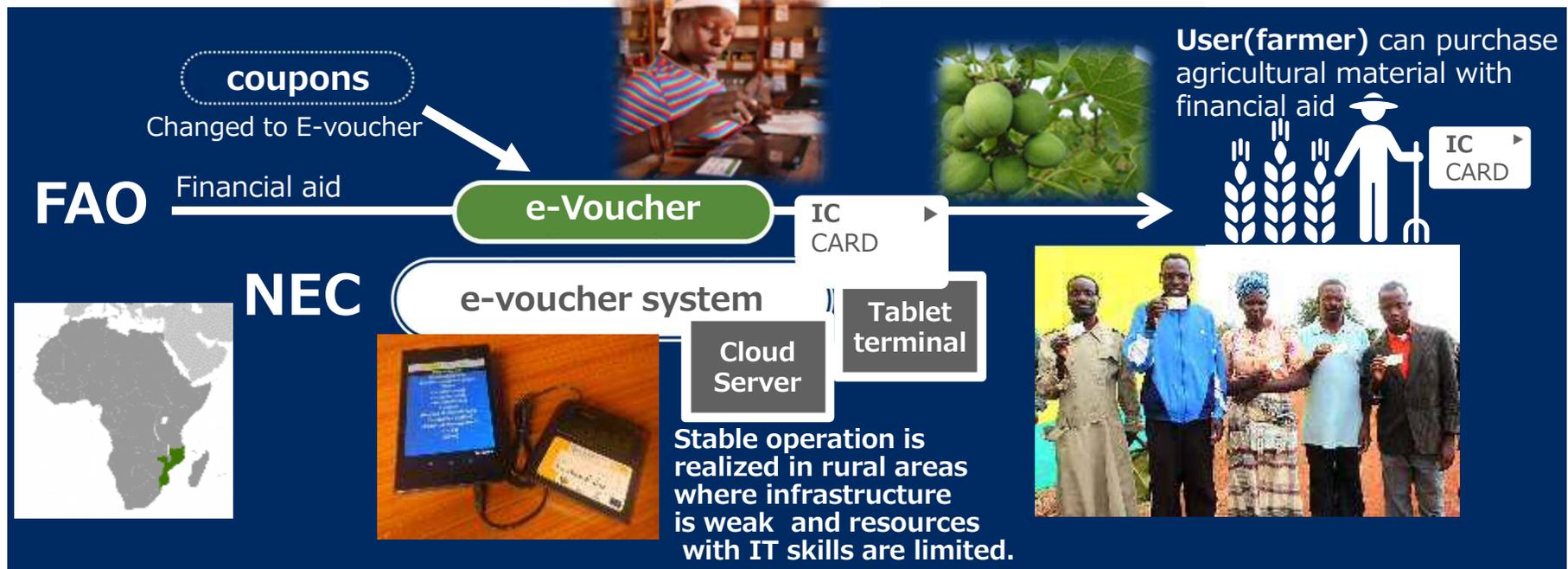
SDGs
(Sustainable
Development Goals)

**United Nations Sustainable
Development Summit**
held in 2015

**Review and reinforce
our environmental management
action plan focusing on SDGs
and climate change.**

NEC's approach

Poverty and agricultural productivity improvement ~Mozambique



Hunger and poverty in rural areas are big problems in Mozambique

FAO's aid project to provide better breed, fertilizer and agricultural chemicals has also problems.

e-Voucher systems thanks to E-money technology promote to;

- ✓ decrease negative environmental impact in making paper-based and disposable coupon
- ✓ enable equitable financial aid and increase the efficiency, usability and transparency of the project
- ✓ improve the productivity by providing the aids to needy persons

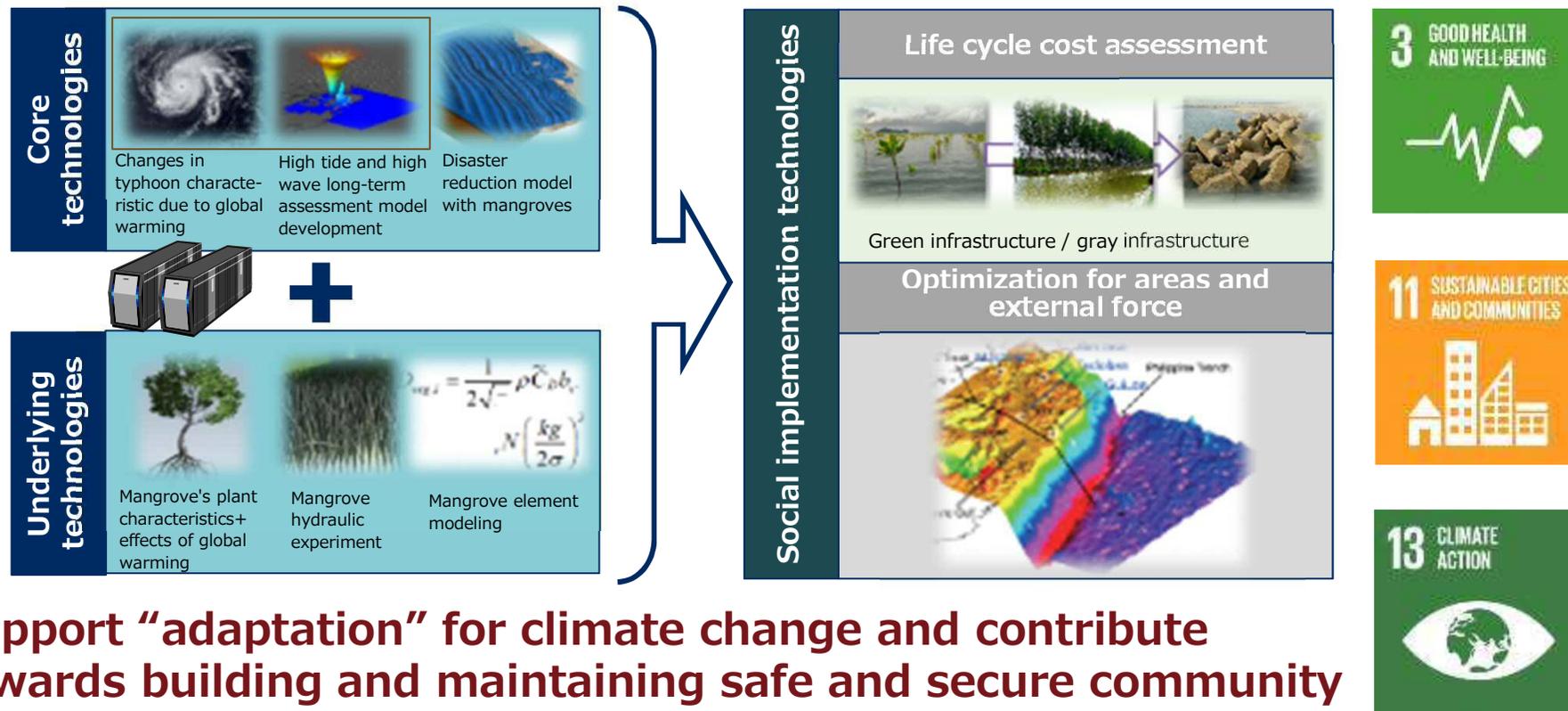


Damage reduction against large-scale typhoon ~ Philippines

Launched research and development of the "Coastal Disaster Simulation System" to examine and assess disaster reduction effects by Green infrastructure

Granted by the Environment Research and Technology Development Fund in March 2017.

Develop the disaster reduction and life cycle cost assessment method by the **optimum combination of the green (mangrove) and the gray (embankment)** against typhoons, high tides, and high waves.



Support "adaptation" for climate change and contribute towards building and maintaining safe and secure community

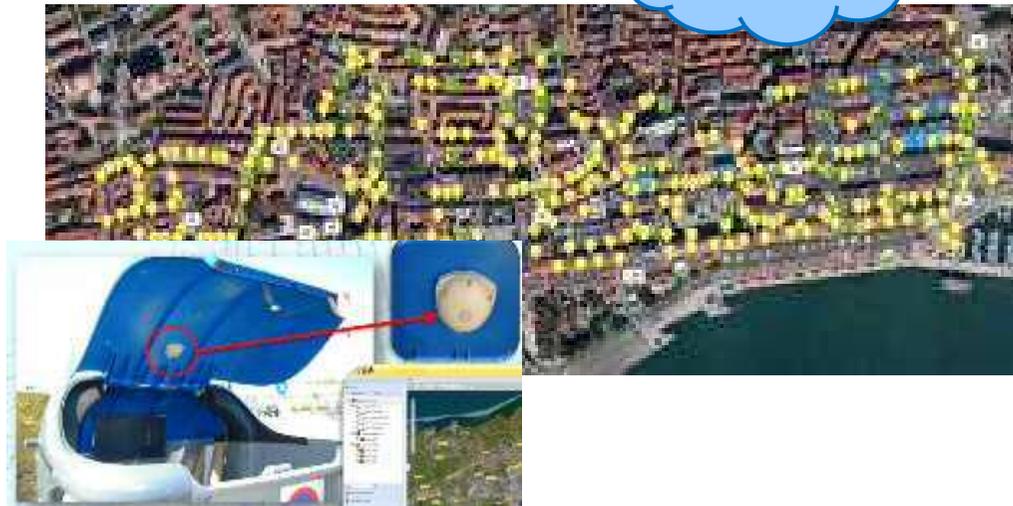
Effective waste collection by using "IoT" ~ Santander, Spain

Joint venture with Spanish waste collection service provider ASCAN

Real time data collection about the quantity of the waste and the location of bin



Analyze the data at the management center, show appropriate collection route and timing to the waste collection vehicle.

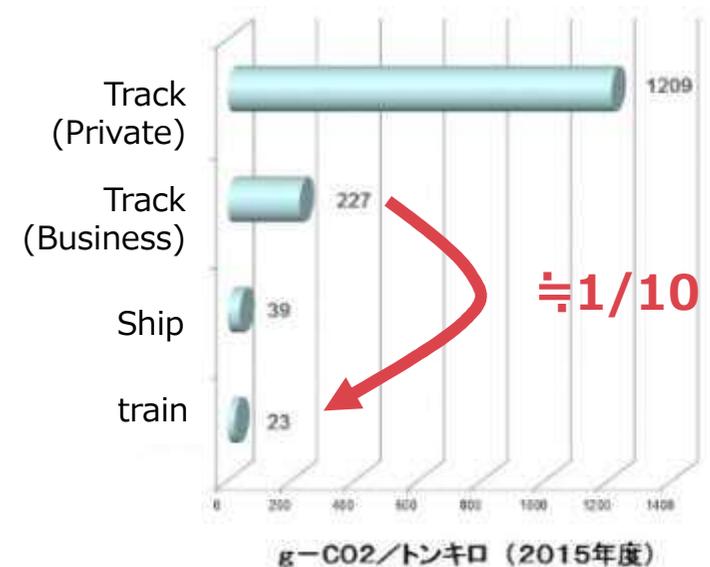


- Implemented a sophisticated waste collection service for the city of Santander in Spain **using sensors and Big Data analytics**. This reduced unnecessary collection trips, thereby **reducing operating costs and CO₂ emissions**.



Delhi-Mumbai Industrial Corridor Project

- Container tracking service utilizing Logistics Visualization System
- Real time recognition of accurate location of transporting containers
- Contribution to decrease the transportation lead-time, cost and to improve the accuracy of manufacturing
- **Contribute to consumption reduction of the fossil fuel**
- **Modal shift will be accelerated by the improvement of railroad, and a large CO2 reduction is expected**



国土交通省HP；運輸部門における二酸化炭素排出量より
http://www.mlit.go.jp/sogoseisaku/environment/sosei_environment_tk_000007.html

Spreading the understanding of SDGs to all employees

SDGs Work-shop

- Held in : February, 2017
- Participants : younger employees who are in charge of overseas business / new business development



Facilitator ;
NPO CRT(Caux Round Table)
CSR advisor Minoru Matsuzaki

SDGs Lecture

- Held in : September, 2017
- Participants : Sales Unit / Business Unit / R& D /



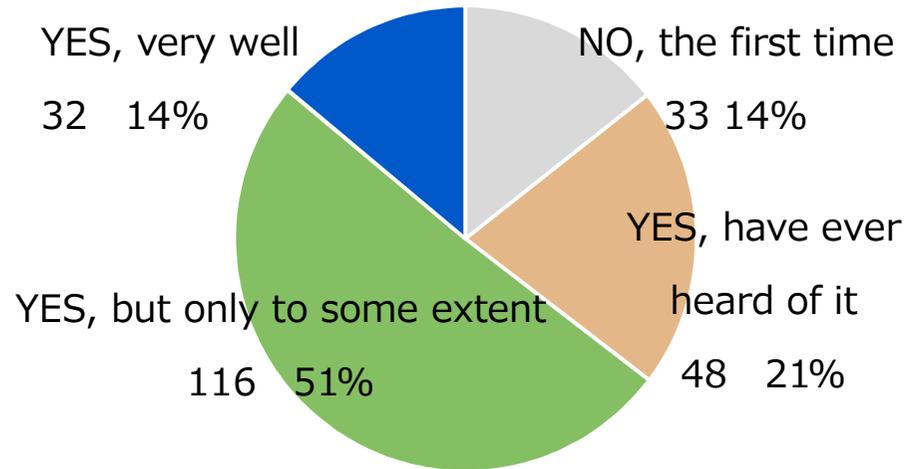
Corporate Staff

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Effect of the SDGs education

Did you know SDGs ?

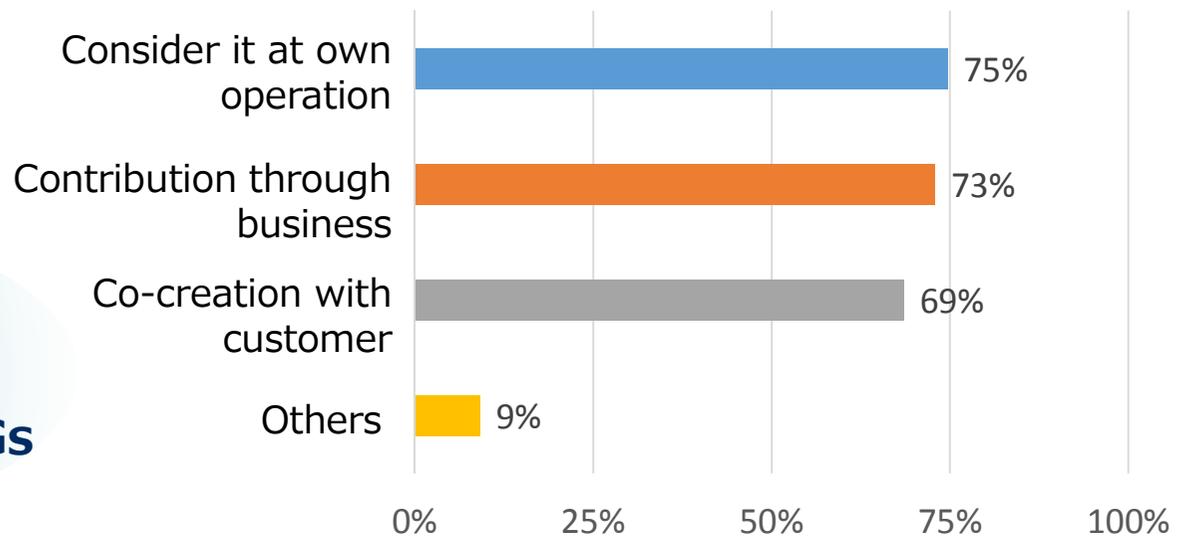


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- **After a lecture, many people understood the importance of contribution toward SDGs through the business**

- **Before a lecture, not many people did not understand SDGs**

For SDGs, how do you think that you should take action?



 **Orchestrating** a brighter world

NEC