



筑波大学
University of Tsukuba



SEAMEO-The University of Tsukuba Symposium IX

Theme: Resilience for Global Citizenship
Sub-Theme: Challenges in Education under COVID-19

Resilience for Global Citizenship; Disaster Prevention and Global Education

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1. Disaster prevention education in Japan



- There are many disasters such as earthquakes, volcanic eruption, typhoons, floods, heavy snow, heavy rains, and so in Japan.
- In school, disasters and blessings from nature such as volcanoes have taught in social studies, geography and so for long time.
- But contents for disasters has much changed from around 2011.

Teaching disasters and blessings → Learning disaster prevention

Why?

major disasters in Japan (2007-2016)



Year	Earthquake	Volcanic	Storm and flood damage
2007	7		5
2008	6		4
2009	3		3
2010	5		5
2011	16 (Great East Japan Earthquake)	1	3
2012	13		7
2013	11		13
2014	8	2	15
2015	13	5	10
2016	12	1	10

11 February 2021

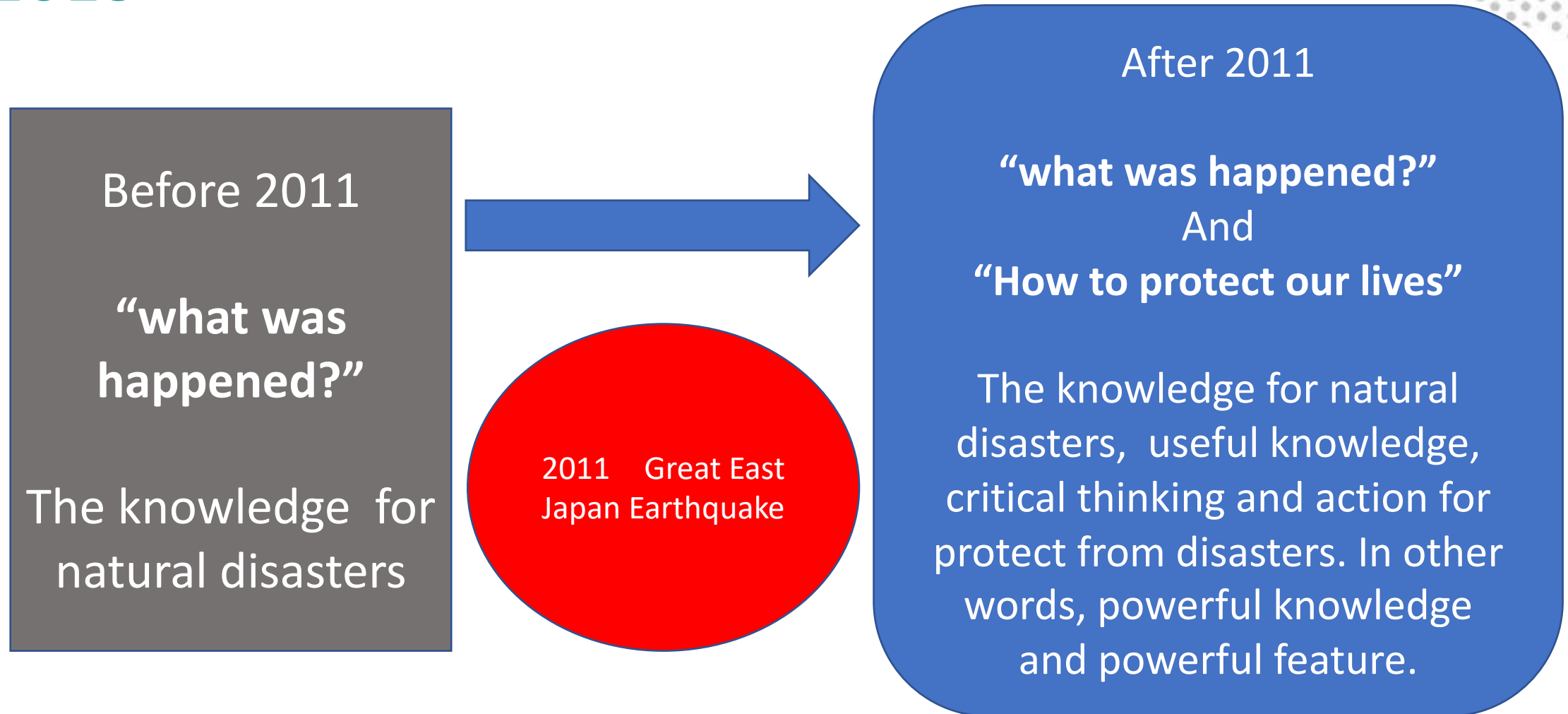
Transit of Textbook about disaster prevention

Description about disaster prevention in social studies and geography textbooks

published year	Junior high school (the number of page for disaster prevention /total)	High school (the number of page for disaster prevention /total)
1995-1998	2/233 (2001)	2/163
2002-2005	2/197	0/159
2013-2016	6/281	6/193
2020-	12/287	?

Note1: Nihonbunkyosyuppan-junior high school textbook
Ninomiyasyoten-high school textbook

The change of textbook for natural disasters from 2013



2. Differences in disasters due to differences in the natural environment.

- Disasters in Japan ; Earthquakes, Floods, Heavy snow etc.
- Disasters in Australia ; Wildfire etc.(because of dry area)
- Disasters in Thai ; Floods etc.(different with floods in Japan)

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Differences in disasters due to differences in the natural environment.

→ Disasters prevention educations are different by regions.



Chao Phraya in Bangkok



Wildfire in California

3. Global education of disaster prevention



Students don't only have to study disaster prevention in our own country or region, but to learn disaster prevention in other countries.

Because;

1. Students have broad knowledge about disaster prevention.
2. Students might have chances to visit some countries – they might keep their selves from the disasters.
3. It would be contribute to help each other when disasters occur anywhere.

→ **Disaster prevention education needs to be global education.**

→ **Training for global citizen.**

4 .Disaster prevention education and Society 5.0

- From the view of SDGs ; disaster prevention education is important to achieve of “Goal 11: Sustainable Cities and Communities”.

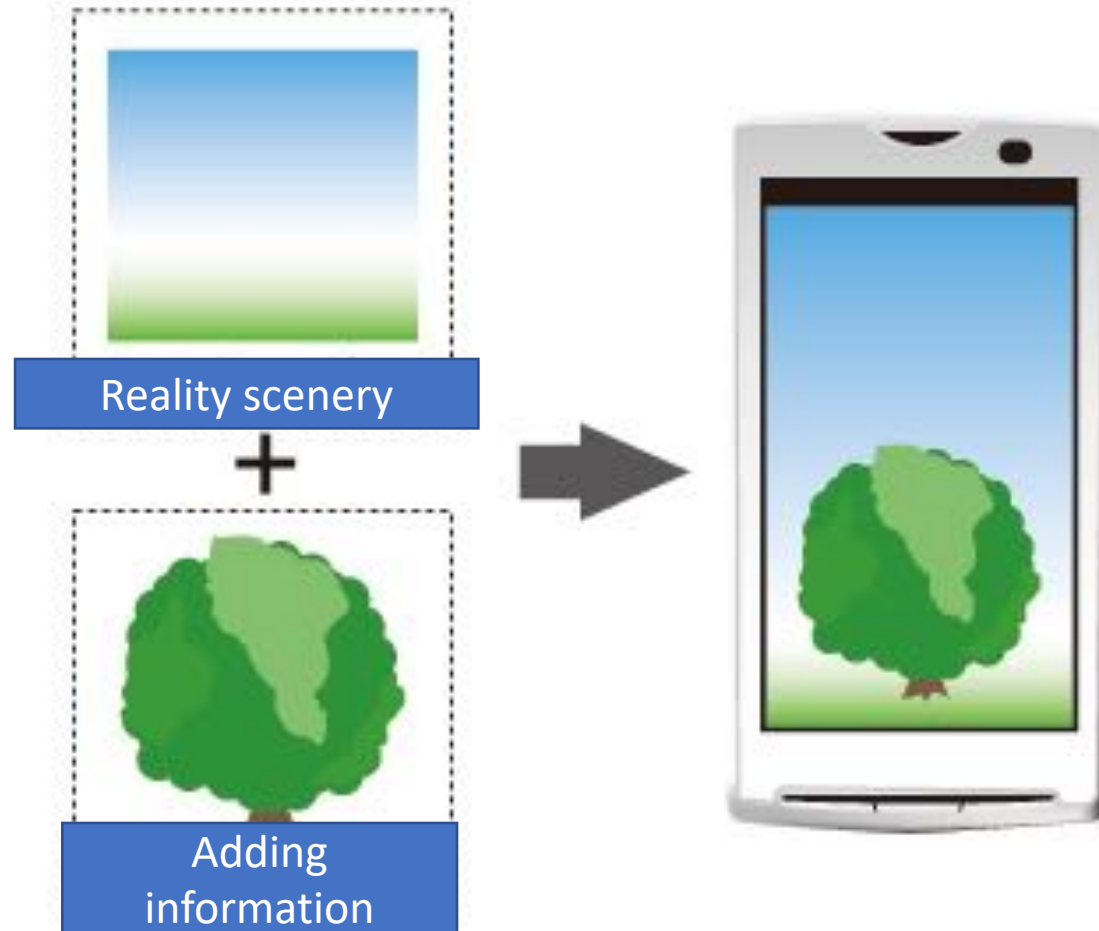
ESD → development → SDGs → education to achieve goals → ESD

- Disaster prevention education in society 5.0
→ Introducing of GIS and AR to disaster prevention education.
- AR(Augmented Reality) is invisible information added to scenery which we look by the good use of mobile device.

Students have reality with using map by AR

Augmented Reality (AR)

Technology that visual information is added scenery by computer



Visual information is added scenery.



AR(Augmented reality)

AR



VR(Virtual Reality)

5. Covid-19 as disaster

- Covid-19 is added as one of disasters.
- Covid-19 has distributed in the world.
- Regarding Covid-19, we must respond not only to each region but also to the all world. In Japan, people seem to have become accustomed to the large number of patients.
- The sense of crisis is fading. Disasters are occurring somewhere in the world. People have disaster prevention awareness to protect themselves. And it is necessary for people around the world to cooperate and help each other.
- The future issue is how to maintain motivation for such disasters.
→ It is a one of roles as global citizenship.



6.Conclusion; for Global Citizenship



- Disaster prevention education needs to be global education.
- By disaster prevention education corporates with global education, it is possible to develop the ability to create a resilient society for disasters.
- In Society 5.0, AR is useful for disaster prevention education.
- If people who can contribute to society from a global perspective are defined as global citizenship, one of the roles of global citizenship is to maintain motivation for disaster prevention, including covid-19, and to see disaster prevention from a global perspective. That is, the role of global citizenship is to maintain motivation for disaster prevention, including covid-19 from the view of global perspective.

Global citizenship with disaster prevention

