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UNDERSTANDING RISK
GLOBAL FORUM 2024

TRADITION • INNOVATION • RESILIENCE

Session Title

Speakers:

First name, second name

First name, second name

First name, second name

First name, second name

Logos:

My Profile

1977: Born in Okayama

1996: Lived in Kobe
Kobe University (B Sc. MHSc)

2007: Researcher of University of Hyogo and more
-Disaster Nursing and Global Health

(16 years of experiences of academic research, education, and practice on implementation-oriented disaster nursing)

Founder; EpiNurse (UNDRR Risk Award 2017)



Served as:

- Committee Member, Japan Academic Network of Disaster Reduction, Japan Science Council (2014-)
- Board, Japan Society of Disaster Nursing (2019-)
- Member, Japan Science Council (2020-)

WSDN promotion @ WANS 2009 in Kobe

The Great Hanshin-Awaji Earthquake 1995





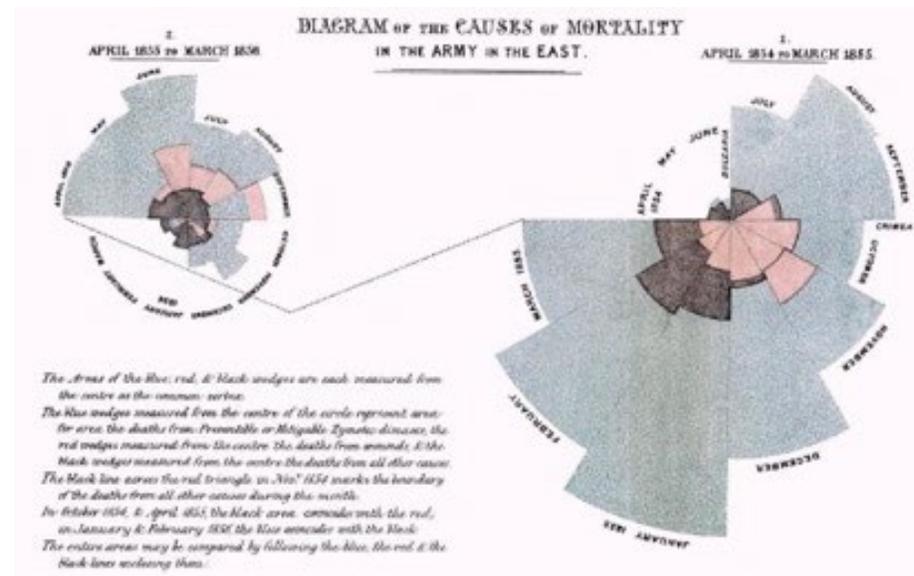
神戸市広報課発行「震災10年～神戸の記録～」より> (Copyright : 神戸市)

"Disaster Nursing : involves the systematic and **adaptable application** of nursing's distinct knowledge and skills pertinent to disasters.
 It encompasses the creation of initiatives aimed at reducing the harm to life and health resulting from disasters, in collaboration with various specialized fields."



10World History B in a minute! Modern Europe (8) - Russia and the Eastern Question

Florence Nightingale (1820-1890)



- With the aim of reducing health risks associated with climate change and natural disasters, we will implement and develop initiatives based on care science to create safe social mechanisms and environments in Japan and overseas.

Risk is proportional

$$\frac{\text{Hazard} \times \text{Vulnerability}}{\text{Capacity}}$$

RR



Insight

1. Escape from the “Hazard”
2. Protect survivors’ life and Maintain health (Vulnerability)
3. Rebuild your living environment (Capacity)



Nursing Action

First Aid & Mental Health Care
Mental health care
Secure food, toilet, bath, etc.



Transdisciplinary Nursing on Disaster Risk Reduction



Nursing, Epidemiology



Geography

informatics

Cultural Anthropology

Philippines



global

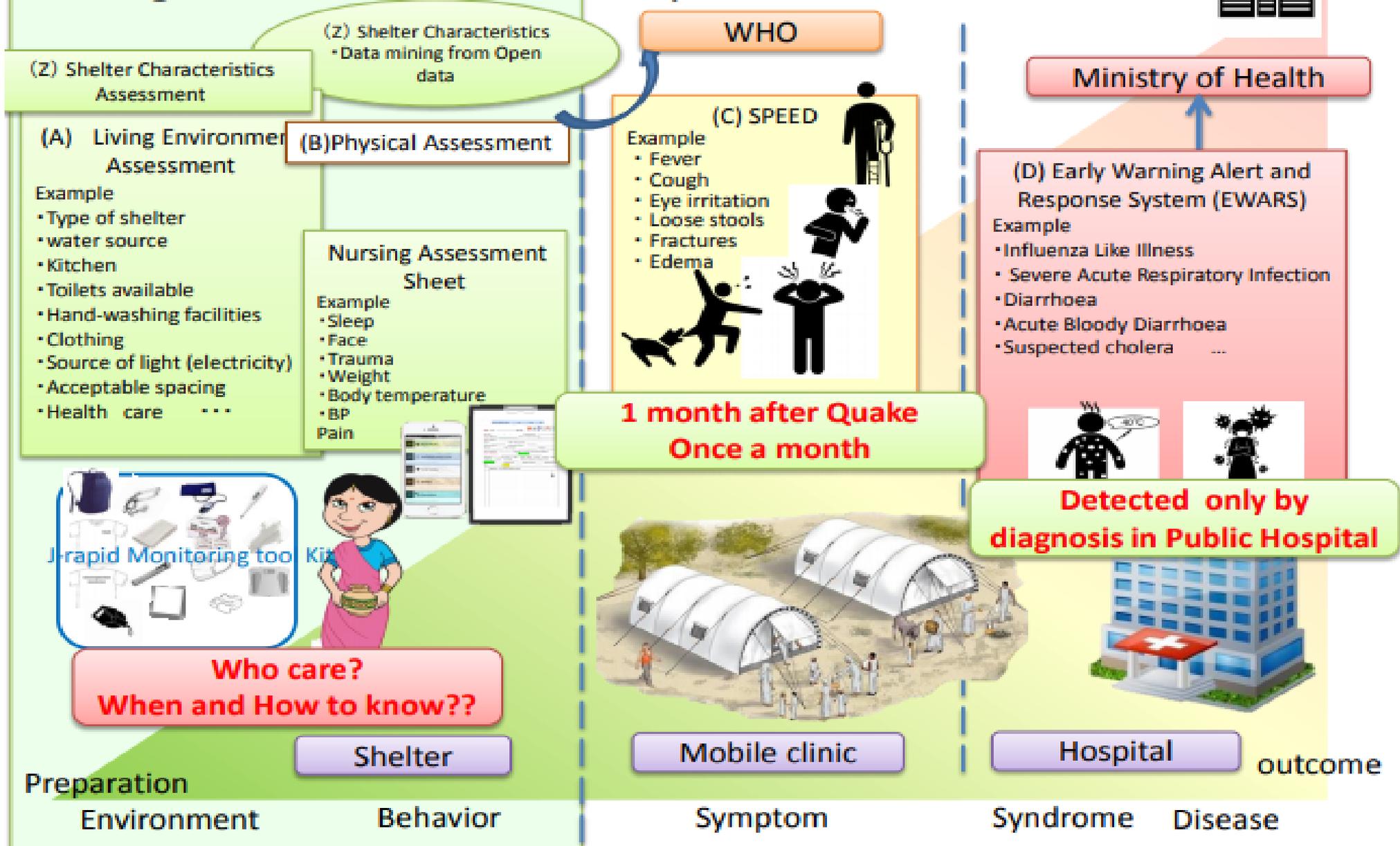
Nepal



Congo, Indonesia



Pathogenesis & Surveillance system on Disaster



Geo spatial aspect

Damgade

Population: 510
Under 5: 196
Male: 227
Female: 208
Total number of families: 131

Golda

Population: 62
Under 5: 18

Padma Tower

Population: 250
Under 5: 107
Male: 115
Female: 92
Total number of families: 48



Lapa basti

Population: 212
Under 5: 7
Male: 121
Female: 91
Total number of families: 54

Phulpingkatti

Population: 320
Under 5: 11
Male: 159
Female: 161
Total number of families: 70

Plykarkhana

Population: 47
Under 5: 2
Male: 32
Female: 15
Total number of families: 10

2018 Flood in western Japan (My hometown)



WHAT

WHY



REGZA

警報

大雨警報

岡山市

津山市

玉野市

笠岡市

井原市

高梁市

食事：
栄養バランス <> 賞味期限
個数・配達可能業者

断水・停電・通行止め
生活への影響広がる

岡山 倉敷 真備町

情報

岡山



TOSHIBA



Day

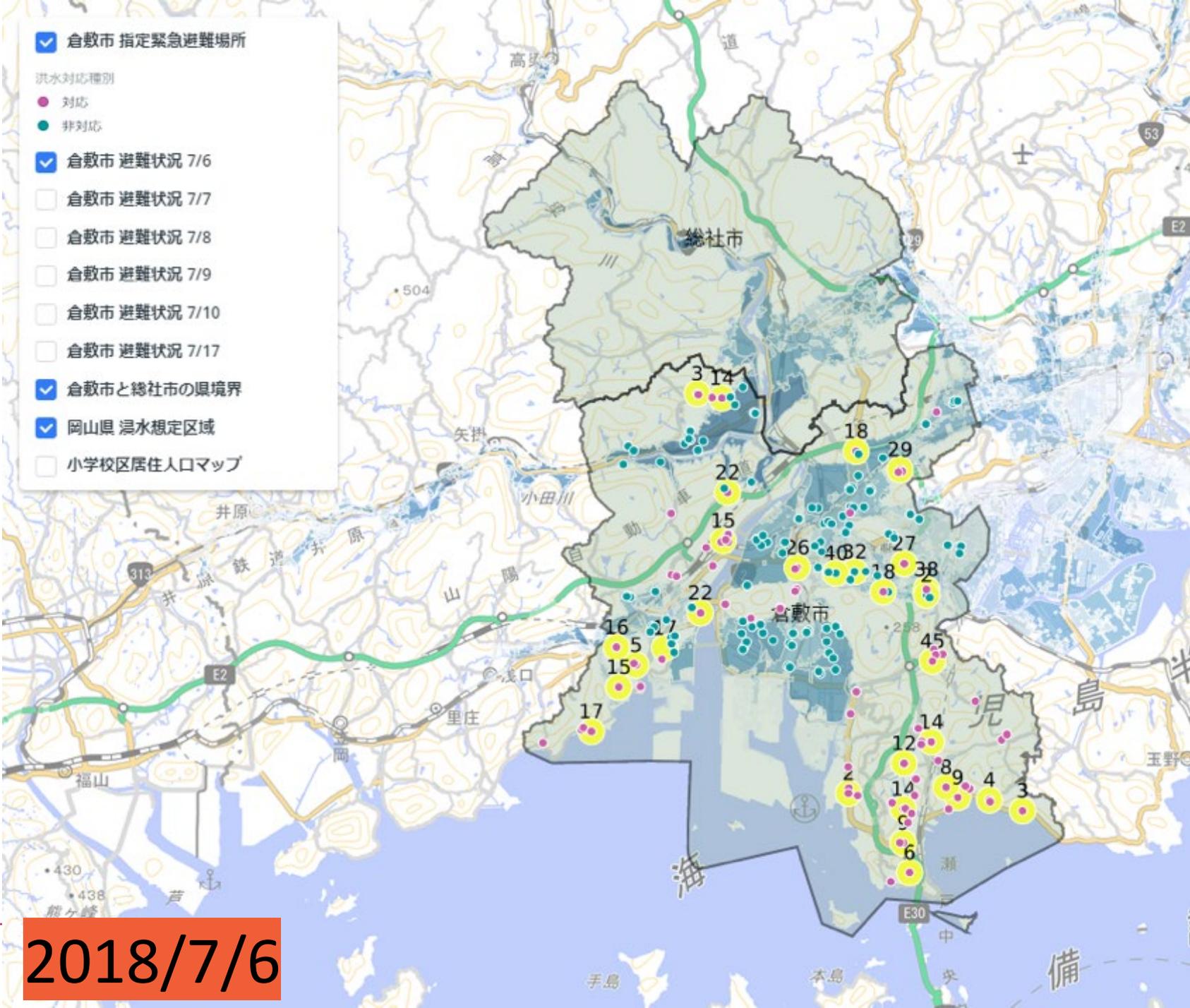
Night

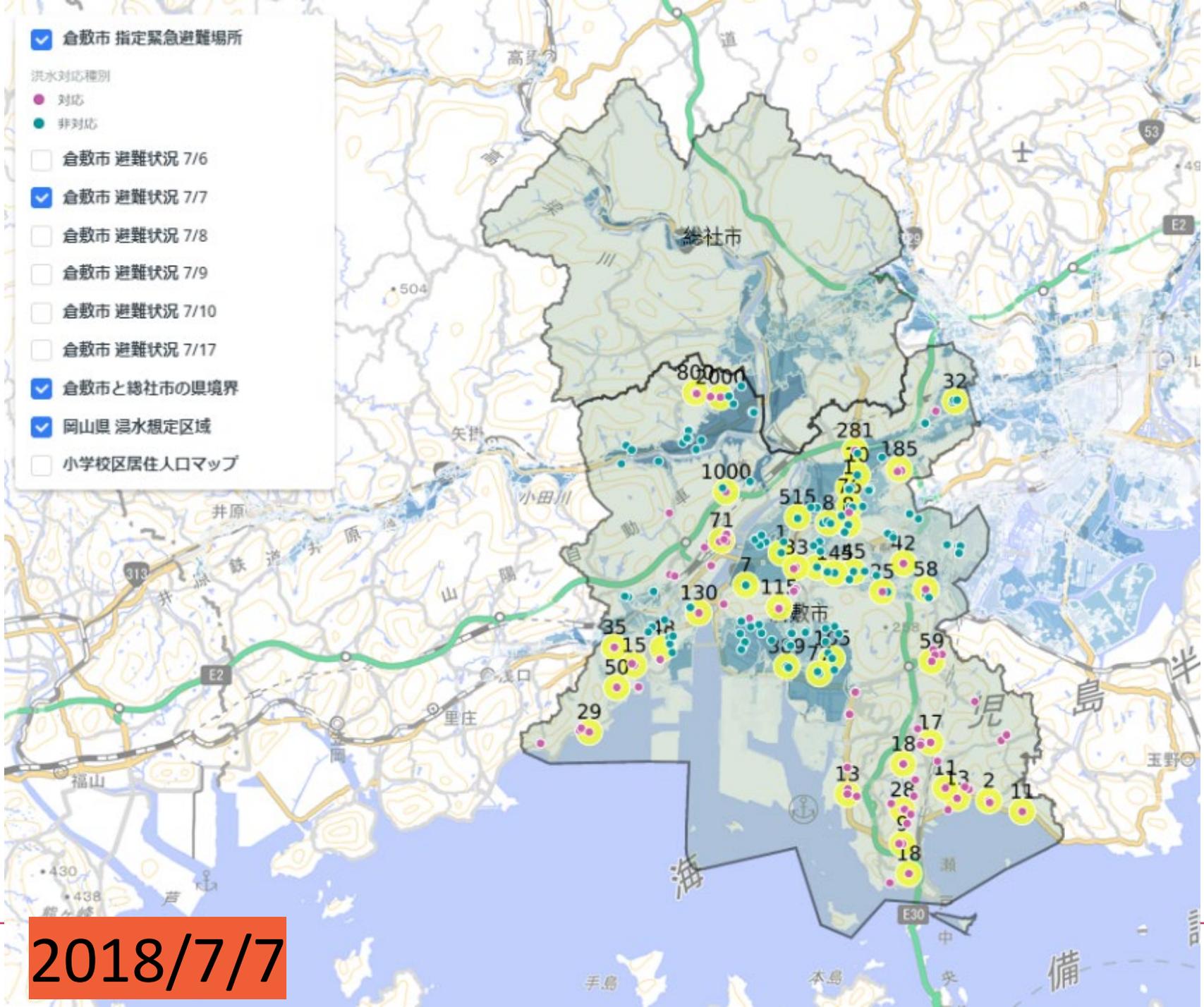




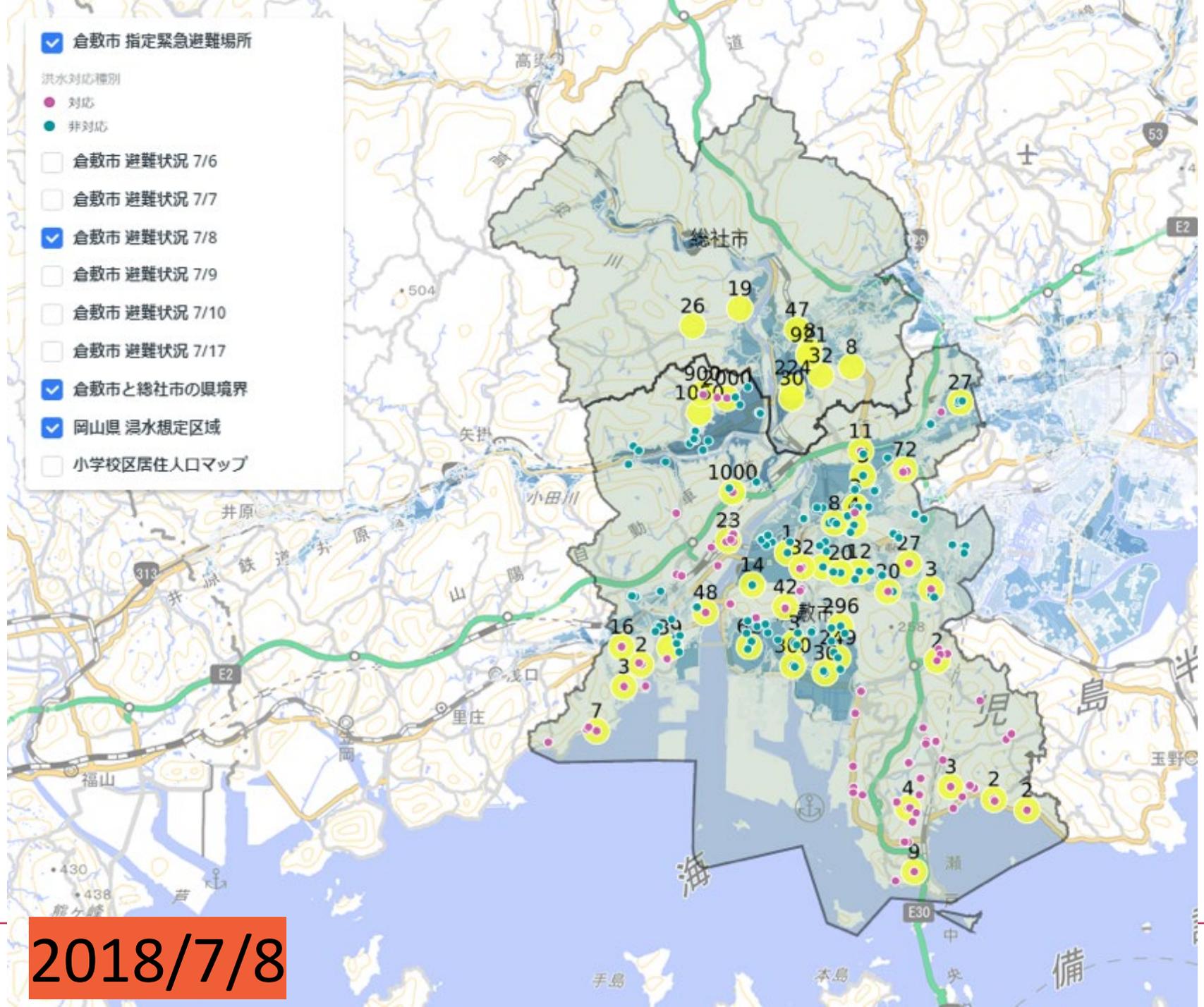


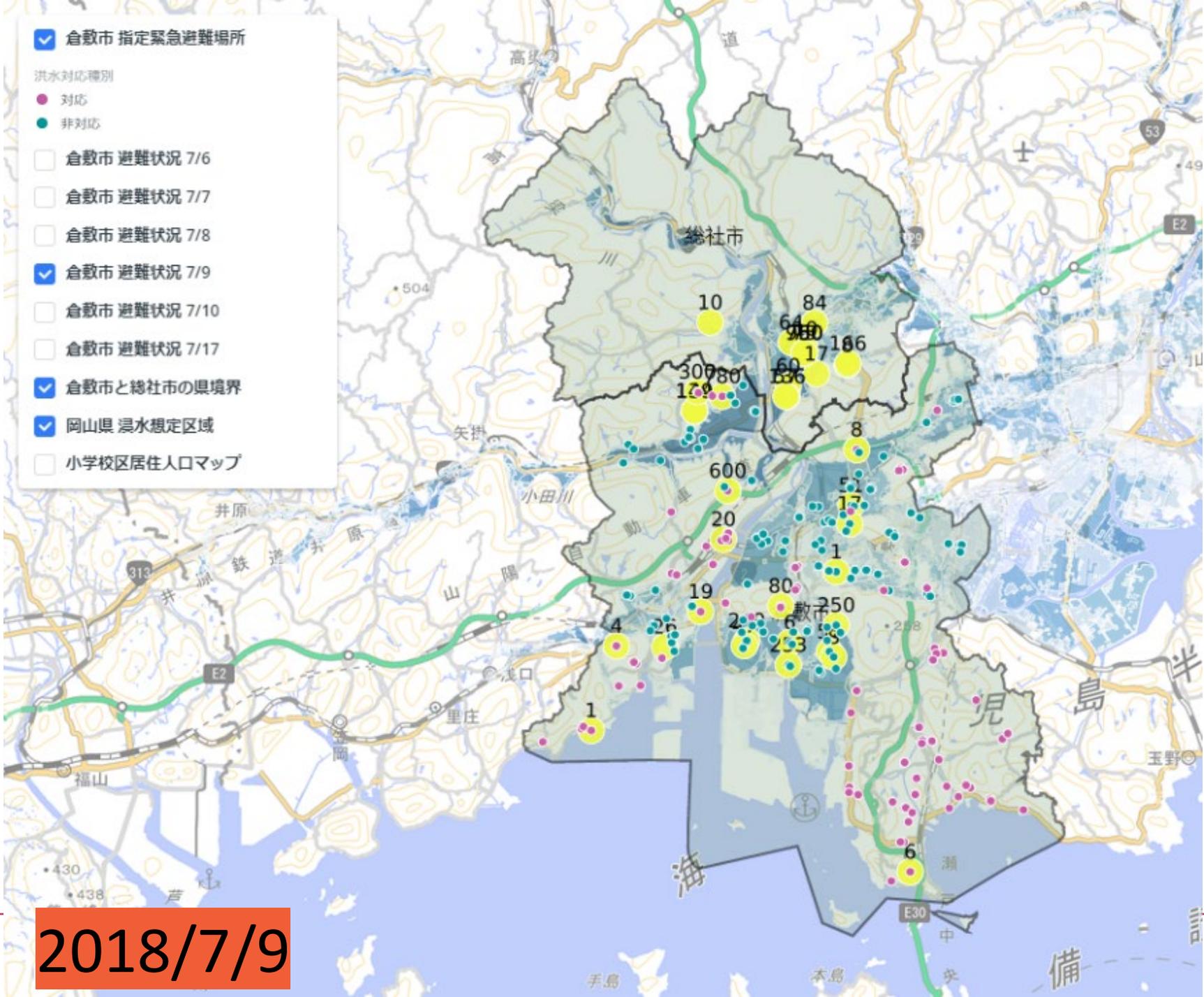
- 倉敷市 指定緊急避難場所
- 洪水対応種別
 - 対応
 - 非対応
- 倉敷市 避難状況 7/6
- 倉敷市 避難状況 7/7
- 倉敷市 避難状況 7/8
- 倉敷市 避難状況 7/9
- 倉敷市 避難状況 7/10
- 倉敷市 避難状況 7/17
- 倉敷市と総社市の県境界
- 岡山県 洪水想定区域
- 小学校区居住人口マップ





- 倉敷市 指定緊急避難場所
- 洪水対応種別
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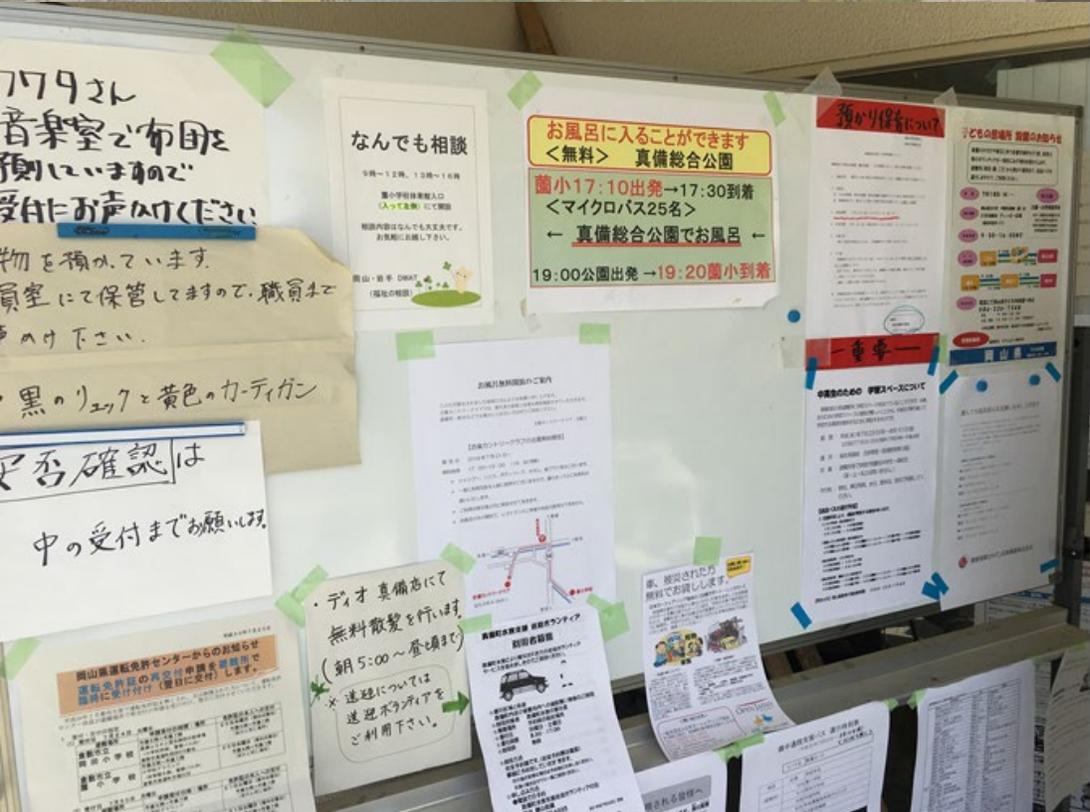
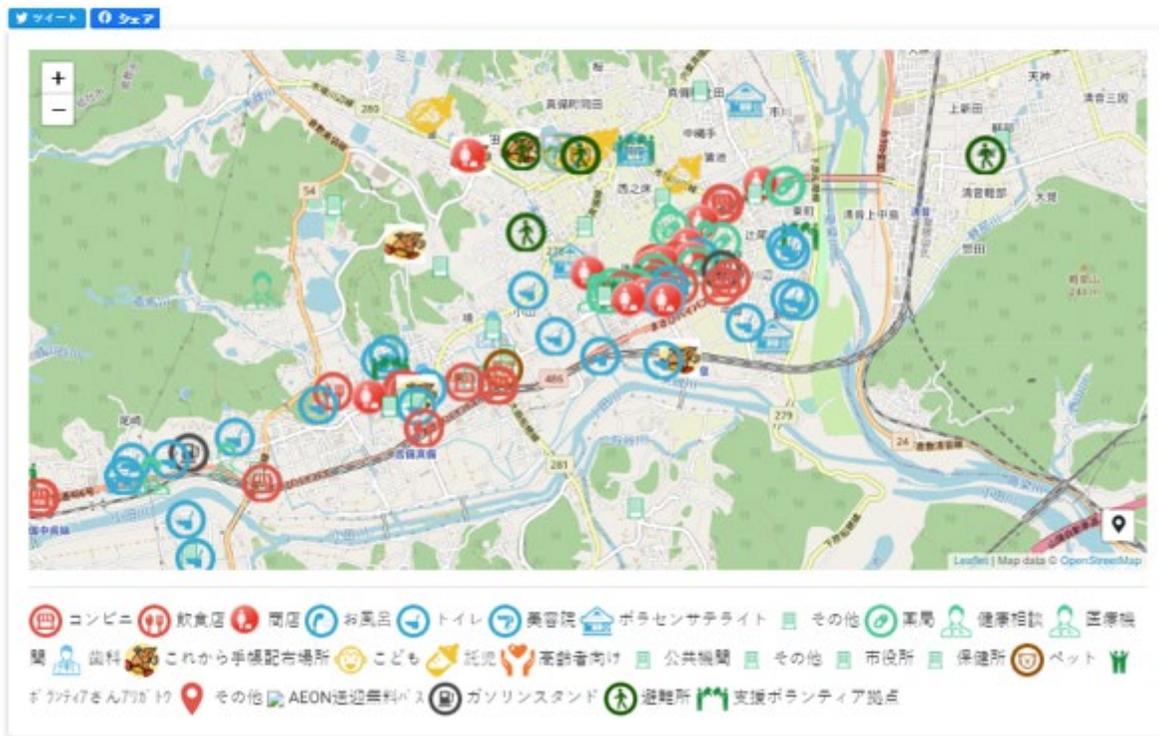




まびケア

まびケアについて 地図から探す お知らせ 目的から探す リンク お役立ち情報

地図から探す



EpiNurse[®]



Visualization and Accessibility From Local

Special Innovation Award in collaboration with Ash Center, HKS, Harvard

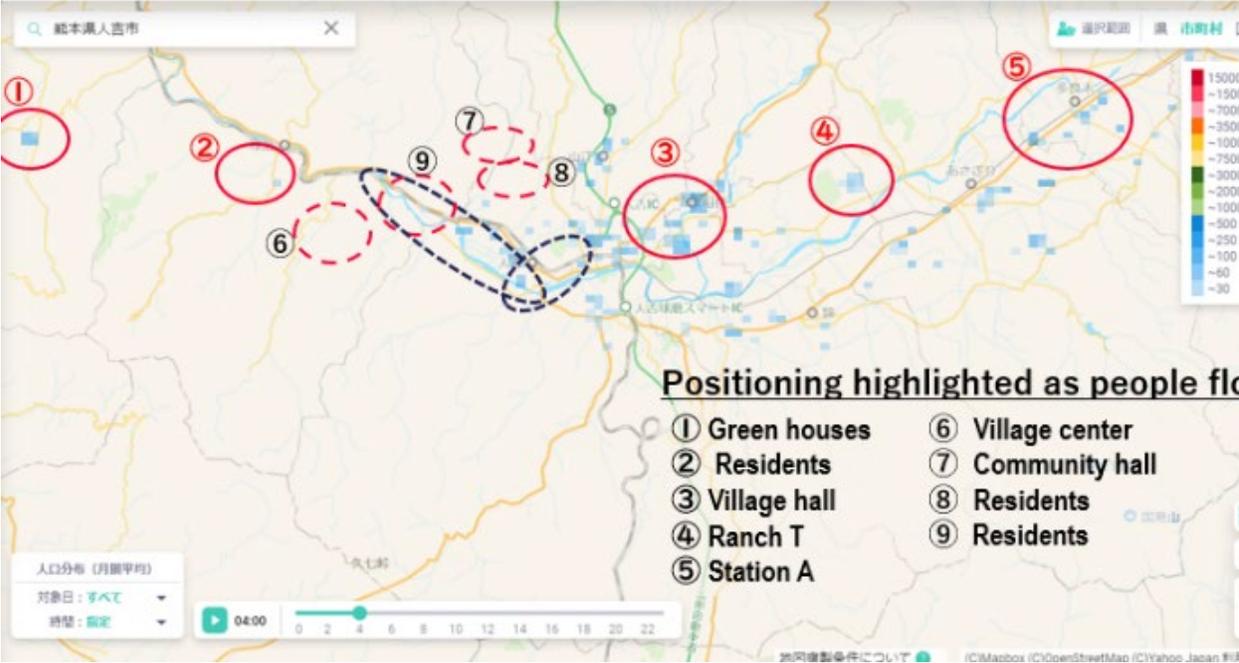
「まびケア」運営チーム

岡山県倉敷市 5. 防災・防犯

地域課題：災害対応力の強化

アイデア名：避難所情報充実と避難計画支援システム構築（これからのまびケア）

Survivors was dispersed across the boarder



Methodology and Application of Spatial Vulnerability Assessment for Evacuation Shelters in Disaster Planning

by  Hiranya Sritart ^{1,*}  Hiroyuki Miyazaki ^{1,2}  Sakiko Kanbara ³ and  Takashi Hara ⁴

¹ School of Engineering and Technology, Department of Information and Communication Technologies, Asian Institute of Technology, Post Box No 4, Pathumthani 12120, Thailand

² Center for Spatial Information Science, Tokyo University, Chiba 277-8568, Japa

³ Faculty of Nursing, University of Kochi, Ike Kochi 2751-1, Japan

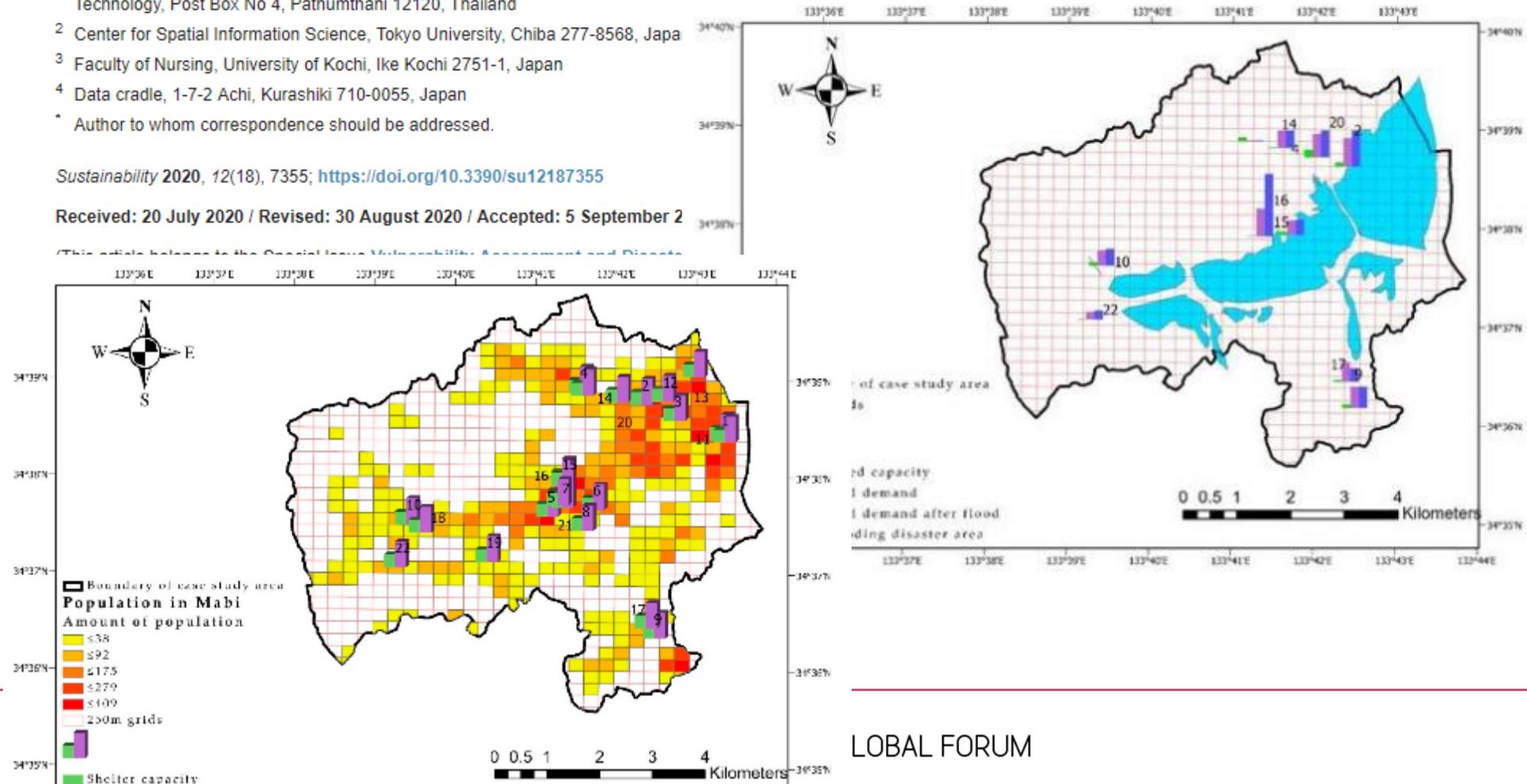
⁴ Data cradle, 1-7-2 Achi, Kurashiki 710-0055, Japan

* Author to whom correspondence should be addressed.

Sustainability 2020, 12(18), 7355; <https://doi.org/10.3390/su12187355>

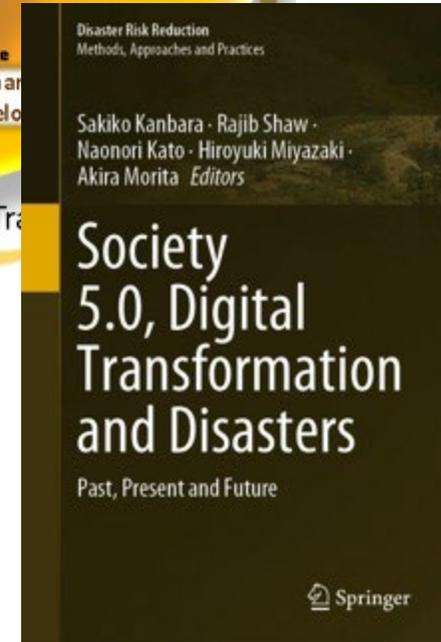
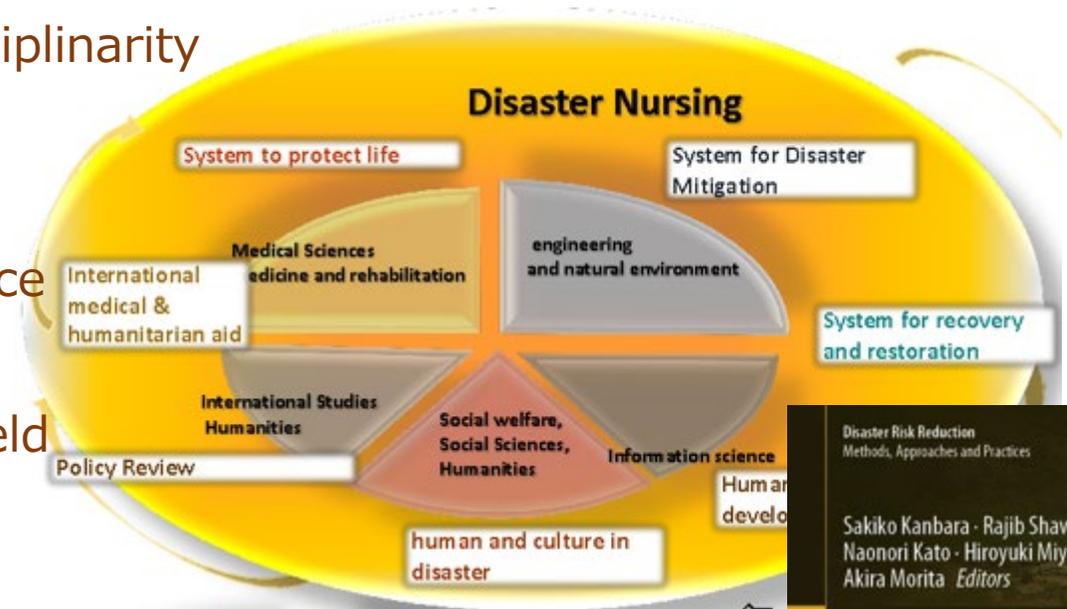
Received: 20 July 2020 / Revised: 30 August 2020 / Accepted: 5 September 2020

(This article belongs to the Special Issue Vulnerability Assessment and Disaster



Work with the ISC to advance science as a global public good

1. From Interdisciplinary Collaboration to Transdisciplinarity
2. Knowledge Society Platform
3. Open Governance and Open Data
4. Grassroots Process Innovation and Citizen Science
5. Youth Leadership
6. Science Preneurship as a Newly Developing Field



Not watch the “Hazard” but how to understand “Severe local health risk”



Flood on AR



Smoke on AR

EarthQuake Experience with VR



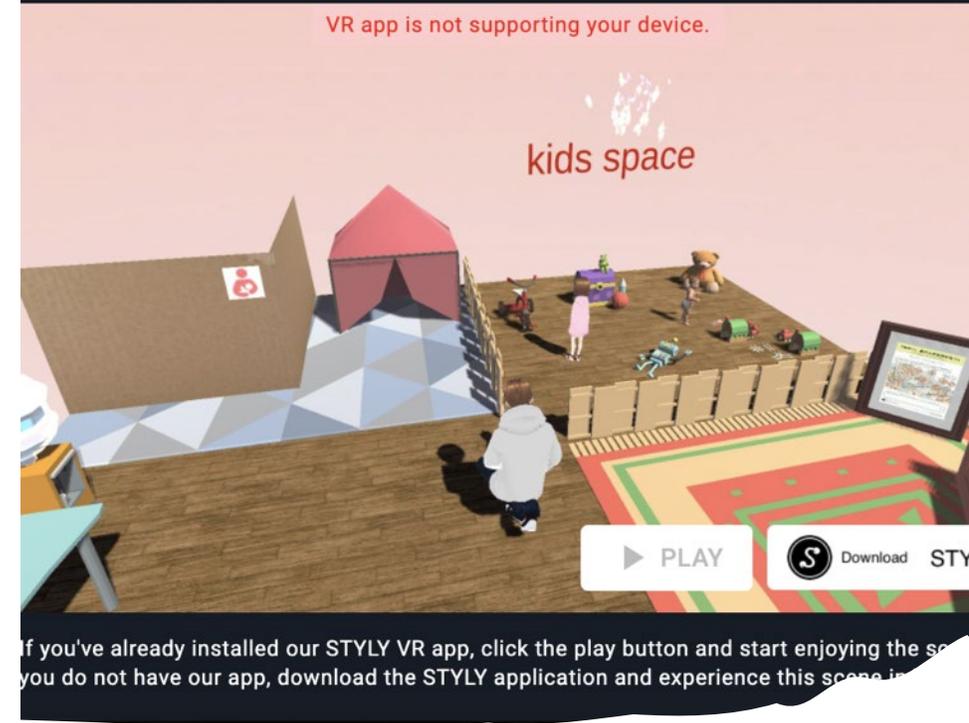
Immersive experience of Snow

	Flooding	Fire & Smoke	Earthquake
AR	Extremely well	Extremely well	Not at all
VR	Moderately well	Moderately well	Extremely well

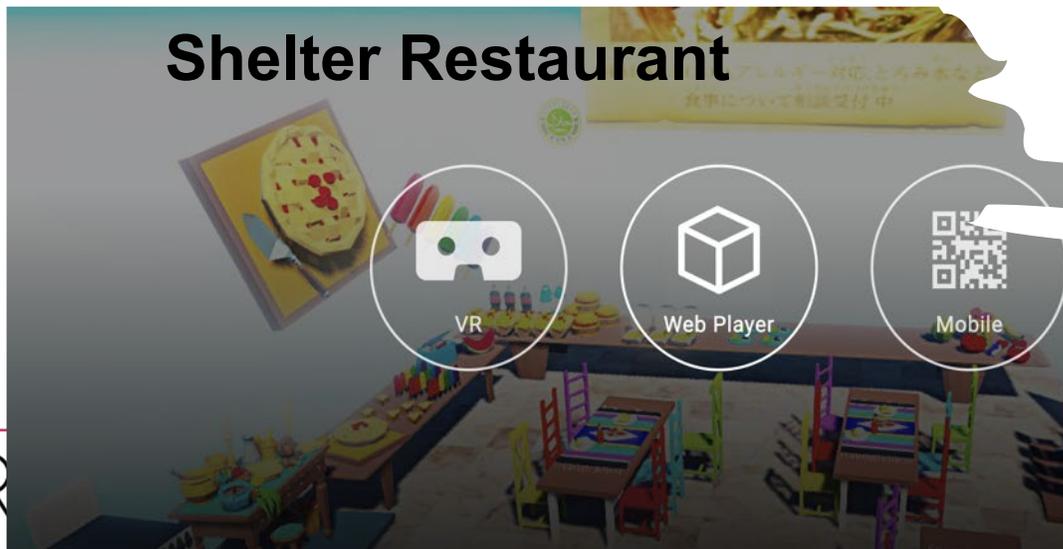
Various Shelter



5x5 familiroom



Shelter Restaurant

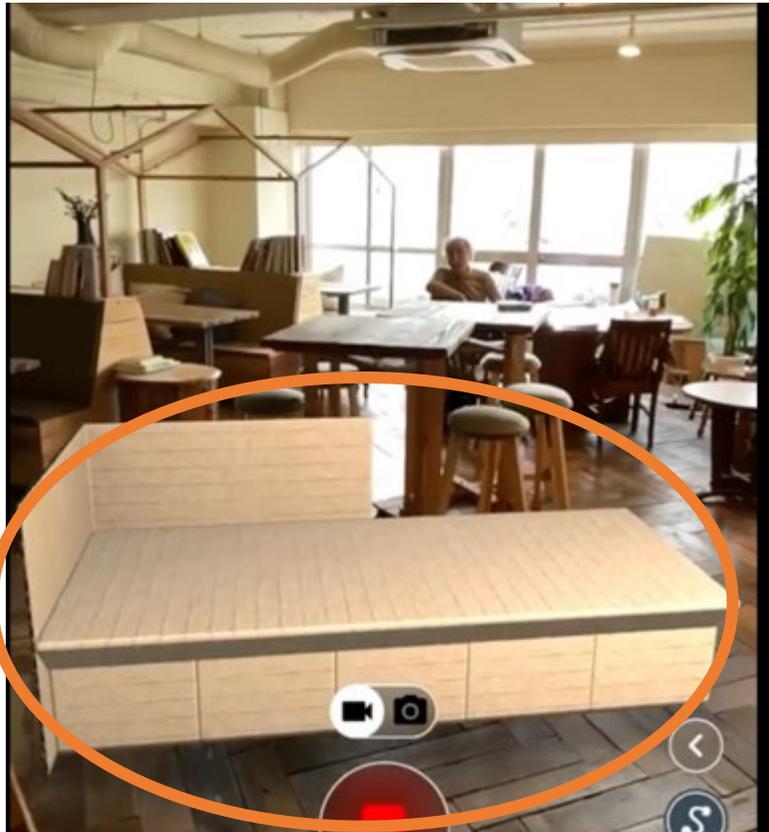


What is Wellbeing?
Who is community ?
How much is the risk?
Where is secure?

5x5m² Virtual Shelter

by Nursing within STYLY, June 16, 2024

Act with local
Co-create “Risk Perception” Among
globally for locally with diversity for inclusion



Transforming Global Learning International Exchange > Global Learning Commons

Save the date. Call for the proposal will start April.

The 8th International Research Conference of World Society of Disaster Nursing

Main Theme: Rethinking Disaster Nursing in the Changing Risk Landscape

-Primary Health Care to Social Innovation for planetary health

Dates; November 29 (Fri.) December 1 (Sun.) 2024

Venue; Kobe City College of Nursing

Topics : Climate change / Blue-Green Infrastructure / Food Energy Water (FEW) Nexus / Urban Planning / Disaster Management/Sustainable Health Service and Care /Connect to Excursion Learning from Community/ Citizens and Communities/Leadership and Human Capital/Healthcare and Life Plan

Chair: Prof. Sakiko Kanbara (Kobe City College of Nursing / Japan Society of Disaster Nursing)



Theme: Rethinking Disaster Nursing in a Changing Risk Environment

Local civic activities Human Resource Development (Self-Care)

With ample funding and evidence, we work with local experts in various fields and governments to create a new society.



Diversity develops organically over time, and the more niches there are for the diversity of life and means of living, the greater the power that holds their community.

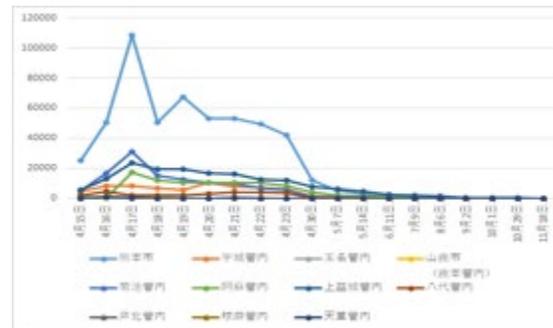
“

Master Plan, Regional Prosperity and People's Hope will be true

- People who live there can think about "What would be a comfortable future for us?"
- Community is continuously supporting each other economically and socially
- Each individual can envision their destination where the two axes of cultural genealogy and personal upbringing are blended together

”

For People and the Environment Development of well-being disaster prevention measures (Primary Healthcare/Public Health)



From identifying the causes of disaster-related deaths to providing information to companies, we will build relationships so that correct information leads to mutual benefits, and maximize the effectiveness of prevention.

Social Implementation through Transdisciplinary Research and Citizen Science Global Health Planetary Health

Global collaboration
(Subcategory)

9. Climate change
8. Blue-Green Infrastructure
- 7 Food Energy Water (FEW) Nexus
6. History and future of the city
5. Disaster Management
4. Sustainable Business
3. Citizens and Communities
2. Leadership and Human Capital
1. Healthcare and Life Plan

From Closed Discussion to Open Science and Open Governance For Primary Health Care to Social Innovation for Planetary Health

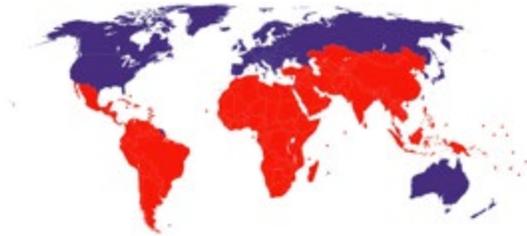
**Sharing evidence for the future
@Kobe City College of Nursing**



**Case Visualization
@City Excursions**



**Networking with Glocal Society
@online**



Main Program (Paid)

Researchers share local examples and practical methods

Excursion (City Digital Passport)

Visualization, guidance, and co-creation using community data, GIS, and X

Generalization by participants in each country



Social Programs (Off-Campus Exhibitions)

Exhibition & Dialogue

Open Governance

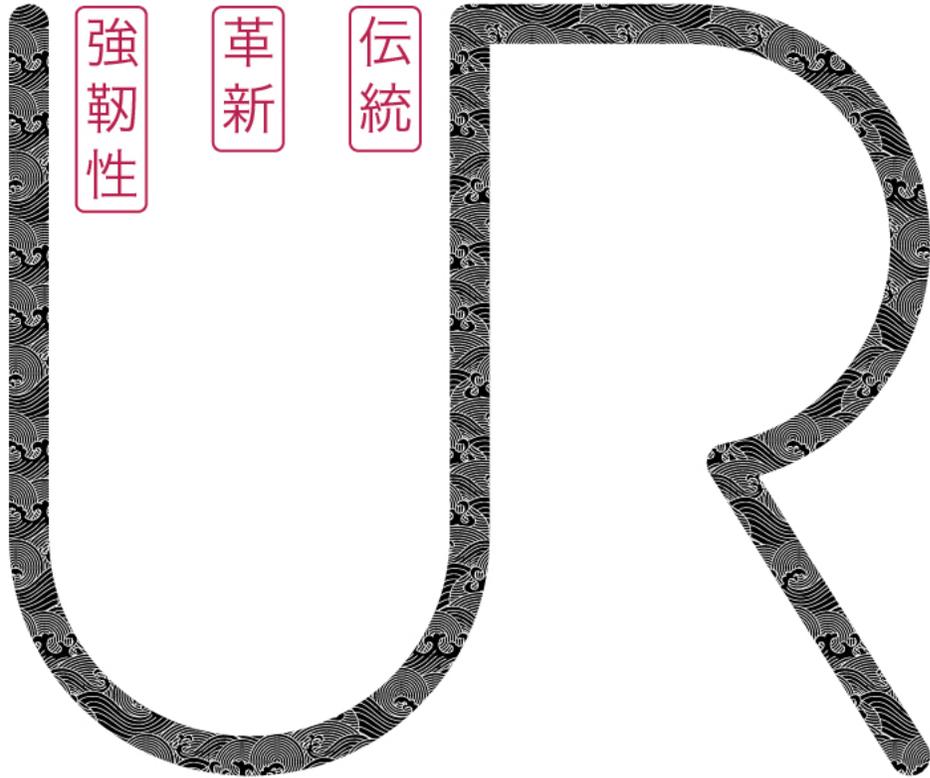


Development into Social Innovation

Supporting activities through data

Practical reports by young people and dialogue with citizens





TRADITION • INNOVATION • RESILIENCE

Thank you !

Logos: