FORMAT			
1. Name of resource	**Disaster Museums in Japan: telling the stories of disasters before and after 3.11**		
2. Location	https://www.jstage.jst.go.jp/article/jdr/16/2/16_146/_pdf		
3. Alternative location			
4. Author[s]	E. Maly and M. Yamazaki		
5. Publisher/producer/ host	Journal of Disaster Research		
6. Year	2021		
7. Suggested citation	Maly, E. and M. Yamazaki (2021). Disaster Museums in Japan: telling the stories of disasters before and after 3.11. Journal of Disaster Research 16(2): 146-156, available at https://www.jstage.jst.go.jp/article/jdr/16/2/16_146/_pdf		
8. Languages in which available	English		
9. Geographic area resource relates to	Japan, with wider relevance		
10. Does the resource relate to a specific time frame?			
11. Type	Report		Yes
	Toolkit/Framework/Roadmap		
	Sign-post to other resource (database)		
	Case studies		Yes
	Other		Survey
12. If this is part of an initiative, what is the initiative?			
COLLECTIONS AND COLLECTIONS-BASED INSTITUTIONS			
13. Explicit links to collections	Yes		
14. Explicit links to museums/libraries/a rchives	Yes		
15. Types of institutions the resource covers	Museums		X
	Archives		X
	Libraries		X
	Other		X
16. Does the resource relate to specific disciplines?	Arts, humanities and social sciences: philosophy, psychology, religion, social sciences, law, politics, language, arts and recreation, architecture,	X	

	literature, history, geography and ethnology, anthropology, archaeology	
	Science, natural history, technology, medicine, engineering, manufacturing	X
17. If no explicit links to collections, justification for inclusion		

HOW IT CONTRIBUTES TO SUSTAINABLE DEVELOPMENT	
18. Collections-related activities the resource relates to (mark all that apply)	
Develop collections to protect and safeguard wider cultural and natural heritage more effectively, for example by targeting collecting to threatened forms of heritage in strategic ways	X
Use collections to promote learning and educational opportunities that contribute to sustainable development more effectively, for example education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development and/or skills development relating to collections	X
Use collections to promote cultural participation/social inclusion more effectively, for example by reducing barriers to participation, to ensure no-one is 'left behind'	X
Use collections to promote sustainable tourism more effectively, for example by developing new products based on local cultural heritage, and/or considering the rights of stakeholder groups in relation to collections	X
Use collections to support research that contributes to sustainable development (including all forms of personal and self-directed research at all levels that make use of stored collections) more effectively, for example by providing effective facilities, collections and information to meet researchers' needs	X
Make decisions around collections that contribute to sustainable development more effectively	
i. employment (recruiting, staff training, staff safety)	
ii. energy consumption, greenhouse gas emissions, reduction, monitoring and reporting	
iii. waste management and reduction of waste	
iv. transport (forms of transport, energy use)	
v. commercial activities including copyright and IP	
vi. governance and management	X
vii. security, disaster preparedness and risk reduction	X

Direct external leadership, partnerships and collaborations towards sustainable development more effectively, for example by developing impactful partnerships	
19. Does the resource relate clearly to any international conventions (mark all that apply)?	
Culture conventions:	
1952, 71 Protection of Copyright and Neighbouring Rights	
1954 Protection of Cultural Property in the Event of Armed Conflict	
1970 Fighting Against the Illicit Trafficking of Cultural Property	
1972 Protection of the World Cultural and Natural Heritage	
2001 Protection of the Underwater Cultural Heritage	
2003 Safeguarding of the Intangible Cultural Heritage	
2005 Protection and Promotion of the Diversity of Cultural Expressions	
Rio Conventions:	
Convention on Biological Diversity (CBD), Convention to Combat Desertification (UNCCD), Framework Convention on Climate Change (UNFCCC)	X
AIMS AND CONTENT	
20. What issues does the resource aim to address?	"Japan has an established tradition of museums commemorating its long history of disasters, which memorialize lives lost and convey the scientific mechanisms of natural hazards, disaster history, and people's experiences during and after disasters. The first part of this paper provides an overview of seven modern disaster museums in Japan established before 3.11, starting from the museum of the 1923 Great Kanto Earthquake. These seven museums commemorate disasters of different types, time, and scales of damages. Considering their shared commonalities and individual characteristics, it describes the components and approaches of exhibits that these museums use to convey experiences and stories of disasters, passing on local knowledge toward future disaster risk reduction. The second part of the paper provides an overview of new museums and exhibit facilities established to commemorate the 3.11 Great East Japan Earthquake, tsunami, and nuclear disaster of March 11, 2011. The scale of the devastation of 3.11, as well as an explosion of interest and support for activities of memorialization, documentation, and exhibition, has resulted in a variety and decentralization of new museums and exhibit spaces throughout the area affected by the 3.11 disaster. Spanning various combinations and types of exhibit facilities, this paper concludes by considering

	emergent trends compared to pre-3.11 disaster museums and potential future development.”
21. Intended audience of resource	[Disaster museums, researchers working on disasters and museums]
22. Process of development	
23. Organisation/structure/contents	**1. Introduction** **2. Disaster museums pre 3.11** **3. Museums after 3.11** **4. Comparing pre- and post-3.11 museums and future directions**
FRAMEWORKS	
24. Framework structure	
25. Relevant policy considerations	Yes
26. Resources for implementation identified	Yes
27. Specific assessment points/indicators/milestones/action plan for monitoring	No
28. ASPECTS OF SUSTAINABILITY COVERED BY RESOURCE (mark all that apply)	
People (social sustainability)	X
Planet (environmental sustainability)	X
Prosperity (economic sustainability)	X
Peace	X
Partnerships	X
29. CROSS-CUTTING CONSIDERATIONS COVERED BY RESOURCE (mark all that apply)	
Gender perspectives	
North and South perspectives	
HOW THE RESOURCE CONTRIBUTES TO AGENDA 2030 AND THE SDGs	
HOW AGENDA 2030 AND THE SDGs FEATURE IN THE RESOURCE	
30. SDGs and Agenda 2030 specifically mentioned?	No
31. SDGs specifically mentioned?	No
32. SDG targets specifically mentioned?	No

33. SDG indicators specifically mentioned?	No

SDGs AND SDG TARGETS AND LINKAGES

34. Comments on SDG linkages	The resource is most closely related to SDGs around Disaster Risk Reduction, planning and inclusion, including SDGs 1.5 (reduce the vulnerability of the poor to climate and other hazards), 3.D (preparation for health emergencies), 4.7 (Education for Sustainable Development), 8.9 (sustainable tourism), 9.1 (sustainable infrastructure), 9.5 (support for scientific research), 10.2 (universal social inclusion), 11.4 (protect and safeguard cultural and natural heritage), 11.5 (reduce the impact of disasters), 11.7 (access to safe and welcoming green and public spaces), 11.A (urban-rural connections), 11.B (Implement policies for inclusion, resource efficiency and disaster risk reduction), 12.8 (information for sustainable development and lifestyles in harmony with nature), 13.1 (Strengthen resilience and adaptive capacity to climate related disasters), 13.3 (Build knowledge and capacity to meet climate change), 16.7 (inclusive decision making), and 16.10 (protect the right to information).

35. SDGs and SDG targets the resource helps advance

SDG 1: End poverty in all its forms everywhere 1.5 By 2030, build resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters.	Number of collecting programmes that aim to build resilience to climate-related events and other shocks and disasters, for example by forming collections that can contribute to related educational and research programmes. Number of educational programmes drawing on collections that incorporate resilience perspectives. Number of targeted programmes drawing on collections that are aimed at vulnerable groups, to build their resilience to climate-related and other shocks and disasters. Number of research programmes drawing on collections that are aimed at building resilience to climate-related and other shocks and disasters. ***Strengthen the resilience of employees, communities and suppliers by paying at a minimum the living wage and offering insurance to employees and their families, such as accident insurance; and by paying fair prices to all suppliers***

SDG 3: Ensure healthy lives and promote well-being for all at all ages 3.D Strengthen the capacity of all countries, in particular developing countries, for early warning, risk reduction and management of national and global health risks.	Number of collecting initiatives that aim to build capacity for risk reduction to national and global health risks, for example by storing and preserving collections that may be of use in post-disaster scenarios, or that can be used in early warning and risk communication activities. Number of educational programmes incorporating perspectives on early warning, risk reduction and management of national and global health risks. Number of awareness raising programmes that target marginalized and vulnerable groups most exposed to health risks. Plans in place for early warning, risk reduction and management to national and global health risks. Relationships and partnerships in place for risk reduction and management in light of national and global health risks.
SDG 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all 4.7 By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development	Numbers of people in each type of programme drawing on collections from different demographic groups. Increases in numbers of people in each type of programme from different demographic groups. Proportion of people involved in such programmes in relation to overall audience size. Evidence that learners have acquired knowledge and skills to promote sustainable development.
SDG 8. Promote sustained, inclusive and sustainable economic growth, full and	

productive employment and decent work for all 8.9 By 2030, devise and implement policies to promote sustainable tourism that creates jobs and promotes local culture and products	Numbers of jobs created or supported that relate to sustainable tourism drawing on local products (e.g. craft producers). Develop and implement plans to reduce and remove negative impacts of tourism. Numbers of activities and/or products drawing on local culture. Value to artisans and source communities of activities and products drawing on local culture.
SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation 9.1 Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all	Development of research-useful collections to support reliable, sustainable and resilient use by researchers and others. Number and proportion of collections facilities and stores that support economic development and human well-being. Number and proportion of collections facilities and stores that provide affordable and equitable access for all. Investment in collections facilities. Inclusion of collections information in regional and transborder initiatives, notably via digital access for discoverability.
SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization 9.5 Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, encouraging innovation and substantially increasing the number of research and development workers per 1 million people and public and private research and development spending	Number and proportion of collections facilities that effectively support research and researchers. Number and proportion of staff who are appropriately skilled to undertake and support collections-based research. Expenditure on initiatives to enhance and upgrade collections facilities. Numbers of staff engaged in supporting and developing research use based on collections. Number of initiatives to encourage innovation drawing on collections. Increase in number of research and development workers per 1 million people.

	Increase in public and private research and development spending being used to develop and make use of collections.
SDG 10. Reduce inequality within and between countries 10.2 By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status	Collections development to ensure that collections effectively meet the needs of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status. Number and proportion of educational and participatory programmes that promote participation irrespective of social or other status. Numbers and proportions of people making use of collections in relation to the demographic of the local population. Numbers and proportions of people involved in focused programmes aimed at promoting social, economic and political inclusion. Numbers and proportions of people from different demographic groups involved in decision-making processes relating to collections and collections-based institutions. Number and types of partnerships that build relationships with marginalized groups, individuals and communities.
SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable 11.4 Strengthen efforts to protect and safeguard the world's cultural and natural heritage	*11.4.1 Total expenditure (public and private) per capita spent on the preservation, protection and conservation of all cultural and natural heritage, by type of heritage* Plans, policies and procedures in place for the safe use of collections for a variety of purposes, protecting and safeguarding both collections and those who use them. Plans, policies and procedures in place for the identification, safeguarding and protection of cultural and natural heritage at risk. Collecting programmes in place to protect, safeguard and make use of cultural and natural heritage, addressing the needs of communities and stakeholders, and ensuring that collections can be an effective resource for sustainable development. Number and diversity of educational, awareness-raising, research programmes, and partnerships that aim to strengthen protection of cultural and natural heritage.

SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable 11.5 By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations	Collections-based research that supports the understanding and management of disasters of all kinds. Plans in place for public education and awareness drawing on collections and collections-based institutions to reduce exposure and vulnerability to disasters of all kinds. Plans in place to ensure collections-based institutions steadily work to reduce their contributions to disaster risk, for example by reducing pollution and waste of all kinds. Plans in place to ensure collections-based institutions, and people related to them (including workers) are protected from economic losses as a result of disasters. Plans in place to provide special support/protection to poor and vulnerable people and groups in and following disasters.
SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable 11.7 By 2030, provide universal access to safe, inclusive and accessible, green and public spaces, in particular for women and children, older persons and persons with disabilities	Numbers of people accessing collecting institutions from different demographic groups, notably women, children, older people and persons with disabilities. Increases in numbers of people accessing collecting institutions from different demographic groups. Measures taken to remove barriers to access green and public spaces. Extent of green space provided by collections institutions.
SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable 11.A Support positive economic, social and environmental links between urban, peri-urban and rural areas by strengthening national and regional development planning	Considerations of regional economic, social and environmental trends and risks incorporated into collecting institutions' planning. Participation in local and regional planning, to foster access to services, cultural participation, prevent exclusion, and support equitable urbanisation. Ensure data collection and metrics can be useful for planning in conjunction with other sectors and between urban and rural areas. Number of outreach and other activities that promote awareness and accessibility of collecting institutions in urban

	and rural areas, and that promote awareness of regional development plans and risks, with opportunities for people and communities to input into such plans.
SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable 11.B By 2020, substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans towards inclusion, resource efficiency, mitigation and adaptation to climate change, resilience to disasters, and develop and implement, in line with the Sendai Framework for Disaster Risk Reduction 2015-2030, holistic disaster risk management at all levels	***11.B.1 Proportion of local governments that adopt and implement local disaster risk reduction strategies in line with the Sendai Framework for Disaster Risk Reduction 2015-2030a*** Disaster Risk Reduction strategies and plans in place, in line with the Sendai Framework for Disaster Risk Reduction, to ensure collecting institutions and collections are factored into planning, and contribute effectively to Disaster Risk Reduction.
SDG 12 Ensure sustainable consumption and production patterns 12.8 By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature	***12.8.1 Extent to which (i) global citizenship education and (ii) education for sustainable development (including climate change education) are mainstreamed in (a) national education policies; (b) curricula; (c) teacher education; and (d) student assessment*** Extent to which global citizenship education and education for sustainable development (including climate change education) are mainstreamed in formal, informal and non-formal education programmes and activities drawing on and related to collections.
SDG 13. Take urgent action to combat climate change and its impacts 13.1 Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries	Plans in place for near and longer term to withstand and actively adapt to climate-related hazards and natural disasters.

SDG 13. Take urgent action to combat climate change and its impacts 13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning	Plans in place to enhance positive contributions to addressing climate change through use of collections. Plans in place to ensure collections, collections institutions and broader society can adapt effectively to climate change. Plans in place for effective education and awareness raising on climate change mitigation, adaptation, impact reduction and early warning. Plans in place to reduce negative contributions of collections-related functions, e.g. measuring greenhouse emissions with plans and targets in place to reduce them.
SDG 16. Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels. 16.7 Ensure responsive, inclusive, participatory and representative decision-making at all levels	*16.7.1 Proportions of positions (by sex, age, persons with disabilities and population groups) in public institutions (national and local legislatures, public service, and judiciary) compared to national distributions* *16.7.2 Proportion of population [audience/users/non-users] who believe decision-making is inclusive and responsive, by sex, age, disability and population group* Decision-making addresses societal, environmental and economic challenges related to the community, considering short-term and long-term risks and opportunities. Decision-making draws on diverse backgrounds, viewpoints and interests, reflecting a broad base of stakeholders, and working to promote inclusion and provide effective services for all of society.
SDG 16. Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels. 16.10 Ensure public access to information and protect fundamental freedoms, in accordance with national legislation and international agreements	Adopt and implement constitutional, statutory and/or policy guarantees for public access to information. Plans in place, and plans implemented to enhance public access to information relating to collections. Plans in place, and plans implemented to support fundamental freedoms, in line with human rights, national and international agreements and legislation. Plans and procedures in place for public access to information relating to the operation and management of collections-based institutions.

		Complaint mechanism in place for public to use where public access to information and fundamental freedoms not supported or fulfilled.			
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	