

FORMAT		
1. Name of resource	Museums and Disaster Risk Reduction: building resilience in museums, society and nature	
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8. Languages in which available	English	
9. Geographic area resource relates to	Global	
10. Does the resource relate to a specific time frame?	2015-30	
11. Type	Report	Yes
	Toolkit/Framework/Roadmap	Yes
	Sign-post to other resource (database)	
	Case studies	Yes
	Other	
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/archives	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	X

	recreation, architecture, 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	X	
i. employment (recruiting, staff training, staff safety)	X	
ii. energy consumption, greenhouse gas emissions, reduction, monitoring and reporting	X	
iii. waste management and reduction of waste	X	
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	X
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	X
1970 Fighting Against the Illicit Trafficking of Cultural Property	X
1972 Protection of the World Cultural and Natural Heritage	X
2001 Protection of the Underwater Cultural Heritage	X
2003 Safeguarding of the Intangible Cultural Heritage	X
2005 Protection and Promotion of the Diversity of Cultural Expressions	X
Rio Conventions:	
Convention on Biological Diversity (CBD), Convention to Combat Desertification (UNCCD), Framework Convention on Climate Change (UNFCCC)	
AIMS AND CONTENT	
20. What issues does the resource aim to address?	<p>“This Guide aims to help empower museums (small, large and of any kind, anywhere), museum workers, museum networks and their partners to draw on Disaster Risk Reduction approaches. This should help them reduce the impact of disasters, whether COVID-19, climate change, or any other kind of disaster, for the benefit of themselves, their communities, and the natural environment.</p> <p>So, the Guide has two main goals: To help museums build their resilience, and reduce the impact of disasters on museums themselves.</p> <p>To help museums contribute to resilience-building in the wider world, for the benefit of society and the natural environment.</p> <p>Many museums already consider disaster risk in terms of protecting their own buildings and collections. This Guide takes a broader perspective, that museums can play a key role in supporting people, communities, the whole of society and nature, to prevent or mitigate disasters in the wider world. Making a difference in the world is, arguably, the best way for museums to be resilient as organizations.” (p.7)</p>
21. Intended audience of resource	<p>“The intended readership of this Guide is:</p> <ul style="list-style-type: none"> those who have named responsibility for museums, including directors, managers, trustees and

	<p>governors</p> <ul style="list-style-type: none"> • museum associations and training bodies • museum funders • museum staff of all kinds, as they all have a role to play in Disaster Risk Reduction • partner organizations and networks • anyone involved in Disaster Risk Reduction or disaster planning for communities, towns and/or the natural environment.” (p.7)
22. Process of development	Authored guide.
23. Organisation/structure/contents	<p>06 Section 1: Introduction</p> <p>06 Introduction and Aims</p> <p>08 Using This Guide With ‘Museums and the Sustainable Development Goals’</p> <p>10 Section 2: Risk and Sustainability</p> <p>11 The Importance of Disaster Risk Reduction for a Sustainable Future</p> <p>12 The Sustainable Development Goals and the Sendai Framework for Disaster Risk Reduction</p> <p>15 Section 3: Understanding Risk</p> <p>16 Understanding Disasters and Disaster Risk</p> <p>20 The Disaster Risk Reduction Spiral</p> <p>22 Sources of Disaster Risk</p> <p>23 Global Risks</p> <p>28 Disaster Risk Reduction is a Human Right</p> <p>30 Section 4: Museums and Disaster Risk Reduction</p> <p>31 Why Should Museums Contribute to Disaster Risk Reduction?</p> <p>32 How Can Museums Contribute to Disaster Risk Reduction?</p> <p>56 Museums and Disaster Risk Reduction: climate change</p> <p>60 Section 5: Case Studies</p> <p>61 Case Studies of Disaster Risk Reduction in Practice</p> <p>72 Section 6: Welcome to Resilient Town and Resilient Town’s Museum</p> <p>73 Welcome to Resilient Town</p> <p>74 Welcome to Resilient Town’s Museum</p> <p>76 Section 7: Additional Information</p>
FRAMEWORKS	
24. Framework structure	<p>The Guide includes a framework based around the Ten Essentials for Making Cities Resilient. The Ten Essentials are:</p> <p>1. Organize for disaster resilience. Put in place an organizational structure with strong leadership and clarity of coordination and responsibilities.</p>

	<p>2. Identify, understand, and use current and future risk scenarios.</p> <p>3. Strengthen financial capacity for resilience.</p> <p>4. Pursue resilient urban development and design.</p> <p>5. Safeguard natural buffers to enhance the protective functions offered by natural ecosystems.</p> <p>6. Strengthen institutional capacity for resilience.</p> <p>7. Understand and strengthen societal capacity for resilience.</p> <p>8. Increase infrastructure resilience.</p> <p>9. Ensure effective preparedness and disaster response.</p> <p>10. Expedite recovery and build back better.</p> <p>For each of the Ten Essentials, actions are suggested for museums to take; these actions are aligned with the SDGs.</p>
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	X
North and South perspectives	X
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?	Yes
31. SDGs specifically mentioned?	Yes
32. SDG targets specifically	Yes

mentioned?	
33. SDG indicators specifically mentioned?	No
SDGs AND SDG TARGETS AND LINKAGES	
34. Comments on SDG linkages	<p>Implementing the resource helps support a number of SDGs and targets.</p> <p>Building resilience and reducing the impact of disasters supports SDGs 1.5, 2.5, 3.D, 11.5, 11.B and 13.1 in particular, although all SDGs and targets are concerned with Disaster Risk Reduction in some way.</p> <p>Pursuing inclusive urbanization supports SDG 11.3.</p> <p>Protecting cultural and natural heritage supports SDGs 2.5, 6.6, 11.4, 14.2, 15.6 and other targets, and 16.4.</p> <p>Effective institutions supports SDG 16.6, and effective partnerships supports both SDG 17.14 and SDG 17.17.</p> <p>Education that enhances people's resilience to disasters supports SDGs 4.7, 12.8 and 13.3, which in turn supports a number of other SDGs and targets, for example SDG 2.4 and 11.A.</p> <p>Ensuring that facilities, services and staffing are effective and resilient for purposes of education, preservation and research, both in the face of disasters and to provide opportunities for effective use contributes to SDGs 2.5, 4.4, 4.A, 9.1, 9.4 and 9.5, 10.2 and 11.7.</p> <p>Ensuring that collections-based institutions work to reduce disaster risk supports many SDGs including, for example, 2.5, 7.2, 7.3, 9.1, 9.4, 9.5, 11.A, 11.B, 12.6, 13.1 14.2, 15.1, 15.2, 15.3, 15.4, 15.5, 15.6, 15.7, 15.8, 15.9, 16.4, 16.6, 16.7, 17.14 and 17.16, 17.17.</p> <p>Ensuring that all sectors of society are included in disaster risk reduction in fair and equitable ways, with special attention to gender, ethnicity, migrant status, disabled status and other characteristics, supporting SDGs 2.5, 5.1, 5.5, 5.C, 10.2 and 10.4, 11.A, 15.6, 16.6, 16.7, 17.14, 17.16 and 17.17</p> <p>The Ten Essentials are strongly linked to the SDGs and SDG targets as follows:</p>

	<p>Essential One: Organise for Disaster Resilience: SDGs 1.5, 3.D, 5.1, 5.5, 5.C, 10.2, 11.3, 11.5, 11.A, 11.B, 12.6, 13.1, 13.2, 13.B, 15.9, 16.6, 16.7, 17.14</p> <p>Essential Two: Identify, Understand and Use Current and Future Risk Scenarios: SDGs 1.5, 3.D, 5.1, 5.5, 5.C, 10.2, 11.4, 11.5, 11.A, 11.B, 13.1, 13.2, 13.3, 15.9, 16.6, 16.7, 17.14</p> <p>Essential Three: Strengthen Financial Capacity for Resilience: SDGs 1.5, 3.D, 4.A, 9.1, 9.4, 9.A, 10.2, 11.4, 11.5, 11.B, 13.1, 13.2, 13.3, 16.6, 17.16, 17.17</p> <p>Essential Four: Pursue Resilient Urban Development and Design: SDGs 1.5, 3.D, 5.1, 5.5, 5.C, 9.1, 10.2, 11.3, 11.4, 11.5, 11.A, 11.B, 13.1, 13.2, 16.6, 16.7, 17.16, 17.17</p> <p>Essential Five: Safeguard Natural Buffers to Enhance Ecosystems' Protective Functions: SDGs 1.5, 2.4, 3.D, 6.6, 11.A, 13.1, 13.2, 13.3, 14.2, 15.1, 15.2, 15.3, 15.4, 15.5, 15.8</p> <p>Essential Six: Strengthen Institutional Capacity for Resilience: SDGs 4.4, 4.7, 5.1, 5.5, 5.C, 9.1, 9.5, 9.A, 10.2, 12.6, 12.8, 13.1, 13.3, 16.6, 16.7, 17.16</p> <p>Essential Seven: Understand and Strengthen Societal Capacity for Resilience SDGs 1.5, 2.4, 3.D, 4.7, 5.1, 5.5, 5.C, 9.5, 10.2, 11.3, 11.4, 11.5, 11.A, 12.8, 13.1, 13.3, 15.6, 16.6, 16.7, 17.14, 17.16, 17.17</p> <p>Essential Eight: Increase Infrastructure Resilience: SDGs 2.4, 4.A, 9.1, 9.4, 9.A, 11.4, 13.1, 13.3, 17.16</p> <p>Essential Nine: Ensure Effective Disaster Response: SDGs 3.D, 4.4, 4.7, 5.1, 5.5, 5.C, 9.1, 10.2, 11.3, 12.8, 13.1, 13.2, 13.3, 16.6, 16.7, 17.14, 17.16, 17.17</p> <p>Essential Ten: Expedite Recovery and Build Back Better: SDGs 1.5, 2.4, 2.5, 3.D, 4.7, 4.A, 5.1, 5.5, 5.C, 6.4, 6.6, 7.2, 7.3, 8.5, 8.6, 8.8, 8.9, 9.1, 9.4, 9.5, 9.A, 10.2, 11.3, 11.4, 11.5, 11.A, 11.B, 12.8, 13.1, 13.2, 13.3, 14.2, 15.1, 15.2, 15.3, 15.4, 15.5, 15.6, 15.7, 15.8, 15.9, 16.4, 16.6, 16.7, 17.14, 17.16, 17.17</p>
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35. SDGs and SDG targets the resource helps advance	
SDG 1: End poverty in all its forms everywhere 1.4 By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including microfinance	<p>Numbers and proportions of people from particular groups using collections in comparison with demographics in broader society.</p> <p>Numbers of people accessing collections.</p> <p>Number of targeted programmes that aim to enhance access to collections by disadvantaged groups.</p> <p>Sustainable tourism that enhances local communities' access to basic services, ownership and control over land and other forms of property (including cultural and natural heritage), as well as to technology and markets.</p> <p>Involvement of people from disadvantaged groups in decision-making activities and processes relating to collections and collections-based institutions.</p>
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.	<p>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.</p> <p>Number of educational programmes drawing on collections that incorporate resilience perspectives.</p> <p>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.</p> <p>Number of research programmes drawing on collections that are aimed at building resilience to climate-related and other shocks and disasters.</p> <p><i>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</i></p>

<p>SDG 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture</p> <p>2.4 By 2030, ensure sustainable food production systems to implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality.</p>	<p>Collections development related to sustainable food production where appropriate.</p> <p>Number of educational and awareness-raising programmes incorporating sustainable food production perspectives, and that aim to reduce the impact of disasters on communities.</p> <p>Number of targeted programmes that support those most exposed and vulnerable to disasters, whether locally or farther afield.</p> <p>Number of research activities drawing on collections that relate to resilient agricultural practices, helping mitigate and adapt to climate change, flooding and other disasters.</p> <p>Policies and plans in place to eliminate unsustainable food production from supply chains and in any food provision in collections-based institutions.</p> <p>Number of partnership activities drawing on collections that contribute to Disaster Risk Reduction plans, supporting resilient agricultural practices, and helping mitigate and adapt to climate change, flooding and other disasters.</p>
<p>SDG 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture</p> <p>2.5 By 2020, maintain the genetic diversity of seeds, cultivated plants and farmed and domesticated animals and their related wild species, including through soundly managed and diversified seed and plant banks at the national, regional and international levels, and promote access to and fair and equitable sharing of benefits arising from the utilization of genetic resources and associated traditional knowledge, as</p>	<p>Collections development related to genetic diversity of seeds, cultivated plants, farmed and domesticated animals (notably of local or at-risk varieties) and related wild species, for example in herbaria, museums, seed and gene banks, and seed libraries.</p> <p>Number of educational programmes related to genetic diversity of domesticated plants, animals and wild relatives.</p> <p>Number of educational programmes related to fair and equitable benefits of use of genetic resources and associated traditional knowledge, following international agreements (e.g. Nagoya Protocol).</p> <p>Number of educational and awareness programmes for people to ensure that they are aware of their rights and protections in terms of traditional knowledge, and exploitation of genetic resources.</p> <p>Number of research activities that help understand</p>

<p>internationally agreed</p>	<p>traditional knowledge, and genetic diversity of crop plants and animals.</p> <p>Ensure that producers of crop plants and animals are fairly compensated.</p> <p>Policies and procedures in place to ensure legal compliance with fair and equitable benefits of use of genetic resources and associated traditional knowledge, following international agreements (e.g. Nagoya Protocol).</p> <p>Number of partnerships at national, regional and international levels, as appropriate, to soundly manage seed and plant banks.</p>
<p>SDG 3: Ensure healthy lives and promote well-being for all at all ages</p> <p>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.</p>	<p>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.</p> <p>Number of educational programmes incorporating perspectives on early warning, risk reduction and management of national and global health risks.</p> <p>Number of awareness raising programmes that target marginalized and vulnerable groups most exposed to health risks.</p> <p>Plans in place for early warning, risk reduction and management to national and global health risks.</p> <p>Relationships and partnerships in place for risk reduction and management in light of national and global health risks.</p>
<p>SDG 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all</p> <p>4.4 By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational</p>	<p>Number of young people and adults in skills-development activities and programmes drawing on collections, for employment, decent jobs and entrepreneurship</p> <p>Increase in number of young people and adults in such programmes</p> <p>Number and proportion of staff who have received training in the last year, to better support their contribution to the</p>

skills, for employment, decent jobs and entrepreneurship	<p>SDGs.</p> <p>Programs and processes in place to ensure the availability of a skilled workforce.</p>
<p>SDG 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all</p> <p>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</p>	<p>Numbers of people in each type of programme drawing on collections from different demographic groups.</p> <p>Increases in numbers of people in each type of programme from different demographic groups.</p> <p>Proportion of people involved in such programmes in relation to overall audience size.</p> <p>Evidence that learners have acquired knowledge and skills to promote sustainable development.</p>
<p>SDG 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all</p> <p>4.A Build and upgrade education facilities that are child, disability and gender sensitive and provide safe, non-violent, inclusive and effective learning environments for all</p>	<p>Number and proportion of education facilities that are child, disability and gender sensitive.</p> <p>Proportion of education facilities that provide safe, non-violent, inclusive and effective learning environments for all.</p> <p>Number and type of initiatives to improve effectiveness of learning environments.</p> <p>Support given to other education facilities to make them more inclusive and effective</p>
<p>SDG 5. Achieve gender equality and empower all women and girls</p>	<p>Number and proportion of programmes taking proactive steps to identify, reduce and remove discriminatory</p>

5.1 End all forms of discrimination against all women and girls everywhere	practices and processes relating to collections and collection-based institutions.
SDG 5. Achieve gender equality and empower all women and girls 5.5 Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision-making in political, economic and public life	Number and proportion of women included in programmes, partnerships and processes relating to collections and collection-based institutions at i. foundation/entry levels ii. intermediate levels iii. senior levels, including management, leadership and decision-making.
SDG 5. Achieve gender equality and empower all women and girls 5.C Adopt and strengthen sound policies and enforceable legislation for the promotion of gender equality and the empowerment of all women and girls at all levels	Number and proportion of policies relating to collections and collections-based institutions that incorporate gender perspectives to promote gender equality and empowerment of all women and girls at all levels.
SDG 6. Ensure availability and sustainable management of water and sanitation for all 6.4 By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity	Reductions in water use, increase in water recycling, preventing water shortages in vicinity Information on, programmes relating to, and partnerships relating to water use drawing on collections in place, to support efficient use of water
SDG 6. Ensure availability and sustainable management of water and sanitation for all 6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers	Proportion of water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes in a good ecological condition Information on, programmes relating to, and partnerships relating to water-related ecosystems drawing on collections in place, to support protection of these as effective nature-based solutions and ecosystem services.

and lakes	
SDG 7. Ensure access to affordable, reliable, sustainable and modern energy for all 7.2 By 2030, increase substantially the share of renewable energy in the global energy mix	Proportion of energy that comes from renewable sources. Date to achieve net zero, and milestones towards that date.
SDG 7. Ensure access to affordable, reliable, sustainable and modern energy for all 7.3 By 2030, double the global rate of improvement in energy efficiency	Reduction in energy use. Upgrade of old equipment to more efficient equipment. Uptake of renewable sources of energy.
SDG 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all 8.3 Promote development-oriented policies that support productive activities, decent job creation, entrepreneurship, creativity and innovation, and encourage the formalization and growth of micro-, small- and medium-sized enterprises, including through access to financial services	Development-oriented policies in place for the range of activities, or development-oriented considerations are included in other policies. Number of micro-, small- and medium-sized enterprises supported. Number and proportion of formalised arrangements with micro-, small- and medium-sized enterprises. Total value of financial services or financial support provided to micro-, small and medium-sized enterprises.
SDG 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all 8.5 By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with	Increase in number of people in full and productive employment relating to collections, through job creation and recruitment. Increase in proportion of existing staff working with collections in productive employment. Increase in number of men, women, young people and persons with disabilities in development and training programmes drawing on collections that support them in

disabilities, and equal pay for work of equal value	<p>employment.</p> <p>Removal of pay disparities by gender and/or other status for those working with collections.</p> <p>Policies and plans in place to ensure that all suppliers and others in the supply chain are in decent and productive work.</p>
<p>SDG 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all</p> <p>8.6 By 2020, substantially reduce the proportion of youth not in employment, education or training</p>	<p>Number of young people in employment, education or training relating to collections.</p> <p>Number of people in dedicated programmes relating to collections, who would otherwise not be in employment, education or training.</p>
<p>SDG 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all</p> <p>8.8 Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment</p>	<p>Number and proportions of staff working with collections in safe and secure working environments.</p> <p>Number of accidents and other health and safety incidents reported.</p> <p>Training and support provided for staff to ensure their wellbeing, health and safety.</p> <p>Education, awareness-raising and partnership programmes drawing on collections that address labour rights, notably those of migrant workers and others in precarious employment.</p> <p>Reduction of numbers and proportions of staff on short-term or zero-hours contracts.</p> <p>Fair pay policies and procedures in place to prevent exploitation.</p> <p>Procurement policies that ensure that collecting institutions make use of people who are in decent employment, and that avoid exploitation throughout the supply chain.</p>
SDG 8. Promote sustained, inclusive and sustainable	Numbers of jobs created or supported that relate to

<p>economic growth, full and productive employment and decent work for all</p> <p>8.9 By 2030, devise and implement policies to promote sustainable tourism that creates jobs and promotes local culture and products</p>	<p>sustainable tourism drawing on local products (e.g. craft producers).</p> <p>Develop and implement plans to reduce and remove negative impacts of tourism.</p> <p>Numbers of activities and/or products drawing on local culture.</p> <p>Value to artisans and source communities of activities and products drawing on local culture.</p>
<p>SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>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</p>	<p>Development of research-useful collections to support reliable, sustainable and resilient use by researchers and others.</p> <p>Number and proportion of collections facilities and stores that support economic development and human well-being.</p> <p>Number and proportion of collections facilities and stores that provide affordable and equitable access for all.</p> <p>Investment in collections facilities.</p> <p>Inclusion of collections information in regional and transborder initiatives, notably via digital access for discoverability.</p>
<p>SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>9.4 By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities</p>	<p>Number and proportion of collections facilities that:</p> <ol style="list-style-type: none"> 1. make efficient use of resources, with an ongoing drive for efficiencies and reductions in energy use and waste of all forms. 2. use clean and environmentally sound technologies, including climate-friendly energy sources and materials, with an ongoing commitment to reduce greenhouse gas emissions and waste of all forms. 3. adopt and/or prioritise collections-related processes and practices to reduce greenhouse gas emissions and waste of all forms.

<p>SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization</p> <p>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</p>	<p>Number and proportion of collections facilities that effectively support research and researchers.</p> <p>Number and proportion of staff who are appropriately skilled to undertake and support collections-based research.</p> <p>Expenditure on initiatives to enhance and upgrade collections facilities.</p> <p>Numbers of staff engaged in to supporting and developing research use based on collections.</p> <p>Number of initiatives to encourage innovation drawing on collections.</p> <p>Increase in number of research and development workers per 1 million people.</p> <p>Increase in public and private research and development spending being used to develop and make use of collections.</p>
<p>SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>9.A Facilitate sustainable and resilient infrastructure development in developing countries through enhanced financial, technological and technical support to African countries, least developed countries, landlocked developing countries and small island developing States.</p>	<p>Plans in place to support development of sustainable and resilient infrastructure in developing countries through financial, technological and technical support, for example through:</p> <ul style="list-style-type: none"> i. joint projects, ii. funding bids, iii. sharing equipment, collections and collections information as appropriate, iv. in order to support development of high-quality infrastructures for sustainable development, research and innovation.
<p>SDG 10. Reduce inequality within and between countries</p> <p>10.2 By 2030, empower and promote the social,</p>	<p>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.</p>

<p>economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status</p>	<p>Numbers and proportions of people making use of collections in relation to the demographic of the local population</p> <p>Numbers and proportions of people involved in focused programmes aimed at promoting social, economic and political inclusion</p> <p>Numbers and proportions of people from different demographic groups involved in decision-making processes relating to collections and collections-based institutions</p> <p>Number and types of partnerships that build relationships with marginalized groups, individuals and communities.</p>
<p>SDG 10. Reduce inequality within and between countries 10.4 Adopt policies, especially fiscal, wage and social protection policies, and progressively achieve greater equality</p>	<p>Number and proportion of policies that proactively address equality issues relating to fiscal, wage and social protection considerations.</p>
<p>SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable 11.3 By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries</p>	<p><i>11.3.2 Proportion of cities with a direct participation structure of civil society in urban planning and management that operate regularly and democratically</i></p> <p>Plans in place for museums to facilitate the incorporation of communities' views into local planning and town management processes in a regular way.</p> <p>Plans in place for museums to facilitate the incorporation of minorities' views into local planning and town management processes in a regular way.</p>
<p>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</p>	<p><i>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</i></p> <p>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.</p> <p>Plans, policies and procedures in place for the</p>

	<p>identification, safeguarding and protection of cultural and natural heritage at risk.</p> <p>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.</p> <p>Number and diversity of educational, awareness-raising, research programmes, and partnerships that aim to strengthen protection of cultural and natural heritage.</p>
<p>SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable</p> <p>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</p>	<p>Collections-based research that supports the understanding and management of disasters of all kinds.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Plans in place to provide special support/protection to poor and vulnerable people and groups in and following disasters.</p>
<p>SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable</p> <p>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</p>	<p>Numbers of people accessing collecting institutions from different demographic groups, notably women, children, older people and persons with disabilities.</p> <p>Increases in numbers of people accessing collecting institutions from different demographic groups.</p> <p>Measures taken to remove barriers to access green and public spaces.</p> <p>Extent of green space provided by collections institutions.</p>

<p>SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable</p> <p>11.A Support positive economic, social and environmental links between urban, peri-urban and rural areas by strengthening national and regional development planning</p>	<p>Considerations of regional economic, social and environmental trends and risks incorporated into collecting institutions' planning.</p> <p>Participation in local and regional planning, to foster access to services, cultural participation, prevent exclusion, and support equitable urbanisation.</p> <p>Ensure data collection and metrics can be useful for planning in conjunction with other sectors and between urban and rural areas.</p> <p>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.</p>
<p>SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable</p> <p>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</p>	<p><i>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</i></p> <p>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.</p>
<p>SDG 12 Ensure sustainable consumption and production patterns</p> <p>12.6 Encourage companies, especially large and transnational companies, to adopt sustainable practices</p>	<p>Clear visions, strategies and plans in place for all aspects of sustainability – environmental, social and economic (people, planet, prosperity)- across all areas of activity.</p> <p>Visions, strategies and plans relating to sustainability to be publicly available and incorporated into planning</p>

and to integrate sustainability information into their reporting cycle	<p>documents.</p> <p>Commitments to be in line with local, regional, national and/or international targets and ambitions.</p> <p>Incorporation of sustainability into reporting for funders and other stakeholders, including the public. Reporting to include commitments and progress towards targets.</p>
<p>SDG 12 Ensure sustainable consumption and production patterns</p> <p>12.8 By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature</p>	<p><i>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</i></p> <p>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.</p>
<p>SDG 13. Take urgent action to combat climate change and its impacts</p> <p>13.1 Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries</p>	<p>Plans in place for near and longer term to actively adapt to climate-related hazards and natural disasters.</p>
<p>SDG 13. Take urgent action to combat climate change and its impacts</p> <p>13.2 Integrate climate change measures into national policies, strategies and planning</p>	<p>National organizations, institutions and networks relating to collections and collections-based institutions to have integrated climate change measures into policies, strategies and planning relating to collections and collections-based institutions, including funding and other resourcing considerations</p>
<p>SDG 13. Take urgent action to combat climate change and its impacts</p> <p>13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early</p>	<p>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.</p> <p>Plans in place for effective education and awareness raising on climate change mitigation, adaptation, impact reduction and early warning.</p>

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 13. Take urgent action to combat climate change and its impacts 13.B Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities.	<p>Number of initiatives (educational, awareness-raising, research, and/or partnerships) drawing on collections and collections-based institutions that build capacity for climate change planning and management in least developed countries and small island developing States.</p> <p>Number of targeted initiatives drawing on collections and collections-based institutions aimed at building capacity for women, youth and local and marginalized communities in least developed countries and small island developing States.</p>
SDG 14 Conserve and sustainably use the oceans, seas and marine resources for sustainable development 14.2 By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts, including by strengthening their resilience, and take action for their restoration in order to achieve healthy and productive oceans	<p>Proportion of marine and coastal areas in a good ecological condition</p> <p>Information on, programmes relating to, collections development, and partnerships relating to marine and coastal areas drawing on collections in place, to support protection of marine and coastal areas.</p>
SDG 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss 15.1 By 2020, ensure the conservation, restoration and sustainable use of	<p>Proportion of terrestrial and inland freshwater systems in a good ecological condition</p> <p>Information on, programmes relating to, collections development, and partnerships relating to terrestrial and freshwater systems drawing on collections in place, to support their protection and effective functioning.</p>

terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements	
SDG 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss 15.2 By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally	Proportion of forests in a good ecological condition Information on, programmes relating to, collections development, and partnerships relating to forests drawing on collections in place, to support their protection and effective functioning.
SDG 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss 15.3 By 2030, combat desertification, restore degraded land and soil, including land affected by desertification, drought and floods, and strive to achieve a land degradation-neutral world	Proportion of soils and land area in a good ecological condition, with reference to desertification, drought and floods. Information on, programmes relating to, collections development, and partnerships relating to soils and land use (with reference to desertification, drought and floods) drawing on collections in place, to support their protection and effective functioning.
SDG 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat	Proportion of mountain ecosystems, including their biodiversity, in a good ecological condition. Information on, programmes relating to, collections

<p>desertification, and halt and reverse land degradation and halt biodiversity loss</p> <p>15.4 By 2030, ensure the conservation of mountain ecosystems, including their biodiversity, in order to enhance their capacity to provide benefits that are essential for sustainable development</p>	<p>development, and partnerships relating to mountain ecosystems and their biodiversity drawing on collections in place, to support their protection and effective functioning.</p>
<p>SDG 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss</p> <p>15.5 Take urgent and significant action to reduce the degradation of natural habitats, halt the loss of biodiversity and, by 2020, protect and prevent the extinction of threatened species</p>	<p>Number and proportion of habitats, notably endangered habitats, and species with favourable conservation status, with special reference to locally, nationally and globally endangered species.</p> <p>Information on, programmes relating to, collections development, and partnerships relating to habitats and species drawing on collections in place, to support their protection and continued existence.</p> <p>Measures taken to enhance biodiversity value of green space associated with collections institutions.</p>
<p>SDG 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss</p> <p>15.6 Promote fair and equitable sharing of the benefits arising from the utilization of genetic resources and promote appropriate access to such resources, as internationally agreed</p>	<p>Policies, plans and agreements in place for access and benefit sharing relating to use of collections, in line with the Nagoya Protocol (notably relating to natural history collections, gene banks, tissue banks, seed banks).</p> <p>Effective communication and dissemination methods in place to promote access to resources, and access to relevant policies, plans and agreements, in place.</p>

<p>SDG 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss</p> <p>15.7 Take urgent action to end poaching and trafficking of protected species of flora and fauna and address both demand and supply of illegal wildlife products</p>	<p>Policies and plans in place to ensure objects and specimens of protected species (for example ivory, rhino horn) in collections are protected against theft and do not enter supply chains.</p> <p>Policies and plans in place to ensure that objects and specimens are only acquired in line with national and international legislation, or with legal dispensation.</p> <p>Information on, programmes relating to, collections development, and partnerships relating to poached and trafficked species, notably protected and endangered species, to end poaching and trafficking.</p>
<p>SDG 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss</p> <p>15.8 By 2020, introduce measures to prevent the introduction and significantly reduce the impact of invasive alien species on land and water ecosystems and control or eradicate the priority species</p>	<p>Number and proportion of invasive alien species for which effective measures are in place to reduce their impact on land and water ecosystems.</p> <p>Information on, programmes relating to, collections development, and partnerships relating to invasive alien species, to support their effective management, and to prevent spread and impact.</p>
<p>SDG 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss</p> <p>15.9 By 2020, integrate ecosystem and biodiversity values into national and local planning,</p>	<p>Proportion and number of relevant plans, processes and strategies that incorporate ecosystem and biodiversity values, and their relationships with effective collections.</p> <p>Plans in place to ensure that development of collections facilities contributes to effective conservation and restoration of terrestrial ecosystems.</p>

development processes, poverty reduction strategies and accounts	
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. 16.4 By 2030, significantly reduce illicit financial and arms flows, strengthen the recovery and return of stolen assets and combat all forms of organized crime	<p>Identification of stolen assets, return of stolen assets</p> <p>Collections development, education, awareness-raising and partnership activities relating to organized crime, with a view to combatting organized crime everywhere.</p>
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. 16.6 Develop effective, accountable and transparent institutions at all levels	<p><i>16.6.2 Proportion of the population [audience/users/non-users] satisfied with their last experience of public services</i> Access to information, and accountability policies and mechanisms, in place.</p> <p>Effective institutional arrangements, both for own working and for working in partnership with other sectors, in place.</p> <p>Plans and arrangements in place for extraordinary circumstances such as natural and human-caused disasters.</p> <p>Effective arrangements in place to fulfil legal and social obligations and responsibilities.</p> <p>Effective arrangements in place for transparent communication and reporting of institutional performance.</p> <p>Effective arrangements in place for transparent decision-making and accountability.</p>
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	<p><i>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</i> <i>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</i></p>

representative decision-making at all levels		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 17. Partnerships for the goals 17.14 Enhance policy coherence for sustainable development		Proportion of policies that incorporate sustainable development considerations, linking to SDGs and targets.			
		Incorporation of policy considerations from outside the collections sector into policies of collections-based institutions, to facilitate partnerships and effectiveness.			
SDG 17. Partnerships for the goals 17.16 Enhance the global partnership for sustainable development, complemented by multi-stakeholder partnerships that mobilize and share knowledge, expertise, technology and financial resources, to support the achievement of the sustainable development goals in all countries, in particular developing countries		Number and/or increase in number, and diversity of global and international multi-stakeholder partnerships that share collection-related knowledge, expertise, technology and financial resources to address the SDGs, or that otherwise involve collections-based organisations and institutions.			
		Number and/or increase in number, and diversity of global and international multi-stakeholder partnerships involving developing countries that share collection-related knowledge, expertise, technology and financial resources to address the SDGs			
SDG 17. Partnerships for the goals 17.17 Encourage and promote effective public, public-private and civil society partnerships, building on the experience and resourcing strategies of partnerships		<i>17.17.1 Amount of United States dollars committed to public-private and civil society partnerships</i>			
		Number and/or increase in number, and diversity of local, national and regional multi-stakeholder (public, public-private and civil society) partnerships that address the SDGs drawing on collections, or that otherwise involve collections-based organizations and institutions.			
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	