

FORMAT		
1. Name of resource	Sustainable Cultural Production: Museum	
2. Location	https://sustainable-toolkit.czk.si/	
3. Alternative location	https://issuu.com/bio_ljubljana/docs/bio27_futuring-toolkit_eng	
4. Author[s]	Žan Kobal Tamara Lašič Jurković Barbara Predan Sophie Thomas	
5. Publisher/producer/host	Museum of Architecture and Design (Ljubljana) and Pekinpah Association	
6. Year	2022	
7. Suggested citation	Žan Kobal et al. (2022) Sustainable Cultural Production: Museum. Ljubljana : Museum of Architecture and Design: Pekinpah Association.	
8. Languages in which available	English	
9. Geographic area resource relates to	Global	
10. Does the resource relate to a specific time frame?	No	
11. Type	Report	
	Toolkit/Framework/Roadmap	X
	Sign-post to other resource (database)	X
	Case studies	X
	Other	
12. If this is part of an initiative, what is the initiative?	“The project is co-financed by the European Union (European Regional Development Fund) and the Republic of Slovenia. The project is implemented in the framework of the Operational Program for the Implementation of the European Cohesion Policy 2014–2020. The Centre for Creativity program is conceived by the Museum of Architecture and Design (MAO).” (p.31)	
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	
	Libraries	
	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, literature, history, geography and ethnology, anthropology, archaeology	X
	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		
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		
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		X
iii. waste management and reduction of waste		X

iv. transport (forms of transport, energy use)	X
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	
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?	<p>“We are all well aware of the waste and impact associated with cultural events and temporary exhibitions and it is clear that we need to put sustainable production (and beyond) at the core of the 27th Biennial of Design (BIO27) and future editions of the biennale making marked changes to the way we work and leading by example to reduce environmental impact. The objective of this commission is using the possibility of the biennale to interrogate its practices and future. We want to gain a deeper understanding of the environmental and social impact of BIO27 and how we can make a positive change. Based on the insights, it will be possible to design a roadmap enabling the BIO and Museum of Architecture and Design (MAO) teams to reduce emissions and set decarbonisation targets going forward as well as demonstrating and communicating innovative approaches to sustainable cultural production. It is important to stress that sustainability goes beyond environment and carbon neutrality and fits into the larger picture, namely the ‘Triple Bottom Line’ of People, Planet and Prosperity (University of Wisconsin 2020).” (p.2)</p>
21. Intended audience of resource	“...Any individual or organisation that creates, defines, publishes, produces, distributes and/

	or uses cultural production within a museum (or gallery) environment. This includes, but is not limited to museum staff, communication officers, publishers, designers and architects, museum visitors, policy makers” (p.5)
22. Process of development	“The project was created as part of the 27th Biennial of Design – BIO27 Super Vernaculars, Design for a Regenerative Future, which is produced by the Museum of Architecture and Design MAO in collaboration with the Center for Creativity CzK.” (p.31)
23. Organisation/structure/contents	Contents 1 Who are these guidelines for? 2 First Steps 3 Museums: Understanding the impacts of climate change 4 Exhibition and exhibition design 5 Graphic design – Print 6 Digital Communication & Design References Calculators and resources
FRAMEWORKS	
24. Framework structure	American Institute of Architects (AIA) Framework for Design Excellence
25. Relevant policy considerations	Yes
26. Resources for implementation identified	Yes
27. Specific assessment points/indicators/milestones/action plan for monitoring	Yes
28. ASPECTS OF SUSTAINABILITY COVERED BY RESOURCE (mark all that apply)	
People (social sustainability)	X
Planet (environmental sustainability)	X
Prosperity (economic sustainability)	X
Peace	
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?	Yes
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	This open-access resource helps project team members and stakeholders of museums and galleries identify steps to minimize impacts on climate change brought by cultural productions, temporary and short-term ones in particular. It is most closely related to SDG targets 6.4 (water-use efficiency, recycling and reduction), 6.B (strengthen local communities' participation in water management), 7.2 (increase use of renewable energy), 9.1 (develop quality and sustainable infrastructure), 11.6 (pay special attention to waste management), 11.7 (accessible and inclusive spaces for all), 12.4 and 12.5 (reduction of waste generation), 12.8 (increase awareness for sustainable development and lifestyles through museums), 13.2 (integration of climate change measures into production planning), 13.3 (improve awareness-raising and institutional capacity on climate change), 15.6 (evaluation on paper types for publication, exhibition and communication purposes in productions), 16.6 (develop effective and accountable institutions), 16.7 (participatory decision-making at all levels), 17.16 (partnerships for sustainable development) and 17.17 (encourage effective public-private partnerships).
35. SDGs and SDG targets the resource helps advance	
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	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

number of people suffering from water scarcity	
SDG 6. Ensure availability and sustainable management of water and sanitation for all 6.B Support and strengthen the participation of local communities in improving water and sanitation management	<p>Collections development to support sustainable water management and sanitation for all.</p> <p>Number of programmes for local communities directed towards water quality improvement and sanitation management.</p>
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	<p>Proportion of energy that comes from renewable sources.</p> <p>Date to achieve net zero, and milestones towards that date.</p>
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	<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>
SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable 11.6 By 2030, reduce the adverse per capita	<p>Plans in place to reduce negative impacts on air quality, and volume and forms of waste.</p> <p>Plans in place to eliminate waste of all forms as soon as possible.</p>

<p>environmental impact of cities, including by paying special attention to air quality and municipal and other waste management</p>	
<p>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</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>SDG 12 Ensure sustainable consumption and production patterns 12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment</p>	<p>Quantities, and reduction in quantities, of chemicals of all kinds, including chemicals used in maintenance of collections facilities, and chemicals used in care and preparation of collections, and all wastes throughout their life cycle, reducing release to air, water and soil.</p> <p>Plans in place to eliminate the use and release of hazardous chemicals into the natural environment as soon as possible.</p>
<p>SDG 12 Ensure sustainable consumption and production patterns 12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse</p>	<p>Quantity and reductions in quantity of waste of all kinds, including avoidance/prevention of waste production, reuse, and recycling. Quantity of material recycled in comparison with quantity sent to landfill. Increases in recycling rate in comparison with landfill.</p>
<p>SDG 12 Ensure sustainable consumption and production patterns 12.8 By 2030, ensure that people everywhere have the relevant information and awareness for</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>sustainable development and lifestyles in harmony with nature</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 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 13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning</p>	<p>Plans in place to enhance positive contributions to addressing climate change through use of collections</p> <p>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.</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 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 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.</p>	<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>16.6 Develop effective, accountable and transparent institutions at all levels</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>
<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 representative decision-making at all levels</p>	<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> <p>Decision-making addresses societal, environmental and economic challenges related to the community, considering short-term and long-term risks and opportunities.</p> <p>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.</p>
<p>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</p>	<p>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 organizations and institutions.</p> <p>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</p>

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		17.17.1 Amount of United States dollars committed to public-private and civil society partnerships 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	