FORMAT			
1. Name of resource	**Arts and Cultural Digital Roadmap**		
2. Location	https://www.mccy.gov.sg/-/media/ACDR/ACDR-Full-27-Jan-2023.pdf		
3. Alternative location	https://www.mccy.gov.sg/sector/policies/arts-and-culture-digital-roadmap		
4. Author[s]	Ministry of Culture, Community and Youth of Singapore, National Arts Council Singapore and National Heritage Board Singapore		
5. Publisher/producer/host	Ministry of Culture, Community and Youth of Singapore, National Arts Council Singapore and National Heritage Board Singapore		
6. Year	2023		
7. Suggested citation	Ministry of Culture, Community and Youth of Singapore, National Arts Council Singapore and National Heritage Board Singapore (2023). Arts and Cultural Digital Roadmap. Retrieved at https://www.mccy.gov.sg/-/media/ACDR/ACDR-Full-27-Jan-2023.pdf.		
8. Languages in which available	English		
9. Geographic area resource relates to	Singapore with global relevance		
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		
	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		
	Libraries		
	Other	**X**	
16. Does the resource	**Arts, humanities and social sciences: philosophy,**	X	

relate to specific disciplines?	**psychology, religion, social sciences, law, politics, language, arts and 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	
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	
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	X

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)	

AIMS AND CONTENT

20. What issues does the resource aim to address?	"The need for digitalisation has been accelerated by the impact of the Covid-19 pandemic. The pandemic has limited physical performances and visits to museums and galleries, revealing gaps in digital service delivery. The arts and culture sector has adapted to these challenges by digitally transforming and enhancing the experiences of consumers. In the post-pandemic world, digital and blended delivery models will be even more common. It is more relevant now than ever to develop digital capabilities to push the boundaries and transform the creation, presentation and marketing of arts and heritage offerings." (PP.1-2)	
21. Intended audience of resource	Including but not limited to arts educators, technical producers, visual artists, performing artists, gallerists, museum curators and administrators, arts and culture organisations.	
22. Process of development	"During the Emerging Stronger Conversations (ESCs) organised by the National Arts Council (NAC) and National Heritage Board (NHB) (December 2020 – January 2021), participants shared how digitalisation could present new opportunities for the arts and culture sector, and noted the importance of ensuring that the digital tools and platforms used by the sector help to make their works more accessible to the audiences." (P.1)	
23. Organisation/structu	1. Why Going Digital is Important	

re/contents	2. A One-Stop Arts and Culture Digital Roadmap 3. Arts and Culture Digital Checklist 4. How to Go Digital – Digital Solutions 5. Highways for Digital Service Delivery and Digital Innovation 6. Get Funding Support 7. Other Issues to Consider When Going Digital 8. Acknowledgements
FRAMEWORKS	
24. Framework structure	
25. Relevant policy considerations	
26. Resources for implementation identified	Yes
27. Specific assessment points/indicators/milestones/action plan for monitoring	
28. ASPECTS OF SUSTAINABILITY COVERED BY RESOURCE (mark all that apply)	
People (social sustainability)	X
Planet (environmental sustainability)	
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?	
31. SDGs specifically mentioned?	
32. SDG targets specifically mentioned?	
33. SDG indicators specifically mentioned?	

SDGs AND SDG TARGETS AND LINKAGES	
34. Comments on SDG linkages	This open-access roadmap supports arts and cultural practitioners and professionals to initiate or improve their existing work on digitalization. There is also a companion digital toolkit "Arts and Culture Digital Roadmap - Digital Toolkit" available for use by the same authors. Topics and tools presented in the resource are related to SDG targets 4.A (upgrade education facilities), 8.2 (higher productivity through technological upgrading and digitalization), 9.1 (resilient infrastructure and equitable access for all), 9.4 (upgrade infrastructure and enhance resource-use efficiency), 9.5 (upgrade the technological capabilities of the arts and cultural industries), 9.C (increase access to information and provide digitalized materials to more target audience), 11.3 (help facilitate integrated and sustainable management), 12.6 (adopt sustainable practices), 16.10 (ensure access to information) and 17.16 (help strengthen multi-stakeholder partnerships).
35. SDGs and SDG targets the resource helps advance	
SDG 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all 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	Number and proportion of education facilities that are child, disability and gender sensitive. Proportion of education facilities that provide safe, non-violent, inclusive and effective learning environments for all. Number and type of initiatives to improve effectiveness of learning environments. Support given to other education facilities to make them more inclusive and effective
SDG 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all 8.2 Achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high-value added and labour-intensive sectors	Number of innovation-driven projects that aim to enhance or add to the range of activities drawing on collections. Staff training initiatives aimed at innovation, skills for enterprise. Number of public-facing activities that make use of new or emerging technologies, involving collections.
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 and foster innovation 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	Number and proportion of collections facilities that: 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.
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 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 to supporting and developing research use based on collections.

number of research and development workers per 1 million people and public and private research and development spending	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 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation 9.C Significantly increase access to information and communications technology and strive to provide universal and affordable access to the Internet in least developed countries by 2020	Number of collections facilities that provide access to ICT. Number of programmes that support access to the Internet in least developed countries.
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	***11.3.2 Proportion of cities with a direct participation structure of civil society in urban planning and management that operate regularly and democratically*** Plans in place for collections-based institutions to facilitate the incorporation of communities' views into local planning and town management processes in a regular way. Plans in place for collections-based institutions to facilitate the incorporation of minorities' views into local planning and town management processes in a regular way.
SDG 12 Ensure sustainable consumption and production patterns 12.6 Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle	Clear visions, strategies and plans in place for all aspects of sustainability – environmental, social and economic (people, planet, prosperity)- across all areas of activity. Visions, strategies and plans relating to sustainability to be publicly available and incorporated into planning documents. Commitments to be in line with local, regional, national and/or international targets and ambitions.

	Incorporation of sustainability into reporting for funders and other stakeholders, including the public. Reporting to include commitments and progress towards targets.
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.
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

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