FORMAT			
1. **Name of resource**	**The Digital Imperative: Envisioning The Path To Sustaining Our Collective Digital Heritage**		
2. Location	https://www.iccrom.org/sites/default/files/2021-12/en_0_sustainingdigitalheritage-findingsreport_iccrom_2021.pdf		
3. Alternative location			
4. Author[s]	K. Van Malssen, A. Tandon and K. Hazejager		
5. Publisher/producer/host	ICCROM		
6. Year	2021		
7. Suggested citation	Van Malssen, K., Tandon, A. and K. Hazejager (2021). The Digital Imperative: Envisioning The Path To Sustaining Our Collective Digital Heritage. ICCROM, available at https://www.iccrom.org/sites/default/files/2021-12/en_0_sustainingdigitalheritage-findingsreport_iccrom_2021.pdf		
8. Languages in which available	English		
9. Geographic area resource relates to	Global		
10. Does the resource relate to a specific time frame?			
11. Type	Report	Yes	
	Toolkit/Framework/Roadmap	Yes	
	Sign-post to other resource (database)		
	Case studies		
	Other		
12. Part of an initiative?			
COLLECTIONS AND COLLECTIONS-BASED INSTITUTIONS			
13. Explicit links to collections	Yes		
14. Explicit links to museums/libraries/archives	Yes		
15. Types of institutions relevant to	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,	X	

	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	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	
Use collections to promote cultural participation/social inclusion more effectively, for example by reducing barriers to participation, to ensure no-one is 'left behind'	
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	
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	

vii. security, disaster preparedness and risk reduction	
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?	"This report is the product of a study conducted by the International Center for the Study of the Preservation and Restoration of Cultural Property (ICCROM) that aims to understand the challenges, needs, and goals of heritage professionals working to sustain digital heritage. The objective of this project is to understand the possible scope of a proposed Sustaining Digital Heritage programme at ICCROM, and how it could fill existing gaps rather than duplicate efforts of other professional groups. The research effort aims to identify: ● A prospective market for such a programme ● Constituent needs and goals ● Current capacity development offerings ● Opportunities for a future programme at ICCROM ● Key players and prospective partners In this report, we share the findings from interviews with over 30 heritage professionals from around the world, and what concerns them about the sustainability of digital heritage. We then propose a model for sustaining digital heritage that responds directly to these needs. Next, we look at the current landscape of professional development training, to learn what opportunities there are for heritage professionals to gain digital skills that will help them with

	sustainability. Finally, we touch on ways ICCROM may be able to provide support for capacity development in this evolving and dynamic domain." (p.6)
21. Intended audience of resource	[Those working with digital collections]
22. Process of development	"This project is a collaboration between ICCROM, the Netherlands Institute for Sound and Vision (NISV), and AVP. These three organizations each offer unique perspectives and strengths that make them ideal partners to tackle this challenge and craft a proposal for a new Sustaining Digital Heritage programme." (p.7)
23. Organisation/structure/contents	CONTENTS 2 EXECUTIVE SUMMARY 3 Definitions: digital heritage and sustaining digital heritage 3 Digital heritage responsibilities and challenges 3 A model for sustaining digital heritage 4 Skills and capacities needed for sustaining digital heritage 5 1. INTRODUCTION 6 About this report 7 Background 7 Project partners 7 2. METHODOLOGY 9 Interviews 9 Focus group session 10 Analysis of the professional development landscape 11 3. WHAT IS DIGITAL HERITAGE? 12 Digital heritage 12 Sustainability of digital heritage 12 4. SUSTAINING DIGITAL HERITAGE ACTIVITIES 14 1. Produce future-proofed digital heritage content 14 2. Collect digital heritage content 15 3. Manage data and digital assets 16 4. Make digital heritage accessible and usable... 16 5. ...While respecting rights and acting ethically 17 6. Preserve digital content over time 18 7. Manage digital operations 19 8. Develop and continually update digital skills 20 9. Garner and maintain ongoing support 21 5. A MODEL FOR SUSTAINING DIGITAL HERITAGE 23 Recommendation 1: Adopt a service mindset 25 Recommendation 2: Right-size digital operations 26 Recommendation 3: Deliver value 28 Recommendation 4: Demonstrate impact 29 6. ANALYSIS OF CURRENT PROFESSIONAL DEVELOPMENT OFFERINGS 31

	7. OPPORTUNITIES FOR ICCROM 34
FRAMEWORKS	
24. Framework structure	The model for sustaining digital heritage can be considered as a framework, further guidance is provided in the resource.
25. Relevant policy considerations	Yes
26. Resources for implementation identified	Yes
27. Specific assessment points/indicators/mile stones/action plan for monitoring	Yes
28. ASPECTS OF SUSTAINABILITY COVERED BY RESOURCE (mark all that apply)	
People (social sustainability)	X
Planet (environmental sustainability)	
Prosperity (economic sustainability)	
Peace	
Partnerships	
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 can help support action for SDG targets relating to collections, including 4.4 (staff skills), 4.A (inclusive learning environments), 9.1 (infrastructure for human wellbeing and sustainable development), 11.4 (strengthen efforts to protect and safeguard cultural and natural heritage), 11.7 (safe and inclusive green and public spaces), 16.6 (effective, accountable and transparent

institutions), 16.10 (protect the right to information), 16.B (promote laws and policies for sustainable development).

35. SDGs and SDG targets the resource helps advance	
SDG 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all 4.4 By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship	Number of young people and adults in skills-development activities and programmes drawing on collections, for employment, decent jobs and entrepreneurship Increase in number of young people and adults in such programmes Number and proportion of staff who have received training in the last year, to better support their contribution to the SDGs. Programs and processes in place to ensure the availability of a skilled workforce.
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 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 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 11.7 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 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	***16.6.2 Proportion of the population [audience/users/non-users] satisfied with their last experience of public services*** Access to information, and accountability policies and mechanisms, in place. Effective institutional arrangements, both for own working and for working in partnership with other sectors, in place.

	Plans and arrangements in place for extraordinary circumstances such as natural and human-caused disasters.

Effective arrangements in place to fulfil legal and social obligations and responsibilities.

Effective arrangements in place for transparent communication and reporting of institutional performance.

Effective arrangements in place for transparent decision-making and accountability. |
| **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. |
| **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.B Promote and enforce non-discriminatory laws and policies for sustainable development | *16.B.1 Proportion of population [audience/users/non-users] reporting having personally felt discriminated against or harassed in the previous 12 months on the basis of a ground of discrimination prohibited under international human rights law*

Number and proportion of policies that incorporate sustainable development considerations, in the full sense of recognizing all three of social, economic and environmental considerations. |

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	