

FORMAT		
1. Name of resource	SILKNOW	
2. Location	https://silknow.eu/index.php	
3. Alternative location		
4. Author[s]	SILKNOW	
5. Publisher/producer/host	SILKNOW	
6. Year	2020	
7. Suggested citation	SILKNOW, https://silknow.eu/index.php	
8. Languages in which available	English, Spanish, Italian, French	
9. Geographic area resource relates to	Europe (mainly Spain, England, France, Italy), USA	
10. Does the resource relate to a specific time frame?		
11. Type	Report	Yes
	Toolkit/Framework/Roadmap	Yes
	Sign-post to other resource (database)	Yes
	Case studies	Yes
	Other	Yes (interactive virtual loom, videos)
12. If this is part of an initiative, what is the initiative?	This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 769504.	
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. Types of collections/disciplines the resource covers	Arts, humanities and social sciences: philosophy, psychology, religion, social sciences, law, politics, language, arts and recreation, architecture, literature, history, geography and ethnology,	X

	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'		
Use collections to promote sustainable tourism more effectively , for example by developing new products based on local cultural heritage, and/or considering the rights of stakeholder groups in relation to collections		X
Use collections to support research that contributes to sustainable development (including all forms of personal and self-directed research at all levels that make use of stored collections) more effectively, for example by providing effective facilities, collections and information to meet researchers' needs		X
Make decisions around collections that contribute to sustainable development more effectively		
i. employment (recruiting, staff training, staff safety)		
ii. energy consumption, greenhouse gas emissions, reduction, monitoring and reporting		
iii. waste management and reduction of waste		
iv. transport (forms of transport, energy use)		
v. commercial activities including copyright and IP		X
vi. governance and management		
vii. security, disaster preparedness and risk reduction		
Direct external leadership, partnerships and collaborations towards sustainable development more effectively , for example		X

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	X
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	X
2001 Protection of the Underwater Cultural Heritage	
2003 Safeguarding of the Intangible Cultural Heritage	X
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?	<p>“SILKNOW is a research project that improves the understanding, conservation and dissemination of European silk heritage from the 15th to the 19th century. It applies next-generation computing research to the needs of diverse users (museums, education, tourism, creative industries, media...), and preserves the tangible and intangible heritage associated with silk.</p> <p>Based on records from existing catalogues, it aims to produce digital modelling of weaving techniques (a “Virtual Loom”), through automatic visual recognition, advanced spatio-temporal visualization, multilingual and semantically enriched access to digital data. Its research activities and output have a direct impact in computer science and big data management, focusing on searching digital content throughout heterogeneous, multilingual and multimodal databases.</p> <p>Throughout our past and present, few materials have had as important a presence as silk: economic, technical, functional, cultural and symbolic. From flags to canopies, tapestries to furniture, fans to sword sheathes, wedding gowns to traditional costumes, we can find silk in countless contexts, over the last millennia. Many people experience vivid, personal and social connections to this heritage, linked to so many life stories and collective narratives. Luxury, craftsmanship, beauty and comfort have been -and still are- associated with it. Additionally, silk trade also allowed for exchange of ideas and innovations. Punched cards were first used in Jacquard silk looms, long before modern computers were even imagined.</p> <p>Nowadays, however, silk textiles are a seriously endangered heritage. There is also an associated intangible heritage -artisanal weaving techniques- at risk of disappearing. Countering those threats and making use of state-of-the-art technology, SILKNOW</p>

	<p>wants to showcase the splendor of silk, in Europe and worldwide, in the past and for the future.</p> <p>What are our main goals?</p> <ol style="list-style-type: none"> 1. Semantically relating digitized European silk heritage, enabling data interoperability across different collections, for advanced searching abilities. 2. Building a “Virtual Loom” to clone weaving techniques. This will allow users to discover the complexity, artistic and artisanal values of ancient silk textiles, while preserving them for future generations. 3. Improving the understanding of the European silk heritage, thanks to visual tools that show the spatio-temporal relationships of data, including an open-access, multilingual thesaurus.” (About)
<p>21. Intended audience of resource</p>	<p>“This project is intended for everyone who cares for silk heritage or simply wants to know more about it.” Museums and collections, education sector, ICT sector and tourism marketers.</p>
<p>22. Process of development</p>	<p>“SILKNOW is made possible through the close cooperation of a multidisciplinary team, including areas as ICT, text analytics, image processing, semantics, big data, 3D printing, art history, terminology, textile fabrication and conservation. It is based on digital information about historical silk textiles provided by a number of museums and collections.”</p>
<p>23. Organisation/structure/contents</p>	<p>About us Partners and stakeholders Team members Work packages Target audiences Museums and collections Creative industries Education ICT sector Tourism marketers Results Our tools Publications Deliverables Conferences and events Other results Resources Downloads Other resources Evaluation...</p>

	Net actions... News Contact us [The SILKNOW tools currently consists of 4 web-based applications: 1. ADASilk (Exploratory Search Engine with STMaps) 2. Virtual Loom 3. Silk Thesaurus 4. Educational Materials for learning Spanish through silk heritage]
FRAMEWORKS	
24. Framework structure	
25. Relevant policy considerations	Yes
26. Resources for implementation identified	Yes
27. Specific assessment points/indicators/milestones/action plan for monitoring	Yes
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?	No
31. SDGs specifically mentioned?	No
32. SDG targets specifically mentioned?	No
33. SDG indicators specifically	No

mentioned?	
SDGs AND SDG TARGETS AND LINKAGES	
34. Comments on SDG linkages	The SDGs are not mentioned explicitly, but SILKNOW can help support several SDG targets, including strengthening efforts to protect cultural and natural heritage (SDG 11.4), fostering skills for work (SDG 4.4), supporting innovation (SDG 8.2) and sustainable tourism (SDG 8.9). The resource can support scientific research on cultural heritage (SDG 9.5). The resource can support Education for Sustainable Development (SDG 4.7). Partnerships with traditional industries can support enterprise and job creation (8.3 and 8.5). Ensuring those involved in traditional crafts can benefit from sustainable development supports SDG 10.2 (universal social, economic and political inclusion). SILKNOW supports open access to information on silk heritage and technology, supporting SDG 16.10 (access to information and protecting fundamental freedoms).
35. SDGs and SDG targets the resource helps advance	
<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 skills, for employment, decent jobs and entrepreneurship</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 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,</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>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>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</p>	<p>Number of innovation-driven projects that aim to enhance or add to the range of activities drawing on collections.</p> <p>Staff training initiatives aimed at innovation, skills for enterprise.</p> <p>Number of public-facing activities that make use of new or emerging technologies, involving collections.</p>
<p>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</p>	<p>Development-oriented policies in place for the range of activities, or development-oriented considerations are included in other policies.</p> <p>Number of micro-, small- and medium-sized enterprises supported.</p> <p>Number and proportion of formalised arrangements with micro-, small- and medium-sized enterprises.</p> <p>Total value of financial services or financial support provided to micro-, small and medium-sized enterprises.</p>
<p>SDG 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all 8.5 By 2030, achieve full</p>	<p>Increase in number of people in full and productive employment relating to collections, through job creation and recruitment.</p> <p>Increase in proportion of existing staff working with</p>

<p>and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value</p>	<p>collections in productive employment.</p> <p>Increase in number of men, women, young people and persons with disabilities in development and training programmes drawing on collections that support them in 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 8.9 By 2030, devise and implement policies to promote sustainable tourism that creates jobs and promotes local culture and products</p>	<p>Numbers of jobs created or supported that relate to 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 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 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 10. Reduce inequality within and between countries 10.2 By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status</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>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 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 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</p>

		strengthen protection of cultural and natural heritage.			
SDG 16. Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels. 16.10 Ensure public access to information and protect fundamental freedoms, in accordance with national legislation and international agreements		Adopt and implement constitutional, statutory and/or policy guarantees for public access to information. Plans in place, and plans implemented to enhance public access to information relating to collections. Plans in place, and plans implemented to support fundamental freedoms, in line with human rights, national and international agreements and legislation. Plans and procedures in place for public access to information relating to the operation and management of collections-based institutions. Complaint mechanism in place for public to use where public access to information and fundamental freedoms not supported or fulfilled.			
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	