FORMAT		
1. Name of resource	CHERISH (Climate, Heritage and Environments of Reefs, Islands, and Headlands)	
2. Location	http://www.cherishproject.eu/en/	
3. Alternative location		
4. Author[s]	The CHERISH Project	
5. Publisher/producer/ host	The Royal Commission on the Ancient and Historical Monuments of Wales, the Discovery Programme: Centre for Archaeology and Innovation Ireland, Aberystwyth University: Department of Geography and Earth Sciences and Geological Survey, Ireland.	
6. Year	2014-2020	
7. Suggested citation	CHERISH (Climate, Heritage and Environments of Reefs, Islands, and Headlands), available at http://www.cherishproject.eu/en/	
8. Languages in which available	English, Welsh	
9. Geographic area resource relates to	Coastal areas of Ireland and Wales bordering the Irish Sea	
10. Does the resource relate to a specific time frame?	2014-20	
11. Type	Report	Yes
	Toolkit/Framework/Roadmap	
	Sign-post to other resource (database)	
	Case studies	Yes
	Other	Yes (newsletters, website, 3D models)
12. If this is part of an initiative, what is the initiative?	"CHERISH (Climate, Heritage and Environments of Reefs, Islands, and Headlands) is an exciting, 6-year European-funded Ireland-Wales project between the Royal Commission on the Ancient and Historical Monuments of Wales, the Discovery Programme: Centre for Archaeology and Innovation Ireland, Aberystwyth University: Department of Geography and Earth Sciences and Geological Survey, Ireland. The project will receive €5.1 million through the Ireland-Wales 2014-2020 Programme."	
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		
	Other	X sites	
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, anthropology, archaeology	X	
	Science, natural history, technology, medicine, engineering, manufacturing	X	
17. If no explicit links to collections, justification for inclusion	Strongly linked to the SDGs and could be applied to collections-based institutions, particularly those in coastal locations. Would also be extremely useful for all heritage sites in coastal locations.		

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'	
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	
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		X
2001 Protection of the Underwater Cultural Heritage		X
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?	"CHERISH is a truly cross-disciplinary project. It aims to raise awareness and understanding of the past, present and near-future impacts of climate change, storminess, and extreme weather events on the rich cultural heritage of the Irish and Welsh regional seas and coast. We will be employing innovative techniques to study some of the most iconic coastal locations in Ireland and Wales. The four main aims of CHERISH are to: • Target data and knowledge gaps to raise awareness of heritage in these remote coastal locations. • Discover, assess, map and monitor heritage on land and beneath the sea and establish new baseline data and recording standards. • Link land and sea. • Reconstruct past environments and weather history. CHERISH will work with communities and will widely	

disseminate the results and best practice for future climate change adaptation."

"The main objective of CHERISH is to increase capacity and knowledge of climate change adaptation for the Irish Sea and Coastal communities. This will be achieved through the nine CHERISH Initiatives (CI)."

"Over the 5 years of investment the project will deliver the following 8 Ultimate Changes:
1   A stimulus for encouraging local tourism and growth in the Blue economy. CHERISH will provide new coastal heritage information and innovative products, enabling enhanced cultural tourism for the study sites and raised awareness of the historic environment in selected communities.

 2   Improved evidence base for statutory protection, decision-making and adaptation strategies, informing protection for historic environment assets from climate change at all levels, from local communities through to Government.

 3   Increased knowledge and awareness of heritage assets on the previously understudied remote reefs, islands and headlands across the Irish Sea, evidenced through-newly created and enhanced Historic Environment Records, field intervention with scientific dating and analysis, programmes of citizen science and outreach activities (including walks, talks, training days, workshops and excavation) and new informative resources that will be disseminated.

 4   New, detailed, multi-proxy palaeoenvironmental records from selected locations following an initial survey of existing data and assessment of potential sites. Multi-proxy datasets will be made publicly available and information disseminated through a combination of academic papers, reports and outreach activities. Information on historical weather extremes will be incorporated into an existing database being developed as part of current Arts Heritage Research Council funded research

 5 Provision of open-access, accurate and high resolution baseline geomatic data, which enables the enhanced modelling and evaluation of risk to cultural heritage sites

	and landscapes with respect to coastal erosion, flooding and additional environmental pressures. This will include inshore seabed mapping consistent with and joined up to the onshore terrestrial mapping coverage. Data produced will address knowledge gaps which exist across the study area, and will be provided free online via a dedicated web portal and also via existing national and EU sites/portals. 6 New joint-nation best practice guidance for standardising the recording and monitoring of the impact of climate change on terrestrial and marine heritage assets to inform agencies, statutory bodies and Government and inform adaptive strategies. 7 Innovative data capture, modelling and visualisation products, to raise knowledge and awareness of the historic environment and climate change to include integration of project data within open access shared spatial data infrastructure (SDI) to enable full reuse of all datasets across and beyond the operation across Europe including via the EU Climate-ADAPT Platform. 8 Identification of "at risk" cultural heritage sites within the research area and the production of mitigation and conservation guidance plans for their future management and protection."
21. Intended audience of resource	"The main objective of CHERISH is to increase capacity and knowledge of climate change adaptation for the Irish Sea and Coastal communities." [communities, policy makers, planners, heritage sector]
22. Process of development	""The CHERISH partnership consists of four organisations [The Discovery Programme, Aberystwyth University: Department of Geography and Earth Sciences, Geological Survey Ireland, Royal Commission on the Ancient and Historical Monuments of Wales] who are working closely together towards a common aim, each learning skills and techniques from one another. During fieldwork, staff from the partner organisations work together as a single CHERISH Survey Team across both nations."
23. Organisation/structure/contents	**Home** **About** **News** **Project areas (map, Puffin Island, Skerries)** **Activities** <u>Techniques</u> Archival research Chronology

	Coastal zone assessment Marine Survey Geophysical Survey Palaeoenvironmental Research Terrestrial Metric Survey Lidar Terrestrial Laser Scanning Aerial Survey **Get Involved** **Resources**
FRAMEWORKS	
24. Framework structure	
25. Relevant policy considerations	
26. Resources for implementation identified	
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)	X
Prosperity (economic sustainability)	X
Peace	X
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 mentioned?	No
SDGs AND SDG TARGETS AND LINKAGES	
34. Comments on SDG linkages	The resource is strongly linked to SDGs and targets related to climate adaptation and Disaster Risk Reduction. The aims help support SDG targets as follows: "1 A stimulus for encouraging local tourism and growth in the Blue economy" supports SDG 8.9 (sustainable tourism). The focus on strengthening efforts to protect cultural heritage is closely linked to SDG 11.4. (strengthen efforts to protect and safeguard cultural and natural heritage), and ensuring access to safe and sustainably public and green space (SDG 11.7). Other aims to enhance the evidence base for informed decision making and planning support SDG targets including 1.4 (access to all forms of property, including heritage), 1.5 (reducing the exposure and vulnerability of people and communities to climate change and other hazards), 3.D (planning and early warning to reduce health risks), 9.5 (enhance research), 11.3 (participatory planning for sustainable community development), 11.5 (reducing the impact of losses), 11.A (effective planning links between urban and rural areas), 11.B (adopting Disaster Risk Reduction), 13.1 (strengthening resilience and adaptive capacity to climate change), 13.2 (integrating climate change into planning) and 13.3 (improving education, awareness and institutional capacity to address climate change), and 16.10 (access to information). Supporting sustainable management and protection of coastal areas supports SDG 14.2, and informing coastal protection decisions supports SDG 14.5. Ensuring heritage is considered in policy making and planning supports SDG 17.14 (policy coherence for sustainable development), and cross-sector partnerships support SDG 17.17. Awareness-raising, public involvement and training supports SDG 4.7 (education for sustainable development), 12.8 (information to live in harmony with nature) and 13.3 (climate change education and participation), as well as 4.3 (skills for work),
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	Numbers and proportions of people from particular groups using collections in comparison with demographics in broader society. Numbers of people accessing collections. Number of targeted programmes that aim to enhance access to collections by disadvantaged groups. 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. Involvement of people from disadvantaged groups in decision-making activities and processes relating to collections and collections-based institutions.
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.	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. Number of educational programmes drawing on collections that incorporate resilience perspectives. 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. Number of research programmes drawing on collections that are aimed at building resilience to climate-related and other shocks and disasters. ***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***
SDG 3: Ensure healthy lives and promote well-being for all at all ages	Number of collecting initiatives that aim to build capacity for risk reduction to national and global health risks, for

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.	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. Number of educational programmes incorporating perspectives on early warning, risk reduction and management of national and global health risks. Number of awareness raising programmes that target marginalized and vulnerable groups most exposed to health risks. Plans in place for early warning, risk reduction and management to national and global health risks. Relationships and partnerships in place for risk reduction and management in light of national and global health risks.
SDG 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all 4.3 By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university	Number of learning programmes in schools, colleges and universities that make use of collections. Proportion of learning programmes in schools and colleges making use of collections that prioritise disadvantaged areas. Gender balance of students in learning programmes. Number of programmes using collections that aim to encourage people to participate in education in schools, colleges and universities.
SDG 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all 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,	Numbers of people in each type of programme drawing on collections from different demographic groups. Increases in numbers of people in each type of programme from different demographic groups. Proportion of people involved in such programmes in relation to overall audience size. Evidence that learners have acquired knowledge and skills to promote sustainable development.

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	
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	Numbers of jobs created or supported that relate to sustainable tourism drawing on local products (e.g. craft producers). Develop and implement plans to reduce and remove negative impacts of tourism. Numbers of activities and/or products drawing on local culture. Value to artisans and source communities of activities and products drawing on local culture.
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	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 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 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 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 11.5 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	Collections-based research that supports the understanding and management of disasters of all kinds. 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. 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.

domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations	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. Plans in place to provide special support/protection to poor and vulnerable people and groups in and following disasters.
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 11. Make cities and human settlements inclusive, safe, resilient and sustainable 11.A Support positive economic, social and environmental links between urban, peri-urban and rural areas by strengthening national and regional development planning	Considerations of regional economic, social and environmental trends and risks incorporated into collecting institutions' planning. Participation in local and regional planning, to foster access to services, cultural participation, prevent exclusion, and support equitable urbanisation. Ensure data collection and metrics can be useful for planning in conjunction with other sectors and between urban and rural areas. 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.
SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable 11.B By 2020, substantially increase the number of	***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***

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	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.
SDG 12 Ensure sustainable consumption and production patterns 12.8 By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature	***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*** 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.
SDG 13. Take urgent action to combat climate change and its impacts 13.1 Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries	Plans in place for near and longer term to withstand and actively adapt to climate-related hazards and natural disasters.
SDG 13. Take urgent action to combat climate change and its impacts 13.2 Integrate climate change measures into national policies, strategies and planning	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.
SDG 13. Take urgent action to combat climate change and its impacts	Plans in place to enhance positive contributions to addressing climate change through use of collections. Plans

13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning	in place to ensure collections, collections institutions and broader society can adapt effectively to climate change. Plans in place for effective education and awareness raising on climate change mitigation, adaptation, impact reduction and early 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 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	Proportion of marine and coastal areas in a good ecological condition Numbers of educational and awareness-raising programmes, research activities, and partnerships drawing on collections aiming to support protection of marine and coastal areas.
SDG 14 Conserve and sustainably use the oceans, seas and marine resources for sustainable development 14.5 By 2020, conserve at least 10 per cent of coastal and marine areas, consistent with national and international law and based on the best available scientific information	Number of collections-based activities that support designation, management and science for the protection of marine and coastal protection areas.
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	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

fundamental freedoms, in accordance with national legislation and international agreements	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 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 17.17 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	