Theme		Actions	Timescale	Work- stream	Measuring Progress/Success	2017-18 Progress KEY: White = No progress, Dar
Roles and Responsibilities/ Mainstreaming	4.3 Identify and raise resources that can help achieve a prioritised list of actions arising from these aims and objectives.	4.3.1 Review potential funding sources, e.g. EU, SG, HLF, AHRCF, Charities/foundations	Ongoing	РВ	Annual amount of investment into SHED Programme; Annual geographic spread analysis of investment into SHED Programme	Robin Turner to meet Allan Leslie to discuss fun
Roles and Responsibilities/ Mainstreaming	4.3 Identify and raise resources that can help achieve a prioritised list of actions arising from these aims and objectives.	4.3.2 Apply for funding, individually or collectively	Ongoing	РВ	Annual amount of investment into SHED Programme; Annual geographic spread analysis of investment into SHED Programme	Bid for extension of polygonisation project succo Scottish Borders, Stirling and Clackmannanshire
Roles and Responsibilities/ Mainstreaming	professional and non-professional users in the use of	5.2.1 Tie in to implementation of the Skills aims of Scotland's Archaeology Strategy, including professional training, secondments and community training	Ongoing	РВ	Assessment of number and spread of accredited professionals; Annual No of volunteer training events and number of attendees; Annual No of professional skills training events and number of attendees; Annual No of placements/secondments	SHED postcards taken to conferences
Baseline Data	1.1 Enhance the ability of the current portal, to achieve a comprehensive central point for historic environment information.	1.1.1 Seek additional resources for PastMap development.	Reviewed annually	WS 1	Record Annual PastMap User Statistics	New version of PastMap launched Sprin
Baseline Data	1.1 Enhance the ability of the current portal (PastMap), to achieve a comprehensive central point for historic environment information.	1.1.2 Develop automated upload mechanism and/or live or near live feeds for HERs to put their data on PastMap.	2020	WS 1	Record Annual PastMap User Statistics	Discussions underway on supply of data to Impr there will be 4 updates per annum.
Baseline Data	1.1 Enhance the ability of the current portal, to achieve a comprehensive central point for historic environment information.	1.1.3 Add Conservation Areas to available overlays	Completed	WS 1	Record Annual PastMap User Statistics	
Baseline Data	1.1 Enhance the ability of the current portal, to achieve a comprehensive central point for historic environment information.	1.1.4 Add World Heritage Sites to available overlays	Completed	WS 1	Record Annual PastMap User Statistics	
Baseline Data	1.1 Enhance the ability of the current portal, to achieve a comprehensive central point for historic environment information.	1.1.5 Add Marine Protected Areas to available overlays	Completed	WS 1	Record Annual PastMap User Statistics	
Baseline Data	1.1 Enhance the ability of the current portal (PastMap), to achieve a comprehensive central point for historic environment information.	1.1.6 Increase resilience of PastMap on multiple platforms	Ongoing	WS 1	Record Annual PastMap User Statistics	New version of PastMap launched Spring 2018: to develop data supply services
Standards	2.1 Influence the development of national and international standards for historic environment data.	2.1.2 Ensure data is INSPIRE compliant	Liaise with PMk	WS 1	INSPIRE compliant data; provision of viewing and downloads services for metadata	HES publishes INSPIRE compliant data on the SS
Standards		3.1.1 Develop user-focused web services, ideally as linked open data, for existing data sources, and build them in to all subsequent developments	2021 (HES Digital Strategy timeframe)	WS 1	Web services in place and being used. User survey results	SEWeb features some heritage data
Audits and Process Mapping	4.4 Establish processes and procedures that can ensure the security of data from unauthorised access and/or accidental deletion or corruption.	4.4.1 HES to become MEDIN DAC	Completed	WS 1	Mechanisms in place to secure data; Auditable process for custodianship; Auditable process for Disaster/Emergency/ Business Continuity planning	
Audits and Process Mapping	3.3 Ensure that systems can accommodate the need for some data to be kept private, for privacy, legal and site security reasons.	3.3.1 Audit key current systems	2017	WS 1, WS 2	Mechanisms in place to keep data private. ?Number of breaches	No progress
Audits and Process Mapping	3.3 Ensure that systems can accommodate the need for some data to be kept private, for privacy, legal and site security reasons.	Fol; etc.)	Ongoing, reviewed annually		Mechanisms in place to keep data private. ?Number of breaches	No progress
Audits and Process Mapping	for some data to be kept private, for privacy, legal and site security reasons.	3.3.3 Adapt current systems and build appropriate privacy into new ones	Ongoing, reviewed annually		Mechanisms in place to keep data private. ?Number of breaches	No progress
Standards	1.2 Ensure that information is linked with or between the key data sources and other key portals.	1.2.1 Use current concordance and data linking projects as models to extend this to other areas.	Ongoing with annual reviews	WS 2	Proportion of records with concordance	SHED 4 piloting concordance with museums and

Darker indicates progress
unding
ccessful. Will see completion of ire.
ring 2018
provement Service. Likely that
8: Work with Improvement Service
SSDI
and archives

SHED Implementation Plan

Chan da - 1			2014 17	14/6 2	Anne data da 1 1 1 1 1 1 1	
Standards		1.2.2 Ensure appropriate standards are in place to enable	2014-17 and	WS 2	Agreed standards in place and being	No progress
	the key data sources and other key portals	data sharing	reviewed		used	
			biannually thereafter			
Standards	1.2 Ensure that information is linked with or between	1.2.3 Identify where SHED data should be embedded in	2014-17	WS 2	Survey of appropriate strategic	No progress; awaiting opportunities
		other policy/advisory systems (planning, Water Framework			documents	
		Directive, agriculture etc.)				
Baseline Data	1.3 All data sources to be available online and through		2024	WS 2	Percentage of HERs available online.	Discussions within Scottish HBSMR group on a joint bid which would see every
	web services.	them to help achieve this.				HBSMR user get online
Baseline Data		1.3.2 Aim for complete coverage of Scotland in the HER	2019	WS 2	Percentage of HERs available on Past	Exegesis has developed an export routine which should make submission of data
Baseline Data	web services.	layer on PastMap 1.3.3 Explore ways to help data holders to provide data as	2017	WS 2	map.	to PastMap simpler. Discussions with the Improvement Service are bringing this forward. Cross
Dasenne Data	web services.	web services, possibly through a national portal (SE Web?	2017	VV 3 2	Record Annual Cannole Oser Statistics	reference to 3.1.1.
		PastMap?)				
Baseline Data	1.3 All data sources to be available online and through	1.3.4 Identify funding, advisory support & timetable to	2017	WS 2	Number of HERs online and number of	See 1.3.1
	web services.	achieve all HERs online			HERs contributing to PastMap	
Baseline Data	1.3 All data sources to be available online and through	1.3.5 Make Properties in Care data available online	2017	WS 2	Assessment of diversity of audience	Links to Properties in Care enabled on Canmore
	web services.		2015 2017	14/6 0	being reached	
Baseline Data	1.4 Develop efficient methods for polygonisation	1.4.1 Scope and pilot a polygonisation project for Scotland	2015-2017	WS 2	National % covered by each technique	
	where appropriate, for known extents of historic environment assets and for development			1		
	management purposes, for example to help in					
	managing change and for facilitating research.					
Baseline Data	1.4 Develop efficient methods for polygonisation	1.4.2 Develop polygonisation projects for HER data to	2017-20	WS 2	Methodology signed off; national	Shetland polygonisation project finished. Bid successful for funding to complete
	where appropriate, for known extents of historic	complete the coverage of Scotland, and provide a linked			percentage of coverage.	Scottish Borders, Stirling and Clackmannanshire.
	environment assets and for development	national polygonised dataset covering undesignated historic				
		environment sites (i.e. for use on SE Web land information				
	managing change and for facilitating research.	search). Use DSP as a model.				
Baseline Data	1.4 Develop efficient methods for polygonisation	1.4.3 Pilot New Listed Building elements polygons	Pilot project by	WS 2	Agreed standard in place and being	
	where appropriate, for known extents of historic		2018		used	
	environment assets and for development					
	management purposes, for example to help in					
	managing change and for facilitating research.					
Baseline Data	1.4 Develop efficient methods for polygonisation	1.4.4 Pilot Listed Building polygons	Completed	WS 2	New standard applied by HES	
Daseinie Data	where appropriate, for known extents of historic	1.4.4 Fliot Listed ballaring polygons	completed	VVJZ	New Standard applied by files	
	environment assets and for development					
	management purposes, for example to help in					
	managing change and for facilitating research.					
Baseline Data	1.4 Develop efficient methods for polygonisation	1.4.5 Scope and pilot a polygonisation project for existing	?	WS 2	Successful completion of pilot	On hold
	where appropriate, for known extents of historic environment assets and for development	Listed Building elements				
	management purposes, for example to help in					
	managing change and for facilitating research.					
Baseline Data	1.4 Develop efficient methods for polygonisation	1.4.6 Scope and pilot a polygonisation project for existing	?	WS 2	Agreed standard in place and being	On hold
		Listed Building curtilages			used	
	environment assets and for development					
	management purposes, for example to help in					
	managing change and for facilitating research.					
Standards	2.1 Influence the development of national and	2.1.1 Revise polygon technical specifications for historic	Sep-16	WS 2	Technical specifications for different HE	The specifications for Known Site Extents, Areas of Archaeological Interest and
		environment data in Scotland		1	polygons have been drawn up and	Events are available on the SHED webpage. HBSMRv5 has integrated the
				1	made available online	specifications into the spatial data module (UK-wide). HES - research for an
						illustrated thesaurus is underway.
Standards			Ongoing	WS 2	Standards page created on SHED/SMR	Additional standards have been added to this page. See
	standards are adhered to both within and outwith the	information, links and compliance information; post on web		1	Forum website	http://smrforum-scotland.org.uk/shed/data-standards/
	sector.	page and update regularly		1		
Standards	2.2 Ensure that agreed international and national	2.2.2 Agree metadata standard	Completed	WS 2	Metadata standard posted online	
- carrour au	standards are adhered to both within and outwith the		compicted		metaduta standara postea onine	
	sector.					
Roles and		2.4.2. Build on HER/HES protocol for other data curators	2020	WS 2	Editorial protocols in place	No progress
Responsibilities/	clarity over roles and responsibilities.			1		
Mainstreaming			1	1	1	

SHED Implementation Plan

Baseline Data	3.2 Identify gaps in the data and seek ways to address these.	3.2.1 Systematically fill gaps in key data sources, avoiding duplication where possible	Reviewed biennially from 2017	WS 2	Measure the extent to which stakeholders are contributing knowledge/information to the evidence base – i.e. Record annual no of new records created	Internal HES work may help identify gaps in NRH
Audits and Process Mapping	4.1, 4.6 Agree and implement ways in which unnecessary duplication of data can be avoided and/or removed; Improve the efficiency of the creation and collation of data when it is gathered from various different sources.	4.1.1 Explore roles of DES, OASIS, Canmore and HERs with regard to event reporting	As per OASIS redevelopment timetable	WS 2	Review of relationships completed and recommendations agreed and undertaken	OASIS redevelopment ongoing
Audits and Process Mapping		4.1.3 Suggest that the SHED strategy is included in project designs for HLF, HES and AHRC.	Ongoing	WS 2	Agreement reached with funders to refer to SHED; audit undertaken	Approach made to discuss with HLF; Awaiting or
Audits and Process Mapping	unnecessary duplication of data can be avoided	and archiving as part of the planning process, and encourage local authorities to apply these to archaeological	2017	WS 2	Requirements devised and agreed, and implemented in planning conditions	No progress
Audits and Process Mapping	4.1, 4.6 Agree and implement ways in which unnecessary duplication of data can be avoided and/or removed; Improve the efficiency of the creation and collation of data when it is gathered from various different sources.	4.1.5 Compile a list of current online information sources relating to the historic environment	2016	WS 2	List produced and kept current	Information published on SHED webpag
Audits and Process Mapping		4.4.2 HES to achieve data Seal of Approval and Trusted Digital Repository Status	TDR - 2017; DSA 2017-18	WS 2	Mechanisms in place to secure data; Auditable process for custodianship. ?Number of breaches; DSA and TDR achieved and maintained	In progress; had hoped to achive by end FYR
Audits and Process Mapping		4.4.3 Prepare, disseminate and assist in the implementation of Disaster/Recovery Plans	2018	WS 2	Auditable process for Disaster/Emergency/ Business Continuity planning. ?Number of breaches	No progress
Standards	curation, readability and availability of data.	security/readability relationship between HERs and other	2021 (HES Digital Strategy timeframe)	WS 2	Data security confirmed by data holders	No progress
Standards	4.5 Create the facilities to ensure the long-term curation, readability and availability of data.	4.5.2 HES to achieve Data Seal of Approval and to become a Trusted Digital Repository: See 4.4.2	TDR - 2017; DSA 2017-18	WS 2	See 4.4.2	In progress; had hoped to achive by end FYR
Responsibilities/	5.2 Seek opportunities and identify resources to train professional and non-professional users in the use of Scotland's historic environment data.	5.2.2 Support volunteer training in the creation and use of historic environment data within community engagement/training initiatives	Ongoing	WS 2	Assessment of number and spread of accredited professionals; Annual No of volunteer training events and number of attendees; Annual No of professional skills training events and number of attendees; Annual No of placements/secondments	Work underway on platforms which will help co their work (OASIS, Scotland's Past)
Responsibilities/ Mainstreaming	5.4 Help others to create data and devise data sources through User-Generated Content (UGC) that has the best fit with agreed standards and principles of Scotland's Historic Environment Data.	5.4.1 Embed good practice standards in major initiatives such as Scotland's Urban Past	Ongoing	WS 2	No of new or updated records through UGC	Conversations ongoing with ScRAP and advice gi gathering.
Standards	5.5 Produce guidelines relating to Intellectual Property Rights in order to help avoid copyright and reproduction issues with different media.	5.5.1 Produce guidelines for different users on IPR/copyright, and post on (or link to) SHED website	2017-18	WS 2	Datasets openly available as per Open Data Strategy. Guidelines produced and kept up to date	No progress
Standards	5.5 Produce guidelines relating to Intellectual Property Rights in order to help avoid copyright and reproduction issues.	5.5.2 Support the Open Access Strategy for the sector's publications: See 5.5.1	2017-18	WS 2	See 5.5.1	See 5.5.1

RHE.
opportunity
lage
communities of interest submit
e given on data standards and data

Standards	5.5 Produce guidelines relating to Intellectual Property Rights in order to help avoid copyright and reproduction issues.	5.5.3 Support the Open Data Strategy for the sector's publications	Ongoing, reviewed annually	WS 2	Datasets openly available as per Open Data Strategy	No progress
Standards	5.5 Produce guidelines relating to Intellectual Property Rights in order to help avoid copyright and reproduction issues.	5.5.4 Implementation of Scottish Government Open Data Strategy 2015	2017 for 3* data	WS 2	Datasets openly available as per Open Data Strategy	No progress
Baseline Data	5.6 Encourage the enhancement of content and improve coverage, and provide guidance on how the data all links together.	5.6.1 Develop and guide structured/virtual volunteering (crowd-sourcing projects) to help fill the gaps in data	Development 2014-18, Projects 2018- 25	WS 2		System being developed for semi-automated statistics on proportion and number of records achieving the standards. Lessons being learned from crowd-sourcing projects such as SUP
Baseline Data	5.6 Encourage the enhancement of content and improve coverage, and provide guidance on how the data all links together.	5.6.2 Develop data links and linked data, and explain how they can be used	Ongoing with annual reviews	WS 2	Number of records with enhanced content	No progress
Baseline Data	5.6 Encourage the enhancement of content and improve coverage, and provide guidance on how the data all links together.	5.6.3 Promote concordance between records	Ongoing with priorities reviewed annually	WS 2	Number of records with enhanced concordance.	being improved via the polygonisation projects
Standards	2.3 Achieve consistency across the data, especially where this will assist the user.	2.3.1 Standardize thesauri and KOS / use Linked Open Data across datasets (i.e. Seneschal project)	2020	WS 2 WS 1	Ability to cross search on PastMap	Workshop held on standardising and mapping period terminology
Roles and Responsibilities/ Mainstreaming	2.4 Agree protocols for data editing in order to give clarity over roles and responsibilities.	2.4.1 HES and HERS to discuss and agree protocols.	2020	WS 3	Editorial protocols in place	No progress
Audits and Process Mapping	unnecessary duplication of data can be avoided	4.1.2 Feed into national projects at development stage to ensure that compatible data structure and mechanisms for data transfer are in place before project starts	Ongoing	WS 3		HES - engaging in national initiative to develop Regional Research Frameworks; advising relevant strands of Scotland's Rock Art project; developing a graffiti recording project.
Roles and Responsibilities/ Mainstreaming	5.1 Raise awareness of the existence, uses and value of Scotland's historic environment data.	5.1.1 Produce and implement a Communications Plan for the SHED Strategy	2016	WS 3	Comms Plan devised and implemented. User Survey results	Draft comms plan has been circulated for discussion
Roles and Responsibilities/ Mainstreaming	5.1 Raise awareness of the existence, uses and value of Scotland's historic environment data.	5.1.2 Identify & target key political support to achieving SHED outcomes	Ongoing	WS 3	Comms Plan implemented for local and national decision-makers. User Survey results	Comms plan has been drafted
Roles and Responsibilities/ Mainstreaming	5.1 Raise awareness of the existence, uses and value of Scotland's historic environment data.	5.1.3 Actively promote the SHED Strategy through the Archaeology Strategy and other shared initiatives	Ongoing	WS 3	SHED mentioned and reported on in Archaeology Strategy Action Plan	SHED PB members are on Scottish Strategic Archaeology Committee
Roles and Responsibilities/ Mainstreaming	5.3 Initiate a programme of user feedback and engagement in order to identify demands that may be fulfilled through the SHED initiative.	5.3.1 Focus/user group meeting plus additional surveys, etc. as required. See 5.3.2.	Ongoing	WS 3	See 5.3.2	There has been a small user survey carried out on PastMap
Roles and Responsibilities/ Mainstreaming	5.3 Initiate a programme of user feedback and engagement in order to identify demands that may be fulfilled through the SHED initiative.	5.3.2 Consider creation of a Stakeholder Group. See also 4.1.2.	2017-18	WS 3	No of user engagement exercises; Positive/helpful feedback received. User Survey results	No progress
Audits and Process Mapping	5.7 Identify and engage with new partners for the strategy as it develops.	5.7.2 Recognize connections with rest of UK, EU and Worldwide	Ongoing	WS 3	Provide evidence of partnership working	Talk given to summer meeting of UK HER Forum.
Baseline Data	web services.	collections records available online	2017	WS 4	Links to archive and collections databases	Meetings held and pilot linking projects underway
Standards	2.2 Ensure that agreed international and national standards are adhered to both within and outwith the sector.	2.2.3 Reference museum standards and guidance for sector	Mar-17	WS 4	Standards page created on SHED/SMR Forum website	
Standards	2.2 Ensure that agreed international and national standards are adhered to both within and outwith the sector.	2.2.4 Reference archives standards and guidance for sector	Mar-17	WS 4	Standards page created on SHED/SMR Forum website	Page has been added and links are being gathered.
Audits and Process	5.7 Identify and engage with new partners for the	5.7.1 Audit and analysis of museum, archive and library	2017-2020	WS 4	Provide evidence of partnership	Work underway on MGS survey, data from which may be used to inform SHED 4
Mapping Baseline Data	strategy as it develops. 4.2 Create conditions where the most up to date data	datasets that can be linked or shared 4.2.1 See 1.1 re live or near live feeds	As 1.1	WS1	working Web services in place and current	See 1.1
	is both available and kept up to date.					
Baseline Data	4.2 Create conditions where the most up to date data is both available and kept up to date.	4.2.2 Provide datasets as web services – see 1.3	As 1.3	WS1	Web services in place and current	See 1.3
		í.	1	·	I	