FORMAT				
1. Name of resource	Sustainable Exhibit Design: Guideline	s for designers of		
	small scale interactive and travelling exhibits			
2. Location	https://eprints.lincoln.ac.uk/id/eprint/689/			
3. Alternative location				
4. Author[s]	G. Matthews and K. Abeyasekera			
5. Publisher/producer/	University of Lincoln			
host				
6. Year	2006			
7. Suggested citation	G. Matthews and K. Abeyasekera (200	6). Sustainable Exhibit		
	Design: Guidelines for designers of small scale interactive			
	and travelling exhibits, available at			
	https://eprints.lincoln.ac.uk/id/eprint	/689/		
8. Languages in which	English			
available				
9. Geographic area	United Kingdom but with global releva	ance		
resource relates to				
10. Does the resource				
relate to a specific				
time frame?				
11. Туре	Report			
	Toolkit/Framework/Roadmap	Yes		
	Sign-post to other resource (database) Case studies			
	Other	Yes (Interview		
	Transcripts)			
12. If this is part of an	"This study has been produced as part			
initiative, what is the initiative?	County Council's 'FLOWS 2B Informati Project' and in the wider context, is fo			
initiative:	public awareness of flooding and flood			
	innovative methods of disseminating			
	subject of flood risk to the public. This			
	production of interactive exhibits aim	• •		
	awareness of flood risk in Lincolnshire	-		
	between Lincolnshire County Council			
	Architecture at the University of Linco			
	on creating sustainable exhibitions ha	s been undertaken via		
	the University of Lincoln that will direct	ctly inform the FLOWS		
	exhibits." (p.2)			
COLLECTIONS AND COLLECT	ONS-BASED INSTITUTIONS			
13. Explicit links to	No			
collections				
14. Explicit links to	Yes			
museums/libraries/a	a			
rchives				
15. Types of institutions				
the resource covers				
	Libraries	Х		

	Other		Х
16. Does the resource	Arts, humanities and	Х	
relate to specific	social sciences:		
disciplines?	philosophy, psychology,		
	religion, social sciences,		
	law, politics, language,		
	arts and recreation,		
	architecture, literature,		
	history, geography and		
	ethnology, anthropology,		
	archaeology		
	Science, natural history,	Х	
	technology, medicine,		
	engineering,		
	manufacturing		
17. If no explicit links to	Exhibitions are central to the	work of	collections-based
collections,	institutions, and are a major	means t	hrough which
justification for	collections are shared with t	•	
inclusion	be valuable to guide policies	and acti	ons working towards
	sustainable design.		
HOW IT CONTRIBUTES TO SU			
	tivities the resource relates t		all that apply with X)
Develop collections to protect	-		
natural heritage more effecti		-	
collecting to threatened form		5	
Use collections to promote le	-		
opportunities that contribute	-		
effectively, for example educ		ment	
and sustainable lifestyles, hur			
promotion of a culture of pea		,	
citizenship and appreciation of	-	ure's	
contribution to sustainable de			
development relating to colle		-l	
Use collections to promote c		clusion	
more effectively, for example			
participation, to ensure no-or		ctively	
Use collections to promote surface for example by developing ne			
heritage, and/or considering t			
relation to collections	the rights of stakenoluer grou	psin	
Use collections to support re	search that contributos to		
sustainable development (ind		nd	
self-directed research at all le		nu	
collections) more effectively,		ctive	
facilities, collections and infor			
Make decisions around college			
development more effective			
•	uiting, staff training, staff safe	tv)	
i. employment (reci	and by starr training, starr sale	~ //	

••••••	on, greenhouse gas emissions,	x	
reduction, monito	X		
iii. waste managemen	X		
iv. transport (forms o	X		
	ties including copyright and IP	X	
vi. governance and m		X	
	preparedness and risk reduction		
	artnerships and collaborations		
by developing impactful part	ment more effectively, for example		
	ate clearly to any international conve	ntions (mark all that	
apply)?	are clearly to any international conve		
Culture conventions:			
1952, 71 Protection of Copyri	ight and Neighbouring Rights		
	roperty in the Event of Armed		
Conflict			
	it Trafficking of Cultural Property		
	Cultural and Natural Heritage		
2001 Protection of the Under	water Cultural Heritage		
2003 Safeguarding of the Inta	-		
	on of the Diversity of Cultural		
Expressions			
Rio Conventions:			
Convention on Biological Dive	ersity (CBD), Convention to Combat	X	
Desertification (UNCCD), Fran	nework Convention on Climate		
Change (UNFCCC)			
AIMS AND CONTENT			
20. What issues does	"This study on Sustainable Exhibit D	esign will investigate	
the resource aim to	best practice in sustainable exhibit of	design and produce a	
address?	report setting out guidelines for des	igners of small	
	interactive and travelling exhibits		
	While sustainability covers issues re	-	
	and economic considerations this re		
	mainly on the direct and indirect en		
	implications of designers' practices.	-	
	research effort coincided with a live	• •	
	on the Museum and Exhibition Desi	• •	
University of Lincoln, UK. They were asked to design a			
small-scale interactive exhibit which aimed to raise public			
awareness of flood issues – a topic of immediate			
environmental significance. This study, therefore, was			
initiated to increase the student exhibition designers'			
knowledge of the relationship between the design			
decisions they make and their environmental			
	consequences. The technical specification of exhibits can		
have a positive effect in minimising detrimental environmental impact. This is a relevant consideration			

	regardless of the subject matter to be communicated by the exhibit. Generally, the research aimed to highlight issues that should be considered and offer guidance to designers so that they can ask the right questions and make informed decisions." (p.2; p.9)
21. Intended audience	[researchers, designers, students, and museum
of resource	professionals involved in exhibit design]
22. Process of	"The author and editor thank the following: Claudia
development	Freeman, Research Assistant; Peter Quantick and Clare
	Osman in the Research Office of University of Lincoln for
	help in preparing the research proposal and contract documentation; Toby Forbes-Turner, FLOWS Officer, and Jo
	Rae, Planning Officer, at Lincolnshire County Council for
	creating the opportunity for this research initiative; Anna
	Gagliano, Information Officer at the Building Centre;
	Peter Higgins, Creative Director of Land Design Studio,
	London, Carrie Wiltshire, Interpretation and Display
	Coordinator at the Centre for Alternative Technology, and
	Anna MacDougal, Project Architect with the Hawkins Brown
	architectural partnership for agreeing to be interviewed and
	providing invaluable insight and information; and Michael Blackburn for proof reading the final text.
	Many other individuals provided advice and guidance and
	assisted in locating information. We thank them all and
	hope they will forgive us for not mentioning everyone by
	name" (p.Acknow).
23. Organisation/structu	Acknowledgments
re/contents	Preface
	1.0 What is sustainable design?
	1.1 Overview 1.2 Political background
	1.3 Consumer issues
	1.4 Economic benefits
	1.5 Environmental issues
	2.0 Research methods
	2.1 Methodology
	2.2 Sources
	2.3 Identifying the scope for research
	2.4 Precedents and examples
	2.5 Classification systems 2.6 Interviews
	3.0 Principles of sustainable design
	3.1 Minimising resource consumption
	3.2 Reducing pollution
	4.0 Sustainable Strategies
	4.1 Consumer desire
	4.2 Cradle-to-grave analysis

	4.3 Dematerialisation
	4.4 Energy use
	4.5 Transport
	4.6 Design for disassembly
	4.7 Waste management
	4.8 Specifying materials
	5.0 Evaluating sustainability
	5.1 Methods
	5.2 Environmental accreditations
	6.0 Opportunities for change
	6.1 The role of the designer
	6.2 Sustainability policies
	6.3 Cross discipline collaboration
	6.4 Education
	7.0 Conclusion
	Appendix 1
	Useful organisations and sources
	Appendix 2
	Interview transcripts
	Bibliography & further reading
FRAMEWORKS	
24. Framework	
structure	
25. Relevant policy	Yes
considerations	
26. Resources for	Yes
implementation	
identified	
27. Specific assessment	No
points/indicators/mi	
lestones/action plan	
for monitoring	
28. ASPECTS OF SUSTAIN	ABILITY COVERED BY RESOURCE (mark all that apply)
People (social sustainability)	
Planet (environmental	X
sustainability)	
Prosperity (economic	
sustainability)	
Peace	
Partnerships	
	SIDERATIONS COVERED BY RESOURCE (mark all that apply)
Gender perspectives	
North and South	
perspectives	
	IBUTES TO AGENDA 2030 AND THE SDGs
HOW AGENDA 2030 AND TH	E SDGs FEATURE IN THE RESOURCE

30. SDGs and Agenda	No
2030 specifically	
mentioned?	
31. SDGs specifically	No
mentioned?	
	Ne
32. SDG targets	No
specifically	
mentioned?	
33. SDG indicators	No
specifically	
mentioned?	
SDGs AND SDG TARGETS ANI	
34. Comments on SDG	Implementing the resource helps support a number of SDG
linkages	targets, particularly as they correspond to the resource's 2
	principles: minimising resource consumption and reducing
	pollution.
	Minimising resource consumption:
	The resource supports a number of targets in SDG 12
	(responsible and sustainable production and consumption)
	including: 12.2 (sustainable use of natural resources), 12.4
	(management of chemicals and wastes), 12.6 (adopting
	sustainable practices and reporting) and 12.7 (sustainable
	procurement).
	Also supported are 7.2 (uptake of renewable energy), 7.3
	(increasing energy efficiency) and 9.4 (upgrading
	infrastructure to be sustainable).
	Reducing pollution:
	This resource supports targets that aim for reduction in
	pollution, including 6.3 (reduce use of toxic chemicals to
	improve water quality) and 14.1 (reducing marine
	pollution), 11.2 (encourage sustainable transport), 11.6
	(reducing the adverse environmental impact of cities), and
	12.5 (reducing waste generation).
	As well, incorporating sustainability into education and
	training supports SDGs 4.7 (Education for Sustainable
	Development) as well as 4.4 (skills for work).
35. SDGs and SDG targets	the resource helps advance
SDG 4. Ensure inclusive and	Number of young people and adults in skills-development
equitable quality education	activities and programmes drawing on collections, for
and promote lifelong	employment, decent jobs and entrepreneurship

learning opportunities for	Increase in number of young people and adults in such
all	programmes
4.4 By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, docent jobs and	Number and proportion of staff who have received training in the last year, to better support their contribution to the SDGs.
decent jobs and entrepreneurship	Programs and processes to ensure the availability of a skilled workforce. (GRI)
	Average hours of training per year per employee by gender, and by employee category. (GRI)
	Total estimated number of individuals receiving training from the company as a result of the initiative. (e.g. employees, suppliers, distributors) (Business Call to Action)
SDG 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for	Numbers of people in each type of programme drawing on collections from different demographic groups.
<b>all</b> 4.7 By 2030, ensure that all learners acquire the	Increases in numbers of people in each type of programme from different demographic groups.
knowledge and skills needed to promote sustainable development, including, among others, through education for	Proportion of people involved in such programmes in relation to overall audience size.
sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a	Evidence that learners have acquired knowledge and skills to promote sustainable development.
culture of peace and non- violence, global citizenship and appreciation of cultural diversity and of culture's	
contribution to sustainable development	

SDG 6. Ensure availability and sustainable	SDG 6. Ensure availability and sustainable management of water and sanitation for all
<ul> <li>management of water and sanitation for all</li> <li>6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially</li> </ul>	6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially
SDG 7. Ensure access to affordable, reliable, sustainable and modern	Proportion of energy that comes from renewable sources.
energy for all 7.2 By 2030, increase substantially the share of renewable energy in the global energy mix	Date to achieve net zero, and milestones towards that date.
SDG 7. Ensure access to affordable, reliable,	Reduction in energy use.
sustainable and modern energy for all	Upgrade of old equipment to more efficient equipment.
7.3 By 2030, double the global rate of improvement in energy efficiency	Uptake of renewable sources of energy.
SDG 9. Build resilient	Number and proportion of collections facilities that:
infrastructure, promote inclusive and sustainable industrialization and foster innovation	1.make efficient use of resources, with an ongoing drive for efficiencies and reductions in energy use and waste of all forms.
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	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.

processes, with all countries taking action in accordance with their respective capabilities	3. adopt and/or prioritise collections-related processes and practices to reduce greenhouse gas emissions and waste of all forms.
SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable	Plans in place to ensure safe, affordable, accessible and sustainable transport systems for all, in terms of accessing collections-based institutions,
11.2 By 2030, provide access to safe, affordable, accessible, sustainable transport systems for all, improving road safety,	Plans in place to use collections-based institutions to provide education and awareness of public transport systems and their development.
notably by expanding public transport, with special attention to the needs of those in vulnerable positions, women, children, persons with disabilities and older persons.	Special attention to those in vulnerable situations, including women, children, disabled and older people, taken in plans regarding public transport.
SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable	Plans in place to reduce negative impacts on air quality, and volume and forms of waste.
11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management	Plans in place to eliminate waste of all forms as soon as possible.
SDG 12 Ensure sustainable consumption and production patterns	Reduction of material footprint in terms of reductions in consumption of biomass, fossil fuels, metal ores and non-metal ores.
SDG 12.2 By 2030, achieve the sustainable management and efficient use of natural resources	

SDG 12 Ensure sustainable consumption and production patterns 12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment	Quantities, and reduction in quantities, of chemicals of all kinds, including chemicals used in maintenance of collections facilities, and chemicals used in care and preparation of collections, and all wastes throughout their life cycle, reducing release to air, water and soil. Plans in place to eliminate the use and release of hazardous chemicals into the natural environment as soon as possible.
SDG 12 Ensure sustainable consumption and production patterns 12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse	Quantity and reductions in quantity of waste of all kinds, including avoidance/prevention of waste production, reuse, and recycling. Quantity of material recycled in comparison with quantity sent to landfill. Increases in recycling rate in comparison with landfill.
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 12 Ensure sustainable consumption and production patterns 12.7 Promote public procurement practices that are sustainable, in accordance with national policies and priorities	Incorporation of sustainability considerations into procurement, in terms of advertisement and invitation to tender, contracts, and selection criteria for suppliers.			
SDG 14 Conserve and sustainably use the oceans, seas and marine resources for sustainable development 14.1 By 2025, prevent and significantly reduce marine pollution of all kinds, in particular from land-based activities, including marine debris and nutrient pollution	Number of collections-related programmes, for example research and education, that aim to reduce marine pollution.Quantity, and reduction, of waste of all sorts, with plans in place to eliminate waste of all sorts as soon as possible.Quantity, and reduction, of plastic waste, with plans in place to eliminate the production and release of plastic waste as soon as possible.			
1 2 7 8	3 9	<mark>4</mark> 10	5	6
<mark>7</mark> 8 13 <mark>14</mark>	9 15	10 16	<mark>11</mark> 17	<mark>12</mark>