

FORMAT		
1. Name of resource	RIBA Sustainable Outcomes Guide	
2. Location	https://www.architecture.com/knowledge-and-resources/resources-landing-page/sustainable-outcomes-guide	
3. Alternative location	https://kb.goodhomes.org.uk/guidance/riba-sustainable-outcomes-guide/	
4. Author[s]	Royal Institute of British Architects (RIBA)	
5. Publisher/producer/host	Royal Institute of British Architects (RIBA)	
6. Year	2019	
7. Suggested citation	RIBA (2019). RIBA Sustainable Outcomes Guide. RIBA, available at https://www.architecture.com/knowledge-and-resources/resources-landing-page/sustainable-outcomes-guide	
8. Languages in which available	English	
9. Geographic area resource relates to	UK but with wider relevance	
10. Does the resource relate to a specific time frame?		
11. Type	Report	
	Toolkit/Framework/Roadmap	Yes
	Sign-post to other resource	
	Case studies	
	Other	
12. If this is part of an initiative, what is the initiative?		
COLLECTIONS AND COLLECTIONS-BASED INSTITUTIONS		
13. Explicit links to collections	No	
14. Explicit links to museums/libraries/archives	No	
15. Types of institutions the resource covers	Museums	X
	Archives	X
	Libraries	X
	Other	X
	Arts, humanities and social sciences: philosophy, psychology, religion, social	

<p>16. Does the resource relate to specific disciplines?</p>	<p>sciences, law, politics, language, arts and recreation, architecture, literature, history, geography and ethnology, anthropology, archaeology</p>	
	<p>Science, natural history, technology, medicine, engineering, manufacturing</p>	<p>X</p>
<p>17. If no explicit links to collections, justification for inclusion</p>	<p>The resource can be used by collecting institutions to incorporate sustainable outcomes into building projects and developments.</p>	
<p>HOW IT CONTRIBUTES TO SUSTAINABLE DEVELOPMENT</p>		
<p>18. Collections-related activities the resource relates to (mark all that apply)</p>		
<p>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</p>		
<p>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</p>		
<p>Use collections to promote cultural participation/social inclusion more effectively, for example by reducing barriers to participation, to ensure no-one is 'left behind'</p>		
<p>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</p>		
<p>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</p>		
<p>Make decisions around collections that contribute to sustainable development more effectively</p>		
<p>i. employment (recruiting, staff training, staff safety)</p>		
<p>ii. energy consumption, greenhouse gas emissions, reduction, monitoring and reporting</p>	<p>X</p>	
<p>iii. waste management and reduction of waste</p>	<p>X</p>	
<p>iv. transport (forms of transport, energy use)</p>	<p>X</p>	
<p>v. commercial activities including copyright and IP</p>	<p>X</p>	
<p>vi. governance and management</p>	<p>X</p>	

vii. security, disaster preparedness and risk reduction	
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	
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?	<p>“The RIBA Sustainable Outcomes Guide crystallises targets that need to be achieved, with an aggressive timeline to delivery by 2030 for new and refurbished buildings, and an absolute backstop of 2050 for most existing buildings. The RIBA urges all architects to embrace these and act on them. The time for greenwash and vague targets is over: with the declared climate emergency, it is the duty of all architects and the construction industry to act now and lead the transition to a sustainable future that delivers the UN Sustainable Goals.” (p.5)</p> <p>“In this guide the RIBA has identified eight sustainable outcomes that all buildings contribute to. These sustainable outcomes are clear, measurable, realistic, and transparent between expectations and outcomes. They avoid long checklists and unnecessary complexity and address the triple bottom line definition of sustainability – balancing social, environmental, and economic value.</p> <p>They can be used not just by architects but the wider construction industry and its clients.</p> <p>The RIBA’s eight sustainable outcomes build on previous environmental performance indicators for construction, not least those of the Movement for Innovation in 2001. Not all the UN SDGs are covered, because many of these</p>

	apply at Government policy level, and beyond the remit of an individual built project.” (p.6)
21. Intended audience of resource	[Architects, construction industry and their clients]
22. Process of development	“In June 2019, the RIBA Council declared a climate and ecological emergency and approved all key recommendations of its Ethics and Sustainability Commission, the independent advisory board set up to help the RIBA fulfil its commitment to the UN Global Compact and the 17 UN Sustainable Development Goals. To help implement these recommendations, this guide defines a concise measurable set of core sustainable outcomes and associated metrics that correspond to key UN SDGs. It complements the RIBA Plan of Work 2020 Sustainability Strategy and the RIBA Plan for Use Guide.”
23. Organisation/structure/contents	<p>Preface 4</p> <p>Introduction 5</p> <p>UN Sustainable Development Goals and RIBA Sustainable Outcomes 6</p> <p>RIBA Sustainable Outcomes Metrics 10</p> <p>The RIBA 2030 Climate Challenge 12</p> <p>Sustainability Assessment Tools 14</p> <p>Whole Life Carbon 19</p> <p>Net Zero Operational Carbon 23</p> <p>Net Zero Embodied Carbon 29</p> <p>Sustainable Water Cycle 31</p> <p>Sustainable Connectivity and Transport 33</p> <p>Sustainable Land Use and Bio-Diversity 35</p> <p>Good Health and Wellbeing 37</p> <p>Sustainable Communities and Social Value 41</p> <p>Sustainable Life Cycle Cost 44</p> <p>Conclusion 47</p> <p>References 48</p>
FRAMEWORKS	
24. Framework structure	<p>The eight Sustainability Outcomes can be considered as a framework:</p> <p>Net zero operational carbon</p> <p>Net zero embodied carbon</p> <p>Sustainable water cycle</p> <p>Sustainable connectivity and transport</p> <p>Sustainable land use and bio-diversity</p> <p>Good health and wellbeing</p> <p>Sustainable communities and social value</p> <p>Sustainable life cycle cost</p>

	Further information on each of these, with a target, design principles, metrics and benchmarks information, and links to relevant further information, is provided in the resource.
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)	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?	Yes
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 connected to SDGs 12.6 (adopt sustainable practices) and 12.7 (sustainable procurement), as well as 12.2 (sustainable use of natural resources), 12.4 (management of wastes), 12.5 (reduce waste generation), 8.4 (promote the circular economy). It also contributes towards 13.3 (climate change education and awareness).

	<p>Outcomes related to carbon and energy use relate to SDGs 7.2 (renewable energy), 7.3 (energy efficiency), 9.1 (develop sustainable infrastructure) and 9.4 (retrofit existing infrastructure).</p> <p>Outcomes related to water support SDGs 6.3 (reducing pollution) and 6.4 (water use efficiency).</p> <p>The outcome related to travel relates to SDG 11.2 (sustainable transport).</p> <p>The environmental outcome relates to SDGs 11.4 (protect natural heritage), 6.6 (protect water-related ecosystems) and 15.1 (protect terrestrial and aquatic biodiversity and habitats) (for example), and 11.6 (reducing the impact of cities) and 12.5 (management of wastes).</p> <p>The social outcomes relate to SDGs 3.4 (health and wellbeing), 4.A (effective and inclusive learning environments), 10.2 (promote universal inclusion) and 11.7 (safe and welcoming green and public spaces).</p> <p>The economic outcome is most closely linked to SDG 8.4 (circular and green economy).</p>
35. SDGs and SDG targets the resource helps advance	
<p>SDG 3: Ensure healthy lives and promote well-being for all at all ages 3.4 By 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being</p>	<p>Plans, policies and procedures in place for the safe use of collections, notably in relation to chemical, physical, biological and other forms of hazard.</p> <p>Proportion of users of collections facilities reporting positive well-being during and as a result of activities relating to collections.</p> <p>Number and proportion of programmes relating to collections that incorporate wellbeing considerations and perspectives.</p> <p>Number of targeted programmes drawing on collections that address issues relating to non-communicable diseases, supporting prevention and treatment.</p>
<p>SDG 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all</p>	<p>Number and proportion of education facilities that are child, disability and gender sensitive.</p>

<p>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</p>	<p>Proportion of education facilities that provide safe, non-violent, inclusive and effective learning environments for all.</p> <p>Number and type of initiatives to improve effectiveness of learning environments.</p> <p>Support given to other education facilities to make them more inclusive and effective.</p>
<p>SDG 6. Ensure availability and sustainable management of water and sanitation for all 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</p>	<p>Amount of pollutants, and reduction in pollutants, to water systems.</p> <p>Plans in place for the identification, reduction, replacement and recycling of hazardous chemical and materials, to prevent their release into water systems, with plans to eliminate their use as soon as possible.</p>
<p>SDG 6. Ensure availability and sustainable management of water and sanitation for all 6.4 By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity</p>	<p>Reductions in water use, increase in water recycling, preventing water shortages in vicinity.</p> <p>Information on, programmes relating to, and partnerships relating to water use drawing on collections and collections-based institutions in place, to support efficient use of water.</p>
<p>SDG 6. Ensure availability and sustainable management of water and sanitation for all 6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes</p>	<p>Proportion of water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes in a good ecological condition.</p> <p>Information on, programmes relating to, and partnerships relating to water-related ecosystems drawing on collections and collections-based institutions in place, to support protection of these as effective nature-based solutions and ecosystem services.</p>

<p>SDG 7. Ensure access to affordable, reliable, sustainable and modern energy for all 7.2 By 2030, increase substantially the share of renewable energy in the global energy mix</p>	<p>Proportion of energy that comes from renewable sources.</p> <p>Date to achieve net zero, and milestones towards that date.</p>
<p>SDG 7. Ensure access to affordable, reliable, sustainable and modern energy for all 7.3 By 2030, double the global rate of improvement in energy efficiency</p>	<p>Reduction in energy use.</p> <p>Upgrade of old equipment to more efficient equipment.</p> <p>Uptake of renewable sources of energy.</p>
<p>SDG 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all 8.4 Improve progressively, through 2030, global resource efficiency in consumption and production and endeavour to decouple economic growth from environmental degradation, in accordance with the 10-Year Framework of Programmes on Sustainable Consumption and Production, with developed countries taking the lead</p>	<p>Plans in place to increase resource efficiency, reduce consumption, and to decouple economic growth from environmental degradation.</p>
<p>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</p>	<p>Development of research-useful collections to support reliable, sustainable and resilient use by researchers and others.</p> <p>Number and proportion of collections facilities and stores that support economic development and human well-being.</p> <p>Number and proportion of collections facilities and stores that provide affordable and equitable access for all.</p>

<p>development and human well-being, with a focus on affordable and equitable access for all</p>	<p>Investment in collections facilities.</p> <p>Inclusion of collections information in regional and transborder initiatives, notably via digital access for discoverability.</p>
<p>SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation 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 processes, with all countries taking action in accordance with their respective capabilities</p>	<p>Number and proportion of collections facilities that:</p> <ol style="list-style-type: none"> 1. make efficient use of resources, with an ongoing drive for efficiencies and reductions in energy use and waste of all forms. 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. 3. adopt and/or prioritise collections-related processes and practices to reduce greenhouse gas emissions and waste of all forms.
<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>Number and proportion of educational and participatory programmes that promote participation irrespective of social 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>

	Number and types of partnerships that build relationships with marginalized groups, individuals and communities.
<p>SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable</p> <p>11.2 By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons</p>	<p>Plans in place to ensure safe, affordable, accessible and sustainable transport systems for all, in terms of accessing collections-based institutions,</p> <p>Plans in place to use collections-based institutions to provide education and awareness of public transport systems and their development.</p> <p>Special attention to those in vulnerable situations, including women, children, disabled and older people, taken in plans regarding public transport.</p>
<p>SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable</p> <p>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 strengthen protection of cultural and natural heritage.</p>
<p>SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable</p>	Plans in place to reduce negative impacts on air quality, and volume and forms of waste.

<p>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</p>	<p>Plans in place to eliminate waste of all forms as soon as possible.</p>
<p>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</p>	<p>Numbers of people accessing collecting institutions from different demographic groups, notably women, children, older people and persons with disabilities.</p> <p>Increases in numbers of people accessing collecting institutions from different demographic groups.</p> <p>Measures taken to remove barriers to access green and public spaces.</p> <p>Extent of green space provided by collections institutions.</p>
<p>SDG 12 Ensure sustainable consumption and production patterns 12.2 By 2030, achieve the sustainable management and efficient use of natural resources</p>	<p>Reduction of material footprint in terms of reductions in consumption of biomass, fossil fuels, metal ores and non-metal ores.</p>
<p>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</p>	<p>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.</p> <p>Plans in place to eliminate the use and release of hazardous chemicals and harmful wastes of all kinds into the natural environment as soon as possible.</p>
<p>SDG 12 Ensure sustainable consumption and production patterns</p>	<p>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</p>

<p>12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse</p>	<p>with quantity sent to landfill. Increases in recycling rate in comparison with landfill.</p>
<p>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</p>	<p>Clear visions, strategies and plans in place for all aspects of sustainability – environmental, social and economic (people, planet, prosperity)- across all areas of activity.</p> <p>Visions, strategies and plans relating to sustainability to be publicly available and incorporated into planning documents.</p> <p>Commitments to be in line with local, regional, national and/or international targets and ambitions.</p> <p>Incorporation of sustainability into reporting for funders and other stakeholders, including the public. Reporting to include commitments and progress towards targets.</p>
<p>SDG 12 Ensure sustainable consumption and production patterns 12.7 Promote public procurement practices that are sustainable, in accordance with national policies and priorities</p>	<p>Incorporation of sustainability considerations into procurement, in terms of advertisement and invitation to tender, contracts, and selection criteria for suppliers.</p>
<p>SDG 13. Take urgent action to combat climate change and its impacts 13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning</p>	<p>Plans in place to enhance positive contributions to addressing climate change through use of collections. Plans in place to ensure collections, collections institutions and broader society can adapt effectively to climate change.</p> <p>Plans in place for effective education and awareness raising on climate change mitigation, adaptation, impact reduction and early warning.</p> <p>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.</p>
<p>SDG 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat</p>	<p>Proportion of terrestrial and inland freshwater systems in a good ecological condition.</p>

desertification, and halt and reverse land degradation and halt biodiversity loss 15.1 By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements		Information on, programmes relating to, collections development, and partnerships relating to terrestrial and freshwater systems drawing on collections in place, to support their protection and effective functioning.			
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7	8	9	10	11	12
13	14	15	16	17	