FORMAT				
1. Name of resource	UNEP A Practical Guide to Climate-resilient Buildings & Communities			
2. Location	https://www.unep.org/resources/practical-guide-climate- resilient-buildings			
3. Alternative location				
4. Author[s]	UN Environment Programme (UNEP)			
5. Publisher/producer/ host	UN Environment Programme (UNEP)			
6. Year	2021			
7. Suggested citation	United Nations Environment Programme (2021). A Practical Guide to Climate-resilient Buildings & Communities. UNEP, Nairobi, available at https://www.unep.org/resources/practical-guide-climate-resilient-buildings			
8. Languages in which available	English			
9. Geographic area resource relates to	Worldwide			
10. Does the resource				
relate to a specific				
time frame?				
11. Type	Report			
	Toolkit/Framework/Roadmap	Yes		
	Sign-post to other resource (database)	Yes		
	Case studies	Yes		
12 If this is part of an	Other			
12. If this is part of an initiative, what is the				
initiative?				
COLLECTIONS AND COLLECTIONS	ONS-BASED INSTITUTIONS			
13. Explicit links to collections	No			
14. Explicit links to	No			
museums/libraries/a				
rchives				
15. Types of institutions		X		
the resource covers		X		
	Libraries	V		
16. Types of	Other X Arts, humanities and social X			
collections/disciplin	sciences: philosophy,			
es the resource	psychology, religion, social			
covers	sciences, law, politics,			

	language, arts and			
	recreation, architecture,			
	literature, history,			
	geography and ethnology,			
	anthropology, archaeology			
	Science, natural history,	X		
	technology, medicine,			
4= 16 11 11 11 1	engineering, manufacturing		1 11 11 11	
17. If no explicit links to	The resource can be used by c			
collections, to plan climate adaptation measures for their buildings, a			-	
justification for	also be used to inform educat	ional and	participatory	
inclusion	activities.			
HOW IT CONTRIBUTES TO SU		/ l l	Lubar and A	
	tivities the resource relates to		tnat apply)	
	ct and safeguard wider cultural	and		
	vely , for example by targeting			
	s of heritage in strategic ways		· ·	
Use collections to promote le			X	
	e to sustainable development r			
	ation for sustainable developm	ent		
and sustainable lifestyles, hur				
promotion of a culture of pea		,		
citizenship and appreciation of cultural diversity and of culture's				
contribution to sustainable development and/or skills development				
relating to collections				
	ultural participation/social incl			
-	by reducing barriers to particip	pation,		
to ensure no-one is 'left behir				
-	ustainable tourism more effect			
	w products based on local cultu			
_	the rights of stakeholder groups	s in		
relation to collections	and that will be			
Use collections to support re		d self		
-	cluding all forms of personal and			
	that make use of stored collect	•		
more effectively, for example by providing effective facilities,				
collections and information to meet researchers' needs				
Make decisions around collections that contribute to sustainable				
i. employment (recruiting, staff training, staff safety) X				
		/)	X	
	on, greenhouse gas emissions,		X	
reduction, monito			V	
	nt and reduction of waste		X	
-	f transport, energy use)			
	ies including copyright and IP		V	
vi. governance and m	anagement		X	

vii. security, disaster preparedness and risk reduction	X			
Direct external leadership, partnerships and collaborations	X			
towards sustainable development more effectively, for example				
by developing impactful partnerships				
19. Does the resource relate clearly to any international conventions (mark all that				
apply)?				
Culture conventions:				
1952, 71 Protection of Copyright and Neighbouring Rights				
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	Х			
Desertification (UNCCD), Framework Convention on Climate				
Change (UNFCCC)				

AIMS AND CONTENT

20. What issues does the resource aim to address?

"This practical guide has been prepared because the United Nations Environment Programme (UNEP) recognizes the key role buildings can play in enhancing climate change adaptation, improving resilience and addressing and mitigating risk. Furthermore, there is a recognized need for additional resources addressing good practice for buildings in communities and towns that face risk from disasters but may suffer from a deficit of professionally trained architects, engineers, contractors, manufacturers and other practitioners. Therefore, this note is written for a broad audience, including those with little experience in the building and construction industries.

The practical guide sets out to provide an overview of the fundamental types of interventions at the building scale. It specifically offers concepts and approaches for the building envelope, roof, structure, orientation and materials. The approaches and technologies presented in this document are tailored toward a developing country context and a built environment that is largely self-constructed. However, the majority of the techniques identified in this practical guide can be upscaled and applied to buildings of any type, including apartment complexes, hospitals and schools." (p.15-16)

	I	
21. Intended audience	[Anyone interested in climate adaptation relating to	
of resource	buildings]	
22. Process of		
development		
23. Organisation/structu	Acknowledgements 2	
re/contents	Foreword 3	
	Table of contents 5	
	List of figures 8	
	List of tables 9	
	Abbreviations and acronyms 10	
	Glossary 12	
	1 Introduction 14	
	2 Challenges and impacts of a changing climate on the	
	built environment 17	
	3 General approaches and design principles 29	
	4 Adaptation ideas for thermal regulation and comfort 39	
	5 Adaptation ideas for specific climate risks: flooding,	
	droughts and cyclones. 58	
	6 Conclusion, recommendations and next steps 76	
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	References 86	
FRAMEWORKS		
24. Framework	The table of recommended adaptation measures for	
structure	different climatic changes on pages 80-82 can be	
	considered as a framework.	
25. Relevant policy	Yes	
considerations		
26. Resources for	Yes	
implementation		
identified		
27. Specific assessment	Yes	
points/indicators/mi		
lestones/action plan		
for monitoring		
	ABILITY COVERED BY RESOURCE (mark all that apply)	
People (social sustainability)	X	
Planet (environmental	X	
sustainability)		
Prosperity (economic	X	
sustainability)		
Peace	X	
Partnerships	X	
29. CROSS-CUTTING CONSIDERATIONS COVERED BY RESOURCE (mark all that apply)		
Gender perspectives		
North and South	Х	
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 AN	D LINKAGES		
34. Comments on SDG linkages	The resource can help support a number of SDG targets around climate mitigation, adaptation and Disaster Risk Reduction.		
	These include SDGs 1.5 (reduce the impact of disasters on poor and vulnerable people), 6.4 (efficient use of water), 7.2 (adopt renewable energy sources), 7.3 (increase energy efficiency), 9.1 (develop sustainable infrastructure), 9.4 (retrofit infrastructure to be sustainable), 11.4 (protect and safeguard cultural and natural heritage), 11.5 (reduce the impact of disasters), 11.7 (safe and welcoming green and public places), 11.B (integrated Disaster Risk Reduction), 12.6 (adopt sustainable practices), 12.7 (sustainable procurement), 13.1 (enhance climate adaptation and reduce losses to natural disasters in all countries) and 13.3 (climate education, awareness and institutional capacity). Considering Nature-based Solutions supports SDG 15.9 (integrate biodiversity values into planning).		

In addition, the resource supports SDGs 4.7 (education for sustainable development) and 12.8 (information for lifestyles in harmony with nature).

35. SDGs and SDG targets the resource helps advance

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 climaterelated 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 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, human rights, gender equality, promotion of a culture of peace and nonviolence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development

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.

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

Reductions in water use, increase in water recycling, preventing water shortages in vicinity.

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.

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	Proportion of energy that comes from renewable sources. Date to achieve net zero, and milestones towards that date.
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	Reduction in energy use. Upgrade of old equipment to more efficient equipment. Uptake of renewable sources of energy.
spg 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 development and human well-being, with a focus on affordable and equitable access for all	Development of research-useful collections to support reliable, sustainable and resilient use by researchers and others. Number and proportion of collections facilities and stores that support economic development and human well-being. Number and proportion of collections facilities and stores that provide affordable and equitable access for all. Investment in collections facilities. Inclusion of collections information in regional and transborder initiatives, notably via digital access for discoverability.
spg 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	Number and proportion of collections facilities that: 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.

the that are a set a		
with their respective capabilities		
capabilities		
SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable 11.4 Strengthen efforts to	11.4.1 Total expenditure (public and private) per capita spent o the preservation, protection and conservation of all cultural and natural heritage, by type of heritage	
protect and safeguard the world's cultural and natural 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,	Collections-based research that supports the understanding and	
safe, resilient and sustainable	management of disasters of all kinds.	
11.5 By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic	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.	
losses relative to global gross domestic product caused by disasters, including water- related disasters, with a focus	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.	
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,	Numbers of people accessing collecting institutions from different demographic groups, notably women, children, older people and persons with disabilities.	
universal access to sale,		

inclusive and accessible,	Increases in numbers of people accessing collecting
green and public spaces, in	institutions from different demographic groups.
particular for women and	
children, older persons and	Measures taken to remove barriers to access green and
persons with disabilities	public spaces.
persons with disabilities	public spaces.
	Extent of green space provided by collections institutions.
SDG 11. Make cities and	
human settlements inclusive,	11.B.1 Proportion of local governments that adopt and
safe, resilient and sustainable	implement local disaster risk reduction strategies in line with
11.B By 2020, substantially	the Sendai Framework for Disaster Risk Reduction 2015-2030a
increase the number of cities	
and human settlements	Disaster Risk Reduction strategies and plans in place, in line with
adopting and implementing	the Sendai Framework for Disaster Risk Reduction, to ensure
integrated policies and plans	collecting institutions and collections are factored into planning,
towards inclusion, resource	and contribute effectively to Disaster Risk Reduction.
efficiency, mitigation and	and definitions of courtery to bisaster makine deduction.
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	
i disaster risk management at	
all levels	
all levels SDG 12 Ensure sustainable	
all levels SDG 12 Ensure sustainable consumption and	Clear visions, strategies and plans in place for all aspects of
all levels SDG 12 Ensure sustainable	Clear visions, strategies and plans in place for all aspects of sustainability – environmental, social and economic
all levels SDG 12 Ensure sustainable consumption and	
all levels SDG 12 Ensure sustainable consumption and production patterns 12.6 Encourage companies,	sustainability – environmental, social and economic
all levels SDG 12 Ensure sustainable consumption and production patterns 12.6 Encourage companies, especially large and	sustainability – environmental, social and economic (people, planet, prosperity)- across all areas of activity.
all levels SDG 12 Ensure sustainable consumption and production patterns 12.6 Encourage companies, especially large and transnational companies, to	sustainability — environmental, social and economic (people, planet, prosperity)- across all areas of activity. Visions, strategies and plans relating to sustainability to be
all levels SDG 12 Ensure sustainable consumption and production patterns 12.6 Encourage companies, especially large and transnational companies, to adopt sustainable practices	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
all levels 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 — environmental, social and economic (people, planet, prosperity)- across all areas of activity. Visions, strategies and plans relating to sustainability to be
all levels 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	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.
all levels 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 – 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
all levels 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	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.
all levels 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	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
all levels 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	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
all levels 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	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
all levels 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	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
all levels 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	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
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	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
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 SDG 12 Ensure sustainable	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 12.6 Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle SDG 12 Ensure sustainable consumption and	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. Incorporation of sustainability considerations into
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 SDG 12 Ensure sustainable	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 12.6 Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle SDG 12 Ensure sustainable consumption and	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. Incorporation of sustainability considerations into
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 SDG 12 Ensure sustainable consumption and production patterns 12.7 Promote public	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. Incorporation of sustainability considerations into procurement, in terms of advertisement and invitation to
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 SDG 12 Ensure sustainable consumption and production patterns	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. Incorporation of sustainability considerations into procurement, in terms of advertisement and invitation to

accordance with national		
policies and priorities SDG 12 Ensure sustainable		
	12.0.1 Futant to which (i) alphal siting achieve the advention and	
consumption and production patterns	12.8.1 Extent to which (i) global citizenship education and	
-	(ii) education for sustainable development (including	
12.8 By 2030, ensure that	climate change education) are mainstreamed in (a)	
people everywhere have the relevant information	national education policies; (b) curricula; (c) teacher	
	education; and (d) student assessment	
and awareness for	Futout to which alabal citizanship advection and advection	
sustainable development	Extent to which global citizenship education and education	
and lifestyles in harmony with nature	for sustainable development (including climate change	
with nature	education) are mainstreamed in formal, informal and non-	
	formal education programmes and activities drawing on	
SDC 12. Take present action to	and related to collections.	
SDG 13. Take urgent action to combat climate change and	Plans in place for near and longer term to withstand and actively	
its impacts	adapt to climate-related hazards and natural disasters.	
13.1 Strengthen resilience and	adapt to difficie related fidual distribution distributions	
adaptive capacity to climate-		
related hazards and natural		
disasters in all countries		
SDG 13. Take urgent action		
to combat climate change	Plans in place to enhance positive contributions to	
and its impacts	addressing climate change through use of collections. Plans	
13.3 Improve education,	in place to ensure collections, collections institutions and	
awareness-raising and	broader society can adapt effectively to climate change.	
human and institutional		
capacity on climate change	Plans in place for effective education and awareness raising	
mitigation, adaptation,	on climate change mitigation, adaptation, impact reduction	
impact reduction and early	and early warning.	
warning		
	Plans in place to reduce negative contributions of	
	collections-related functions, e.g. measuring greenhouse	
CDC 45 Decision	emissions with plans and targets in place to reduce them.	
SDG 15 Protect, restore	Dran oution and mumber of value at all and a little at	
and promote sustainable	Proportion and number of relevant plans, processes and	
use of terrestrial	strategies that incorporate ecosystem and biodiversity	
ecosystems, sustainably manage forests, combat	values, and their relationships with effective collections.	
desertification, and halt	Plans in place to ensure that development of collections	
and reverse land	facilities contributes to effective conservation and	
degradation and halt	restoration of terrestrial ecosystems.	
biodiversity loss	restoration of terrestrial ecosystems.	
15.9 By 2020, integrate		
ecosystem and biodiversity		
values into national and		
local planning,		
development processes,		
a storophilene processes,		

poverty reduction stra and accounts	tegies				
<mark>1</mark>	2	3	<mark>4</mark>	5	<mark>6</mark>
<mark>7</mark>	8	<mark>9</mark>	10	<mark>11</mark>	<mark>12</mark>
<mark>13</mark>	14	<mark>15</mark>	16	17	