













Botanische Gärten der Universität Bonn








General information


Institution	Botanische Gärten der Universität Bonn
Legal name	Botanische Gärten der Universität Bonn
Foundation year	1818
Name of the Director General or Head of the institution	Prof. Dr. Maximilian Weigend
Brief description of the Scientific Mission of your institution	Biodiversity research and conservation of plants from across the world
Brief description of the vision of your institution	Pflanzenvielfalt erforschen, erhalten, erklären, erleben (Investigating, preserving, explaining and experiencing plant diversity)
Main objectives or lines of action	Scientific research and teaching in biodiversity, systematics, ecology in close collaboration with the Nees-Institute of plant biodiversity. Outreach activities including didactic displays in the gardens. Extensive international collaboration (plant exchange, visits, joint projects)
Biodiversity related objectives	All of the above

Botanische Gärten der Universität Bonn's contribution to the Strategic Plan for Biodiversity 2011-2020 and the Aichi Targets

Objective / Aichi Target		Yes	Partially	No	NA	Main actions performed (for 2011-2016):	
A	1		Does your institution develop actions aimed to strengthen awareness, concern and knowledge about biodiversity?				http://botgart.uni-bonn.de/o_uns/masterplan.php , http://www.freunde.botgart.uni-bonn.de/fuehrung.php
		X					
	2		Do some of the activities that your institution carries out contribute to the valuation of biodiversity and ecosystem services, contributing to achieve poverty reduction and sustainable development?				http://www.fp7-palms.org/ http://www.bion-bonn.org/de
		X					
3		Does your institution develop actions aimed at countering the effects of harmful incentives for biodiversity or promote the application of incentives with positive effects on biodiversity?				X	
4		Has your institution developed and/or promoted scientific knowledge and/or technology innovation that promote sustainable production and/or consumption (including within your institution)?				X	
B	5		Has your institution carried out actions that contribute to a decrease in the rate of loss of natural habitats?				http://botgart.uni-bonn.de/naturschutz/naturschutz.php
					X		
6		Has your institution developed or implemented scientific knowledge and/or technology and innovation to promote the sustainable extraction and recovery of species of fish, invertebrates and aquatic plants, or that have contributed to reduce illegal fishing or incidental catch?				X	

Objective / Aichi Target		Yes	Partially	No	NA	Main actions performed (for 2011-2016):	
	<i>and invertebrates</i>						
C	 7 Sustainable primary sector	Does your institution promote and contribute to the sustainable management of agricultural land, and/or farming of aquatic organisms, and/or forests?					
					X		
	 8 Pollution reduction	Does your institution carry out actions to control, monitor and/or improve water pollution, and/or ocean and coast pollution, and/or soil pollution, and/or solid waste pollution, and/or air pollution?					
					X		
	 9 Invasive species	Does your institution develop actions aimed at the identification, prevention, control and eradication of exotic invasive species?					
			X				
	 10 Pressures on vulnerable ecosystems	Does your institution develop scientific knowledge and/or technology and innovation to reduce the anthropogenic pressure factors and maintain integrity and functioning of coral reefs and/or other ecosystems vulnerable to climate change?					
					X		
	 11 Protected Areas	Does your institution develop scientific knowledge and/or technology and innovation that promote or contribute the efficient management, representativeness, connectivity and integration landscape of protected areas (terrestrial, and/or marine and coastal) or the creation/incorporation of new public, private or community conservation areas?					
			X			http://www.bion-bonn.org/de	
	 12 Threatened Species	Does your institution develop scientific knowledge and/or technology and innovation to promote and contribute to the effective protection of threatened species?					
		X				http://journal.frontiersin.org/article/10.3389/fgene.2014.00351/full	
	13	Does your organization develop scientific knowledge and/or technology and innovation aimed to maintain native genetic diversity and the wild relatives of cultivated plant species and/or livestock and domesticated animals?					

Objective / Aichi Target		Yes	Partially	No	NA	Main actions performed (for 2011-2016):
	 <i>Genetic diversity</i>	X				http://botgart.uni-bonn.de/nutz/nutzpflanzen.php http://botgart.uni-bonn.de/naturschutz/naturschutz.php
D	14  <i>Restoration</i>	Has your institution developed scientific knowledge and/or technology and innovation for the restoration and recovery of ecosystem services taking into consideration the needs of women, indigenous and local communities and the poor and vulnerable?				
				X		
	15  <i>Resilience</i>	Has your institution developed scientific, technical and/or technological actions of ecological restoration and rehabilitation? How many actions since 2011 and is the approximate restored area of degraded ecosystems within the framework of these actions?				
	X				List of actions: Providing threatened species for re-introduction and enrichment planting, carried out by the state environmental agencies, ca. 20 species for 20 different areas in the past five years. Restored area: several dozen ha.	
16  <i>Nagoya Protocol</i>	Have you heard of the Nagoya Protocol, and has your institution developed scientific, technical and/or technological actions linked to it?					
	X				Extensive consultations with the national authority and the ministries, several policy papers for university and for publications in prep.	
E	17  <i>NBSAP update</i>	Has your institution collaborated in the elaboration and/or implementation of the National Biodiversity Strategy of its country, or any other biodiversity strategy at a sub-national level or equivalent?				
				X		Limited consultations by the national and state agencies, which are largely autonomous in this.
	18  <i>Traditional Knowledge</i>	Does your institution integrate traditional knowledge, innovations and practices of indigenous and local communities relevant for the conservation and sustainable use of biodiversity?				
				X	Not really applicable in Germany	
19  	Does your institution generate scientific, technical and/or technological information on biodiversity? How does your institution consider that the availability of useful information on biodiversity (assessment, monitoring, inventories, studies, etc.) is in your country?					

Objective / Aichi Target		Yes	Partially	No	NA	Main actions performed (for 2011-2016):
	Knowledge, science and technology	X				<p>Examples of information generated in conservation, values, functioning, status, trends, impacts of loss, sustainable use or others.</p> <p>Numerous scientific publications on diversity, taxonomy, systematics and biogeography. Most importantly</p> <p>https://www.nees.uni-bonn.de/research/systematics-evolution-ecology/biogeography-and-macroecology-biomaps/the-biomaps-project</p> <p>https://www.nees.uni-bonn.de/research/systematics-evolution-ecology/biogeography-and-macroecology-biomaps/worldmaps/worldmaps-of-plant-diversity</p>
		Sufficient	Limited	Scarce		<p>Indicate relevant gaps of information and information available and its sources.</p> <p>Biodiversity in Germany is generally very well understood. Major poorly understood groups are invertebrates and fungi. Similarly, the very rapid dynamics of invasives are tracked with a considerable time lag.</p>
20	 <p>Funding</p>	<p>What is the approximate percentage of your institution's annual budget destined for the implementation of scientific, technical and/or technological actions aimed for the conservation and sustainable use of biodiversity and ecosystem services and does your institution have fundraising strategies for this purpose?</p>				<p>Virtually the entire budget is dedicated to the preservation of our plant collection, its curation and display. Very roughly 80% of the annual budget goes into personnel (gardeners and garden administration), the rest is peripheral cost (energy, infrastructure). There are currently limited fundraising activities at the Botanical Gardens themselves, but the collections are widely used by applied projects by different organizations with their own fundraising strategy. Use of the garden collections for research and conservation is entirely free of charge for third parties.</p>