

Science Supporting Online Material

The Convention on Biological Diversity's 2010 Target

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Table S1. The CBD framework for assessing progress toward the 2010 target, showing the 18 indicators already identified for immediate testing (**bold**) and future development (not bold), and the additional indicators suggested by the Royal Society workshop and potentially available by 2010. No indicators were identified for access and benefit-sharing. A full set of workshop recommendations can be viewed at www.twentyten.net.

Identified indicators	Proposed indicators
<i>Components of biological diversity</i>	
1. Forest area 2. Trends in abundance and distribution of selected species 3. Coverage of protected areas 4. Change in status of threatened species 5. Trends in genetic diversity of domesticated plants and animals	A. Condition of forests B. Extent and condition of shrublands, grasslands and deserts C. Extent of wetlands and large water bodies D. Catchment condition – extent of riparian vegetation E. Percent live coral cover F. Extent and condition of estuaries G. Extent and location of mangroves and seagrass and macroalgal beds H. Management effectiveness of protected areas I. Investment in protected areas
<i>Sustainable use</i>	
6. Area of forest, agriculture and aquaculture under sustainable management 7. Proportion of products derived from sustainable sources	
<i>Threats to biodiversity</i>	
8. Nitrogen deposition 9. Number and cost of alien invasions	J. Marine fishing effort K. Road-free area L. Epidemic outbreaks among wild species
<i>Ecosystem integrity and ecosystem goods and services</i>	
10. Marine trophic index 11. Water quality in inland waters 12. Freshwater trophic index 13. Connectivity and fragmentation of ecosystems 14. Incidence of human-induced ecosystem failure 15. Health and well-being of people in biodiversity-dependent communities 16. Biodiversity use in food and medicine	M. Number of dams N. Sediment load in rivers O. Percent population without potable water P. Carbon storage in ecosystems Q. Market share of nature-based tourism R. Hit rates for biodiversity-related website S. Pesticide use per unit agricultural harvest T. Agricultural harvest per unit effort U. Fish harvest per unit effort V. Timber and fuel wood harvest per unit effort
<i>Traditional knowledge, innovations and practices</i>	
17. Status and trends of linguistic diversity and numbers of speakers of indigenous languages	
<i>Resource transfers</i>	
18. Official Development Assistance in support of CBD	

Fig. S1. A simple model of the interactions between the human, biological, physical and chemical components of the earth system. The 2010 target indicators (and most of the indicators under discussion—depicted by numbers and letters from Table S1) are primarily concerned with the state of biodiversity and its implications for human well-being (the double-bordered boxes). However, broadening public support and developing policies capable of achieving the target will require greatly improved understanding of the linkages between biodiversity, people, and the earth's geophysical and geochemical processes. This will in turn require greater involvement of **social scientists** and **earth systems scientists**, as well as **biologists**.

