



WORLDWATCH INSTITUTE

State of the World 2013

È ANCORA POSSIBILE LA SOSTENIBILITÀ?

Edizione Italiana a cura di Gianfranco Bologna



QUESTO VOLUME
È RACCOMANDATO
DA WWF ITALIA



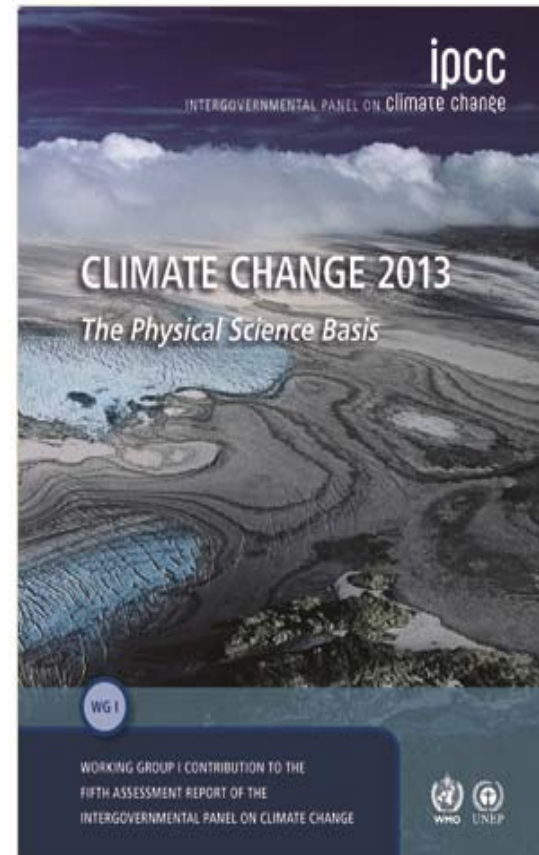
Edizioni
Ambiente

IPCC WGI AR5

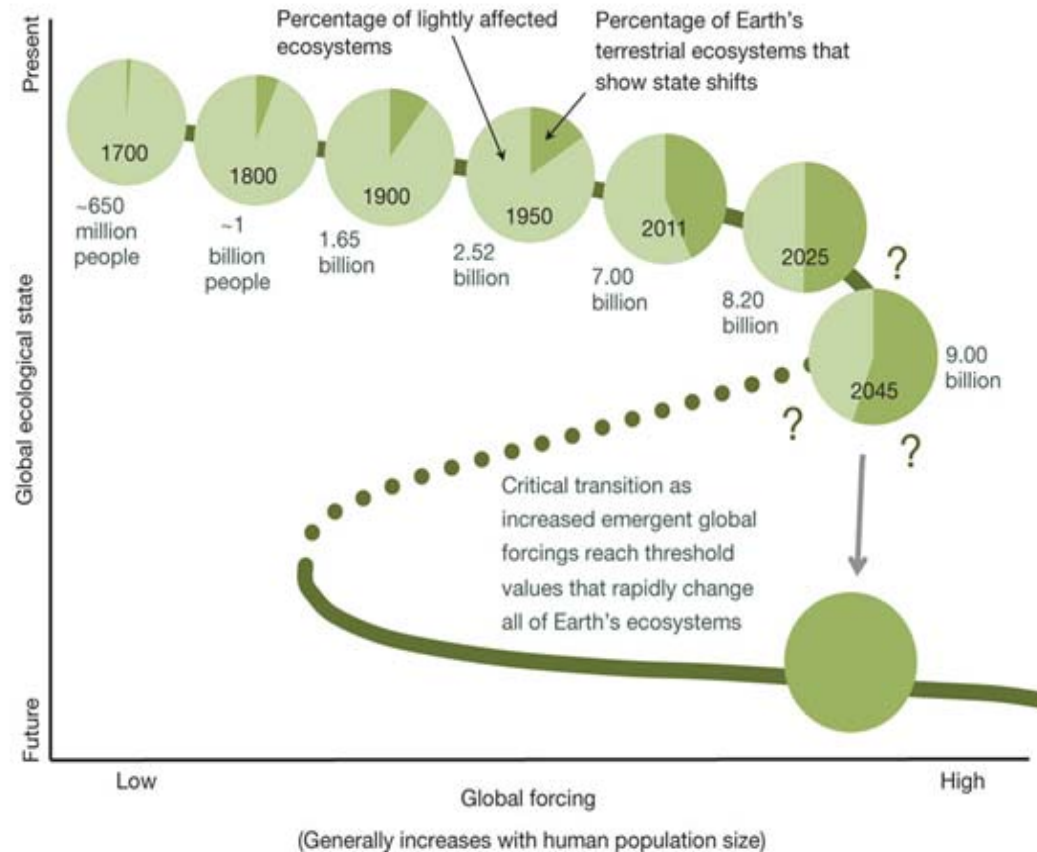
Climate Change 2013: The Physical Science Basis

The Twelfth Session of Working Group I (WGI-12) will take place from 23 to 26 September 2013 in Stockholm, Sweden. This Session of WGI is being convened to approve the Summary for Policymakers (SPM) of the Working Group I contribution to the IPCC Fifth Assessment Report (WGI AR5) and accept the underlying scientific and technical assessment.

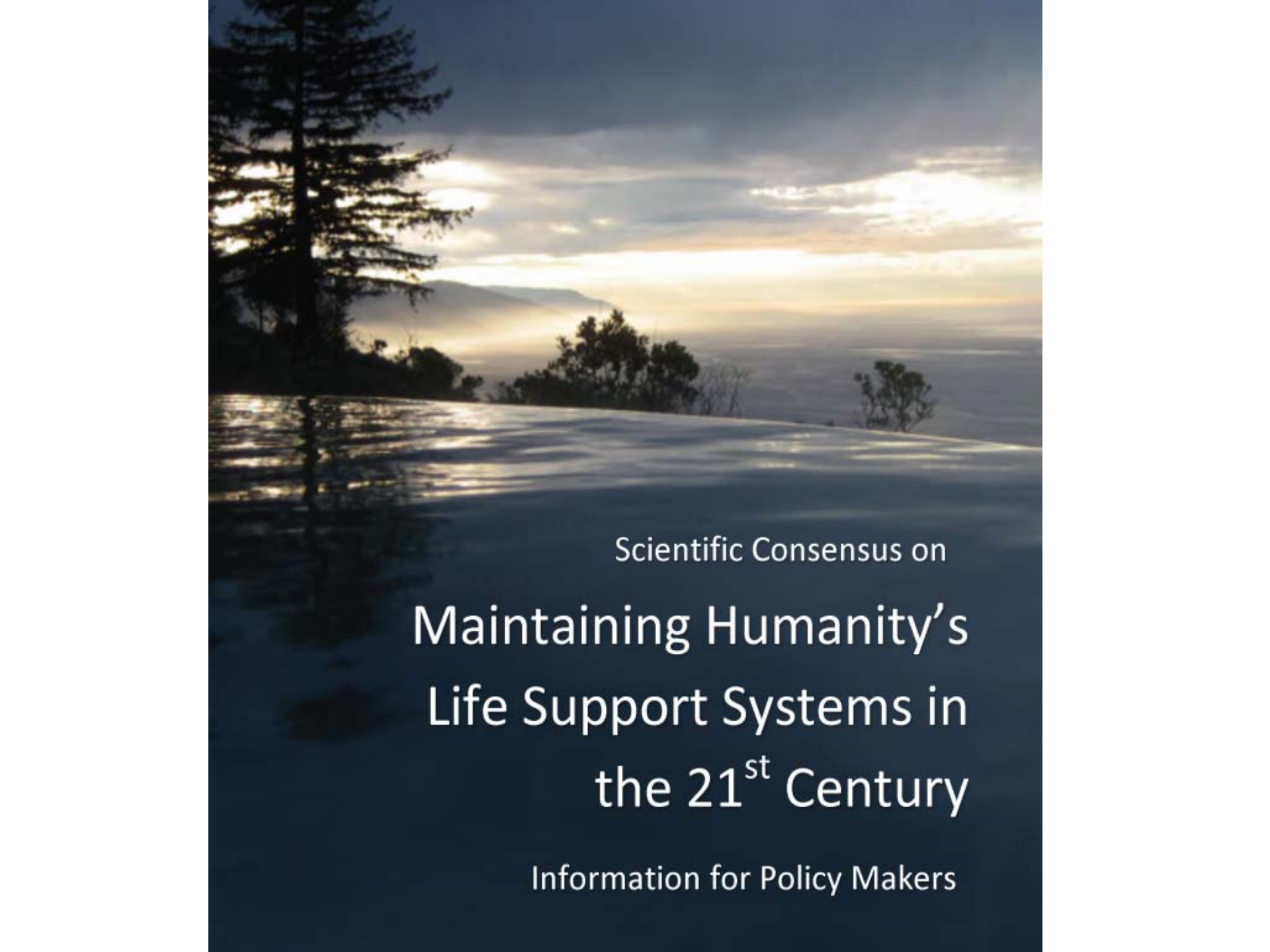
The WGI AR5 Summary for Policymakers will be available here on 27 September 2013.



Quantifying land use as one method of anticipating a planetary state shift.



A.D. Barnosky *et al.* *Nature* 486, 52–58 (2012) doi:10.1038/nature11018



Scientific Consensus on
Maintaining Humanity's
Life Support Systems in
the 21st Century

Information for Policy Makers

Approaching a state shift in Earth's biosphere

Anthony D. Barnosky^{1,2,3}, Elizabeth A. Hadly⁴, Jordi Bascompte⁵, Eric L. Berlow⁶, James H. Brown⁷, Mikael Fortelius⁸, Wayne M. Getz⁹, John Harte^{9,10}, Alan Hastings¹¹, Pablo A. Marquet^{12,13,14,15}, Neo D. Martinez¹⁶, Arne Mooers¹⁷, Peter Roopnarine¹⁸, Geerat Vermeij¹⁹, John W. Williams²⁰, Rosemary Gillespie⁹, Justin Kitzes⁹, Charles Marshall^{1,2}, Nicholas Matzke¹, David P. Mindell²¹, Eloy Revilla²² & Adam B. Smith²³

Opinion



Does the terrestrial biosphere have planetary tipping points?

Barry W. Brook¹, Erle C. Ellis², Michael P. Perring³, Anson W. Mackay⁴, and Linus Blomqvist⁵

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²Geography and Environmental Systems, University of Maryland, Baltimore County, MD 21250, USA

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Forum



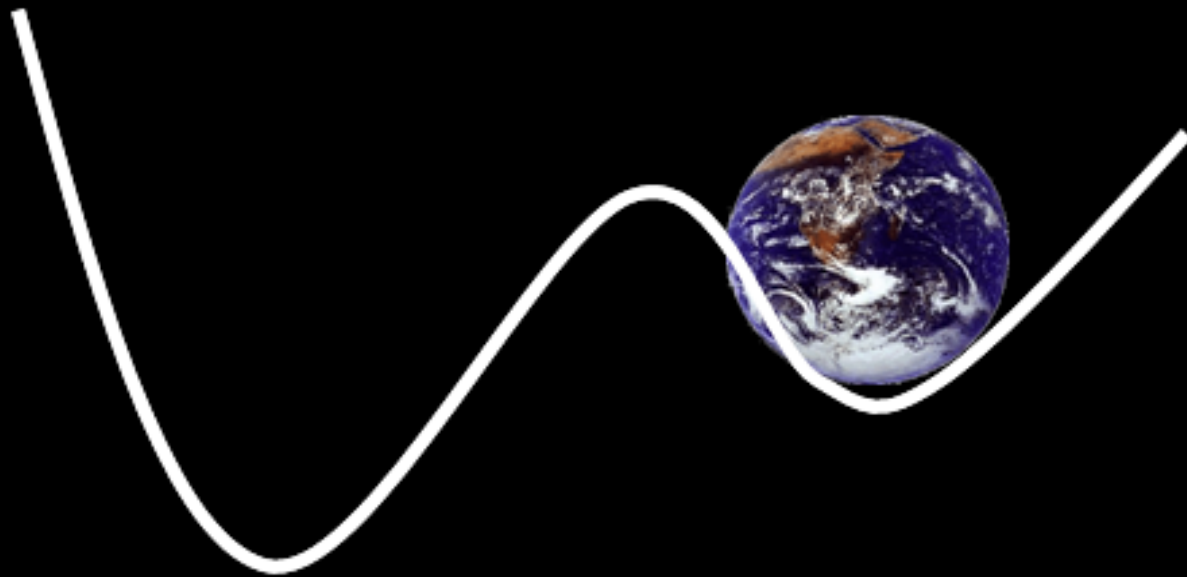
Focus Issue: Is there a global tipping point for planet Earth?

On the origin of planetary-scale tipping points

Timothy M. Lenton and Hywel T.P. Williams

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A resilient Earth System



Reduced resilience – our precarious predicament





THIS REPORT
HAS BEEN
PRODUCED IN
COLLABORATION
WITH:



ZSL

REPORT

INT

2012

Living Planet Report 2012

Biodiversity, biocapacity and better choices

LIVING PLANET REPORT 2012

100%
RECYCLED



BIODIVERSITY

Biodiversity, ecosystems and ecosystem services – our natural capital – must be preserved as the foundation of well-being for all.

BIOCAPACITY

It takes 1.5 years for the Earth to regenerate the renewable resources that people use, and absorb the CO₂ waste they produce, in that same year.



EQUITABLE SHARING

Equitable resource governance is essential to shrink and share our resource use.

BETTER CHOICES

Living within ecological boundaries requires a global consumption and production pattern in balance with the Earth's biocapacity.



TEEB's approach

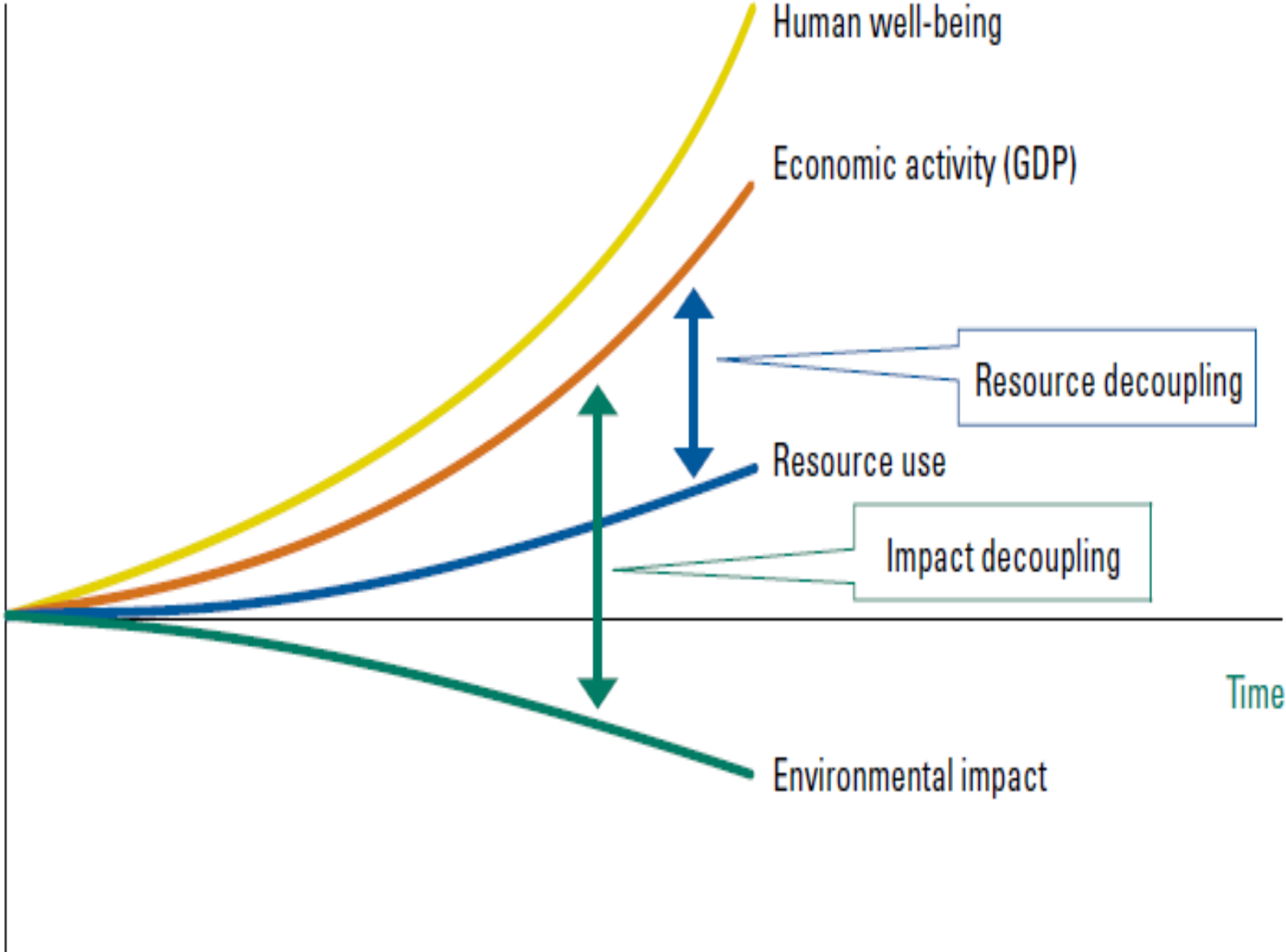
1. Recognizing value: a feature of all human societies and communities

2. Demonstrating value: in economic terms, to support decision making

3. Capturing value: introduce mechanisms that incorporate the values of ecosystems into decision making



Figure 1. Two aspects of 'decoupling'





Priority actions

1. Preserve natural capital
2. Produce better
3. Consume more wisely
4. Redirect financial flows
5. Equitable resource governance



Ecosystem integrity

Biodiversity
conservation

Food, water and
energy security