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GUIDANCE | COMPLIANCE | TRUST

The role of Biodiversity in an Environmental Management System

HEALTH & SAFETY MANAGEMENT

QUALITY MANAGEMENT

ACCESSIBILITY

ENVIRONMENTAL MANAGEMENT

ENERGY MANAGEMENT



- Founded in 1994, Antaris are the leading experts in management systems, risk assessment, health, safety and environmental legislation and legal compliance assessments.
- Antaris offer both consulting services and training services in key compliance areas
 - ISO 9001 Quality management system
 - ISO 14001 Environmental management system
 - ISO 45001 Occupational Health & Safety management system
 - ISO 50001 Energy management system
 - ISO 27001 Information security management system
 - Sustainability
 - IE License



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Bruce Harper
Consultant



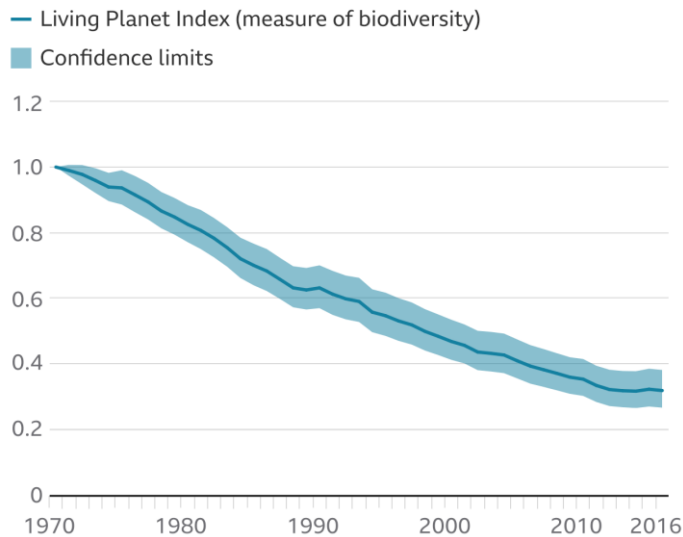
Species Extinction Rates 'Accelerating'

Current global
response insufficient

Scale of the problem



How wildlife has declined, 1970-2016



Source: ZSL

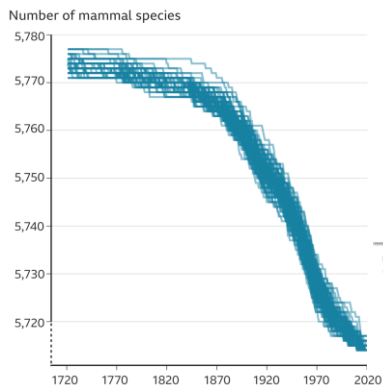
BBC

1m

Wildlife species threatened with extinction

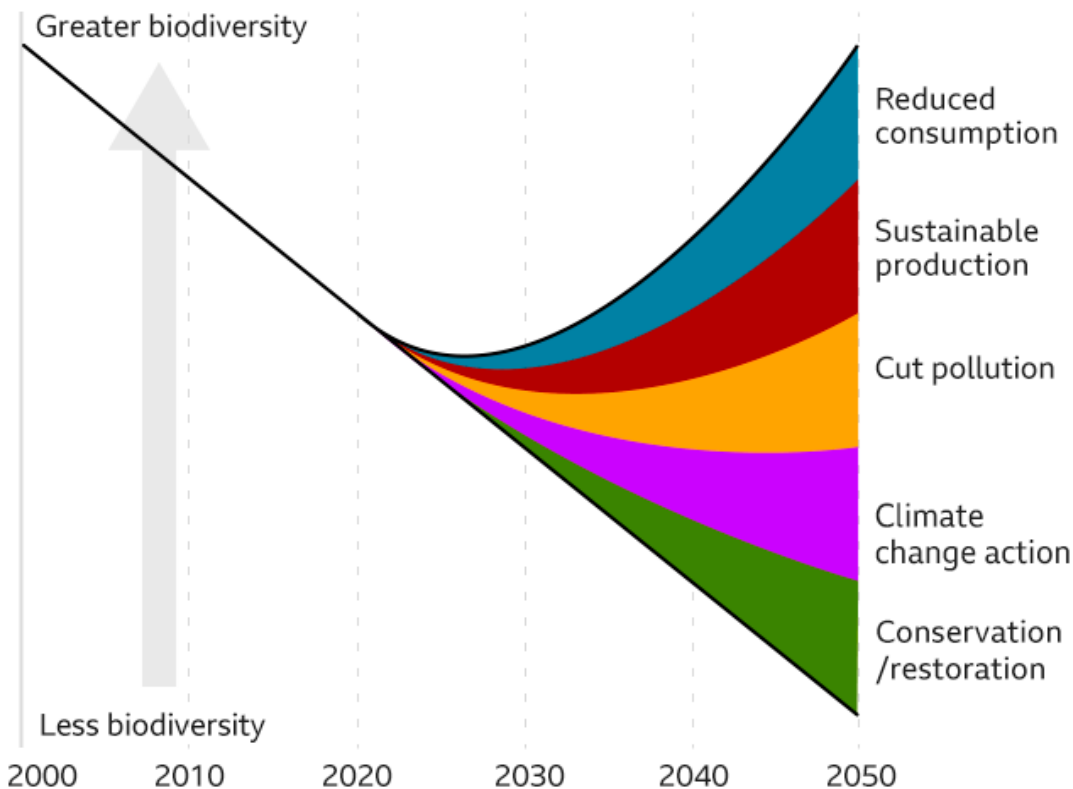


Mammal species lost in the past 300 years



Source: Gothenburg Global Biodiversity Centre

How different actions could help restore biodiversity



Source: UN/Convention on Biological Diversity

BBC



“Pollinators are in decline around the world putting at risk global food security”



“Nature is unravelling”



WWF Living Planet Report 2020 reveals 68% drop in wildlife populations

The impacts of this decline directly affect nutrition, food security and the livelihoods of billions of people.

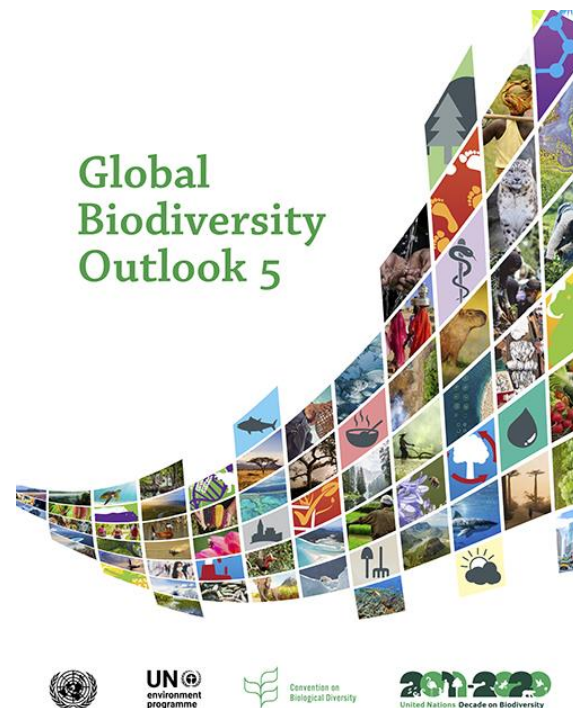
“We can’t ignore the evidence – these serious declines in wildlife species populations are an indicator that nature is unravelling and that our planet is flashing red warning signs of systems failure.





Humanity stands at a crossroads with regard to the legacy it leaves to future generations. Biodiversity is declining at an unprecedented rate, and the pressures driving this decline are intensifying.

None of the Aichi Biodiversity Targets will be fully met, in turn threatening the achievement of the Sustainable Development Goals and undermining efforts to address climate change





NEWS WEBSITE OF THE YEAR

The Telegraph

Coronavirus News Politics Sport Business Money Opinion Tech Life Style

UK news World news Royals Health Defence Science Education Investigations

THE IRISH TIMES

Thu, Oct 1, 2020

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Two-fifths of world's plants at risk of extinction, report warns

Among those threatened are 723 species used for medicines, including plants used to treat circulatory disorders

Wed, Sep 30, 2020, 10:59

Updated: Wed, Sep 30, 2020, 11:03



Abarema filamentosa (Leguminosae). The biggest threat to plant life is the clearance of natural habitat for agriculture. Photograph: Joao Iganci/RBG Kew/PA

News

'Mass extinction event' that could wipe out a million species is already underway, says UN-backed report



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Biodiversity: Why the nature crisis matters, in five graphics

By Helen Briggs
BBC Environment correspondent

30 September 2020

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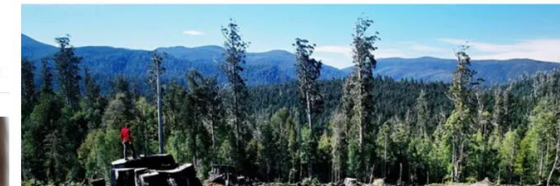


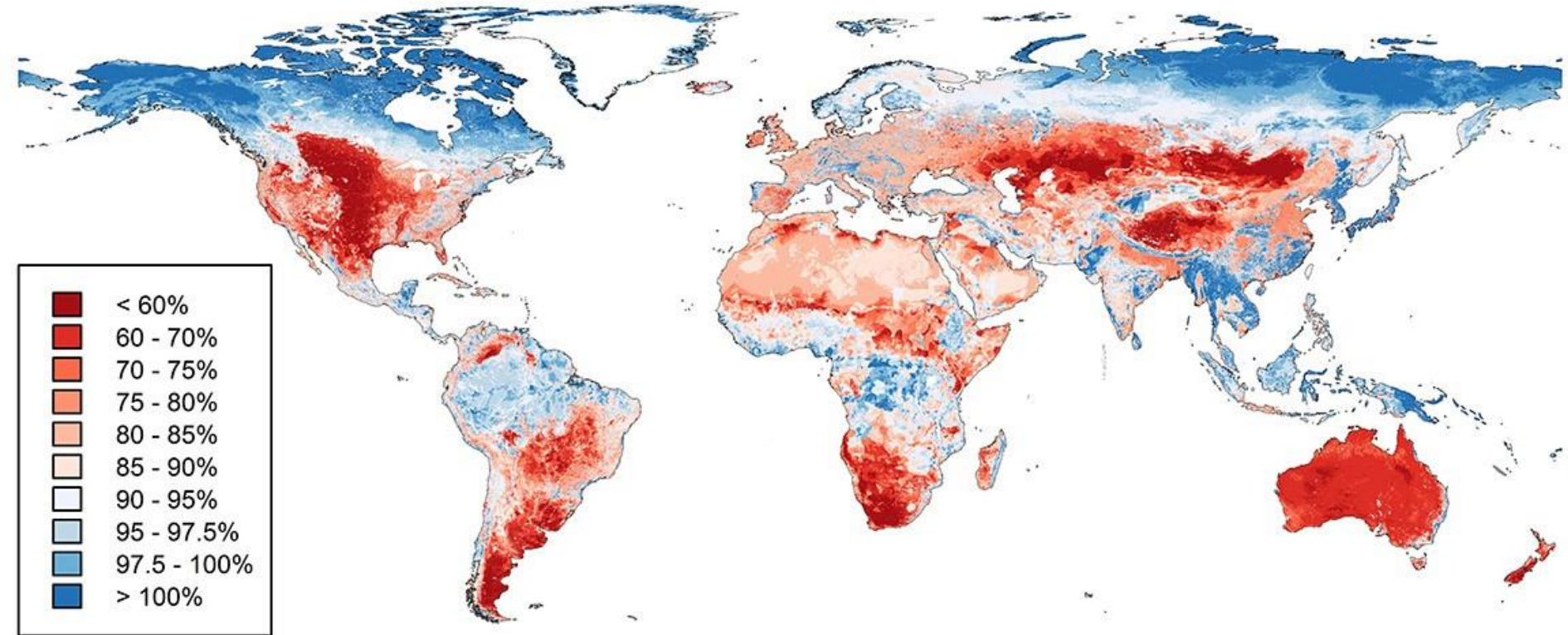
GETTY IMAGES

Human activities are destroying the natural world, leading to the extinction of animal and plant species at an alarming rate. Now, world leaders are promising action to tackle the problem. But will it be enough?

'Shocking': wilderness the size of Mexico lost worldwide in just 13 years, study finds

Researchers say loss of 1.9m square kilometres of intact ecosystems will have 'profound implications' for biodiversity





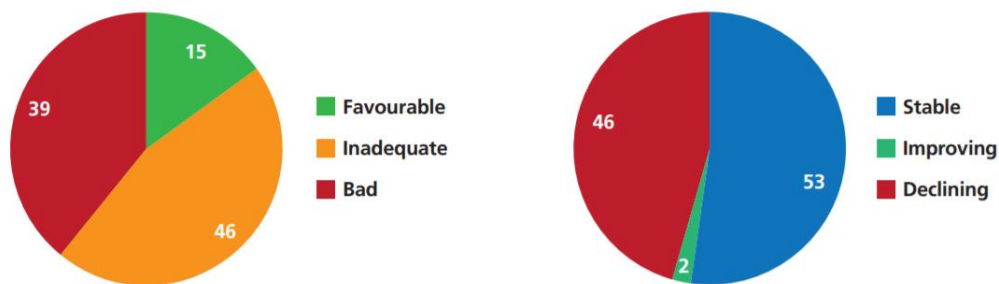
6th National Report on CBD

91% of listed habitats were assessed by the Article 17 report as being in “Unfavourable Conservation Status” with 31% in a declining condition and 16% in an improving condition.

HABITAT ASSESSMENTS

The Overall Status of habitats as depicted in Figure 1a is that 85% of habitats are in Unfavourable (i.e. Inadequate or Bad) status, with 46% of habitats demonstrating ongoing declining trends (Figure 1b).

Figure 1: a) Percentage of habitats in Favourable, Unfavourable-Inadequate or Unfavourable-Bad condition
b) Percentage of habitats with Stable, Improving or Declining trends. $n=59$



An Roinn Cultúir,
Oidhreacht agus Gaeltachta
Department of Culture,
Heritage and the Gaeltacht

IRELAND

6th National Report to the Convention
on Biological Diversity



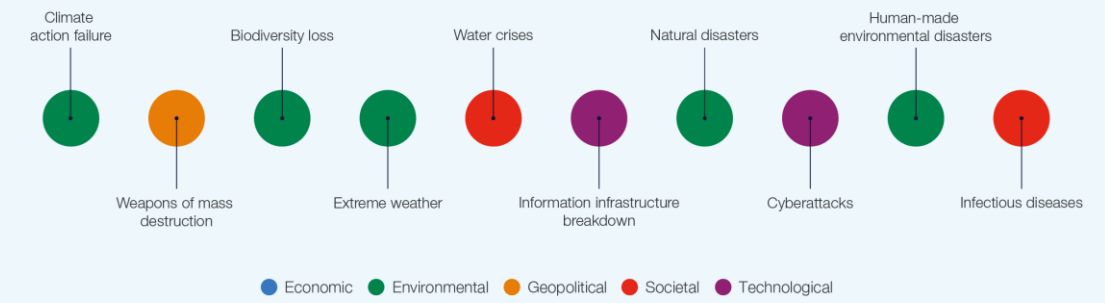
Biodiversity loss - A global long term risk



TOP 10 RISKS OVER THE NEXT 10 YEARS Long-Term Risk Outlook: Impact



Multistakeholders

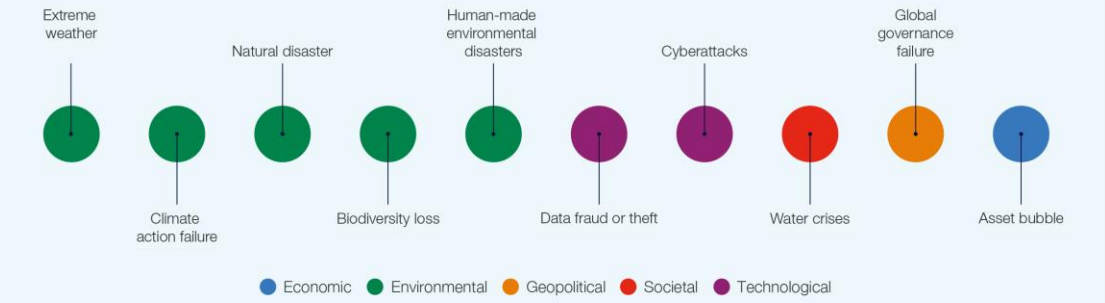


Global Risks Report 2020

TOP 10 RISKS OVER THE NEXT 10 YEARS Long-Term Risk Outlook: Likelihood



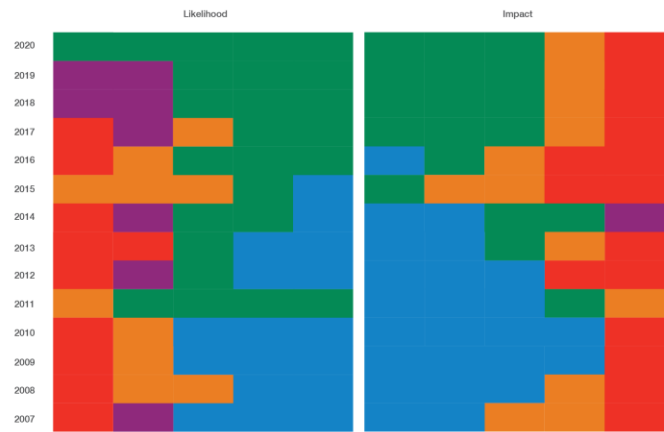
Multistakeholders



Global Risks Report 2020

TOP GLOBAL RISKS

From economic to environmental. Climate now tops the risks agenda, while the economy has disappeared from the top five.



- | | | |
|---|--|---|
| Economic | Environmental | Geopolitical |
| Asset bubble
Critical infrastructure failure
Deflation
Energy price shock
Financial failure
Fiscal crises
Illicit trade
Unemployment
Unmanageable inflation | Biodiversity loss
Climate action failure
Extreme weather
Human-made environmental disaster
Natural disasters | Global governance failure
Interstate conflict
National governance failure
State collapse
Terrorist attacks
Weapons of mass destruction |
| Societal | Technological | |
| Failure of urban planning
Food crises
Infectious diseases
Involuntary migration
Social instability
Water crises | Adverse technological advances
Cyberattacks
Data fraud or theft
Information infrastructure breakdown | |

Source: World Economic Forum 2007-2020, Global Risks Reports.

Biodiversity can no longer be ignored



Negative trends in biodiversity threaten 80% of the Sustainable Development Goals targets

UN IPBES



The appearance of COVID-19 has shown that when we destroy biodiversity we destroy the system that supports human life. The more biodiverse an ecosystem is, the more difficult it is for a pathogen to spread rapidly or dominate.

UNESCO



Protecting biodiversity is vital for avoiding the next pandemic. Close to three-quarters of emerging infectious diseases in humans come from other animals. Land-use change and wildlife exploitation increase infectious disease risk by bringing people and domestic animals in close proximity to pathogen-carrying wildlife, and by disrupting the ecological processes that keep diseases in check. **OECD**





- It's important
- It's relevant
- It's deteriorating
- It's a risk
- It must be managed





4 CONTEXT OF THE ORGANISATION

- Understanding the needs and expectations of interested parties
- Determining the scope of the environmental management system

5 LEADERSHIP

- Leadership and commitment
- Environmental policy
- Organisational roles, responsibilities and authorities



6 PLANNING

- Actions to address risks and opportunities
- Environmental aspects
- Compliance obligations
- Planning action
- Environmental objectives and planning to achieve them

7 SUPPORT

- Competence
- Awareness

9 PERFORMANCE EVALUATION



Biodiversity – an environmental aspect

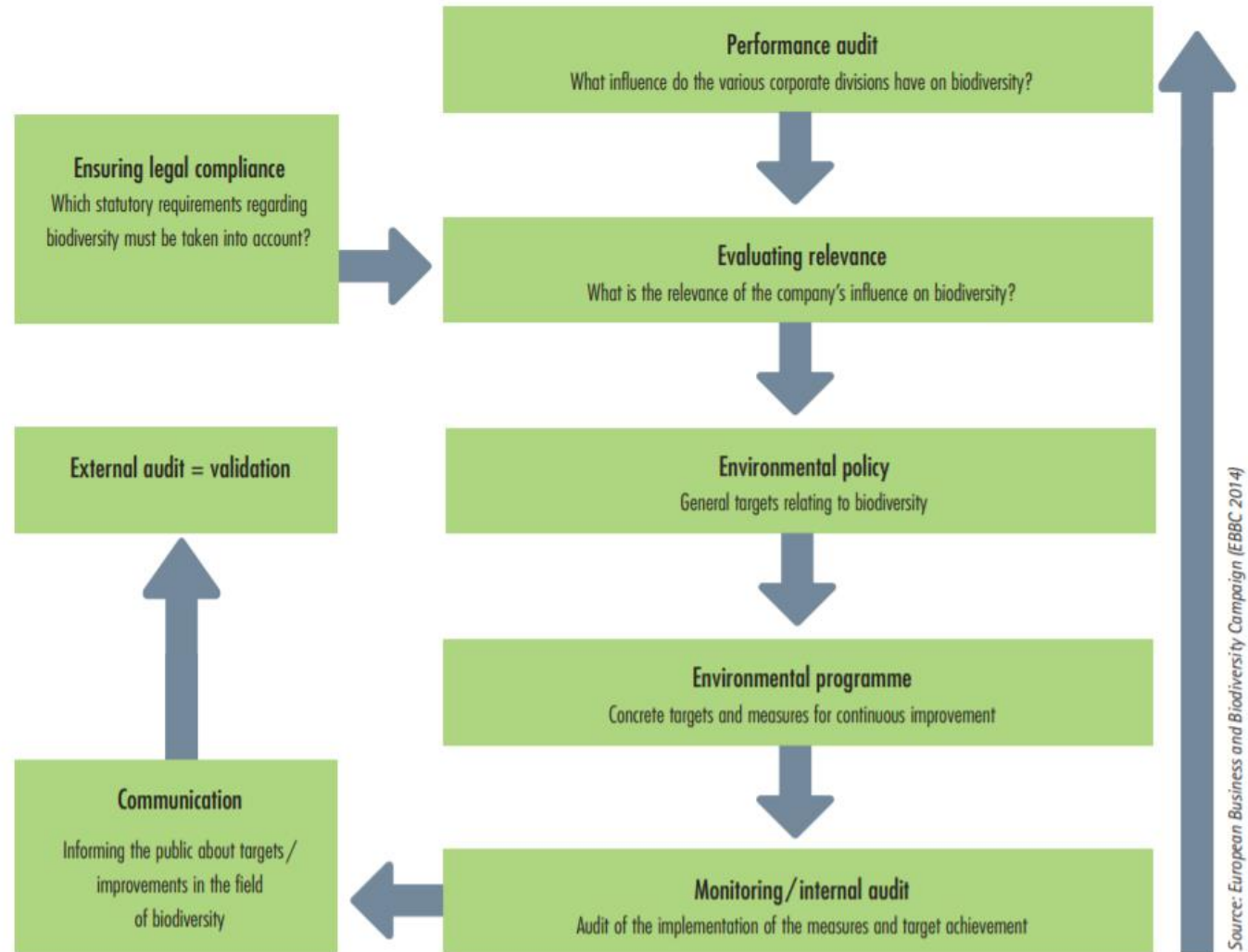


Establish the
relevance of
Biodiversity to
the business

Define the status
(audit)

Establish
concrete (ideally
quantifiable)
goals

Consider
procurement





- Is biodiversity being taken into account within the environmental management system or other management systems?
- Have the direct and indirect effects of the business on biodiversity been systematically investigated?
- Does the business make use of the mitigation hierarchy (avoidance, reduction, restoration, compensation) in order to reduce its negative effects on biodiversity?
- Does the environmental or sustainability programme include (auditable) goals and measures designed to preserve biodiversity?
- Have meaningful key data and indicators been defined for monitoring purposes?





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Experts in Management Systems

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