



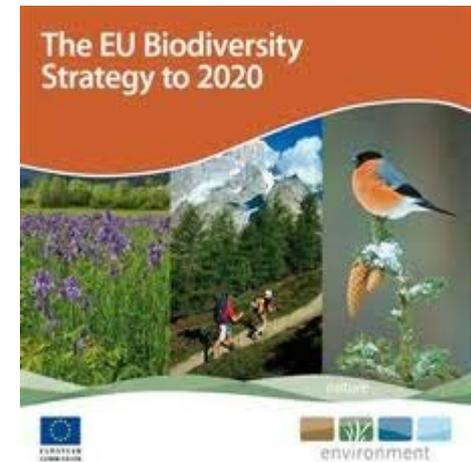
BIODIVERSITY -

Our Life Insurance, Our Natural Capital.
How to better integrate and assess it?

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Bio-diversity Unit

Outline of the presentation

- **EU Biodiversity Strategy to 2020**
 - Long term vision (2050)
 - Headline target (2020)
- **How to integrate biodiversity into EIA and SEA?**
 - Guidance on integrating Climate Change and Biodiversity in EIA
 - Guidance on integrating Climate Change and Biodiversity into SEA





European
Commission

EU Biodiversity Strategy to 2020

Structure of the EU 2020 Biodiversity Strategy

2050 VISION

2020 headline target

halt biodiversity loss – restore ecosystem services – global contribution

SIX TARGETS



EU Biodiversity Strategy to 2020

Target 1: Nature Conservation

Objective: Marked improvement in conservation status of habitats and species covered by EU nature legislation by:

- doubling the number of positive habitat assessments
- achieving a 50% improvement in species assessments



EU Biodiversity Strategy to 2020

Target 2: Ecosystem restoration & Green Infrastructure

Objective: Maintain and enhance ecosystems and their services within and beyond protected areas by:

- restoring at least 15% of degraded ecosystems
- establishing '**Green Infrastructure**' throughout the EU





EU Biodiversity Strategy to 2020

Target 3: 'Green' agriculture and forestry in the EU

Objective: Maximise agricultural and forested areas covered by biodiversity-related measures by *inter alia* :

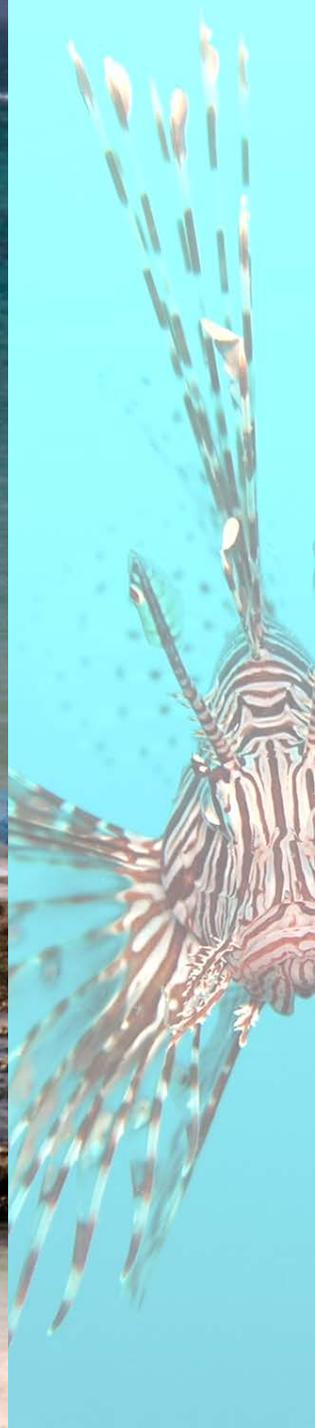
- Rewarding farmers who practice biodiversity-friendly agriculture and/or adopt agri-environmental measures (e.g. permanent pasture, green cover, crop rotation, ecological set-aside, etc)
- Encouraging the adoption of Forest Management Plans that include biodiversity-specific measures

EU Biodiversity Strategy to 2020

Target 4: Make fishing sustainable

Objective: Objective: Achieve Maximum Sustainable Yield (MSY) by 2015 and good environmental status of Europe's seas by 2020 by *inter alia*:

- improving the management of fish stocks
- eliminating adverse impacts on non-targeted species and marine ecosystems (discards, by-catch)

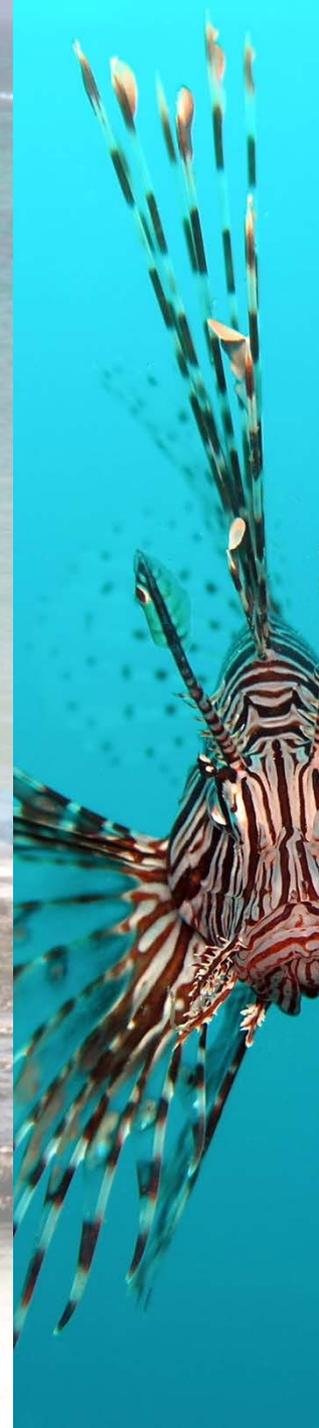


EU Biodiversity Strategy to 2020

Target 5: Invasive Alien Species

Objective: Prevent, control, eradicate IAS and their pathways by:

- developing and implementing EU-level legislation on IAS
- including IAS aspects in other relevant legislation

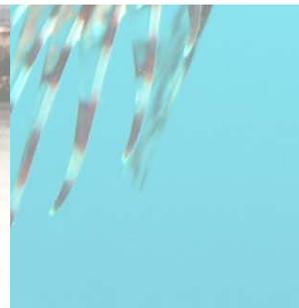


EU Biodiversity Strategy to 2020

Target 6: Global biodiversity

Objective: Step up the EU's contribution to averting global biodiversity loss *inter alia* by:

- mobilising resources for global biodiversity
- 'biodiversity-proofing' EU development cooperation
- implementing the Nagoya Protocol on ABS
- reducing indirect drivers of biodiversity loss





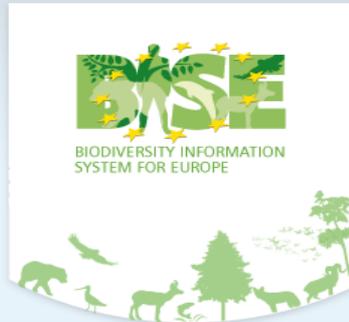
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Biodiversity Information System for Europe

BISE is a partnership between the European Commission (DG Environment, Joint Research Centre, Eurostat) and the European Environment Agency (EEA). It incorporates the network of the European Clearing House Mechanism.

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Towards the 2020 biodiversity targets

New in BISE

[Ecosystem Assessments in Europe](#)

News - Europe

- SCALES, 04/10/2012: Job alert: PhD position in "Biodiversity and ecosystem Services of Large Mammals" (Frankfurt, ...
- SCALES, 04/10/2012: Measuring biodiversity with indicators – new report describes SEBI approach
- IISD, 03/10/2012: European Network of Nature Conservation Agencies Discusses Biodiversity Agenda
- IISD, 02/10/2012: Event: CEE and Central Asia Capacity-Building Workshop on the Nagoya Protocol on ABS
- IISD, 02/10/2012: EU, FAO Announce Call for Proposals on Forest Law Enforcement, Governance and Trade
- IISD, 02/10/2012: GEF SGP Rehabilitating Endangered Species in Armenia

News - World

- CBD, 02/10/2012: Indigenous agroforestry 'may improve livelihoods'
- CBD, 02/10/2012: Making growth sustainable
- CBD, 02/10/2012: Half of Great Barrier Reef coral lost in last 27 years
- CBD, 02/10/2012: Irreversible Warming Will Cause Sea Levels to Rise for Thousands of Years to Come, New Research Shows
- CBD, 02/10/2012: Plants' Carbon-Sinking Capacity Is Much Lower Than Thought
- CBD, 02/10/2012: Climate Change Hits Pacific Islands
- CBD, 02/10/2012: NGOs seek domestic biosafety legislation
- CBD, 02/10/2012: IBiodiversity meet opens with appeal for unity of purpose
- CBD, 02/10/2012: IIN meet discusses signing of Nagoya Supplementary



How to better integrate Biodiversity in projects' development and EIA/SEA procedures?



Structure

Foreword

Acronyms and abbreviations

Glossary

Summary

1. **Introduction**

2. **Climate change**  **& Biodiversity**  **in SEA/EIA** (S, Benefits, Challenges)

3. **Understanding Climate change & Biodiversity**


4. **Integrating CC&B into EIA**


4. **What are the key CC&B issues?**
5. **How to assess effects related to CC&B in SEA?**

Common
chapters

Annexes

1. Further reading
2. Sources of information
3. Tools

Introduction (Chapter 1)

- Nature and purpose of the guidance
- Overview

CC&B in SEA/EIA (Chapter 2)

- Legal basis and spirit of Directive
- Benefits of integrating climate change and biodiversity
- Challenges

Understanding CC & B (Chapter 3)

Section 1
Climate change

Key aspects of biodiversity policy , definitions, plus interactions between CC&B

Policy response	Objectives and targets
<u>The Habitats Directive and the Birds Directive</u>	<ul style="list-style-type: none"> The Habitats Directive and the Birds Directive seek to protect sites of particular importance for biodiversity—these sites form a network referred to as <u>Natura 2000</u>...
<u>The Convention on Biological Diversity (CBD)</u>	<ul style="list-style-type: none"> ...
<u>Nagoya Protocol</u>	<ul style="list-style-type: none"> ...
<u>Strategic Plan for Biodiversity 2011-2020 and the Aichi Targets</u>	<ul style="list-style-type: none"> ...
<u>EU 2020 Biodiversity Strategy</u>	<ul style="list-style-type: none"> ...
<u>Communication from the Commission: Green Infrastructure (GI) (COM(2013) 249 final)</u> and <u>Accompanying document: Commission staff working paper: Technical information (SEC(2013)155 final)</u>	<ul style="list-style-type: none"> ...

Section 2
Biodiversity



Section 3
Climate change & Biodiversity

What are the key CC&B issues?

Climate change mitigation	Climate change adaptation	Biodiversity
<ul style="list-style-type: none"> ● energy demand (industry) ● energy demand (housing & construction) ● GHG emissions in agriculture ● GHG emissions (waste management) ● travel patterns and GHG emissions (transport) ● GHG emissions from energy production ● land use, land-use change, forestry and biodiversity ● ... 	<ul style="list-style-type: none"> ● heat waves ● droughts ● flood management and extreme rainfall events ● storms and high wind ● landslides ● sea level rise, extreme storms, coastal erosion and saline intrusion ● cold spells ● freeze-thaw damage ● ... 	<ul style="list-style-type: none"> ● degradation of ecosystem services ● loss of habitats, fragmentation ● loss of species diversity ● loss of genetic diversity ● ...



SEA steps

Key considerations (CH. 4: Screening & Scoping; CH. 5: other elements of the SEA process)

Screening

- Would implementing the plan or programme (PP) be **likely to have significant effects** on, or be significantly affected by, CC&B issues? Is an SEA required?

Scoping

- What are the **key CC&B issues** likely to be?
- What is the **current situation** relating to CC&B and how is it likely to **change in the future**?
- What is the CC&B **policy context, what are the objectives and targets**?
- Who are the **key stakeholders and environmental authorities** with an interest in CC&B and how will they be involved throughout the SEA? What do they think are the key issues?
- What are the best **methods, tools and approaches** to help understand and assess the key CC&B issues?

Alternatives and assessing effects

- What **alternatives** are there to tackle key CC&B issues? How would implementing them affect CC&B objectives?
- How can we avoid the negative effects on CC&B? If we cannot, how can they be reduced or offset? How can the positive effects be **maximised**?
- How could CC&B **measures be integrated** into the PP?

Reporting, information & consultation

Decision-making

- How to ensure that the environmental report **clearly explained** how CC&B issues have been identified, how uncertainty has been managed, etc.?
- How can CC&B issues be integrated into the final PP?

Monitoring and evaluation

- How will the effects on CC&B be **monitored** along with the implementation of mitigation measures and environmental management?

Key messages

ADDRESSING CC&B EFFECTIVELY

- Build them into assessment & early.
- Tailor CC&B to specific PP context.
- Be practical & use your common sense.
- Many options are still open.

CRITICAL CHALLENGES

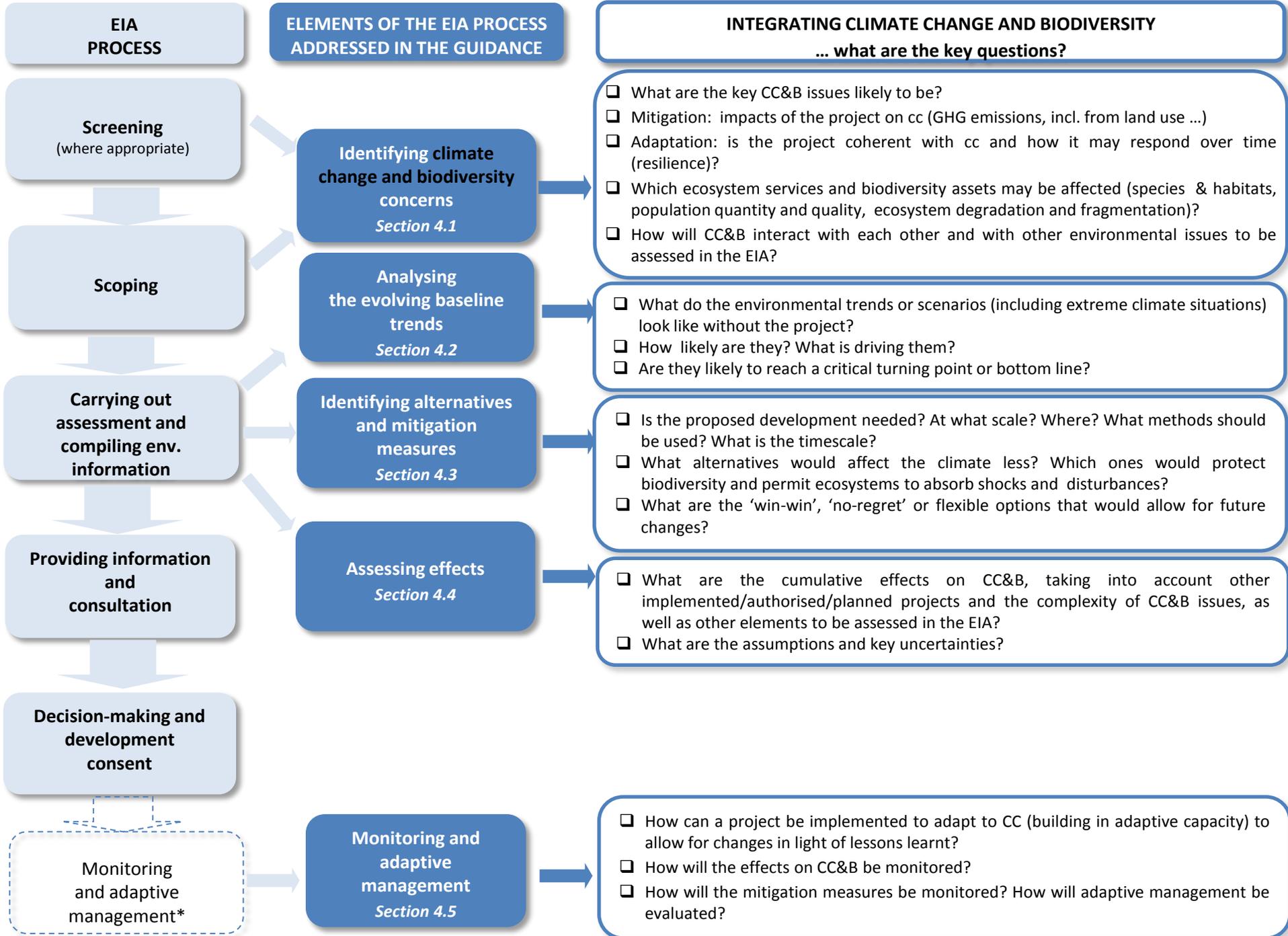
- Assess PP against the future baseline and key trends
- Long-term and cumulative effects on CC&B.
- Be comfortable with uncertainty (scenarios).
- 'Win-win' or 'no/low regret' options.

IDENTIFYING CC&B ISSUES

- Both impacts of PP on CC&B and CC & natural environment on PP.
- CC adaptation and mitigation interactions
- National/regional/local context.
- Objectives, commitments and targets set in policy.
- Combined application of SEA and Habitats Directives

ASSESSING EFFECTS

- Consider CC scenarios at the outset.
- Evolving environmental baseline trends.
- Assess alternatives that make a difference in terms of CC&B effects.
- CC&B synergistic/cumulative effects.



*Monitoring is not obligatory under the EIA Directive, but is nevertheless used in some Member States.

Key messages

ADDRESSING CC&B

- ❑ Build them into the process early.
- ❑ Tailor to specific project's context.

CRITICAL CHALLENGES

- ❑ Consider impact that predicted changes in CC&B will have on project (long timescale, project's resilience & capacity to cope).
- ❑ Consider complex nature of CC&B and cumulative effects.
- ❑ Be comfortable with uncertainty.
- ❑ Base recommendations on precautionary principle and acknowledge assumptions & limitations of current knowledge.

IDENTIFYING CC&B ISSUES

- ❑ Bring together all the relevant stakeholders.
- ❑ Understand how CC&B interact with other issues & with each other.

ASSESSING EFFECTS

- ❑ Consider CC scenarios at the outset.
- ❑ Evolving environmental baseline trends.
- ❑ Avoid CC&B effects, before considering mitigation or compensation.
- ❑ Focus on ensuring 'no-net-loss' of B.
- ❑ Alternatives that make a difference.
- ❑ C&B synergies and cumulative effects.



Nature and Biodiversity

http://ec.europa.eu/environment/nature/index_en.htm

EIA/SEA

<http://ec.europa.eu/environment/eia/home.htm>