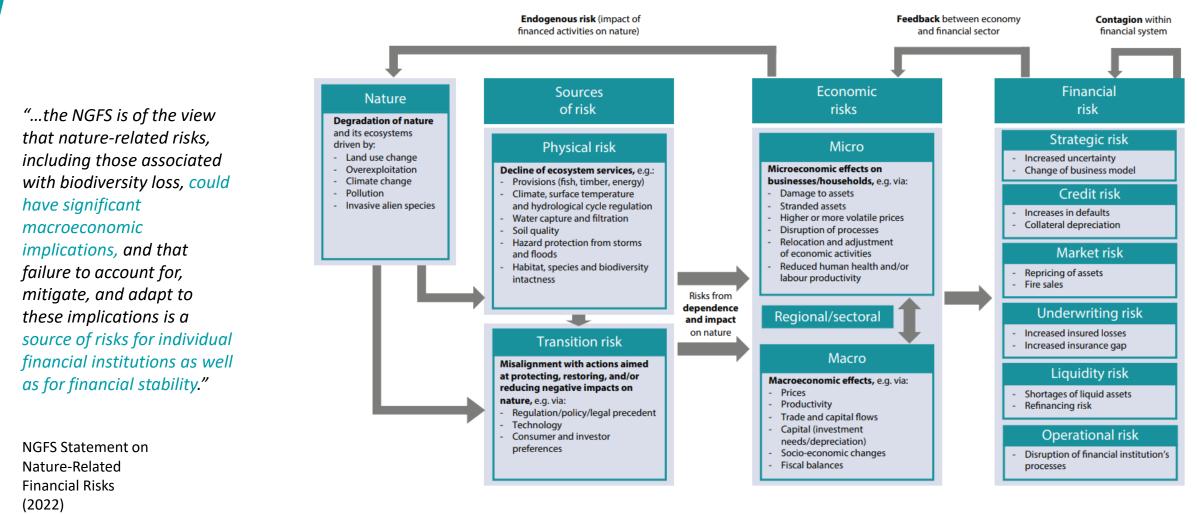


# From framing to assessment: the NGFS work on nature-related risks

EIOPA stakeholder engagement on nature-related financial risks for insurers 10 June 2024

Marc Reinke Head of Sustainable Finance Office (DNB) Co-Chair (NGFS TF Nature)

#### **NGFS nature-risk transmission framework**



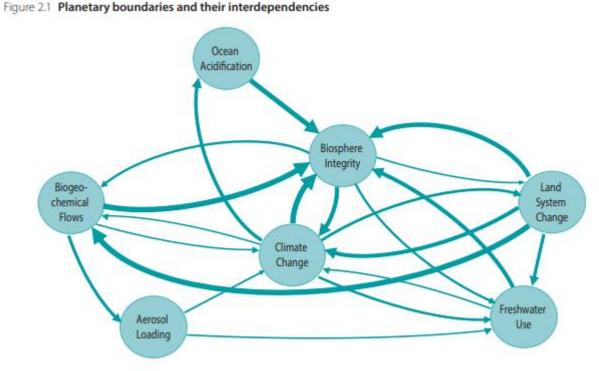
Source: Adapted from Svartzman, R. et al. (2021) A "Silent Spring" for the Financial System? Exploring Biodiversity-Related Financial Risks in France.

Source: NGFS (2023), Nature-related financial risks: A Conceptual Framework to guide action by central banks and supervisors

# Climate change is interconnected with nature loss and should be treated in an integrated manner

#### NGFS Conceptual Framework:

- → Climate change is a **driver of nature risk**
- → Nature risk is a **driver of climate risk**
- Climate change mitigation and
  adaptation potentially drive nature risk
- → Nature can be a solution to decrease climate risk

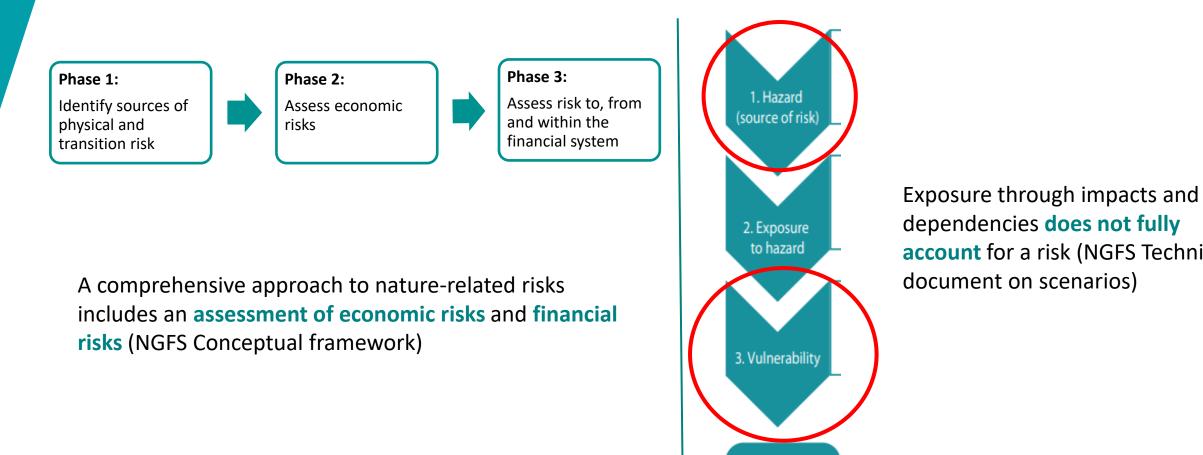


Note: Only 7 of 9 planetary boundaries are shown here for readability. Thickness of arrows depicts the relative degree to which one Earth system process impacts another. Further information and methodology for quantifying interdependencies can be found in Lade et al. (2019). Source: Authors, adapted from Lade et al. 2019.

**Source** : NGFS Technical Document providing recommendations toward the development of scenarios for assessing nature-related economic and financial risks, 2023.

#### Financial actors need to go from exposure analysis to risk assessment

Risk



account for a risk (NGFS Technical document on scenarios)

#### We need to work on narratives to identify the most material risks

- Provides recommendations towards the development of nature-related scenarios, seeking as much synergy as possible with the NGFS climate scenarios while accounting for the specific features related to nature loss
- 1. Two main objectives:
  - Suggest avenues to develop consistent narratives for physical and transition hazards
  - Assess the ability of different methodologies, models, and tools to account for nature-related risks
- 2. Main challenges identified :
  - Complexity of ecosystem functions and processes at stake
  - No single metric (e.g. akin to CO<sub>2</sub>) or policy/measure (e.g. pricing natural capital)
  - Existence of a local-global tradeoff



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## We need to find models that take into account the specificities of nature

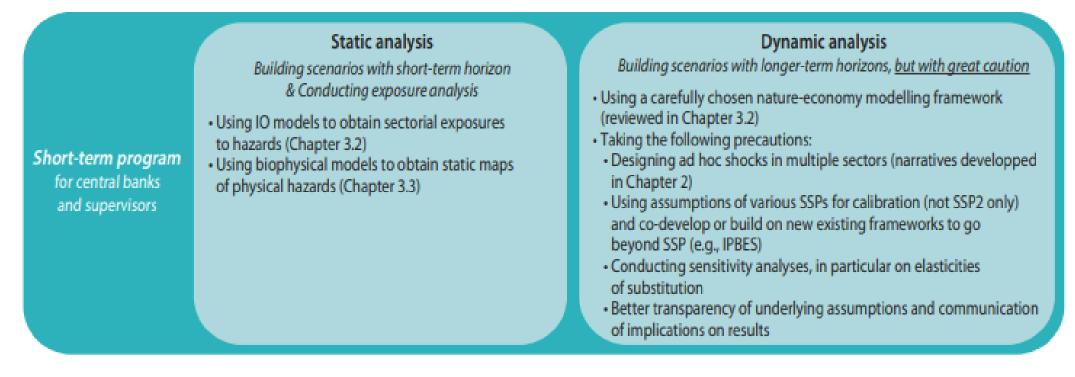
- Current models likely underestimate the risks, because they:
  - account for a limited fraction of potential hazards
  - use assumptions that mitigate the consequences of nature loss
- The tools most efficient to capture **indirect impacts along value chains** (MRIOs):
  - Provide only a static picture
  - Might not be granular enough
  - > NGFS "ID cards": summary of assessment criteria for 6 models
  - NGFS Technical document: long-term recommendations for changes in models



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#### **Options exist on the short term for developing nature scenarios**



**Source** : NGFS Technical Document providing recommendations toward the development of scenarios for assessing nature-related economic and financial risks, 2023.

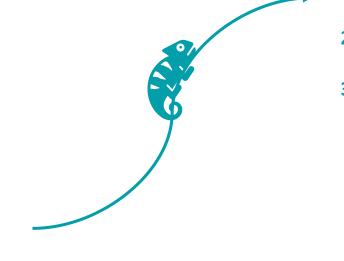
#### What's next for the NGFS?



Short/medium term: work on the short-term
 recommendations made in the Technical document, work on narratives;

• *Longer term:* work on the improvement of modelling tools, development of capacity-building instruments.

- 2. Framework refinement and implementation
- 3. Mainstreaming of nature-related considerations within the NGFS
  - Work on suggestions for workstreams to bridge existing gaps
  - Capacity-building work
  - Start of work on nature in other workstreams and expert networks



#### Also at DNB we are integrating nature-related risks across our core tasks

### Supervision

### Economic advice

#### **Financial stability**

#### **Reserve management**

DeNederlandscheBank

EUROSYSTEEM



Network for Greening the Financial System Technical document

Nature-related Financial Risks: a Conceptual Framework to guide Action by Central Banks and Supervisors

September 2023





Thank you !

Network for Greening the Financial System Technical document

Recommendations toward the development of scenarios for assessing nature-related economic and financial risks

December 2023



