



# BEYOND CARBON:

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## *NATIVE BIODIVERSITY AS INFRASTRUCTURE AND THE NEXT GENERATION OF BIOECONOMIES*

REFRAMING DEVELOPMENT, CLIMATE RESILIENCE, AND PROSPERITY  
THROUGH LIVING SYSTEMS

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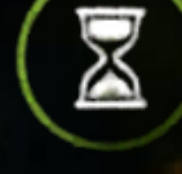


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-  **Biodiversity** regulates water, pollination, soils, food systems, and climate resilience
-  A low-carbon world can still be **ecologically collapsed** and **water-insecure**
-  Decarbonization without nature protection does **not** secure a livable planet
-  No viable climate future exists without **living ecosystems**

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Biodiversity is not an obstacle to development, **it is its precondition**

**Biodiversity is not a luxury.  
It is the foundation of resilient societies.**



# BEYOND THE AMAZON: A PLANETARY PERSPECTIVE

THE FUTURE DEPENDS ON INTERCONNECTED  
ECOSYSTEMS: NOT ONE BIOME



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are essential for water and food security



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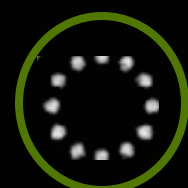
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EU policies favoring forests risk accelerating  
**loss of savannas and grasslands**

Protecting all ecosystems equally is both  
science and strategy

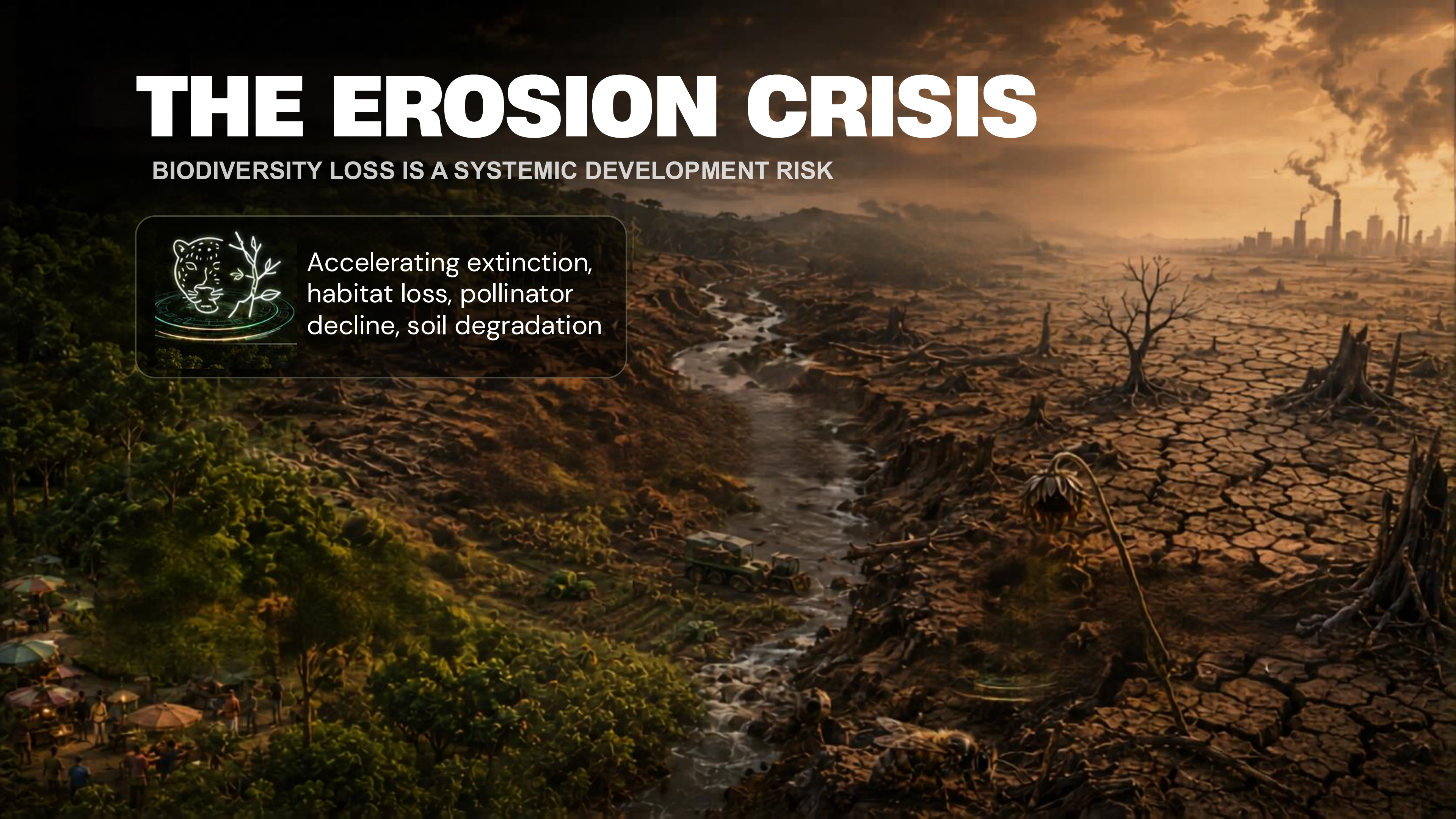


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BIODIVERSITY LOSS IS A SYSTEMIC DEVELOPMENT RISK



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BIODIVERSITY LOSS IS NOT ENVIRONMENTAL  
**IT IS AN ECONOMIC AND SECURITY CRISIS**

# THE NEXT GENERATION OF BIOECONOMIES



Extractive models concentrate wealth and externalize ecological costs



From extraction to regeneration



Regenerative bioeconomies value standing ecosystems and generate local income



Wildlife drives pollination, fire regimes, seed dispersal, and carbon stocks



Restoration must be guided by reference ecosystems and ecological connectivity

## STRATEGIC SECTORS



REGENERATIVE AGRICULTURE



BIOMATERIALS



BLUE BIOECONOMY



ECOLOGICAL RESTORATION



# YOUTH AND GENDER EQUALITY AT THE CENTER

## A JUST TRANSITION REQUIRES INCLUSION

- Youth are present innovators, not future stakeholders
- Women are essential actors in food systems, governance, and biodiversity management
- Structural barriers persist: land tenure, finance access, underrepresentation
- Engaging youth globally is a precondition for systemic change
- Inclusion is not a values statement, it is a performance criterion



**Diverse voices. Shared power.  
Stronger solutions.**

**Inclusion drives impact.**



# INTERNATIONAL FRAMEWORK AND GLOBAL RESPONSIBILITY

THE TRANSITION ALREADY HAS INTERNATIONAL DIRECTION



## THE PARIS AGREEMENT CALLS FOR:

- Climate mitigation
- Adaptation
- Resilient development pathways



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## THE KUNMING-MONTREAL GLOBAL BIODIVERSITY FRAMEWORK ESTABLISHES GOALS SUCH AS:

- Protecting biodiversity
- Restoring ecosystems
- Sustainable use of nature
- Fair benefit sharing
- Mobilizing biodiversity finance



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## KEY INSIGHT

Climate and biodiversity agendas **cannot remain separated.**


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**WE NEED:**

- Integrated policies
- Nature-positive finance
- Traceable supply chains
- Scientific cooperation
- Long-term governance

**ONE PLANET. SHARED FUTURE.** | **ALIGNING CLIMATE AND BIODIVERSITY  
FOR A JUST AND THRIVING WORLD.**

# SCIENCE, TECHNOLOGY, AND NEW METRICS

## MEASURING WHAT TRULY SUSTAINS SOCIETY

### EMERGING TOOLS







-  Satellite monitoring
-  AI-assisted ecological analysis
-  Genomics
-  Environmental DNA
-  Bioacoustics
-  Ecological modeling
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### BUT TECHNOLOGY ALONE IS INSUFFICIENT

WE ALSO NEED:

-  Strong institutions
-  Local participation
-  Open science
-  Ethical governance
-  Indigenous and community leadership

### NEW INDICATORS ARE NECESSARY

GDP ALONE DOES NOT MEASURE:

-  ECOLOGICAL INTEGRITY
-  WATER SECURITY
-  ECOSYSTEM RESILIENCE
-  SOCIAL WELLBEING



WHAT GETS MEASURED SHAPES INVESTMENT AND POLICY.

# **BIODIVERSITY IS CIVILIZATION'S LIFE-SUPPORT SYSTEM**



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Can we build **prosperity** while **regenerating** the living systems that sustain us?



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**We must move:**

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### Toward:

- 🌱 Regenerative bioeconomies
- 👥 Inclusive innovation
- 🌳 Ecological resilience
- 👨👩👦 Intergenerational justice



PROTECTING BIODIVERSITY IS NOT ONLY ABOUT **SAVING NATURE.**

IT IS ABOUT **SECURING THE FUTURE** CONDITIONS FOR **HUMAN LIFE ITSELF.**

Knowledge Center  
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THANK YOU



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# CONTACT



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SCAN ME