

# HOW DOES BIODIVERSITY MATTER TO DIFFERENT SOCIAL ACTORS?

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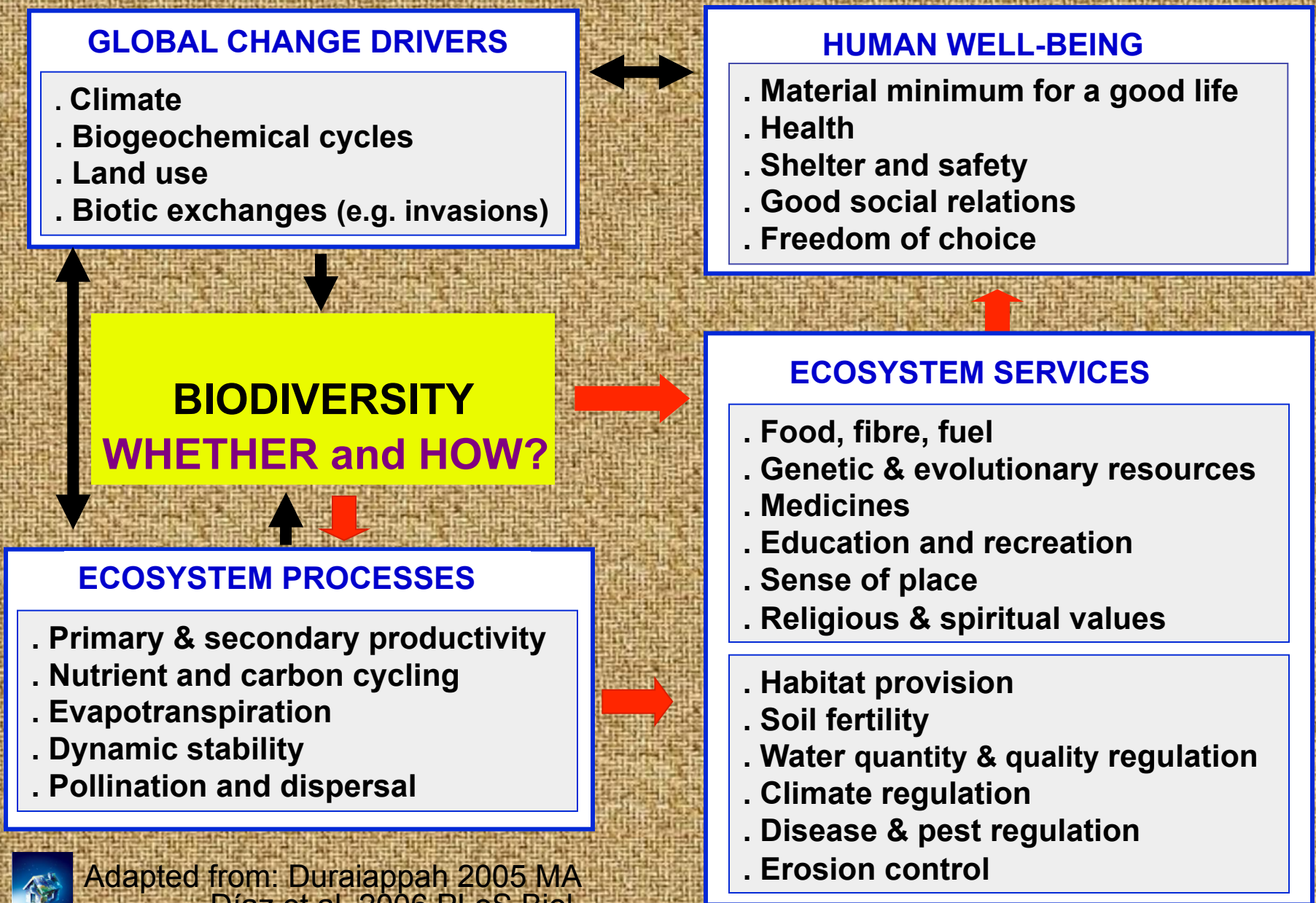




# A wide interdisciplinary team









## Ecosystem services that depend on the characteristics of the **ABUNDANT** species

Climate regulation,  
carbon storage  
Water quality &  
quantity



Fodder provision



symbolic value



## Ecosystem services that depend on the **VARIETY** of trait values

Food security



Aesthetic value  
Nature-based tourism



## Ecosystem services that depend on the presence of certain trait values or species



# Our main contribution

A conceptual framework and practical tools  
for unpacking and measuring functional  
diversity and assessing its value to different  
sectors of society.

*Díaz et al. 2007, 2011 PNAS*





# The questions

- ➔ How different social actors, in highly heterogeneous societies, perceive and value different ecosystem services?
- ➔ How do they associate these services with different ecosystem types?
- ➔ How are these services associated to ecosystem processes and biodiversity components from the point of view of ecological science?







# Interdisciplinarity

**Ecologists and social scientists discuss conceptual and methodological issues**

**Discussing ecosystem types in the field**



**Discussing ecological and social concepts in the field**



# Individual interviews



## Linking ecosystem types to ecosystem benefits





# Measuring ecosystem properties and functional traits in different ecosystems types



**Larrea  
shrubland**



**Intensive  
agriculture**



**Logged  
pastureland**





Knowing that not all **components of biodiversity** are equally important for **different ecosystem benefits** has direct implications in designing **biodiversity monitoring strategies**.





Equally fundamental is to understand **what aspects of biodiversity are useful for different social actors** with different –and sometimes conflicting- views on ecosystem benefits and **different political power.**





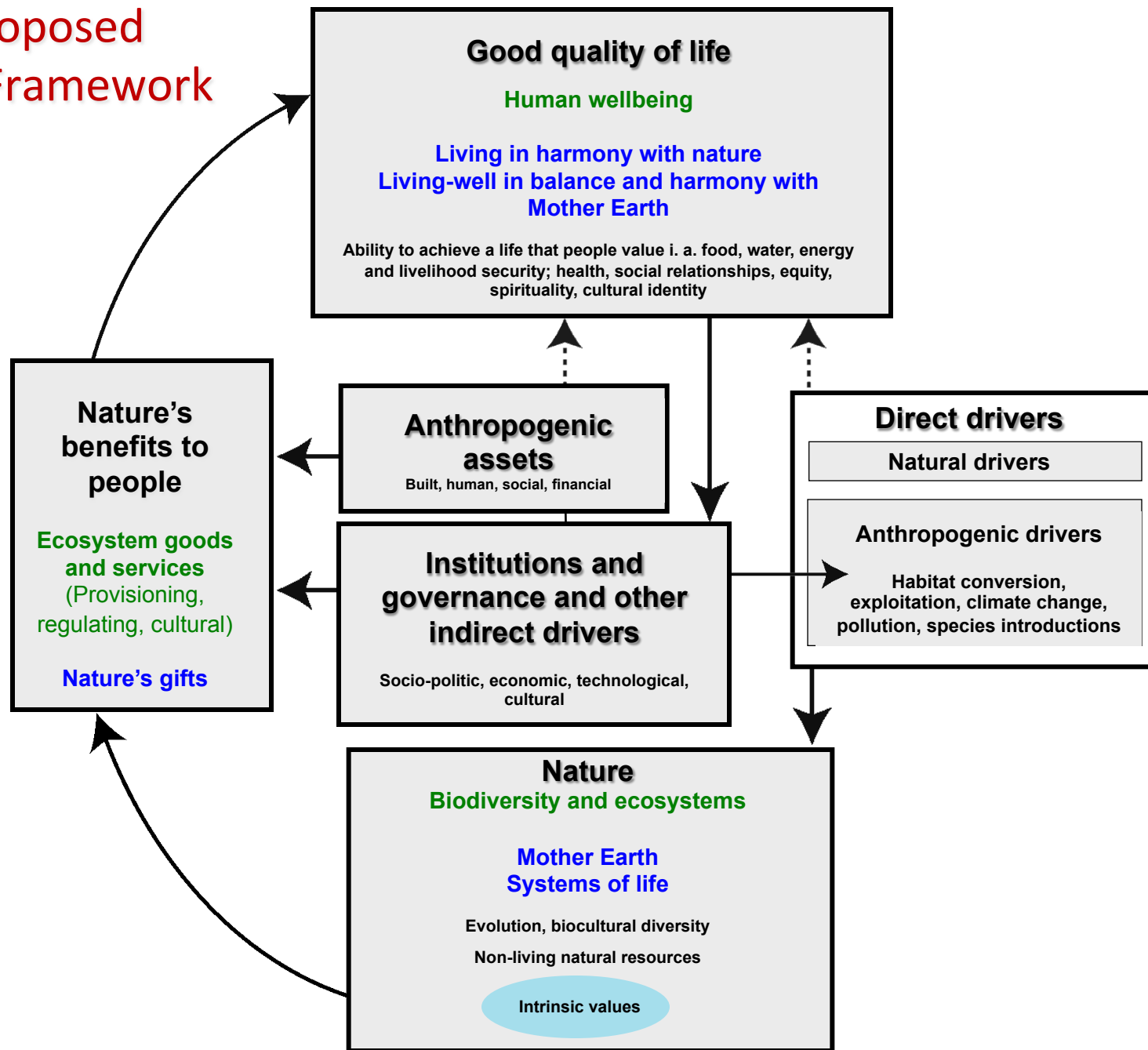
Interdisciplinary approaches are **necessary but not enough** to protect, and sustainably manage, biodiversity and its social benefits.

**Ecosystem governance** is an indispensable element in this equation.





# The IPBES proposed Conceptual Framework







[www.nucleodiversus.org](http://www.nucleodiversus.org)

