

Why conservation for Sustainable development
What is conservation
What is sustainability
What is development

Assé, Rainer

REFERENCES CITED (Photos, Diagrams, etc.) –
AVAILABLE UPON REQUEST

Conservation - definition

The study & strategy to safeguard the planet's biodiversity by protecting species from extinction through conservation of habitats and ecosystems.

Kingdom

Animalia

Phylum

Chordata

Subphylum

Vertebrata

Class

Mammalia

Order

Carnivora

Family

Canidae

Genus

Canis

Species

C. lupus

Classification of *Homo sapiens* within the order Primates

species
sapiens

contained forms:
modern humans

genus
Homo

modern and
archaic humans

family
Hominidae

humans and
great apes

superfamily
Hominoidea

humans and
all apes
(great apes
and gibbons)

infraorder
Simiiformes

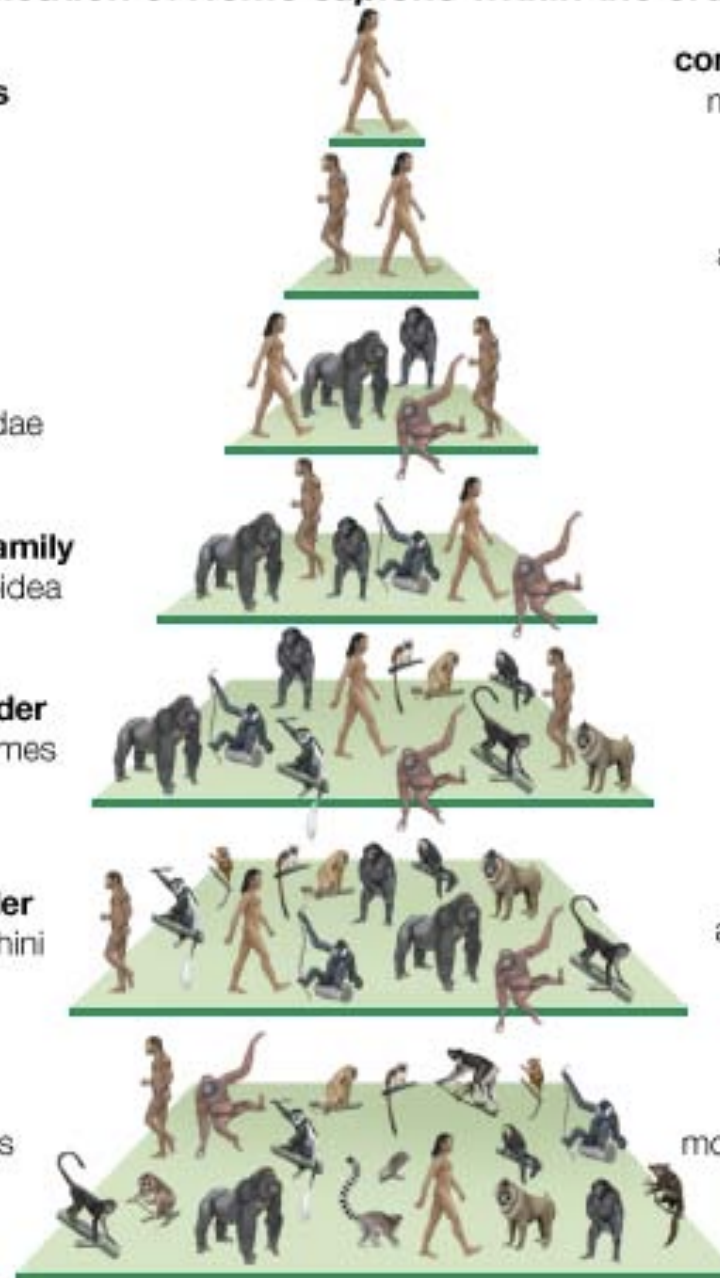
humans, apes,
and monkeys

suborder
Haplorrhini

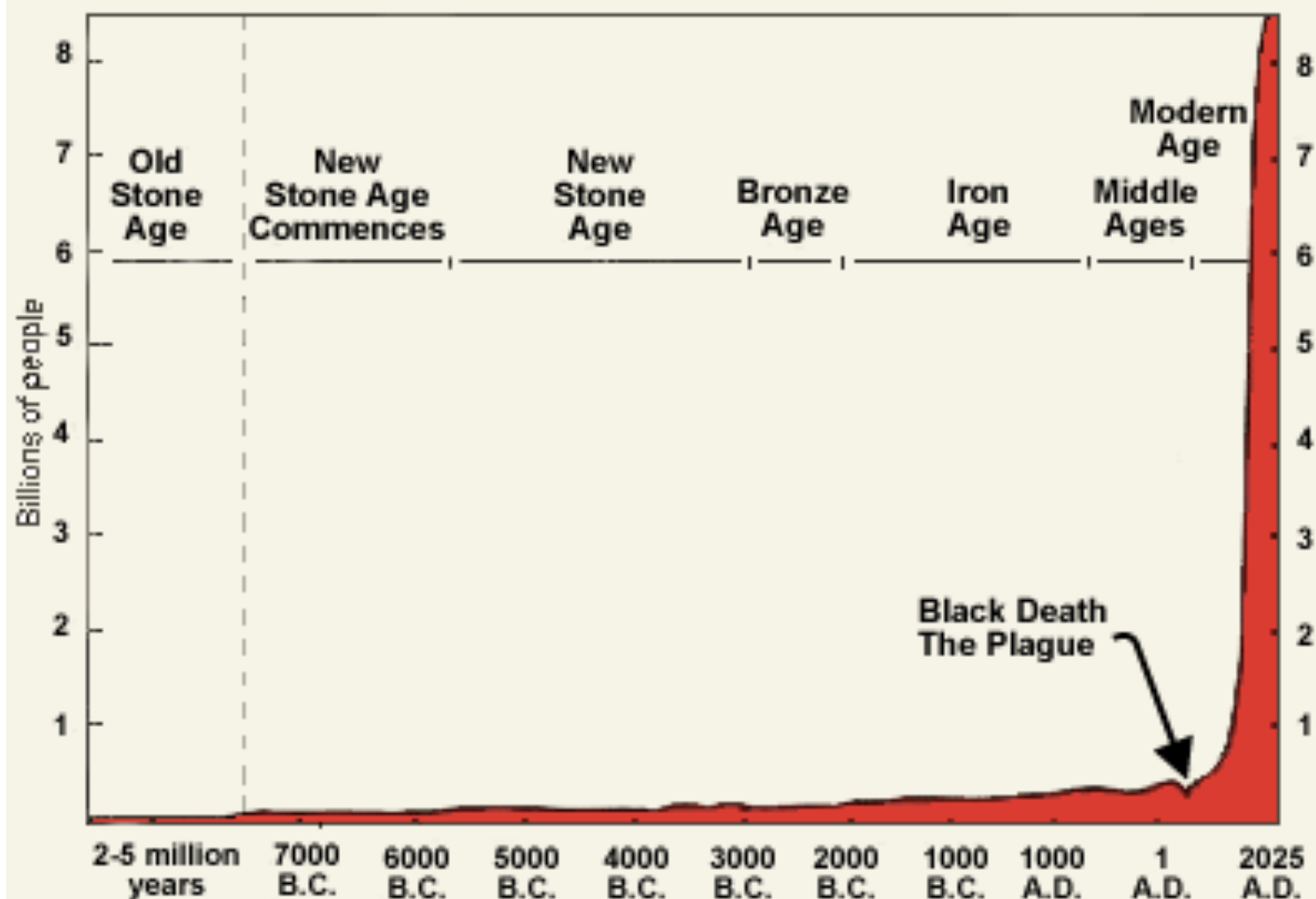
humans,
apes, monkeys,
and tarsiers

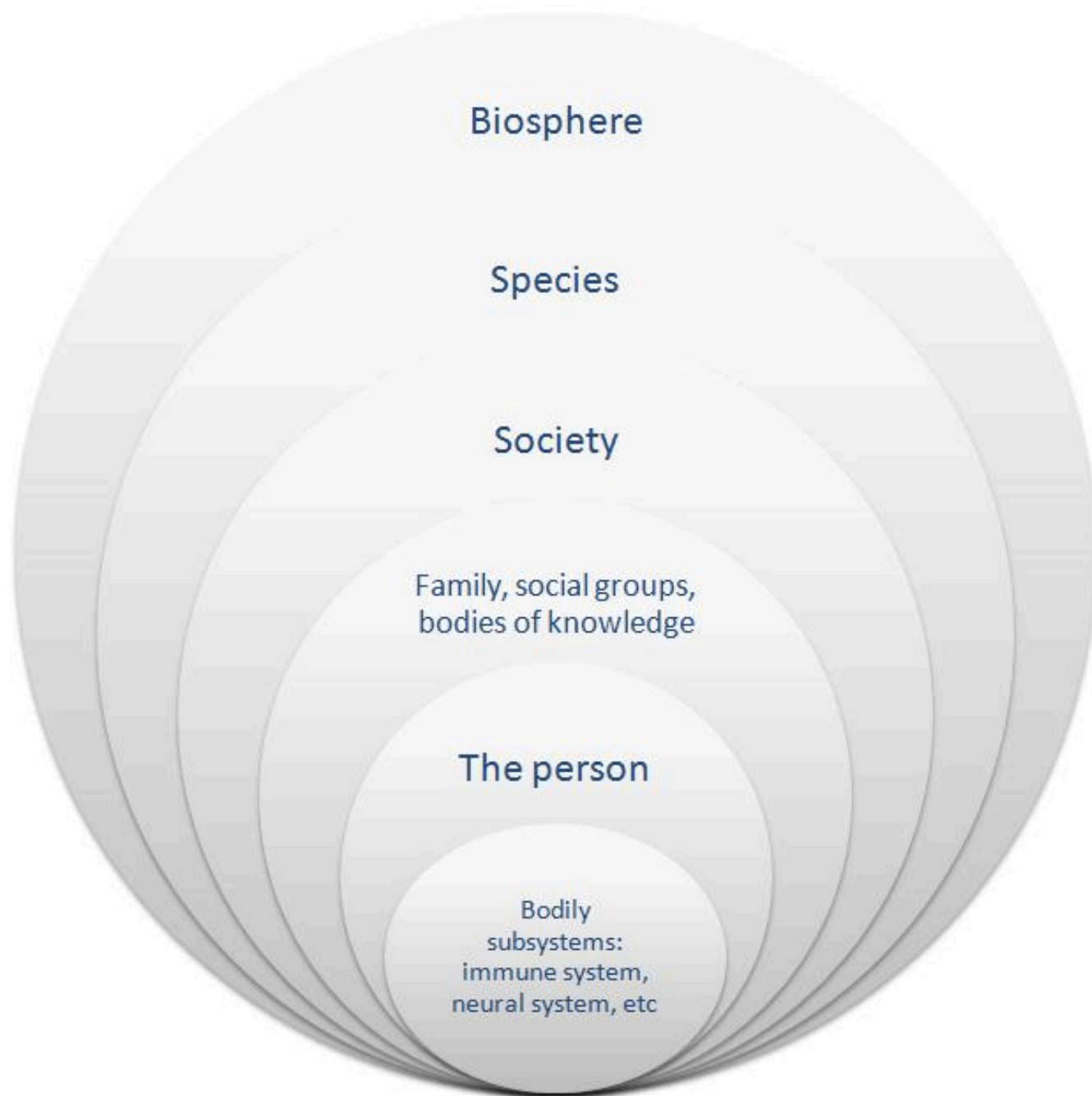
order
Primates

humans, apes,
monkeys, tarsiers,
lemurs, and
lorises



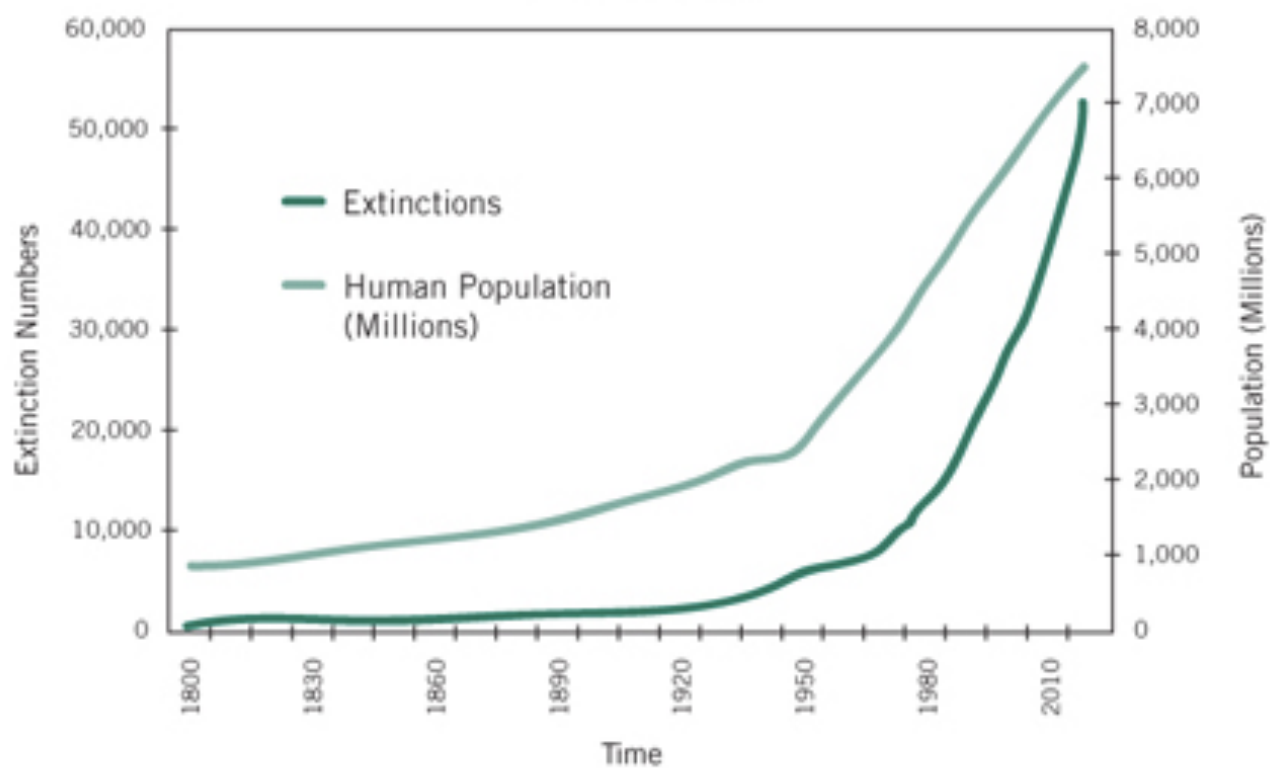
World Population Growth Through History





Species Extinction and Human Population

Graph source: USGS





Saola (*Pseudoryx nghetinhensis*)

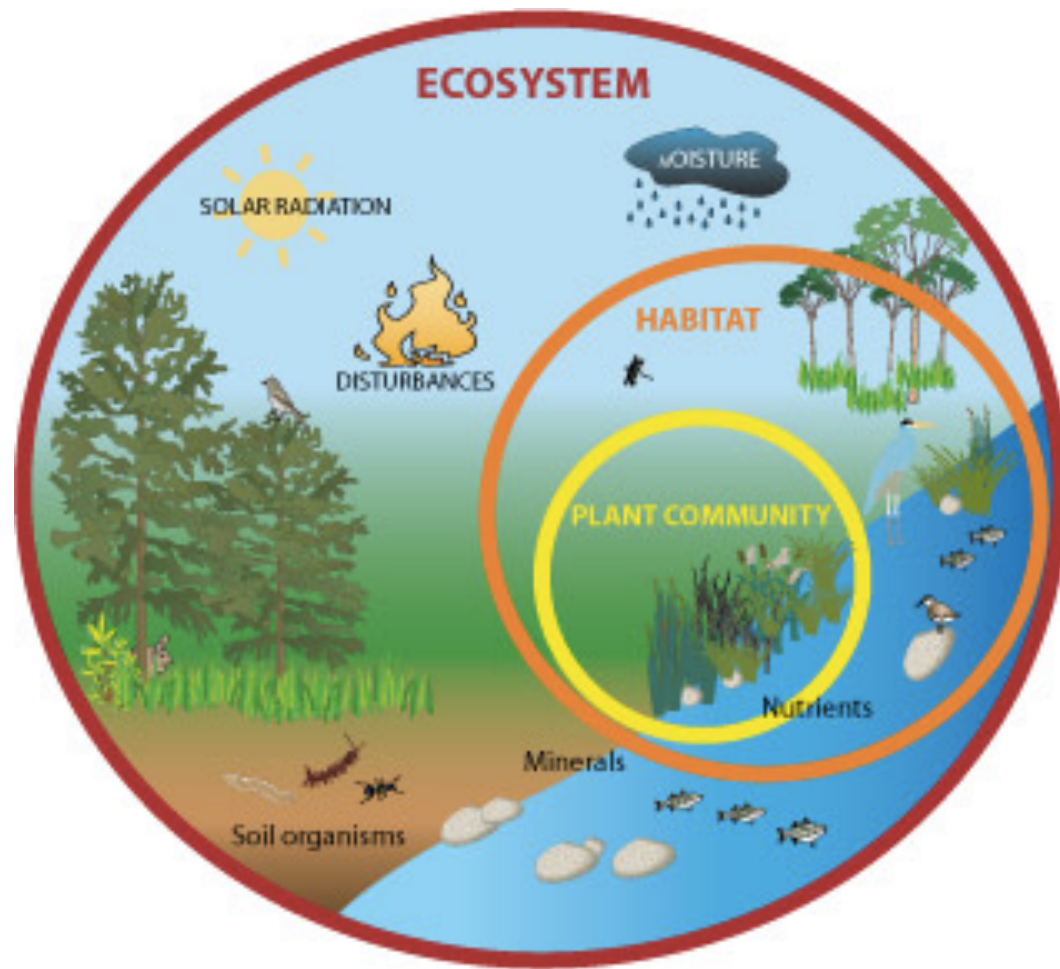
Identified as new species – 1992

Discovered live – 2010



Habitat - definition

A particular type of ecological, geographical, or environmental area inhabited by a specific species of animal or plant.





 **DI SẢN THIÊN NHIÊN THẾ GIỚI**
VƯỜN QUỐC GIA PHONG NHA - KÈ BÀNG
WORLD NATURAL HERITAGE PHONG NHA - KÈ BÀNG NATIONAL PARK























Sustainability - definition

In terms of ecology – strategies that assure the diversity, resistance, and resilience of biological systems for long-term functioning of such systems (e.g., ecosystems).

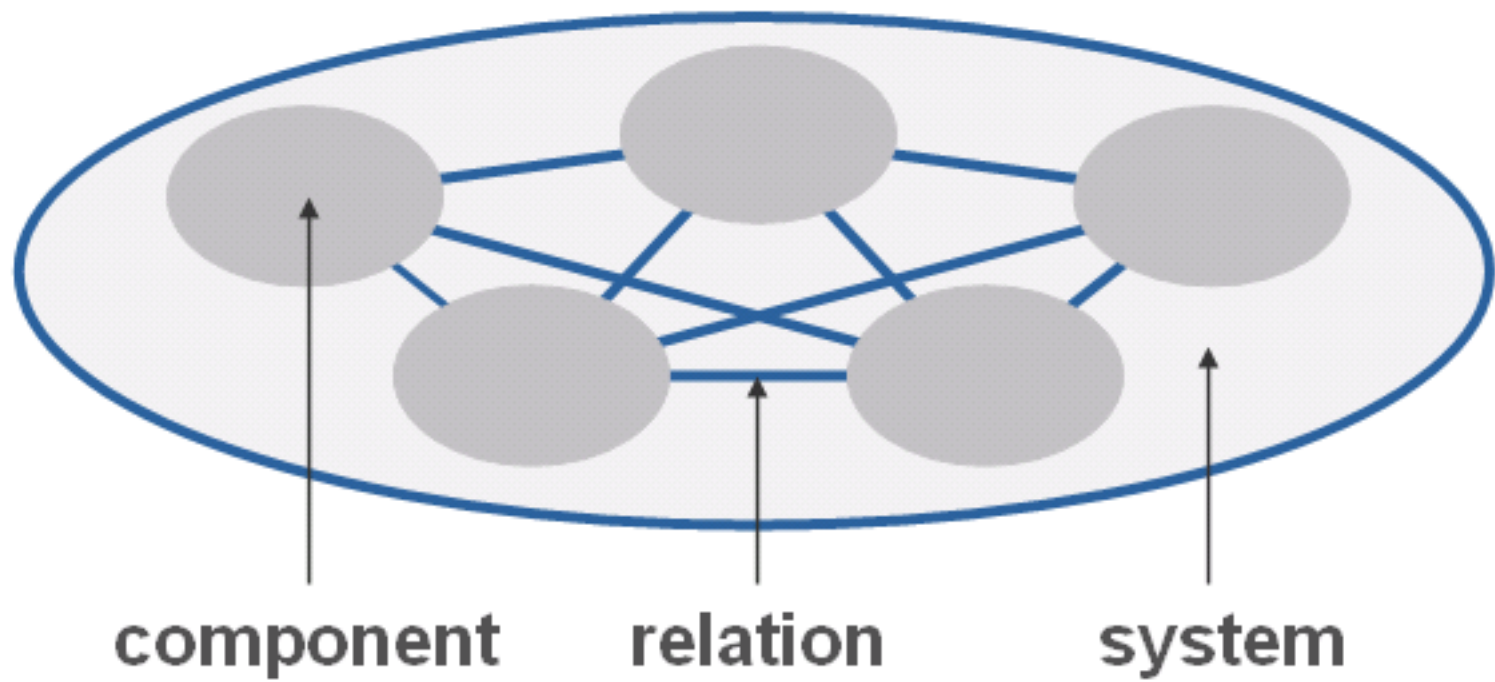
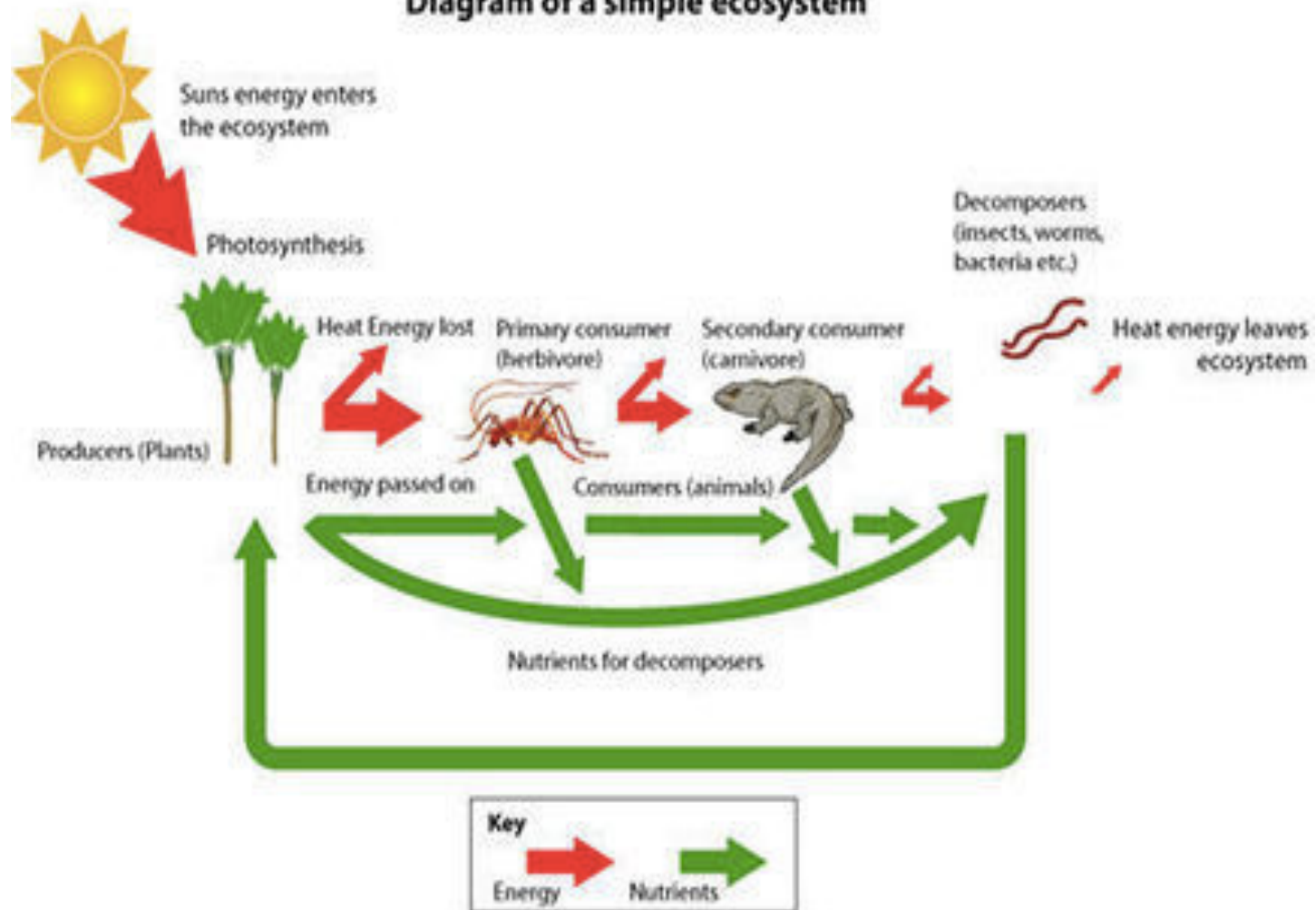
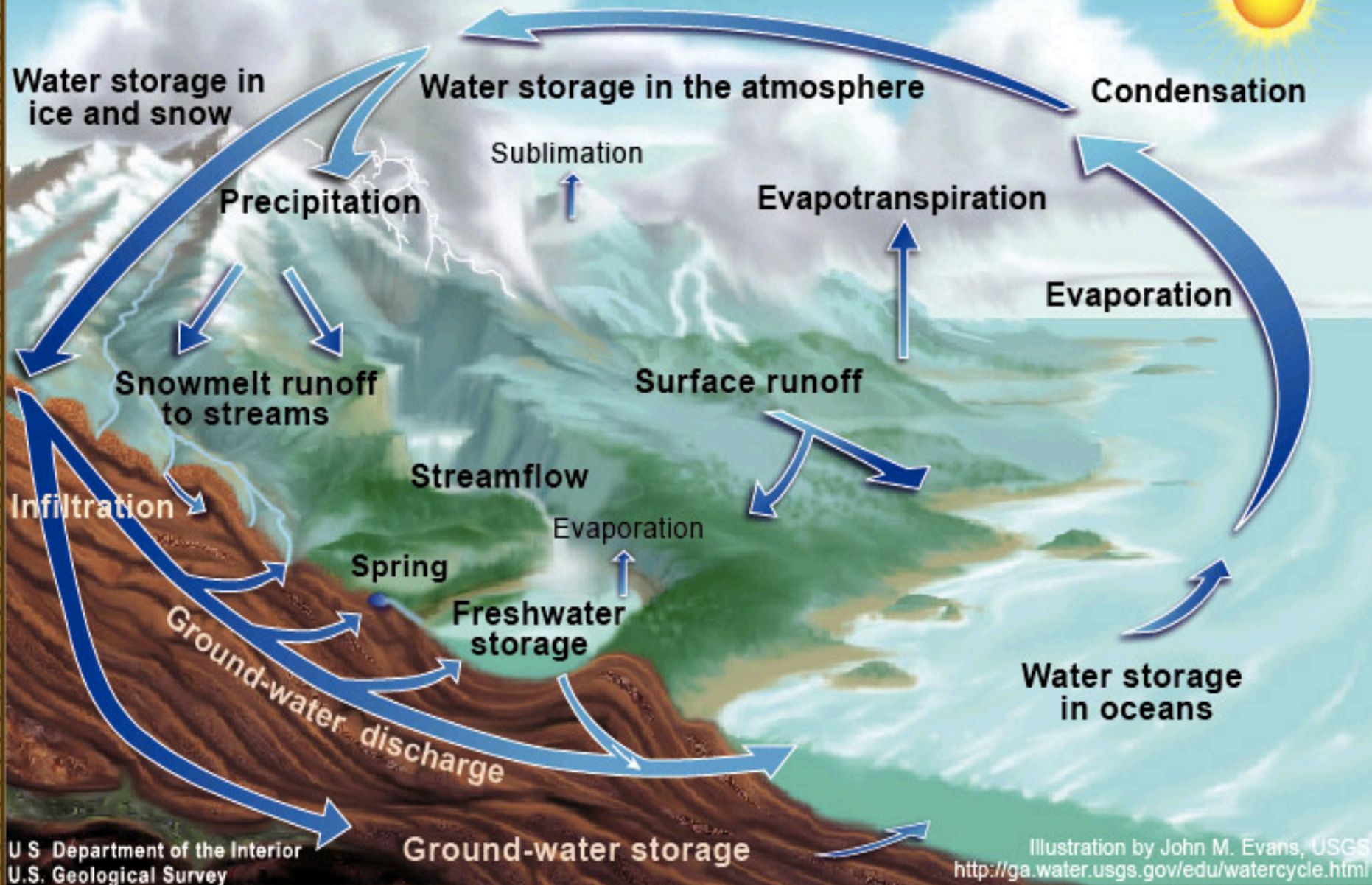
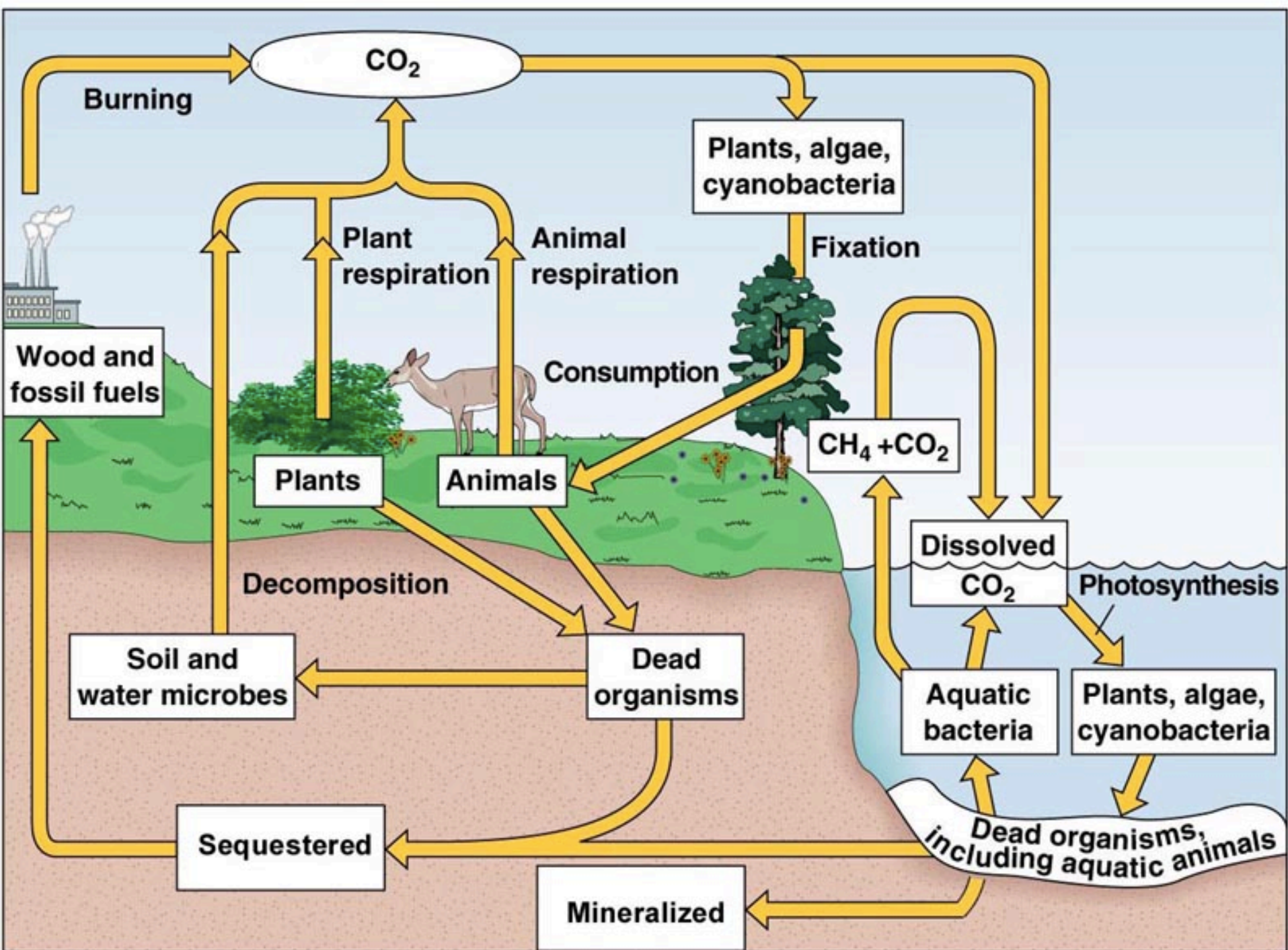


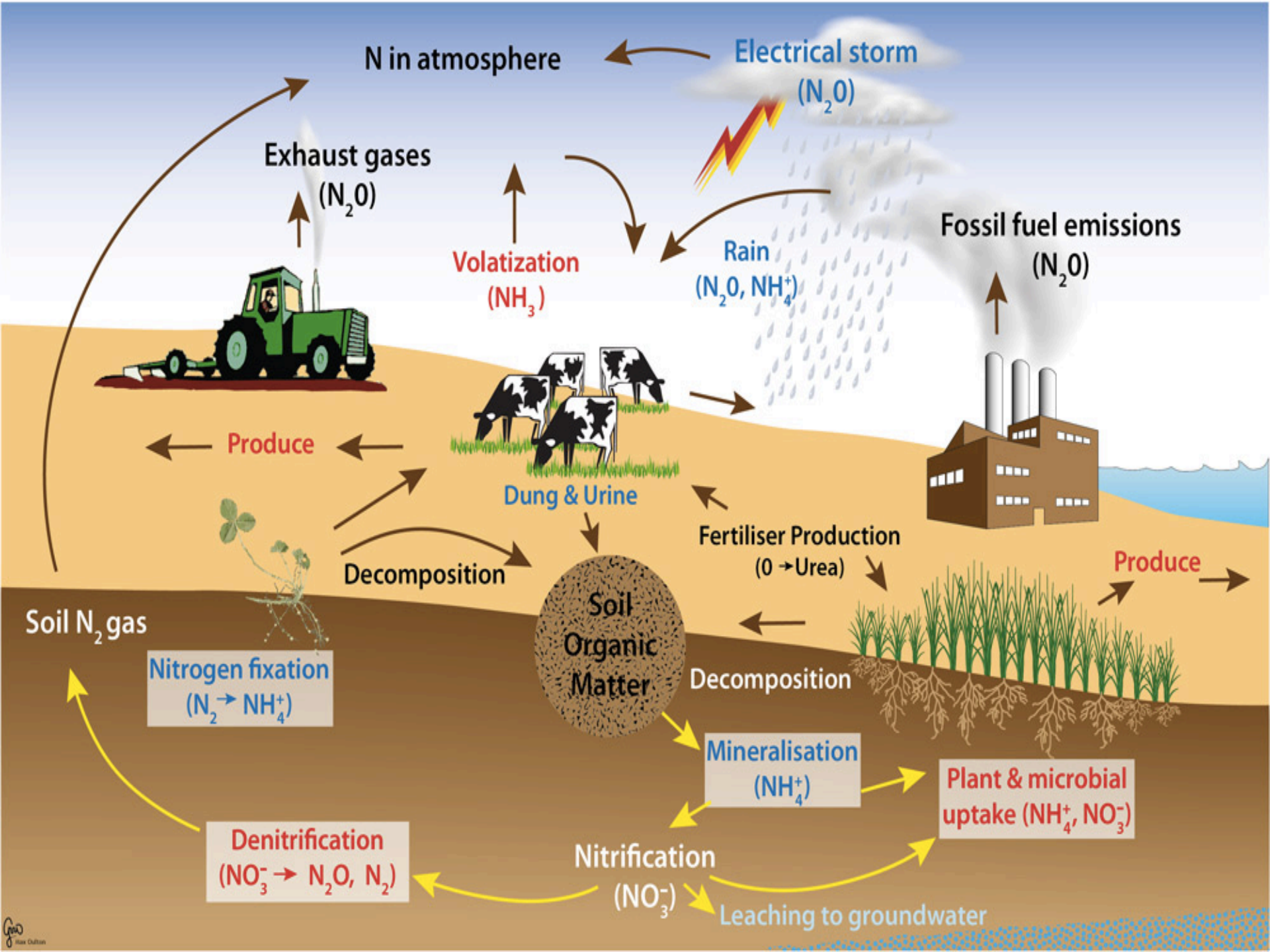
Diagram of a simple ecosystem



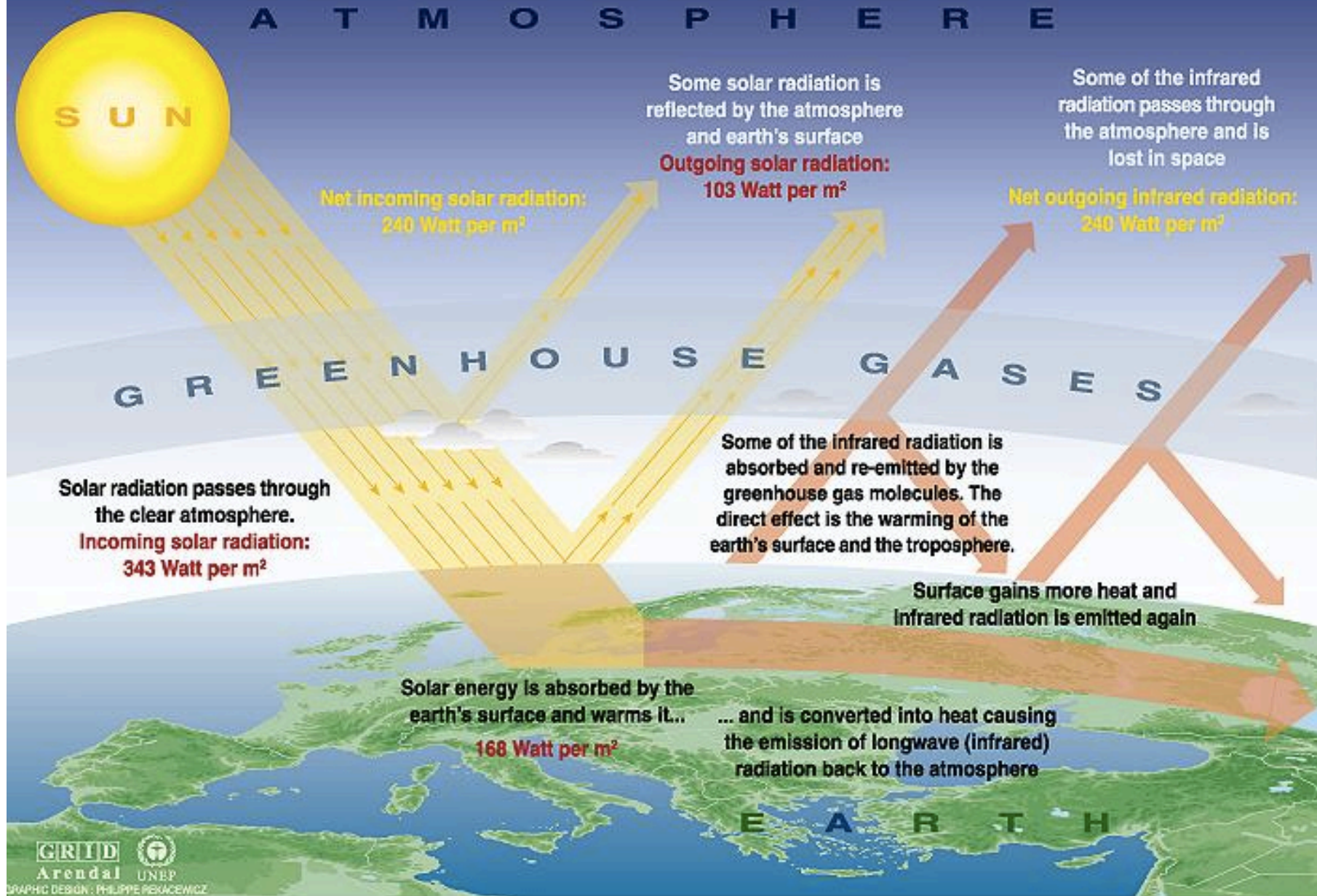
The Water Cycle



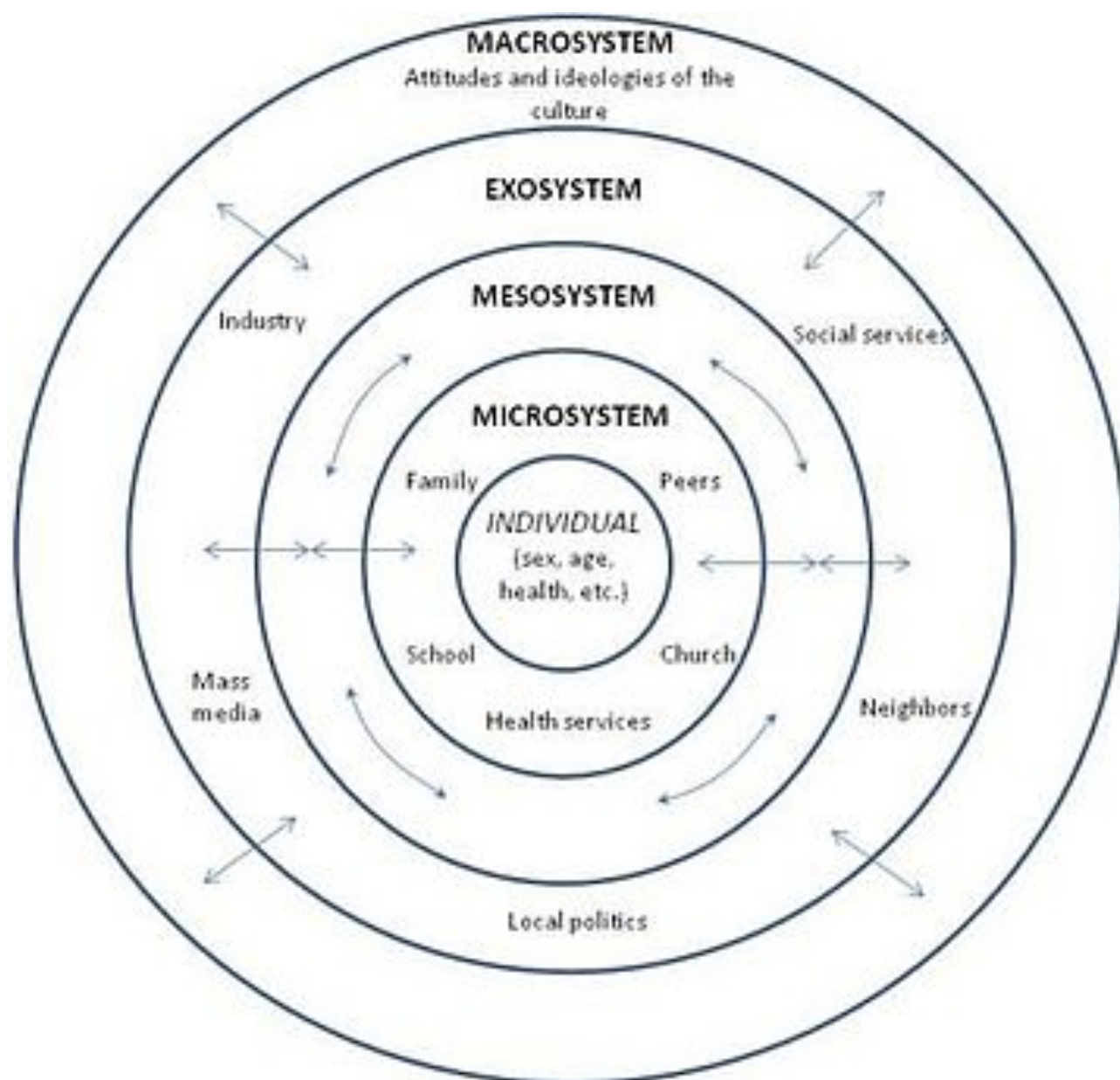


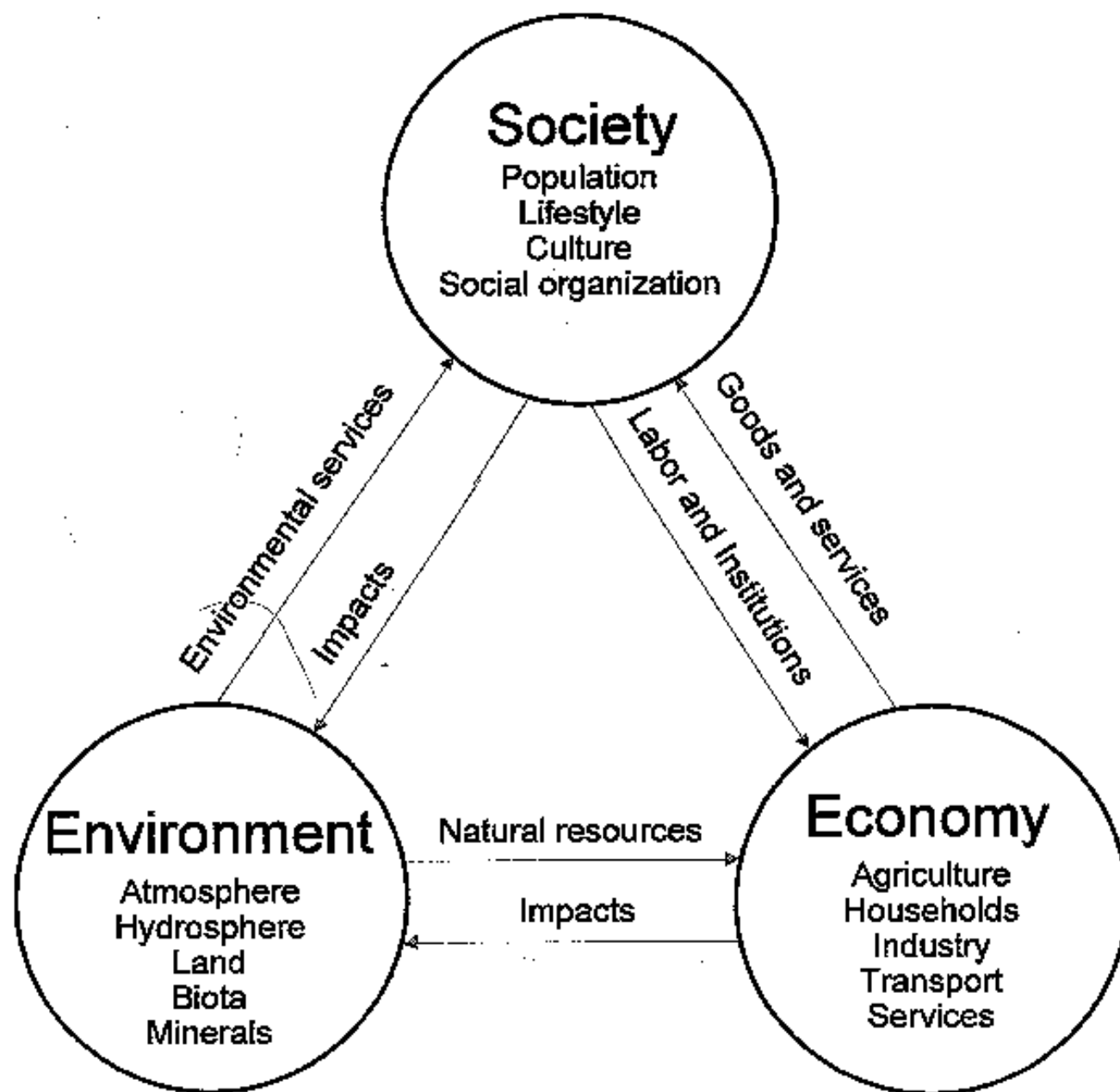


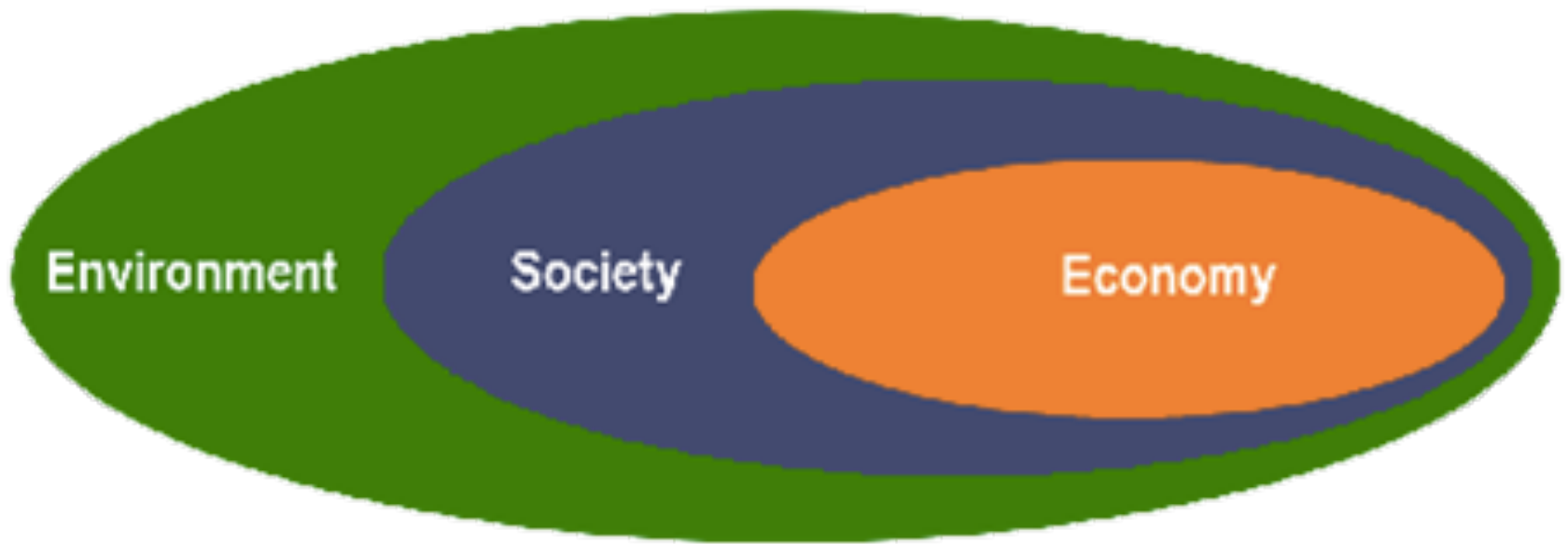
The Greenhouse effect



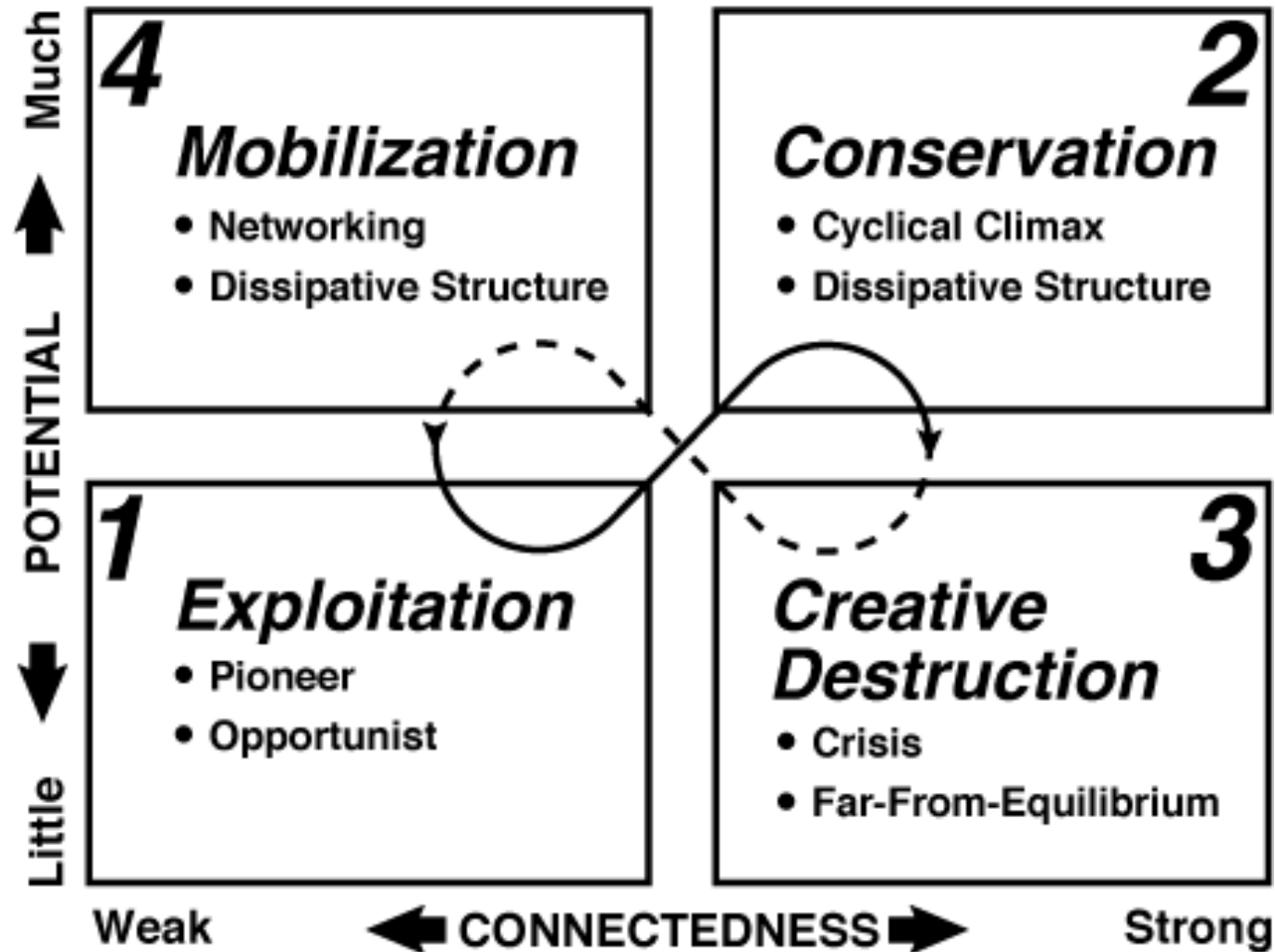
Sources: Okanagan university college in Canada, Department of geography, University of Oxford, school of geography; United States Environmental Protection Agency (EPA), Washington; Climate change 1995, The science of climate change, contribution of working group 1 to the second assessment report of the intergovernmental panel on climate change, UNEP and WMO, Cambridge university press, 1996.



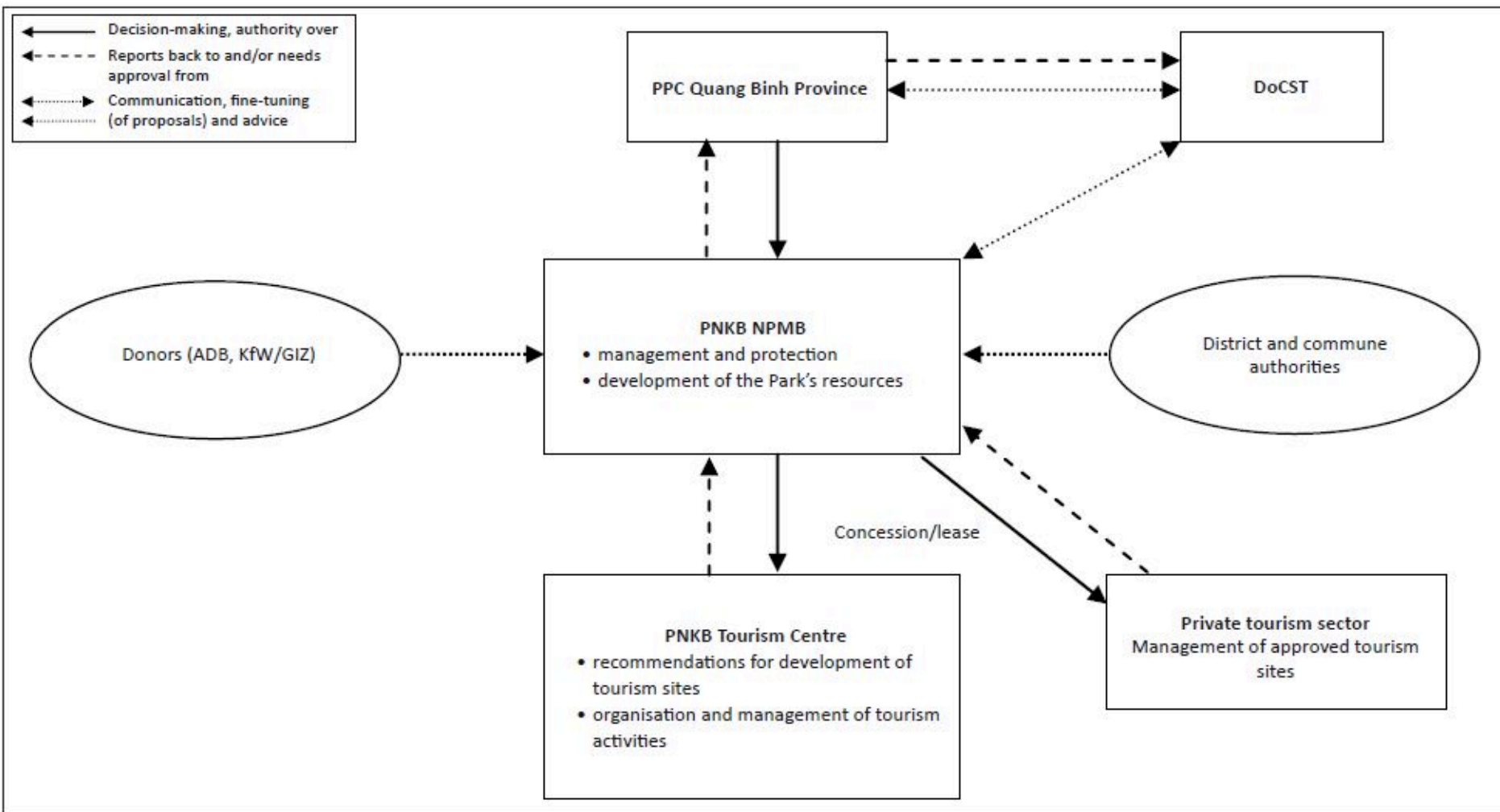




Nested systems



Adaptive cycle of Complex Systems –
Hollings 2001



Source: Based on People's Committee of Quang Binh Province, 2010, *Sustainable tourism development plan 2010 to 2020: Phong Nha-Ke Bang National Park region*, Tourism Resource Consultant, GIZ, Dong Hoi

PPC, Provincial People's Committee; DoCST, Department of Culture, Sports and Tourism; ADB, Asian Development Bank; KfW, Kreditanstalt für Wiederaufbau; GIZ, Gesellschaft für Internationale Zusammenarbeit; PNKB NPMB, Phong Nha-Ke Bang National Park Management Board.

FIGURE 2: Ideal management model in the Phong Nha-Ke Bang National Park.

Organizational structure

Vision built in?

Lane Gresser

