

Alberto Basset & Antonello Provenziale

LifeWatch Thematic Core Services



Climate Change Impact on Biodiversity Patterns | Lecce, Italy, 21-22 February 2024

LifeWatch Thematic Core Service



*Coordinate Reference
System*



*BIODIVERSITY OBSERVATORIES: DATA
MANAGEMENT*



*Environmental
Monitoring*



*ANIMAL BIOLOGY:
FUNCTIONAL TRAITS*



HABITATS MAPPING



Metagenomics



Modelling



*Remote and Smart
Sensing*



*BIODIVERSITY RESPONSES TO CLIMATE
CHANGE*



*BIOGEOGRAPHY: SPECIES
DISTRIBUTION*



TAXONOMY



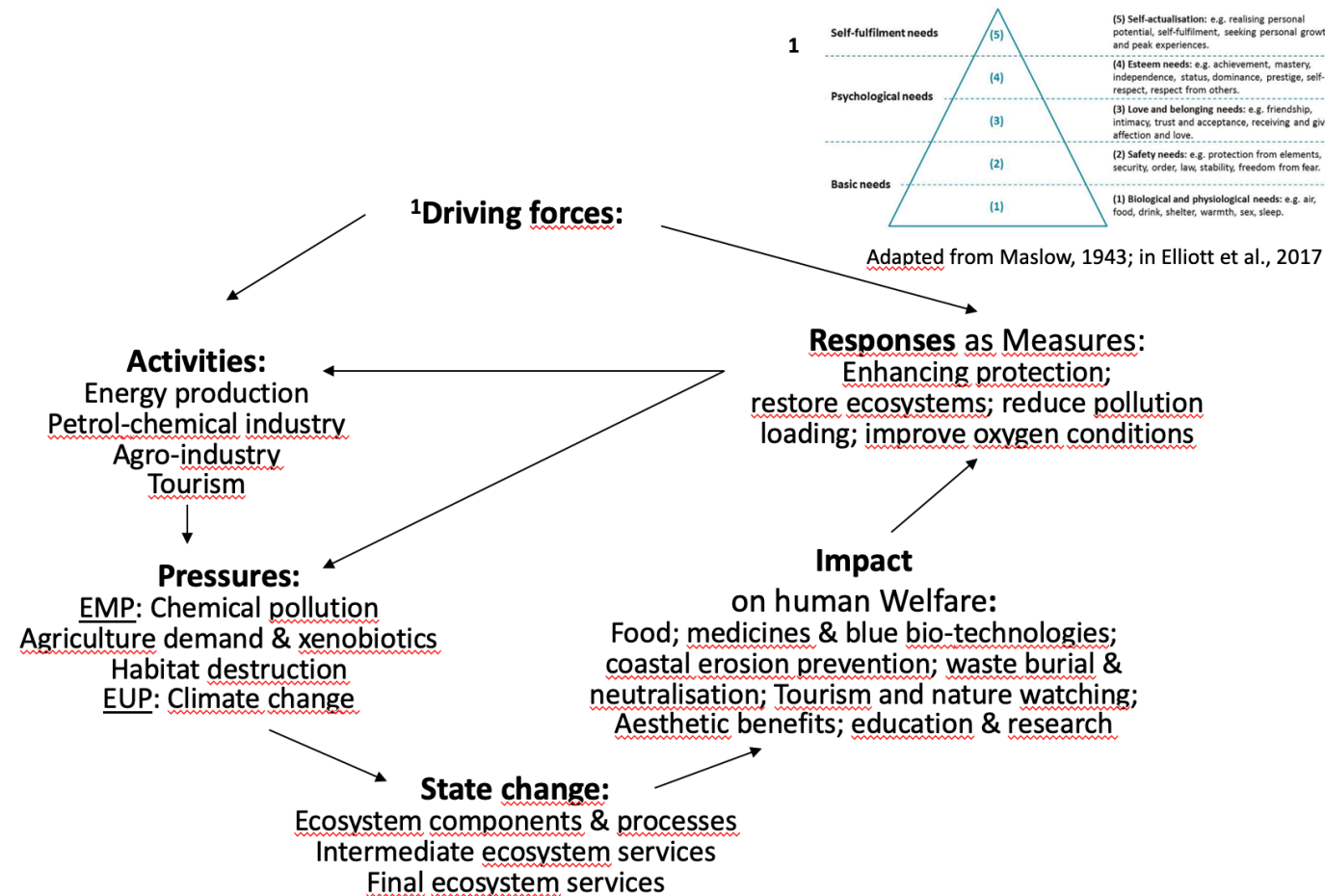
NATURAL CAPITAL & ONE HEALTH



LifeWatch Thematic Core Service



Ecological responses to climate change: implications on human well-being



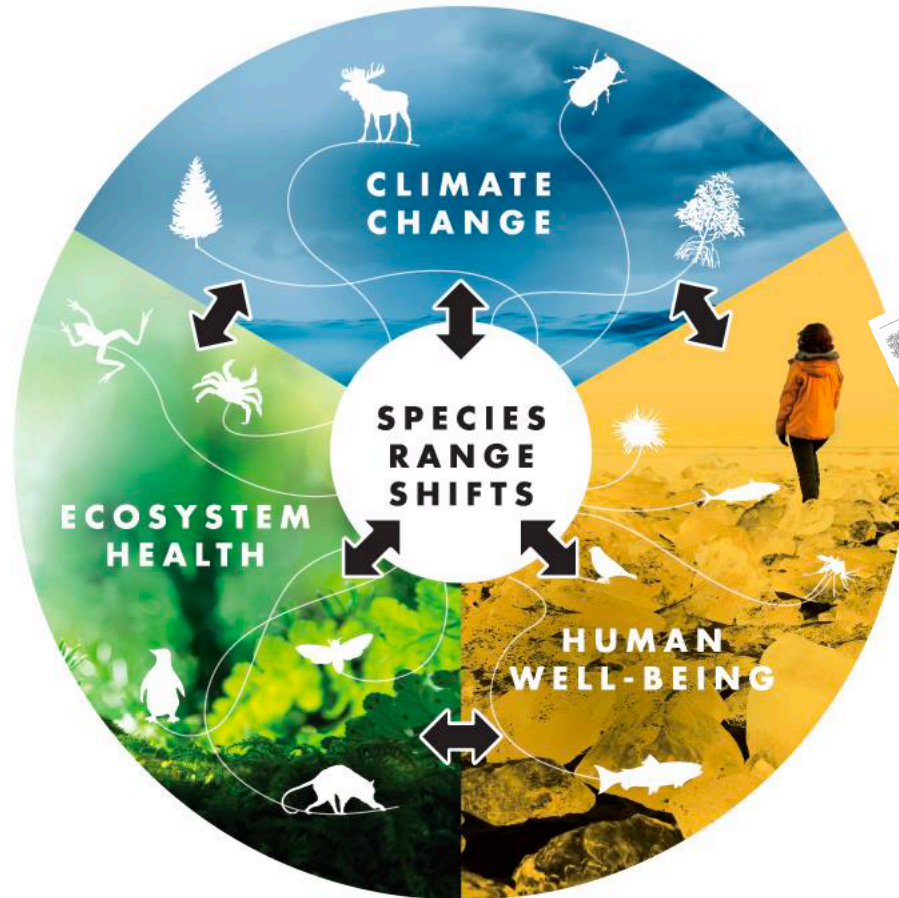
Pressures:

Embodied Manageable Pressures: Agriculture, Urbanization, Industrial production, Riverine input, Fisheries

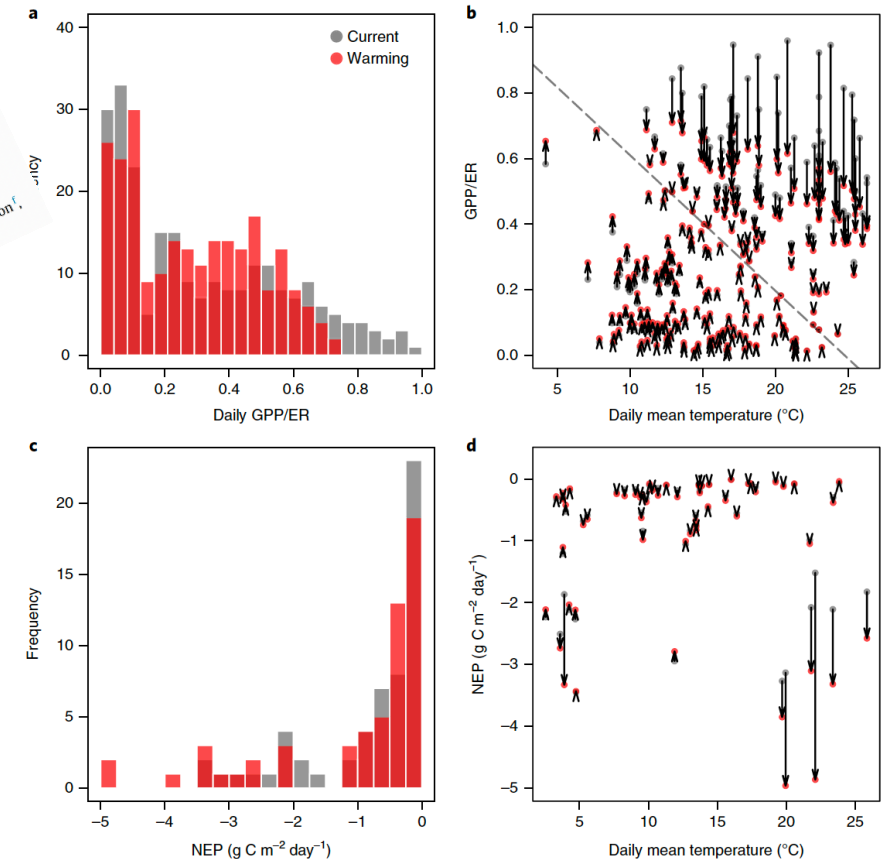
External Unmanageable Pressures: Climate change: temperature 0,07°C/yr, salinity, sea level, storms & waves

LifeWatch Thematic Core Service

Ecological responses to climate change: implications on human well-being



*Expected 25% loss
in NPP by 2100 at
the river basin scale
in Europe*



LifeWatch Thematic Core Service

from community-tailored to community-guided



Working groups community-led are established in order to:

- Enhance collaboration both between and within the Common Facilities and Distributed Centres;
- Review and update the mapping of the research needs of the National scientific communities regarding the Thematic Services and highlight the construction priorities;
- Promote and coordinate the participation of Distributed Centre research Institutions to HorizonEurope and other European/international projects, on behalf of and in collaboration with LifeWatch ERIC.

TAXONOMY



*BIOGEOGRAPHY: SPECIES
DISTRIBUTION*



HABITATS MAPPING



*BIODIVERSITY RESPONSES TO
CLIMATE CHANGE*



BIODIVERSITY OBSERVATORIES



*ANIMAL BIOLOGY:
FUNCTIONAL TRAITS*



LifeWatch Thematic Core Service WGs

from community-tailored to community-guided



Thematic Core Service Working Group organization and functioning:

- The internal organization of every WG is planned to be defined by their participants, with the initial coordination of the Institution that proposed and started the WG constitution process;
- Every WG will be fully supported by the LW ERIC Service Centre with its officers in the different areas of competence and have a dedicated space in the LW Community platform;
- Every WG shall invite key European scientists to contribute to the strategic activities of the Group as members of a small WG Advisory Board;
- WGs are planned to report directly to the LW ERIC Executive Board and shall have a budget for their basic functioning, in addition to the budget which is expected to come

LifeWatch ERIC 2024 Thematic Service Workshop Series

Thank you for your attention!
Any questions?



Taxonomy | Brussels, Belgium, 30 January 2024



Climate Change Impact on Biodiversity Patterns | Lecce, Italy, 21-22 February 2024



Animal Movement and Biologging | Ostend, Belgium, 22 March 2024



Biogeography | Bologna, Italy, 4-5 April 2024



Biodiversity Observatory Automation | Ljubljana, Slovenia, 11 April 2024



Habitat Mapping | Aveiro, Portugal, 3 May 2024

