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Listen to the ocean

A framework linking ecosystem services and human well-being: an application to saltmarsh

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Background (1/2)

- The ecosystem services (ES) approach links nature and human well-being (HWB)
- HWB is a multi-dimensional concept, with no universally accepted definition
- Inclusion of HWB in the ES approach is still vague



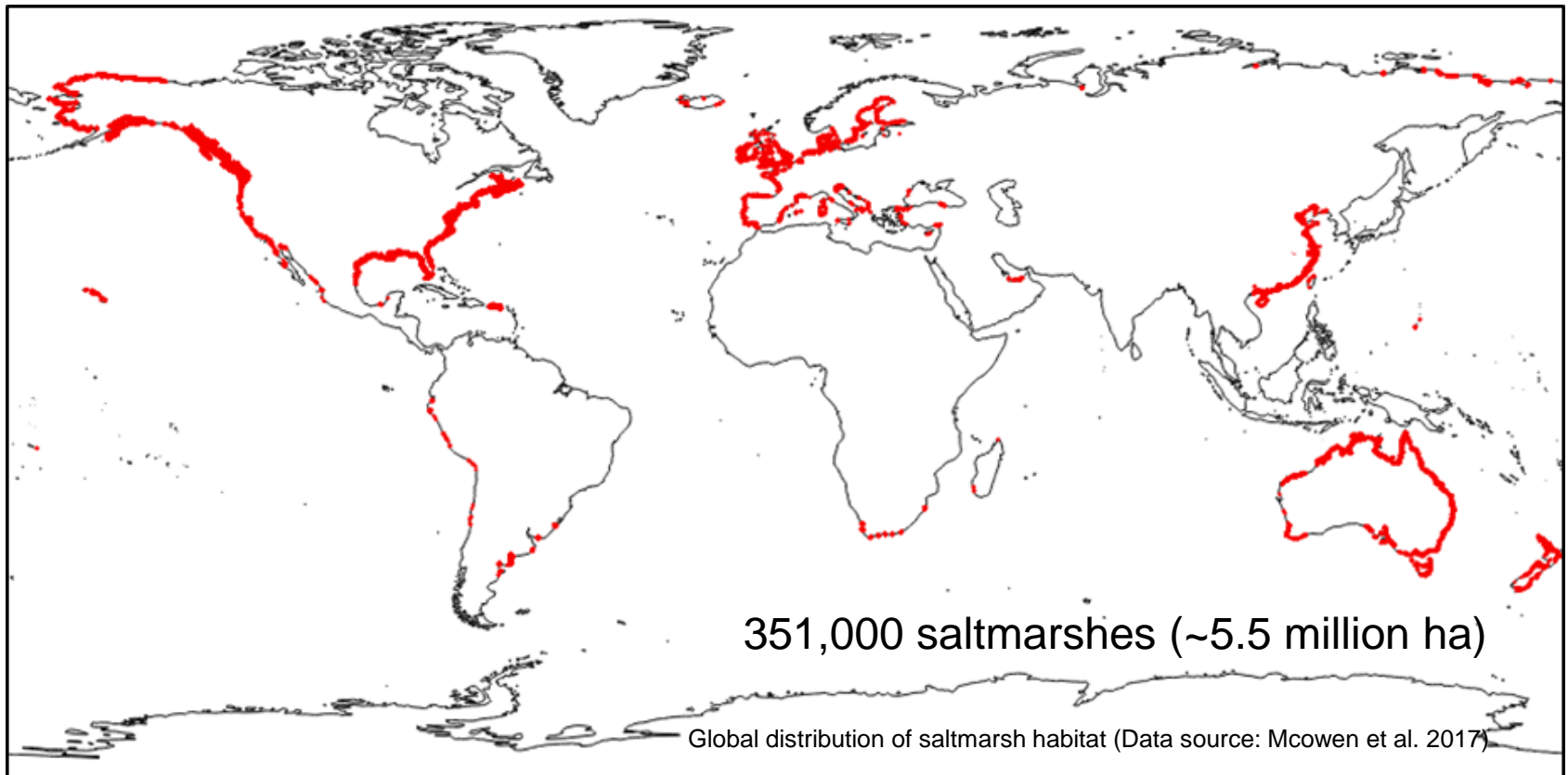
Background (2/2)

- Why HWB remains poorly understood in the context of ES:
 - a) ES frameworks do not mention HWB
 - b) HWB not divided into different components
 - c) varied classifications/recognition of (dis-)benefits
 - d) frameworks not applied in practice
 - e) the ES-HWB linkages not clear



Objectives & case study

1. to provide a framework linking ES and HWB
2. To apply the framework to saltmarsh



Framework design

- Developed by adapting the UKNEA-FO framework and Wellbeing domains - Smith et al. 2013

Wellbeing domains (*Smith et al. 2013*)

Spiritual and Cultural Fulfillment

(importance of arts, culture and religion, visits to museums, natural/historic sites)

Social Cohesion

(connectedness, identity, participation, trust and obligation, volunteering)

Health

Physical and psychological human health (behaviour, mental health, emotional health, nutrition)

Living Standards

(household and community debt, food availability and access, mean income, poverty)

Safety and Security

Freedom from harm, both perceived and actual

Education

Outcomes derived from formal and informal transfer of knowledge and skills

Connection to Nature

The innate emotional affiliation of humans to other living organisms

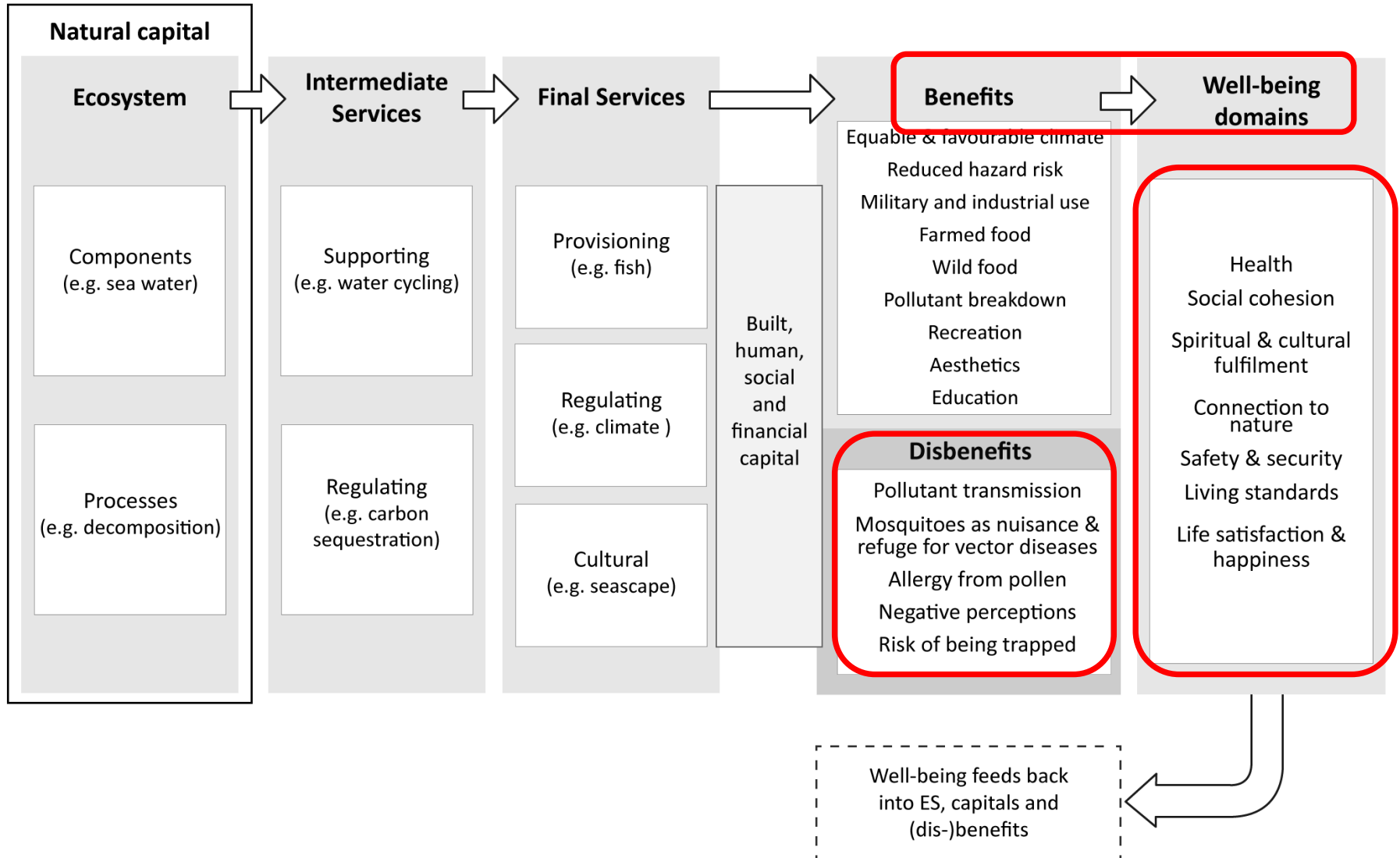
Life Satisfaction and Happiness

Contentment with our life (life evaluation, optimism, and self-reported happiness)

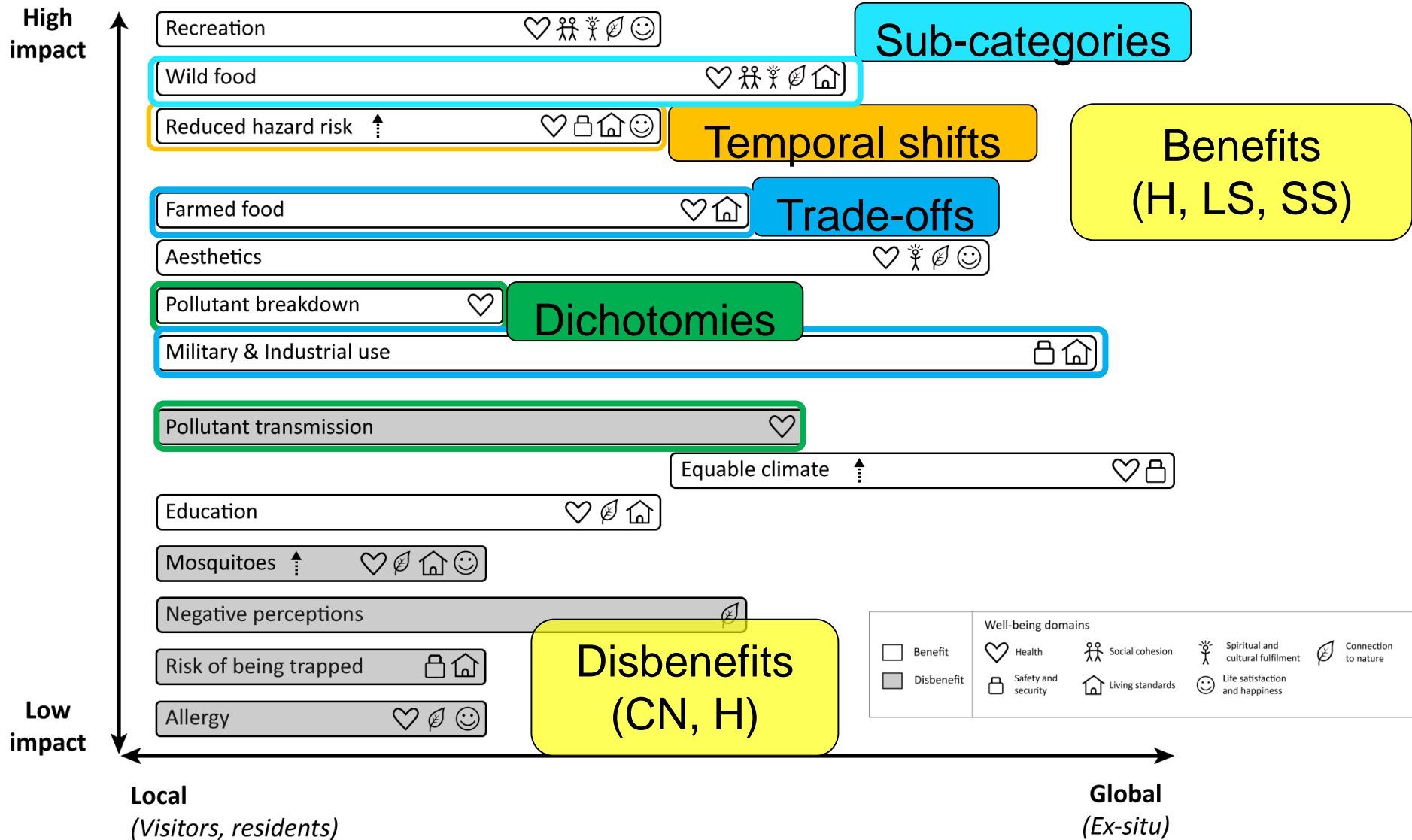
Leisure Time

Amount and quality of time spent outside of obligations to work and home

Proposed framework: Three key additions



Saltmarsh: Scale, impact and relevant parties



Some limitations

- Complexities of linking/measuring ES-HWB
- Potential reductionist approach
- Ensuring an integrated approach with all sectors
- Apply to other habitats and cultural contexts



Take home messages

1. HWB was missing previously
2. It is very important to include HWB for:
management decisions
incorporate other sectors
stakeholder engagement
3. We propose a solution to the inclusion
of HWB...as a stepping stone



Rendón *et al.* 2019. *People and Nature* 00:1-11

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