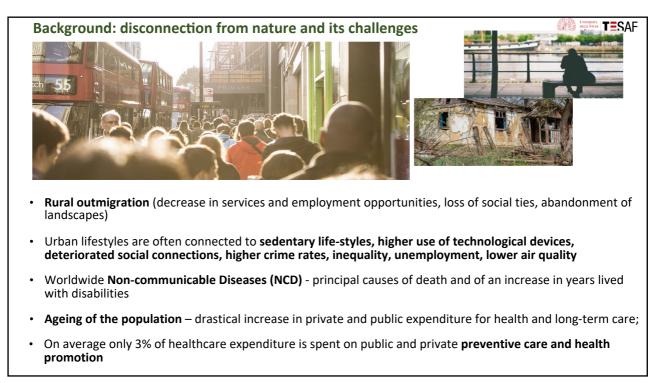
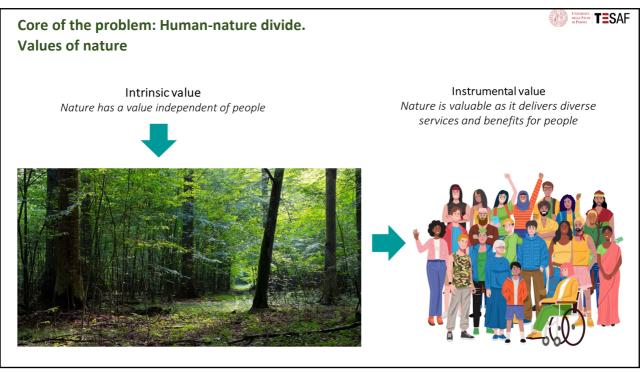


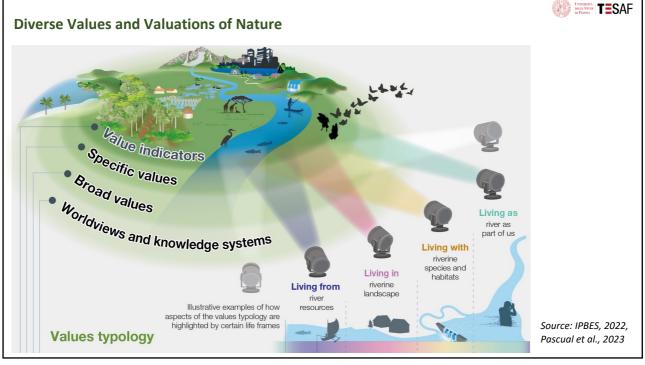
# Outline

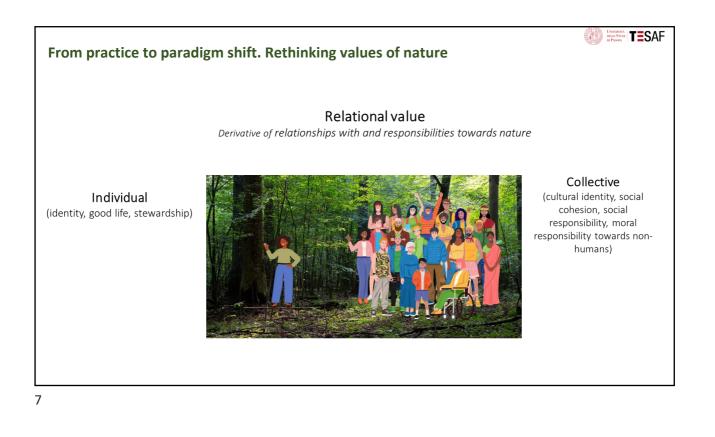
## Background of the two projects

- Socio-cultural services: a neglected issue
- Socio-cultural services: a classification model
- The two projects: Green4C and RESONATE
- Governance issues related to forest green care development

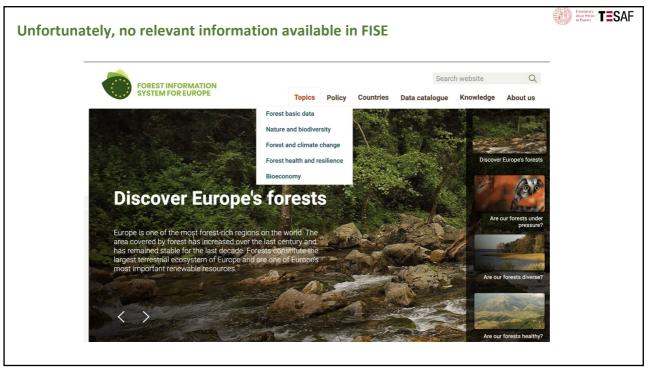






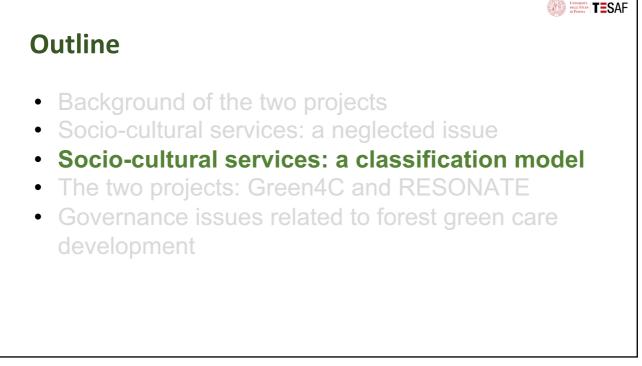




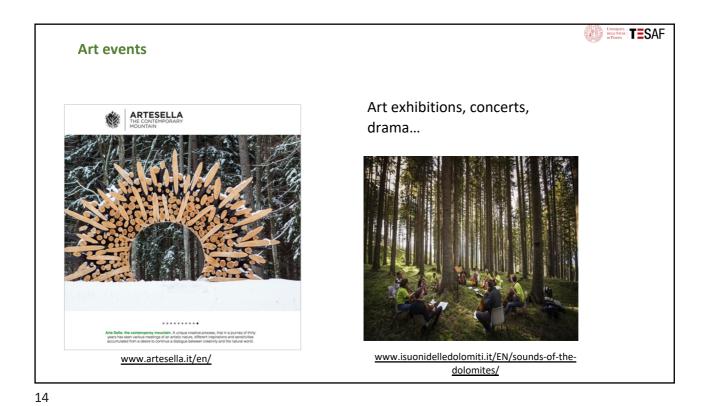


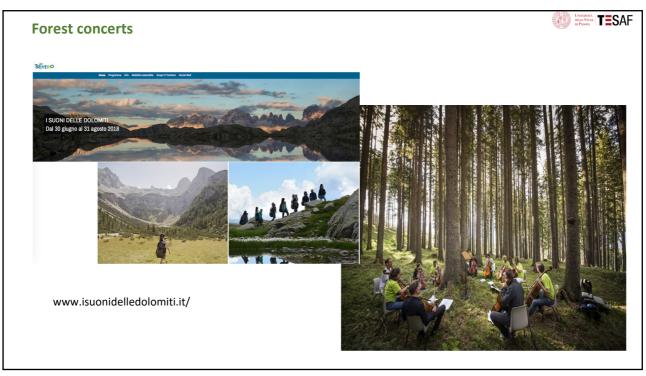






#### Forest-based Socio-Cultural Ecosystem Services (human benefits of nature) Pedagogy & education (kindergarten or outdoor schools, educational farms, Culture scout groups, ...) (art museums, concerts in Nature, theater performances, land art,...) Spiritual & religious (meditation and worship, ecological burial, ...) Tourism&recreation (walking, visits to special landscapes and sites, wild products picking, camping, picnic, ...) Social inclusion (activities for the elderly, disable people, refugees-displaced, prisoners, victims of violence...) Sport (hiking, nordic walking, Emergent activities - Green care mountain bike, orienteering, hunting, adventure parks, ...) Nature-based wellness and therapy (forest bathing-Shinrin-Yoku, prest therapy, pet therapy, ...) Source: Doimo et al. 2020; Masiero et al. 2020; Mammadova et al. 2021

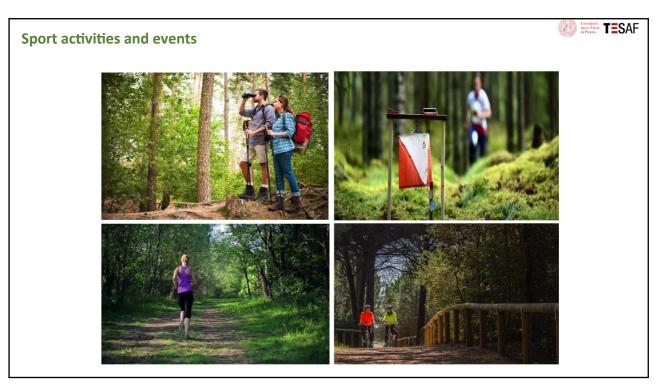




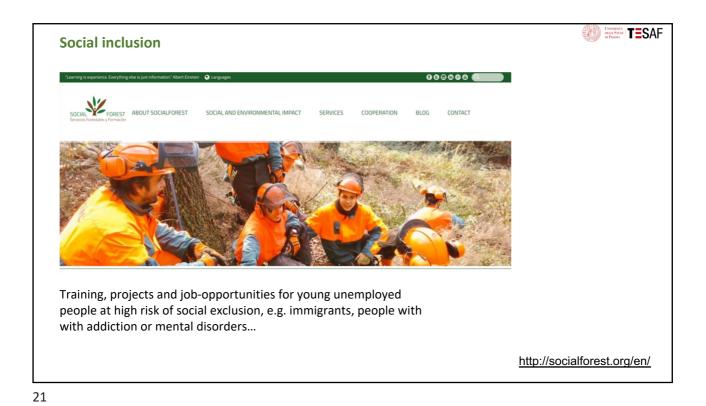




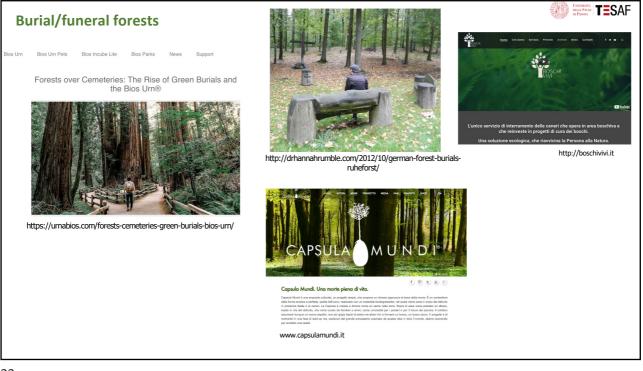


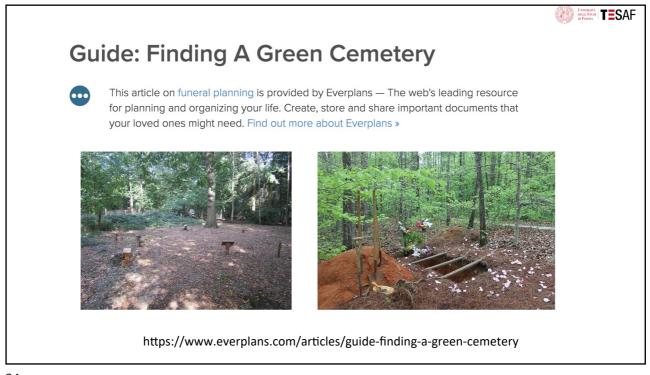






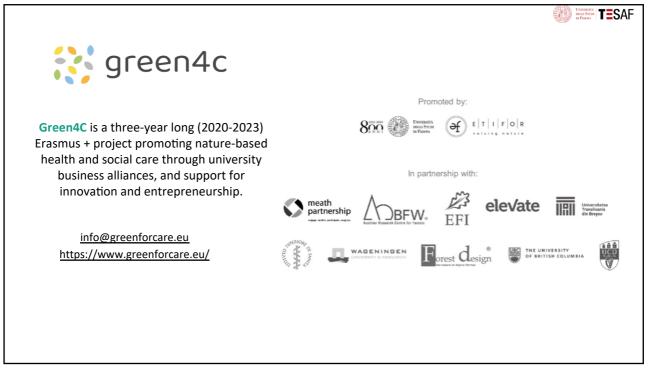


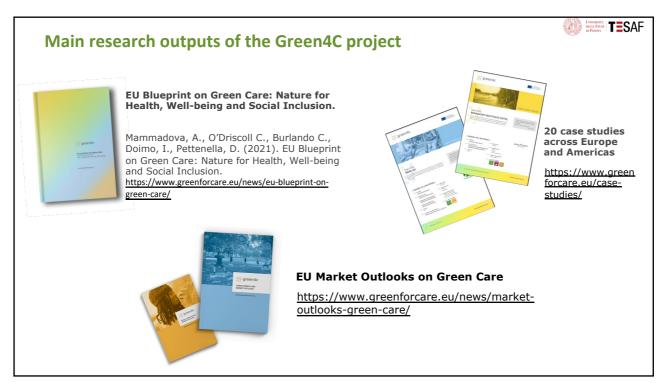


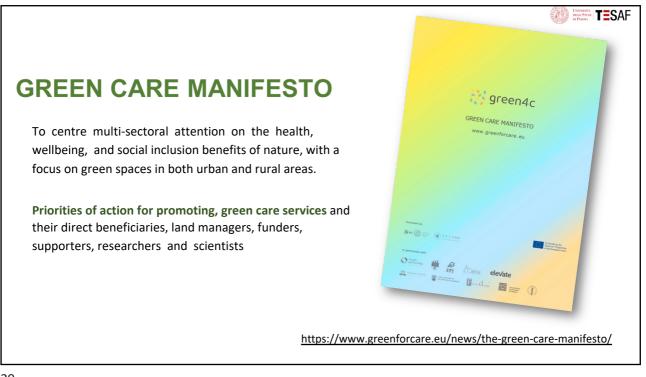


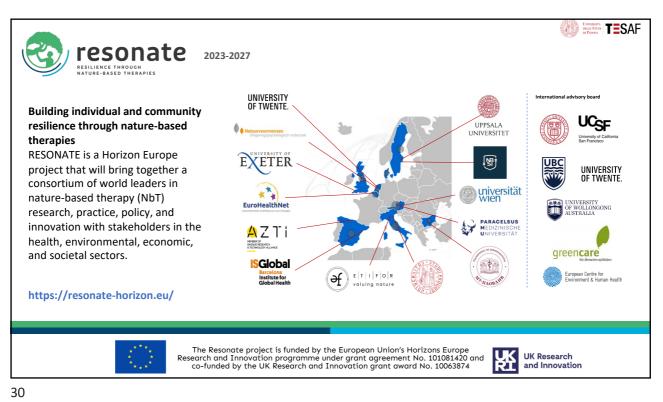






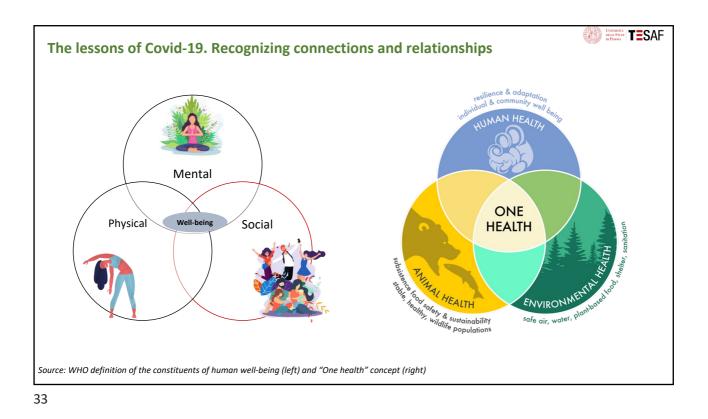






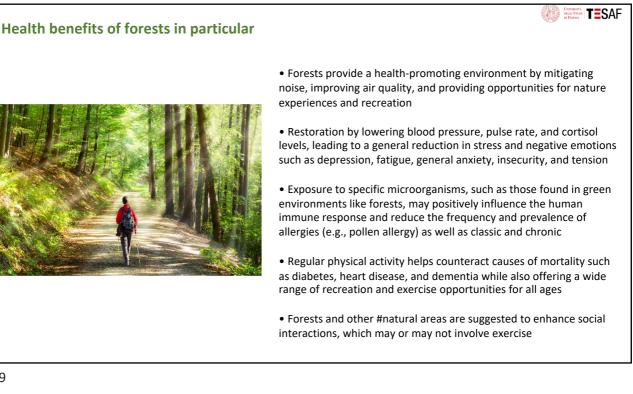
Expected Outcomes Sharper view of green space management, nature protection, agriculture and	
forestry sectors as care providers and their possible linkages with the healthcare, social and educational sectors;	
Stronger evidence base for the <b>causal relationships between nature and</b> <b>health</b> and well-being for more effective nature therapy prescriptions;	Padova
Cost-effective <b>nature therapy prescriptions</b> are more widely used in the health care sector;	From 9 Case Studies to 3 Social Innovation Action "Nature-based Resilience
Greater <b>citizen and policy-maker awareness</b> of the positive benefits of nature for health and well-being;	Hubs" to demonstrate best practice cross- sectoral collaboration
Wider utilization by healthcare professionals and citizens of nature therapy as a form of <b>preventive medicine</b> .	and market potential.

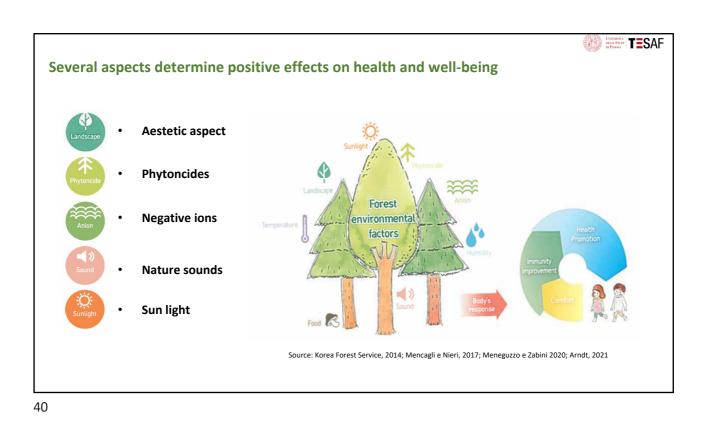


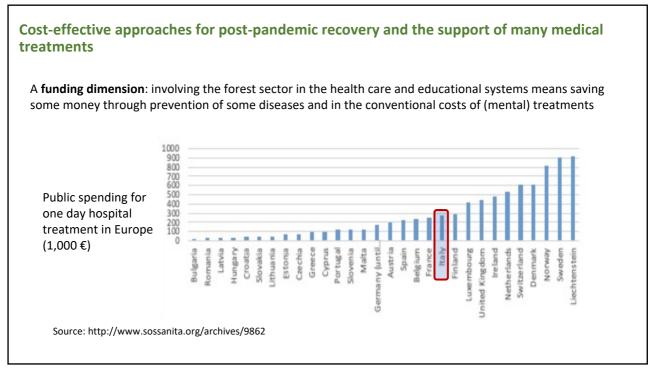




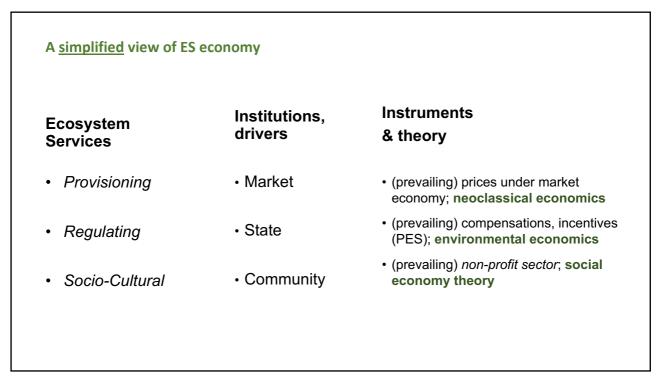
## New: Nature-based Biopsychosocial Resilience Theory (NBRT) Nature-based biopsychosocial resilience theory' (NBRT) framework suggests that individual-level resilience can refer to both: a) a person's set of adaptive *resources*; and b) the *processes* by which these resources are deployed. These biopsychosocial resilience resources can: i) reduce the risk of various stressors (*preventive resilience*); ii) enhance adaptive reactions to stressful circumstances (*response resilience*), and/or iii) facilitate more rapid and/or complete recovery from stress (*recovery resilience*). Source: White et al. 2023 (consortium partners of the RESONATE Horizon Europe project)

















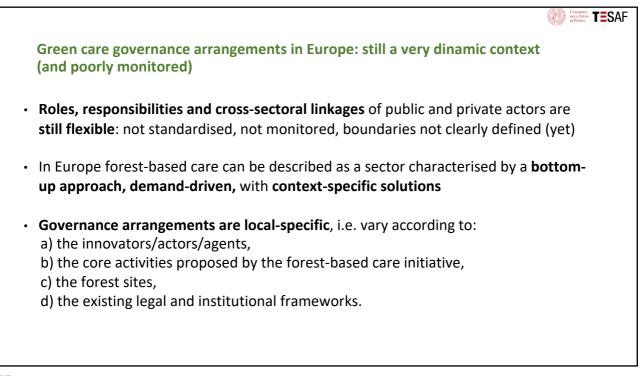
#### The impacts of a new focus on socio-cultural services

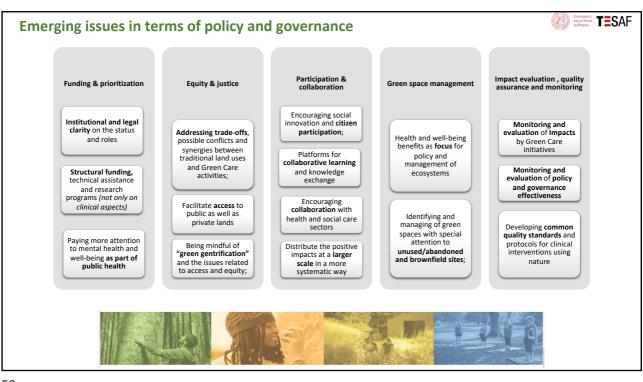
"The first and foremost purpose of a forest growth is to supply us with wood material; it is the substance of the trees itself, not their fruits, their beauty, their shade, their shelter, that constitutes the primary object..."

B.E. Fernow, 1902. Economics of Forestry (p. 86)

A gender revolution in the forestry sector









### Bibliography Arias-Arévalo, P., Gómez-Baggethun, E., Martín-López, B., & Pérez-Rincón, M. (2018). Widening the evaluative space for ecosystem services: a taxonomy of plural values and valuation methods. Environmental Values, 27(1), 29-53. Arts, B., & Buizer, M. (2009). Forests, discourses, institutions: A discursive-institutional analysis of global forest governance. Forest policy and economics, 11(5-6), 340-347. Arts, B. (2021). Forest Governance: Hydra or Chloris?. Cambridge University Press. Chan KM, Balvanera P, Benessaiah K, Chapman M, Díaz S, Gómez-Baggethun E, Gould R, Hannahs N, Jax K, Klain S, Luck GW. Opinion: Why protect nature? Rethinking values and the environment. Proceedings of the national academy of sciences. 2016 Feb 9;113(6):1462-5. Comberti, C., Thornton, T. F., de Echeverria, V. W., & Patterson, T. (2015). Ecosystem services or services to ecosystems? Valuing cultivation and reciprocal relationships between humans and ecosystems. Global Environmental Change, 34, 247-262. Doimo, I., Masiero, M. and Gatto, P. (2020). Forest and well-being: Bridging medical and forest research for effective forest-based initiatives. Forests, 11(8), 791. https://doi.org/10.3390/f11080791 Doimo, I., Wasiero, M. and Gatto, P. (2021). Disentangling the Diversity of Forest Care Initiatives: A Novel Research Framework Applied to the Italian Context. Sustainability, 13, 492. https://doi.org/10.3390/ su13020492 Kahn Jr, P. H. (1997). Developmental psychology and the biophilia hypothesis: Children's affiliation with nature. Developmental review, 17(1), 1-61. Kaplan, R. and Kaplan, S. (1989). The experience of nature: A psychological perspective. Cambridge University Press. Ulrich, R. S., Simons, R. F., Losito, B. D., Fiorito, E., Miles, M. A. and Zelson, M. (1991). Stress recovery during exposure to natural and urban environments. Journal of Environmental Psychology, 11(3), 20– -230 TEFFIT A synergistic network between Forestry Doctors, Universities and Associations https://www.teffit.it/ Forest Therapy Station in Valli del Natisone – Friuli Venezia Giulia https://www.spiaggiadiffusa.it/stazione-di-terapia-forestale-valli-del-natisone/ Ivy Tour Travel agency and tour operator in Basilicata Specialized in Forest therapy and Forest-bathing https://www.ivytour.it/chi-siamo/ White, M.P., Hartig, T., Martin, L., Pahl, S., van den Berg, A.E., Wells, N.M., Costongs, C., Dzhambov, A.M., Elliott, L.R., Godfrey, A. and Hartl, A., 2023. Nature-based biopsychosocial resilience: An integrative theoretical framework for research on nature and health. Environment International, p.108234. Pascual, U., Balvanera, P. and Christie, M., 2023. Editorial overview: Leveraging the multiple values of nature for transformative change to just and sustainable futures—Insights from the IPBES values assessment. Current Opinion in Environmental Sustainability, 64, p.101359.

