

Case studies and articles touching on the implications of natural, social, and human capital on the six key areas of discussion at the UNEA-6 North American Consultation.

1. Critical minerals in decarbonization
 - [Canada's Critical Mineral Strategy](#)
 - [Social Capital and Energy Transition: A Conceptual Review](#)
2. Adaptation & emergency measures
 - Climate change risks, water stress and the continuous degradation of the Aral Sea have made the agriculture sector in the Aral Sea region the most sensitive and vulnerable among all economic sectors. Consequently, the implementation of adaptation measures has become highly relevant in mitigating the adverse effects of temperature increases, water stress, and the increased frequency and severity of salt and dust storms, while simultaneously securing economic growth, food security, and environmental sustainability. [...] To bridge the conventional division between food production and sustainable resource management, the 3Returns Framework and the Nature-Based Solutions Framework for Agricultural Landscapes have been used for concluding and recommending a combined implementation of infrastructure adaptation measures for government's adaptation plans and development partners' interventions in the region. <https://www.greengrowthknowledge.org/research/green-recovery-investment-analysis-climate-resilient-agriculture-republic-karakalpakstan>
 - [More related case studies](#)
3. Centering Indigenous peoples for restoring biodiversity
 - Two documents providing background on the establishment of a new, unique land-use agreement covering 22,000 hectares of temperate forest near Vancouver, Canada.

Both files shared from personal dropbox:

- [Globe and Mail article](#): An urban First Nation reclaims stewardship over vast rainforest on Metro Vancouver's doorstep
 - [TWN xʔə́ilwətaʔ Indian River Watershed Integrated Stewardship Plan 2022](#)
 - [Government Dialogue Best Practice: Brazilian Assessment of Ecosystem Services to Inform Indigenous Communities](#)
4. Water for humans and ecosystems
 - Yorkshire Water have produced a report that presents the impacts on the six capitals (financial, manufactured, natural, human, intellectual, social) of the financial year 2021-2022. Yorkshire Water carries out this reporting annually by completing a capitals assessment. The purpose of the report is to measure the companies progress towards achieving their purpose of making Yorkshire a brilliant place to be – now and always. It highlights both the positive and negative impacts of the companies activities and enables them to communicate these impacts to their stakeholders. <https://www.yorkshirewater.com/media/udajx4fd/ocy22-report-final.pdf>



- The Swedish capital Stockholm is internationally well-known for its waters, and the City of Stockholm's Environment and Health Administration wanted to understand the economic value of achieving good water quality in all inland waters in the city, as defined by the EU Water Framework Directive. The client was also interested in the relationship between the costs of necessary measures to reach good water quality, and the resulting benefits.
https://anthesisgroup.com/case_study/city-of-stockholm-inland-waters-valuation/
 - [More related case studies](#)
5. Chronic & acute air pollution
- Transtejo's objective was to measure and value the negative impacts of their air pollution and use the results to identify measures to reduce carbon emissions. From the assessment they found that in 2015 greenhouse gas impacts from company activity imposed a health cost of €973,868 to society. Non-greenhouse emissions were found to increase by around 2.6% each year between 2013 and 2015. A 5% increase in mortality from respiratory diseases in nearby towns in the same time periods also found – although a cause and effect between these cannot be made and is likely to be far more complex, it led Transtejo to address their practices.
<https://gulbenkian.pt/publication/desafio-protocolo-do-capital-natural-transtejo/>
6. Fertilizers and phosphorus runoff
- Assessing risks, opportunities and impacts on stakeholders: [APEAM](#) (Scroll to section)