Sustainable Tourism Beyond BAU (Brundtland as Usual): Shifting From Paradoxical to Relational Thinking?

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THE SUSTAINABILITY OF TOURISM

Tourism is a major economic activity and employment generator. According to the World Travel Tourism Council (2021), prior to the COVID-19 pandemic travel and tourism was an eight trillion-dollar industry that generated about 10 percent of the global GDP in 2019. Although global tourism was greatly affected by the COVID-19 pandemic, the loss of national and regional income as a result of the pandemic related mobility restrictions and resultant job loss, arguably have almost had a paradoxical effect in that tourism and hospitality has achieved greater public policy recognition because the impacts of COVID-19 have demonstrated just how economically important the tourism sector is.

Recognition of tourism is not just isolated to tourism destinations or to major urban tourism centers and transport hubs. The decline in international and domestic tourism has also had significant impacts for conservation because it affected the availability of funds available for a wide range of nature-based tourism and heritage conservation related activities, especially in protected areas (Spenceley et al., 2021). For example, the World Travel Tourism Council (2019) estimate that, in Africa over a third of all direct tourism GDP could be attributed to wildlife, while globally, 21.8 million jobs were directly and indirectly supported by wildlife tourism. These figures reflect the estimates of Balmford et al. (2015) that protected areas receive eight billion (8 × 10^9) visits per year, of which more than 80% are in Europe and North America, and generating US$600 billion a year in direct in-country expenditure and US$250 billion a year in consumer surplus. Nevertheless, as they noted, such expenditure dwarfs the investment of governments into protected area and biodiversity conservation.

As Spenceley et al. (2021, p. 113) observe, “the COVID-19 pandemic has revealed how dependent some conservation areas and many local communities are on tourism, and also the physical and mental health benefits of nature for visitors. But it has also shown how vulnerable tourism is to forces beyond its control.” The vulnerability of tourism is also related to factors it has contributed too IPCC (2022a). For example, while tourism clearly benefits from protected and natural areas (Spenceley et al., 2017), it has also contributed to their loss, whether directly through tourism related development leading to habitat loss and land-use change, or more indirectly through the introduction of alien species, cumulative change, and its contribution to climate change.

Tourism is a major industrial contributor to climate change. Although international tourism bodies have long claimed a contribution of the order of approximately 5.5%, excluding radiative forcing (Scott et al., 2016), the life cycle analysis of Lenzen et al. (2018) showed that from 2008 to 2013, the global carbon footprint of tourism increased from 3.9 to 4.5 GtCO₂e, representing 8% of global greenhouse gas emissions and contributed largely through transport
emissions, food consumption and waste, and tourist shopping. The Sixth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC, 2021, 2022a,b) highlights the existential challenge that climate changes poses for many species, ecosystems and cultures. It is now “unequivocal that human influence has warmed the atmosphere, ocean, and land. Widespread and rapid changes in the atmosphere, ocean, cryosphere, and biosphere have occurred” (IPCC, 2021).

As well as substantially contributing to climate change, tourism is also greatly affected in terms of resource loss, e.g., snow availability for winter and alpine tourism or coral bleaching for marine tourism; sea level rise for beach tourism; increased temperatures; and biodiversity loss and landscape change (IPCC, 2021). Significantly, the effects of climate change do not occur in isolation and need to be understood within the context of the interdependence of climate, ecosystems and biodiversity, and human societies, including the economy (IPCC, 2022a). For example, the fifth Global Biodiversity Outlook concluded, “Biodiversity is declining at an unprecedented rate, and the pressures driving this decline are intensifying. None of the Aichi Biodiversity Targets will be fully met, in turn threatening the achievement of the Sustainable Development Goals and undermining efforts to address climate change” (Secretariat of the Convention on Biological Diversity, 2020, p. 2). This therefore creates a major challenge for tourism with respect to how it mitigates its impacts. For example, the IPCC (2022b), observed, “mitigation of aviation to ‘net zero’ levels, as required in 1.5°C emission scenarios, requires fundamental shifts in technology, fuel types, or changes of behavior or demand,” But then goes on to note, “the literature does not support the idea that there are large improvements to be made in the energy efficiency of aviation that keep pace with the projected growth in air transport.” Therefore, to what extent is the tourism industry, which has long been built on growth (Hall, 2022), willing to accept changes in behavior and/or demand to meet its emissions reduction goals?

THE PARADOXES OF TOURISM

It has long been recognized that tourism is full of many paradoxes (Dann, 2017; Milano and Koen, 2022). It offers wealth and income but often relies on low paid labor to remain competitive. It promises authentic experiences but these become commoditised (Dann, 2017). It pays for conservation yet simultaneously leads to cultural and landscape change and contributes to ecosystem loss (Hall, 2010; Holden, 2015). And for the tourist it promises escape and freedom, but in the end it remains part of and contributes to what people are often wanting to escape from (Hall, 2022). Fundamentally, the desire for wellbeing and hedonistic joy simultaneously contributes to accelerating undesirable global environmental change, of which climate is only one dimension (Gren and Höckert, 2021). As Dann (2017) suggests, such notions of paradox are important as, although seemingly self-contradictory, they contain a possible truth or insight that needs to be carefully revealed and further explored.

Arguably, the various paradoxes provide the central focus for trying to make tourism sustainable. One of the main ways this has
been done, and the dominant interpretation, promoted strongly by the UNWTO, government and industry, has been with respect to finding “balance” between the supposed three pillars of tourism (economy, society, environment) (Mbaiwa and Stronza, 2009; UNWTO, 2015; Hall, 2019). However, such an approach, while perhaps intuitively appealing, has not made tourism more sustainable in global terms, and does not adequately recognize the importance of planetary boundaries with respect to how economy and society are ultimately constrained by the Earth’s natural resources (Higham and Miller, 2018). Therefore, if the sustainability and tourism relationship is to be made effective it is crucial that there are shifts not only with respect to how tourism operates but also how it is conceptualized, studied, and the results of research communicated.

SHIFTING THINKING

As noted above, paradoxes are useful tools to encourage exploration because of the insights they reveal. However, a key part of such paradoxes is that they emphasize the relationality between things, whether they be concepts, agency and structure, or between the different elements of the tourism system. The importance of systems thinking has long been noted in tourism
### TABLE 1 | Key questions and issues at different scales of sustainable tourism analysis.

| Scale of tourism panarchy | Some key questions and issues |
|---------------------------|------------------------------|
| **Planetary bio-physical system and boundaries** | How should sustainable tourism be best conceptualized from various normative perspectives? How is sustainable tourism paradigm change achieved? What is the relationship between the nature of the political-economic system and sustainability? |
| **Socio-economic-political system and socio-technical institutions** | What role do socio-technical institutions play in trajectories of tourism development and sustainable tourism transitions? How can non-Western and indigenous worldviews be better incorporated into understandings of sustainable tourism? How is social, economic, and environmental justice and ethics best related to sustainable tourism? What is the relationship between the nature of the political-economic system and sustainability? |
| **Tourism system** | How can the tourism system be best designed for sustainability and how can this be implemented? What are the relationships between structure and agency within the tourism system? How can the core metric and underlying driver of the tourism system be shifted from growth to sustainable development and/or degrowth? What are the relationships between structure and agency within the tourism system? |
| **International and supranational political and governance institutions and structures** | What modes of governance are most effective for sustainable tourism at the international and supranational scale? What impact do the UNWTO and WTTC have on sustainable tourism trajectories? How can international conventions and laws be made more effective to enable sustainable tourism? |
| **Nations** | How do we close the sustainable tourism policy-action gap? How does sustainable tourism policy learning occur? What modes of governance are most effective for sustainable tourism? What are the main policy drivers to engage in sustainable tourism? |
| **Regions (Destination, transit, generating, competing)** | What are the connections between sustainability behaviors when traveling and at home? How can tourism be better integrated into socio-economic development practice? What are the relationships between smart tourism destinations and sustainable destinations? |
| **Destination** | What is the role of place and placelessness in sustainable tourism? What modes of destination governance are most effective for sustainable tourism? What sustainable tourism metrics should be used at destination level? How can tourism supply chains be made more sustainable? How can destination marketing and promotion contribute to greater sustainability? |
| **Community** | What are the implications of multiple community membership for norm based influences on sustainable behavior? How does membership of online communities influence offline sustainable behavior? How can community-based behavioral interventions best encourage sustainable tourism? What are the relationships between individual and community sustainable tourism practices? |
| **Business and organizations** | What is the organizational basis of sustainable tourism? How can CSR and triple-bottom line practices better contribute to regional and global sustainability? How can companies be encouraged to adopt consistent sustainable reporting practices and indicators? What are the most effective modes of sustainable tourism knowledge transfer? How is business and organizational birth, death, and survival linked to sustainable tourism? What are the interrelationships between shareholder, stakeholder, and planetary responsibilities for business and how can this be better leveraged for sustainable tourism? |
| **Family and social groups** | How can the role of family and social groups be better incorporated into research on sustainable tourism decision-making and practices? What role does cultural and social norms have on sustainable tourism practices? To what extent are sustainable tourism practices linked inter-generationally? |
| **Individuals** | Can we develop an effective theory of tourism related behavior? (whether as tourist or resident or regardless of role) How can the attitude-behavior gap be closed? How do we come to better understand and influence consumption habits? |
but it’s often descriptive use has hidden much of its explanatory and analytical potential. Moreover, even though the notion of a tourism system (Figure 1), which emphasizes the connectedness between tourism generating regions and destinations, the flow of people over space and time, and de facto the changes in psychology as a result of such connectedness and flow, the vast majority of tourism research only provides unconnected snapshots of moments in the various relations within the tourism system. As important as it is, much of the destination-based research that dominates in tourism, together with market assessments of actual or potential tourists tends to occur in relative isolation (Park et al., 2016). There is little longitudinal research over time (Saéþórsdóttir and Hall, 2020), the prevalence of one-shot studies means we do not really know how sustainable behaviors and behavioral interventions actually are. Despite the notion of a tourism system being frequently cited in research and referred to in lectures and textbooks understanding is actually highly fragmentary and relations between elements often poorly understood, with subsequent implications for shifting it to a more sustainable state. This is the grand challenge that research on tourism faces.

A key element in working toward sustainable tourism is not only understanding the tourism system as the relationship between tourist generating areas and destinations and the consequent implications, but also realizing that the tourism system also occurs at multiple embedded scales. The emergence of resilience as a key issue in tourism highlights the importance of panarchical structures and the capacity for emergence and change and the potential consequences of a shift in the state of one scale to have implications both up and down the tourism panarchy (Hall et al., 2017; Lew and Cheer, 2017; Figure 2). From a relational perspective such understandings are incredibly important as they highlight the connectedness of the various elements of the tourism system, the relationship between structure and agency, as well as the multilayered and complex nature of destinations (Paasi and Zimmerbauer, 2016).

Within the panarchy of tourism key issues and questions arise at each scale (Table 1), with the results of research at each scale having potentially profound issues up and down the various scales. Importantly, it needs to be recognized that the sustainability of a region may lie outside of tourism, with much depending on how sustainable tourism is actually understood, i.e., is it tourism for sustainability or the sustainability of tourism? At the macro scale research is needed on the adequacy of existing paradigms and models of sustainability and sustainable tourism. Sustainable tourism along with sustainable development is a highly contested concept (Saarinen, 2006, 2015; Bramwell et al., 2017) and raises the adequacy of existing definitions and approaches, including the oft-quoted standard Brundtland definition of sustainability: “development that meets the needs of the present without compromising the ability of future generations to meet their own needs” (World Commission on Environment and Development, 1987, p. 43). Or is there a need to move beyond BAU: “Brundtland as usual” (Hall et al., 2021), in considering sustainable tourism? This may also include developing a greater understanding of and connection with non-Western worldviews and especially those of indigenous peoples.

At the other end of the tourism panarchy there is an immense need to better understand sustainability behaviors and the attitude-behavior gap (Juvan and Dolnicar, 2014; Han, 2021), especially with respect to the undertaking of different practices by the same people in different parts of the system (Barr et al., 2010; Xu et al., 2020), as well as differences by gender, culture and other socio-demographic factors. Such understandings may clearly contribute to the development of more effective behavioral interventions. However, also of importance is to realize that the research conducted at the microscale is also connected to macro level of questions of how sustainability and sustainable tourism is understood, as the macro level conceptualisations frame how questions of sustainability are conceptualized and potentially even asked, i.e., the GIGO principle (Garbage in, Garbage out) (Conlon, 1999; Saltelli, 2002). As Émile August Chartier stated, “Nothing is so dangerous than an idea, when you only have one idea” (quoted in Conlon, 1999, p. 117).

COMMUNICATING SUSTAINABLE TOURISM

The early twenty-first century has undoubtedly witnessed a revolution in the way that information and knowledge is conveyed, and its implications of academic research and knowledge transfer. Frontiers in Sustainable Tourism is an example of such a shift that is geared toward open access (OA) publishing. Undoubtedly, there is opposition to such publishing modes, not least because of issues of where the costs of publishing are located and the capacity to cover such costs. However, OA publishing and greater emphases on knowledge transfer is clearly favored by many governments as they seek to generate improved economic and practical returns from academic research. Potentially there are also other advantages as OA publishing provides opportunities for other voices and places to become part of the global discussion of ideas surrounding sustainability. It is therefore in this space that Frontiers in Sustainable Tourism will operate, complementing existing more traditional journals and publishing outlets, with an explicitly integrated OA framework that connects sustainable tourism research to a range of other disciplines and to the different elements and scales of the tourism system. Research in sustainable tourism needs a range of ideas, openness, and transparency, as it seeks to influence and transfer knowledge to stakeholders and provide a new trajectory for tourism development, behaviors and practices. Sustainable tourism is both a destination and a process and we need a full range of contributions as we seek to make tourism more sustainable in what is probably the most important journey that any of us will face in our lifetimes.

AUTHOR CONTRIBUTIONS

The author confirms being the sole contributor of this work and has approved it for publication.
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