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(Un)Sustainability and Organization Studies: Towards a Radical Engagement

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	from realist to relational view, 3) changing the way we design and conduct research from discipline-focused to interdisciplinary knowledge, and 4) transforming our scholarly stance from value-neutral to engaged scholarship. We argue that these shifts have capacities to overcome the conceptual limitations of the business case, and more fundamentally, help us question our scholarly positioning to the ongoing socio-ecological crises.

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**(Un)Sustainability and Organization Studies:
Towards a Radical Engagement**

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(Un)Sustainability and Organization Studies: Towards a Radical Engagement

Abstract:

In this essay, we trace the evolution of the field of sustainability in management and organization studies and narrate its epistemological twists and turns. Concerned by the current trajectory that tends to diminish a focus on political concerns, we propose a new research agenda, *ecological case for business*, that transforms our paradigmatic orientation in four shifts: 1) altering our epistemological lenses from managerial to critical perspectives, 2) altering our ontological lenses from realist to relational view, 3) changing the way we design and conduct research from discipline-focused to interdisciplinary knowledge, and 4) transforming our scholarly stance from value-neutral to engaged scholarship. We argue that these shifts have capacities to overcome the conceptual limitations of the business case, and more fundamentally, help us question our scholarly positioning to the ongoing socio-ecological crises.

Key words:

Sustainability, Anthropocene, Epistemology, Ontology, Interdisciplinarity, Engaged scholarship

(Un)Sustainability and Organization Studies: Towards a Radical Engagement

“We have become, by the power of a glorious evolutionary accident called intelligence, the stewards of life's continuity on earth. We did not ask for this role, but we cannot abjure it. We may not be suited to it, but here we are.” (Gould, 1985, p. 431)

As Gould makes clear, humanity is facing a new ecological responsibility for which it is unfamiliar and unprepared. Climate change, species extinction, and ocean acidification are just some of the markers of what scientists call the Anthropocene, a geological period characterized by a dominant human influence on the functioning of the ecosystem. At the same time, it is important to problematize who the “we” are because the dangerous ecological conditions we *all* face today are the product of particular political and economic policies and practices aimed at exploiting nature for the benefit of *a few*. The Anthropocene is not a story of unintended consequences but is a direct result of a political economy that privileges wealth accumulation at the expense of environmental destruction. In fact, some have proposed that the term “Anthropocene” should be replaced by the term “Capitalocene” (Moore, 2016) or “Econocene” (Norgaard, 2013) to indicate the almost divine status of markets, and “Technocene” (Hornborg, 2015) or “Plutocene” (Glikson, 2017) to represent the gross inequalities in material consumption and greenhouse gas emissions.

Unfortunately, our prevalent discourses and practices around sustainability carry such political and economic premises, and they limit our abilities to think and act outside of existing approaches. As scholars researching and teaching sustainability related phenomena in business schools, we are disturbed by the dominant business case orientation of our scholarship on environmental and social issues. In this essay, we aim to unsettle the field’s direction¹ and argue

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3 for its paradigmatic transformation to foster a radical scholarship that can enable a more
4 meaningful engagement with the ongoing socio-ecological devastation.
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8 Acknowledging the importance of corporate practices on the stability of our natural
9 environment, there has been a potent effort to examine how business organizations impact the
10 natural world through a research domain called “business and the natural environment”, which
11 started in the early 1990s. With its subsequent reorientation around “business sustainability” in
12 the 2000s, the corporate influence on the social world has been added to the research effort.
13
14 However, despite its growing success in gaining legitimacy, its analytic approaches are not
15 equipped to handle the grand challenges of the Anthropocene, which are fundamentally about
16 survival of human and nonhuman life on Earth and preventing socio-economic inequalities.
17
18 While seeking ways to “green” or make organizations “sustainable”, the field has failed to pay
19 attention to the root issues that produce our present crises. The existing literature has focused
20 predominately on incremental change without problematizing its political-economic premises,²
21 yet the problems of the Anthropocene requires transformational change at the systemic level that
22 re-considers how humans relate to the natural world and how wealth is distributed among diverse
23 populations.
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27 In this paper, we make this case, explaining why this may be so and how we might
28 redirect the field’s emphasis to focus more directly on the root of the sustainability challenge. To
29 do that, we first offer a brief history of sustainability and the natural environment in organization
30 studies, covering its origins in the 1990s, its evolution into sustainability in 2000s and its present
31 state. Further, we discuss the two epistemologies that marked the field’s origins – critical and
32 managerial – and show how the managerial view took precedence by gaining legitimacy within
33 the political institutions of academia.³ As concerned scholars of organization studies, we argue
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3 that we must re-consider our intellectual approaches and propose a new research agenda, one that
4 foregrounds the *political* and that has capacities to engage with our ongoing socio-ecological
5 collapse. Specifically, we call for four fundamental shifts that act as political interventions to
6 transform the prevailing business case orientation and to prompt research for an *ecological case*
7 *for business*. These shifts are: (1) from managerial to critical epistemologies, (2) from realist to
8 relational ontologies, (3) from discipline-focused to interdisciplinary collaborations with natural
9 sciences, and (4) from value-neutral stance to engaged scholarship. We close our essay with a
10 challenge for scholars – to redirect one’s field of inquiry towards addressing the systemic causes
11 of our environmental problems even if that means moving in a direction that is contrary to the
12 political, economic and academic institutions in which we reside.
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28 **A brief history of (un)sustainability in organization studies**

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31 While some studies on the natural environment in management can be traced back to the
32 beginning of the modern environmental movement in the 1970s (i.e., Gladwin & Welles, 1976),
33 the topic did not become an object of significant research interest until the early-1990s with the
34 first efforts to build a research community among management scholars (e.g., the Greening of
35 Industry Network in 1989 and the Organizations and the Natural Environment special interest
36 group of the Academy of Management in 1994, later to become a division in 2007) and the
37 creation of academic journals dedicated to the interface between managerial action and
38 environmental protection (e.g., *Organization & Environment* which was created in 1987 from its
39 predecessor *Industrial Crisis Quarterly*, and *Business Strategy & the Environment* in 1991.⁴
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3 *The original agenda of organizations and the natural environment research*
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5 Much of the early work on organizations and the natural environment was fragmented
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7 and diverse, driven by scholars who were concerned about environmental dangers like the
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9 Bhopal disaster in 1984, the discovery of the Ozone Hole in 1985, and the Exxon Valdez oil spill
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11 in 1989. Given the rising concerns about corporate complicity in environmental harm, the topic
12
13 could no longer be considered outside the realm of management research but compelled a shift in
14
15 corporate posture from a reactive to a more proactive approach to environmental issues in the
16
17 1990s. Driving forces for this shift included enhanced corporate reputation, lower compliance
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19 costs and stronger competitive advantage in markets in the US and globally (Banerjee, 2001;
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21 Hoffman, 2001; Schmidheiny, 1992). While the natural environment became a focus of business
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23 research in 1990s (Hoffman & Bansal, 2012), it remained on the fringes of management and
24
25 organizational scholarship (Ehrenfeld & Hoffman, 2013) with a focus on “greening
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27 organizations” (Shrivastava & Hart, 1994) to study the intersection of managerial and
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29 environmental concerns. As the field began to develop, research took two epistemological
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31 perspectives: critical and managerial.
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37 *Critical epistemological research.* This stream offered a critique of corporations’ role in
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39 environmental degradation (Gladwin, Kennelly, & Krause, 1995; Stead & Stead, 1994; Welford,
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41 1997). Paralleling developments in environmental sociology, this work viewed environmental
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43 pollution as a negative consequence of the dominant economic paradigm and called for a
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45 fundamental restructuring of economic and political systems (Schnaiberg, 1980). Building on the
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47 “new ecological paradigm” (Catton and Dunlap, 1980), Gladwin and his colleagues proposed
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49 that “modern management theory is constricted by a fractured epistemology, which separates
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51 humanity from nature and truth from morality” and concluded with the provocation that
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3 management theory should act “as if sustainability, extended community, and our Academy
4 mattered” (Gladwin et al., 1995, p. 874).
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8 Other early critical works argued that the dominant economic focus of management and
9 organizational research prevented genuine engagement with ecological issues because the
10 managerial and human-centered premises underlying organization theory and strategic
11 management tended to rely on a profit motive that prioritized the interests of shareholders and
12 managers (Shrivastava, 1994), perpetuated endless consumption-based economic growth (Purser,
13 Park, & Montuori, 1995), created asymmetrical wealth distribution in societies (Levy, 1997) and
14 focused primarily on the needs of consumers and corporations from the Global North while
15 denying the interests of marginalized populations (Banerjee, 2003). The central theme of this
16 critical stream was that environmental issues were inseparable from political corporate interests
17 and addressing them required challenging the political-economic premises of existing
18 management frameworks.
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33 *Managerial epistemological research.* This second stream integrated environmental
34 concerns into existing theoretical frames of economic performance and profit maximization that
35 the critical research found problematic. In this way, environmental issues became “strategic” in
36 that they were related to corporate resources and capabilities, competitive advantage,
37 organizational performance, stakeholder pressures, and institutional legitimacy (Buysse &
38 Verbeke, 2003; Russo & Fouts, 1997).
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47 A defining characteristic of the managerial research was its focus on corporate
48 environmental strategies as a solution to environmental problems (Forbes & Jermier, 2010). This
49 research emphasized win-win market-based solutions where firms could reduce costs through
50 energy efficiency, waste reduction and recycling initiatives or increase profits through a
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3 premium pricing strategy for green products. Focused on variants of the question, “Does it pay to
4 be green?” this work sought to merge the drive for competitiveness with the demand for
5 environmental protection as a means to gain economic advantage (Schmidheiny, 1992).
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11 12 *Emergence of “sustainability” and mainstreaming of environmental research* 13

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15 As the field continued to grow through the 1990s and 2000s, the managerial and critical
16 streams both forwarded an imaginary of *ecologically sustainable organizations* and aimed to
17 transform the dominant models of management and organization research. However, they were
18 coming from different intellectual backgrounds, thus suggested different approaches to achieve
19 sustainability. While the managerial works sought to integrate environmental issues into
20 conventional corporate imperatives of profit maximization, the critical accounts acknowledged
21 that economic activity was embedded in a larger network of political systems which privileged
22 profitability over ecological sustainability.
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34 Over the years the managerial perspective became the dominant paradigm, and in the
35 mid-2000s, the terms “sustainable development” (Brundtland Commission, 1987) and “corporate
36 sustainability” began to gain currency in redefining the field. Informed by the values of liberal
37 humanism and Western environmentalism, this redefinition drew attention to fundamental social
38 concerns including poverty, inequality, health and food insecurity in addition to the prior
39 portfolio of environmental concerns upon which the field had devoted its attention. Corporate
40 sustainability became the defining marker of the field to describe “the inclusion of social and
41 environmental concerns in business operations and in interactions with stakeholders” (van
42 Marrewijk & Werre, 2003, p. 107). However, this new conception reinforced the managerial
43 priorities that privileged economic growth, and suggested that sustainability could be achieved
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3 by corporate strategies and “sustainable” or “green” growth (Banerjee, 2011). More recent
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5 accounts have proposed “sustainable business models” that integrate stakeholder interests into
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7 value creation (Schaltegger et al., 2016). While this research seeks to facilitate radical
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9 transformation, it elides the contradictions between creating economic value for the firm and
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11 preventing unsustainable levels of resource extraction, material consumption, and asymmetrical
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13 wealth distribution at a systemic level.
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17 As research on corporate sustainability became increasingly aligned with the dominant
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19 economic approach of the broader management field in the 2000s, environmental issues began to
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21 gain institutional legitimacy as a distinct area of management scholarship, one in which scholars
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23 could offer courses, publish in top-tier academic journals, secure tenure-track jobs and fill
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25 chaired professorships (Ehrenfeld & Hoffman, 2013). Today, in business schools, most deans are
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27 supportive of sustainability curriculums under the umbrella of “responsible management
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29 education” (Forray & Leigh, 2012), and a significant number of management courses include at
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31 least some coverage of corporate sustainability.
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38 *Discrepancy between managerial research and socio-ecological system needs*

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40 While research on corporate sustainability continues to proliferate, two worrying trends
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42 have emerged. One is the limits of corporate sustainability in addressing the root causes of the
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44 problems we face. For many, it has become nothing more than a label for actions or strategies
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46 that are actually driven by conventional economic principles of competitiveness and profitability
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48 (Jacobs, 1993). And while this dilution of the concept continues, the environmental and social
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50 problems that it is designed to address have worsened on a global scale. Climate change and the
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52 attendant emergence of the Anthropocene (IPCC, 2019) coupled with growing income inequality
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3 (Stiglitz, Fitoussi, & Durand, 2019) are two over-riding systemic problems that are reaching
4 epidemic proportions which the current dominant political- economy seems unable to address.
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6 The designer label of corporate sustainability proposes industry-focused technological fixes that
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8 do not respond to socio-ecological system needs (Dyllick & Hockerts, 2002; Whiteman, Perego,
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10 & Walker, 2013). Recycling, waste disposal, and energy efficiency only reduce unsustainability
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12 to a limited extent as they do not take into consideration ecosystem cycles and nature's
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14 regeneration capacity as well as negative impacts on disadvantaged populations.⁵
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19 The systemic problems of climate change require more radical approaches, as the
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21 managerial approach will only slow the velocity at which we are heading towards a system
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23 collapse but will not change the trajectory of that inevitability (Ehrenfeld & Hoffman, 2013).
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25 Mitigating harms and doing less bad will not be enough as these approaches still rely on the
26
27 industrialized production and consumption towards the impossible goal of unlimited economic
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29 growth. While there are recent calls for moving beyond such a prevailing orientation (Bansal,
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31 2019; Hahn, Figge, Aragón-Correa, & Sharma, 2017), the analytical tools of corporate
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33 sustainability reinforce the managerial view and do not capture the contradictions of market-
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35 based ideals and socio-ecological wellbeing, and therefore reproduce the illusion that we can
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37 pursue unlimited economic growth while managing the natural environment and creating
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39 equitable societies.
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44 At this critical juncture, the field of business sustainability must reengage with radical
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46 approaches that explore the systemic basis of our sustainability challenges. The Anthropocene is
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48 not simply an environmental problem to be managed; rather it points to systemic breakdowns.
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50 Human systems are now dominating natural systems with disastrous effects as sea-level rise,
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52 ocean acidification, and species extinction make clear. At the same time, economic and political
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3 systems have become skewed towards the interests of the elites, to the exclusion of those who
4 suffer its pernicious effects (Gilens & Page, 2014). Solving these issues requires deeper
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6 questions about power relations, “Who gets to set the rules? What values should they reflect?
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8 What’s fair? What do we owe to one another?—and reshape our society accordingly” (Stiglitz,
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13 quoted in Kehoe, 2016).

14 15 16 17 18 **Climate change and the Anthropocene: The move towards radical approaches**

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21 Scientists have set a boundary limit for atmospheric CO₂ at 350 ppm to maintain a stable
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23 environment and we are now over 400 ppm and climbing (NOAA, 2020). These elevated
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25 concentrations are increasing the frequency and intensity of wildfires, droughts, hurricanes,
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27 temperature fluctuations, sea-level rise and more. But climate change is one marker of a more
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29 expansive systemic shift that scientists believe represents a new geologic epoch. Scientists have
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31 proposed that we have left the Holocene and entered the Anthropocene - the Age of Humans - to
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33 note the dominating influence that the world’s 7.5 billion people (10 billion by 2050), are having
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35 on the planet (Crutzen & Stoermer, 2000; Zalasiewicz et al., 2016). To empirically describe this
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37 shift, scientists have identified nine “planetary boundaries,” (Rockström et al., 2009) which
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39 represent “thresholds below which humanity can safely operate and beyond which the stability of
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41 planetary-scale systems cannot be relied upon” (Gillings & Hagan-Lawson, 2014, p. 2). Nine
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43 interrelated dimensions have identified: climate change, ocean acidification, ozone depletion,
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45 atmospheric aerosol loading, phosphorous and nitrogen cycles, global freshwater use, land
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47 system change, loss of biodiversity and chemical pollution. Four have already been exceeded:
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49 climate change, biodiversity loss, land system change, and the biogeochemical flows. And one is
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51 on the mend: ozone depletion (Steffen et al., 2015). More recently, scientists are considering a
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3 “Hothouse Earth” scenario when ecological changes create self-reinforcing effects that may
4 intensify the disruption at a much faster rate than current prediction (Steffen et al., 2018). As
5 these markers make clear, the Anthropocene is not an environmental problem like those we have
6 faced in the past. It is a systemic failure of our dominant political-economy which maintains the
7 conditions for unlimited raw material extraction, energy use, material consumption and waste
8 releases in a continuous pursuit of profits and economic growth.
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These dangerously unsettling realities make clear that 30 years of research on corporate sustainability has had only modest impact on shifting the course of society’s damage to the natural and social worlds. While academic studies are not designed to provide direct contributions to practice, there is a growing pressure for scholars to provide useful analytic tools that could help students and future decision-makers organize sustainable socio-ecosystems. The rising tide of research produced by the dominant management paradigm on “whether it pays to be green” does not lift all boats but instead drowns all alternatives by reinforcing the very managerial priorities that created the environmental and social problems in the first place. As such, the solutions it proposes will be unable to achieve the ends it seeks.

The field’s present course, which promotes incremental change without questioning the political-economic system that is responsible for the current crisis, cannot lead to novel conceptualizations necessary to create sustainable organization-environment relations. It is time to move beyond the narrow focus on the business case and alter the field’s orientation towards new ways of organizing around systems thinking (Whiteman et al., 2013), sufficiency and de-growth (Banerjee, Jermier, Peredo, Perey, & Reichel, 2019). To facilitate this change, we propose a new agenda that is equipped to handle current alarming ecological and social conditions.⁶

Towards an *ecological case for business in the Anthropocene*

To capture the full scope of the Anthropocene, we argue for a radical agenda that takes us beyond traditional theories, models and frameworks and that problematizes the foundational principles of our current political economy. What if we were to take *socio-ecological wellbeing* as our central focus, and make an *ecological case for business*, instead of the business case for sustainability?⁷ Flipping the words is not a linguistic sleight of hand but requires a paradigmatic transformation of our intellectual field. Fundamentally, it compels the foregrounding of the *political* in our scholarly endeavors and the justification of organizations' existence based on socio-ecological needs instead of economic growth aspirations. To facilitate such transformation in management and organization studies (MOS), we propose four shifts that can act as political interventions and initiate productive conversations for future research. While all four shifts are necessary and ought to be pursued in tandem in order to fully embrace the ecological case, they are neither an exhaustive list nor a finished template. Rather, these shifts are a few important initial steps that will dislocate the naturalized business case orientation and foster research for socio-ecological wellbeing.

From managerial to critical epistemologies

Drawing on insights from early accounts of critical epistemologies, the first shift we propose is from managerial interests to vital concerns that have become marginalized in business sustainability research (Ergene, Calás, & Smircich, 2018; Wright, Nyberg, Rickards, & Freund, 2018). Broadly, this would entail transforming our analytic attention to matters that are fundamental to ecological wellbeing and environmental justice, in order to create alternative

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3 forms of organizing that channel efforts for building livable ecologies for all in the
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5 Anthropocene. (See Table 1).
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12 Addressing environmental and social problems in the Anthropocene requires the
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14 acknowledgment that our current political economy, which is based on consumption-based
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16 economic growth, competitive relations, shareholder wealth and exploitation of nature, privileges
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18 wealth accumulation at the expense of environmental destruction and social equity. Ultimately,
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20 the Anthropocene is a result of an economic capture of nature and represents a story of
21
22 domination. To recover what has been lost, political struggles for environmental justice must be
23
24 central to our inquiries. In this regard, the analytic tools of critical management studies are
25
26 helpful for articulating different forms of domination and exploitation and problematizing those
27
28 premises (Adler, Forbes, & Willmott, 2007). There are various intellectual traditions, each
29
30 emphasizing different modes of power, such as capitalist, colonial, patriarchal, discursive, and
31
32 others. A critical research agenda aims to transform existing power relations and to envision new
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34 possibilities of organizing economies and societies (Zanoni, Contu, Healy, & Mir, 2017).
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40 While we suggest ecological and social concerns as a focus for future research, we are
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42 not proposing to reject the study of corporations and industry altogether. On the contrary, we
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44 think that management and organization studies are well-positioned to pay close attention to the
45
46 negative consequences of industrial production and consumption. Studies from within
47
48 organizations can help us critically analyze sustainability solutions forwarded by the industry and
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50 identify their limits in order to incorporate those insights for formulating viable alternatives.⁸
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53 Instead of asking “whether it pays to be green,” future research from critical epistemologies
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would ask whether the proposed green solutions are sufficient to create livable human-Earth ecologies where access to clean water and air, and arable land are available for all populations regardless of wealth and other social disparities.

From realist to relational ontologies

The Anthropocene makes visible the ecological destruction of our human-centered lifestyles and industrialized consumption habits. Earlier accounts had suggested that the main premise of industrialism and much of our consumption-based living rely on a conceptual separation of humans from the rest of nature and the positioning of our species as the controller of nature (Purser et al., 1995; Shrivastava, 1994). Overcoming such an anthropocentric basis of our theories requires new analytic capabilities that can bring focus to planetary-scale human-Earth relations. To foster research that begins from the socio-ecological needs and to facilitate theorizing novel ways of relating to nature, our second proposal is an ontological shift towards a *relational view* of the world (e.g., Bergson, 1907; Deleuze & Guattari, 1987; Whitehead, 1929).

(See Table 2)

 Insert Table 2

Relational ontologies conceive the world as made up of complex and contingent webs of entanglements, and the analytic focus is on unfolding practices through which these relations are produced (Helin, Hernes, Hjorth, & Holt, 2014). This view does not discern human and nonhuman entities in describing or explaining phenomena; rather it is the relations of humans and nonhumans (e.g., animals, plants, rocks, nitrogen, carbon, etc.) that co-constitute the world. Thus, relational ontologies allow us to theorize nature as a political subject, challenging the long-

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3 standing liberal humanist dichotomy of nature and culture (Kalonaityte, 2018). Relational
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5 philosophy also converses with various strands of environmental ethics. For instance, Deleuze
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7 and Guattari’s “ecosophical subject” (Shaw, 2015), Whitehead’s “ethics of creativity” (Henning,
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9 2005), and Bergson’s “creative evolution” (Simonetti, 2019) contribute to contemporary
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11 environmental thought, and provide foundations for conceptualizing different human-Earth
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13 relations (e.g., Gibson-Graham & Roelvink, 2010; Tsing, 2015).
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17 While the language of relational philosophy may appear abstract, there are clear
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19 examples that illustrate the politics and value of processual thinking for sustainability research
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21 (e.g., Heikkurinen et al., 2019; Newton, 2002). For example, Beacham (2018) brought attention
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23 to the shifting biogeochemical flows in soil due to heavy use of chemical fertilizers in
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25 industrialized agriculture. By unpacking the entanglements of human and material elements
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27 within the everyday practices of community supported agriculture, he illustrated that it is
28
29 possible to develop a more-than-human ethics of care in growing food if we avoid imposing
30
31 human timescales over nature’s temporality. As this example shows, relational ontologies offer
32
33 analytic capabilities to unentangle planetary-scale socio-ecological dynamics within practices
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35 and guide us to imagine human-Earth relations that respect nature’s temporality and regeneration
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37 capacity.
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44 *From discipline-focused to interdisciplinary collaborations with the natural sciences*

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47 Current ecological conditions have produced irreversible changes for life on earth, with
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49 many species facing extinction due to unprecedented rapid changes in life-supporting
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51 ecosystems. At the same time, access to clean water and arable soil for crop growth are major
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53 concerns affecting many communities. These extraordinary challenges require us to learn the
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3 nature-human ecosystem functioning and ground MOS research on the interdependency of
4 ecological and sociocultural systems. In this purpose, our third proposal calls for a shift from
5 discipline-focused to *interdisciplinary collaborative research with the natural sciences* (see
6 Table 3).
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13 Insert Table 3
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17 We are not alone nor the first ones to propose this shift. There have been several accounts
18 that called for a deeper engagement with the earth sciences and “infuse management theory with
19 biophysical foundations” (Starik & Kanashiro, 2013, p. 14). Scholars have introduced key
20 concepts from the field of ecology (Winn & Pogutz, 2013), called attention to planetary
21 boundaries in management research (Whiteman et al., 2013), proposed developing “climate
22 social science” (Skoglund, 2015), and argued for a science-based approach that focuses attention
23 on dangerous changes in the Arctic (Whiteman & Yumashev, 2018).
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33 However, there are several institutional and political impediments that need to be
34 recognized. Most fundamentally, the ontological and epistemological differences between the
35 assumptions underlying natural and social sciences create political tensions for which questions
36 to ask and how we study them. At most universities, social scientists are seen as “supporting”
37 faculty rather than the core, and face legitimacy challenges in interdisciplinary projects. Also, the
38 evaluation parameters for tenure and promotion are narrowly based on contribution to
39 disciplinary literatures, penalizing early career scholars who are willing to pursue
40 interdisciplinary projects that require much more effort to coordinate and translate different
41 forms of knowledge across disciplines (Felt, Igelsböck, Schikowitz, & Völker, 2016).
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3 Despite these challenges, exemplary projects show how such efforts can succeed (e.g.,
4 Tsing, Swanson, Gan, & Bubandt, 2017). We are seeing more calls for interdisciplinary
5 knowledge production in journals to bridge ecological knowledge with organization studies
6 (Wasioleski, Waddock, Fort, Costa, & Metz, 2017). While we join these calls, we do not mean to
7 cast a role for ourselves as “managers of the technoscientific solutions”. On the contrary, we call
8 on MOS to demonstrate climate science literacy and join interdisciplinary project teams as
9 critical thinkers who would bring focus to the diverse interests and priorities, most importantly,
10 of immediate community and disadvantaged groups. At the same time, due to the above
11 mentioned challenges, such research must be reflexive and acknowledge the political processes
12 involved in conducting interdisciplinary research with natural sciences.
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28 *From value-neutral stance to engaged scholarship*
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31 Early research on environmental issues reflected personal concerns of scholars who
32 explicitly acknowledged that the natural environment was a “value-laden topic” (Gladwin et al.,
33 1995, p. 878). While such questioning guided the initial orientation of the early works, the field
34 has evolved within the prevalent positivist paradigm that encouraged conducting research from a
35 disinterested stance. Unfortunately, such an arms-length approach limited passionate scholarship,
36 which could help overcome the preoccupation with making the business case for sustainability.
37 The Anthropocene conditions through which we currently live are undeniably material and are
38 not captured by existing MOS theories. To shift our attention to these concrete conditions and
39 begin research from within them, our fourth proposal is to reject the notion of a value-neutral
40 science and embrace *engaged scholarship* in our academic endeavors (See Table 4).
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55 Insert Table 4
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7 The expectation for dispassionate research is rooted in the principle of objectivity in
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9 positivism (Jones & Bartunek, 2019). The disciplinary foundations of management knowledge
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11 were established within a positivist approach in order to claim rigor and achieve institutional
12
13 legitimacy for the business school in the broader academy (Khurana, 2007). As in the natural
14
15 sciences, business schools demanded replicable research that is conducted by inquirers who are
16
17 “unbiased” and capable of producing “objective” knowledge that would preclude any personal
18
19 values to influence research findings.
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23 The value-free versus value-laden debate has a long history in social theory (Weber,
24
25 1949). While some argue that social theory is based on scientific facts that are independent of
26
27 values (Campbell, 2014), others suggest that it is impossible to conduct value-neutral social
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29 science research (Gouldner, 1962). Although most journals in MOS favor value-free knowledge,
30
31 there are calls for “engaged scholarship” that disrupts the narrative of a detached observer.
32
33 Engaged scholarship begins with the assumption that “no form of inquiry is value-free and
34
35 impartial” (Van de Ven, 2007, p.14), and is based on a relationship where researchers and
36
37 participants co-produce knowledge about common concerns.
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41 Taking a step further, other scholars have called for praxis interventions by academics to
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43 facilitate social change. For instance, Contu (2018) argues for reframing academic praxis
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45 towards an “intellectual activism”, which is about making a stand and becoming accountable for
46
47 putting our work in the service of social justice. According to Contu, intellectual activism not
48
49 only involves researching marginalized concerns but also requires aligning teaching, service and
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51 leadership with social justice aims. In climate change debates, Rhodes, Wright, and Pullen
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53 (2018) suggest different modes of academic activism that can contribute to political
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3 transformation, such as media engagement, political campaigning, advising non-academics, and
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5 engaging in activist research. Other scholars argue for collaborating with influential decision-
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7 makers, policy-makers, activists, think tanks, and NGOs to make interventions on the ground
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9 (Fleming & Banerjee, 2016; Hoffman, 2016; Whiteman & Yumashev, 2018). In short, these
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11 accounts call for re-thinking our scholarly position and role in society.
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15 However, the institutionalized norms of the academia create disincentives for this
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17 transition. Evaluation norms and practices that prioritize “A” publications discourage engaged
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19 and activist oriented scholarship. Tenure and promotion are more influenced by journal impact
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21 factors than contributions to socio-ecological welfare in communities. But, to study an issue that
22
23 is inflicting untold harm on present and future populations and nonhuman life forms without any
24
25 concern for the implications of our work denies our humanity as scholars. Instead, management
26
27 scholarship must develop a “political-academic” orientation that transforms our scholarly
28
29 identity to becoming “politically engaged scholars” (Esper, Cabantous, Barin-Cruz, & Gond,
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31 2017, p. 681). Making ecological wellbeing and social justice the guiding compass of our field,
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33 we call for building broader connections in society that contribute to creating alternative modes
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35 of researching, organizing, and living as academic activists.
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43 **Final notes on survival...**

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46 “If our species does not survive the ecological crisis, it will probably be due to our failure to
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48 imagine and work out new ways to live with the earth, to rework ourselves and our high energy,
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50 high-consumption, and hyper-instrumental societies adaptively. [...] We will go onwards in a
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52 different mode of humanity, or not at all.”
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55 (Plumwood, 2007, p. 1)
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3 If our species is indeed worth saving, then the fundamental challenge of management and
4 organization studies today is to delink our intellectual foundations from the hegemony of
5 corporate thought. It is absurd that we continue to prioritize the financial bottom line when the
6 very practices that contribute to it, such as the endless pursuit of economic growth, fueled by
7 relentless resource extraction and mindless consumption, threaten the survival of the planet.
8 Corporate capitalism, even with its much touted green credentials cannot deliver a sustainable
9 and livable world. Demoting the centrality of the business case in our schools, our scholarship,
10 and our society is another grand challenge as the spread of corporate values has been all-
11 encompassing. Yet, as management scholars concerned about environmental and social
12 catastrophe, it is our responsibility to contribute to those efforts which challenge “the conceptual
13 blockages that keep our minds closed to options for change” (Plumwood, 2007, p.1).
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28 Transitioning to a new research agenda based on the *ecological case for business* requires
29 learning to observe in new ways and asking different questions that facilitate imagining and
30 creating new ways of living, going beyond market-based interests and anthropocentric concerns.
31 It requires a deep look into our contribution as a field and learning to collaborate across
32 disciplines and stakeholders to address the actual matters of concerns of our worlds. To facilitate
33 such transition and create dialogue, in Table 5, we outline some broad research questions and
34 action items.
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50 The challenge of sustainability is not just economic, social, and environmental - it is
51 fundamentally political in nature. It is our hope that the shifts we propose in this essay will
52 facilitate developing a radical scholarship that is informed by new ways of relating to the natural
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3 world. Otherwise, we will run the risk of becoming the only species on the planet that is
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5 sufficiently intelligent to recognize our own imminent demise but too foolish to prevent it.
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11 Notes

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14 ¹ Emerging conversations that stand against the business case exist (e.g., sufficiency, de-growth,
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16 and alternative organizing (Banerjee et al., 2019; Ergene et al., 2018; Wright et al., 2018)), but
17
18 mainly outside of mainstream journals.
19

20
21 ² Except some exemplary studies that do not adopt a managerial approach (e.g., Beacham, 2018;
22
23 Wright & Nyberg, 2017; Zietsma & Lawrence, 2010).
24

25
26 ³ We rely on Burrell & Morgan's (1979) description that epistemological assumptions are “about
27
28 the grounds of knowledge [...]. These assumptions entail ideas, for example, about what forms
29
30 of knowledge can be obtained, and how one can sort out what is to be regarded as 'true' from
31
32 what is to be regarded as 'false' ” (p.1).
33

34
35 ⁴ Here we do not intend to offer a review of the literature. In this essay, our goal is to take
36
37 attention to the field’s paradigmatic evolution and provoke scholars about the limitations of
38
39 existing conceptual approaches for research in the Anthropocene. For recent systematic reviews,
40
41 please see Bansal & Song, 2017; Hahn et al., 2017.
42

43
44 ⁵ Dyllick and Hockerts (2002) critiqued firms’ sole focus on eco-efficiency and suggested six
45
46 criteria that must satisfied to claim sustainability: eco-effectiveness, socio-effectiveness, eco-
47
48 efficiency, socio-efficiency, sufficiency, and ecological equity.
49

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51 ⁶ While Millennium Development Goals Report (2015) presents improvements in social and
52
53 environmental markers, the conditions are still worsening at an alarming level (see e.g., UN
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55 World Social Report (2020) and WWF Living Planet Report (2018)).
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⁷ Previous research raised similar questions, such as “How can business make an effective contribution to addressing the sustainability challenges we are facing?” (Dyllick & Muff, 2016, p.156).

⁸ For instance, Wright and Nyberg (2017) identified limitations of market responses, by studying the processes through which corporations’ ambitious goals deteriorate over time.

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Table 1. From managerial to critical epistemologies.

	Managerial Epistemology	Critical Epistemologies
Focus	Corporate interests: While environmental and social issues are important, firms must focus on their profitability and shareholder wealth to be able to address those issues.	Ecological wellbeing, local communities, environmental justice: Access to clean water and air, nutrition, and land regardless of wealth and other social disparities among populations.
Conception of the natural environment	Nature is understood as a resource to be carefully managed and used for economic growth and business profitability.	Nature has its own intrinsic value regardless of how humans value nature. Managing the natural environment is a modernistic ambition that aims to control nature. This is the core premise that created the Anthropocene and its devastating conditions. These ambitions perpetuate anthropocentrism in the name of sustainability.
Conception of the ecological crisis	Environmental crisis is an issue to be managed, and corporations are the main source of environmental solutions.	Ecological crisis is inseparable from political-economy. Anthropocene signal the limits of economic growth and endless production and consumption.
Imaginary	Corporate sustainability: We can address the crisis by market-based solutions, such as industry self-regulation and clean technology.	We need to create alternative forms of organizing that channel efforts for restoring and creating livable ecologies for all.

Table 2. From realist to relational ontologies.

	Realist Ontology	Relational Ontologies
World-view	The world is made of stable cause-and-effect relationships and objective facts, which are independent of context and observer.	The world is in a continual state of flux and becoming. Entanglements of humans and nonhumans co-create the world and the conditions in which we live.
Conception of the natural environment	Humans and the natural environment are separate entities.	There is no conceptual separation between humans and the natural environment; humans are part of nature.
Conception of the ecological crisis	Realist thinking observes ecological issues and societal concerns as belonging to distinct domains. While ecological issues are about the natural environment, societal concerns are related to human problems.	Relational view conceives environmental problems as product of human and nonhuman entanglements. From this view, it is not possible to detach environmental issues from societal concerns. Thus, ecological crisis is a web of co-constituted multiple issues that are produced within and through human and nonhuman practices.
Imaginary	Linear approach that isolates environmental problems to be solved by organizations.	Relational approach that requires interventions to be formulated within network of relations of corporations, regulators, civil society, and nonhumans. At its core, relational approach facilitates imagining different human-Earth relations for a more-than-human world.

Table 3. From discipline-focused to interdisciplinary research.

	Discipline-focused Research	Interdisciplinary Collaborative Research
Purpose of research	To contribute to management knowledge by publishing in high-impact and area specific journals.	To develop climate science literacy and in-depth understanding of emerging Anthropocene problems. To bring attention to diverse interests and priorities, particularly those of disadvantaged populations.
Focus of research	The focus is on organizational phenomena that take <i>humans</i> and their institutions and practices as the center of analysis.	The focus is on <i>nature-human</i> ecosystem functioning, and interdependency of ecological and socio-cultural systems.

Table 4. From value-neutral stance to engaged scholarship.

	Value-neutral Stance	Engaged Scholarship
Conception of a scholar	The scholar is an expert of knowledge. S/he is an "objective" observer of the empirical world.	The scholar is a participant of the world. Researcher's personal interests and concerns inform the questions s/he asks and the approaches s/he employs to gather and analyze data.
Task of a scholar	The scholar is guided by the existing theoretical puzzles in the literature. Accordingly, the scholar's task is to conduct "objective" research that would fill the theoretical gap in the literature.	The scholar is committed to improving ecological and social conditions. Thus, the task of a scholar is to facilitate social change by aligning research, teaching and service activities with social and environmental justice and ecological wellbeing.

Table 5. Developing Research Projects for the Anthropocene.

	Critical Epistemologies	Relational Ontologies	Interdisciplinary Research	Engaged Scholarship
Challenges	Critical view requires questioning the very assumptions underlying managerial approach. Yet it is difficult doing so while management research and education is committed to managerial priorities and corporate interests.	Relational view has not been a well-established philosophical position in MOS. To work from this view, learning new vocabularies to account for relationalities and nonhumans in research is necessary.	There are ontological and epistemological differences between natural and social sciences, and such distinctions create incompatibilities in research questions asked and methods employed. Institutional norms prioritize disciplinary research in performance evaluations.	Dominant positivist tradition seeks research that is conducted through objective and disinterested stance. Tenure and promotion criteria are based on journal impact factors rather than contribution to socio-ecological change in communities.
Broad RQs	What imaginaries do existing sustainability solutions forward? How do they transform exploitative power relations, be it capitalist, patriarchal, colonial and others? Are they sufficient to address unequal effects of the Anthropocene conditions on already disadvantaged populations?	What does management and organization studies look like, as we challenge the conceptual separation of humans and nonhumans? Who/what is the subject/object of management and organization studies? What different human-Earth relations can emerge as we challenge humans' superiority to the rest of nature?	What issues do natural scientists prioritize, and how can these priorities be translated and studied in management and organization studies? How do natural scientists approach common Anthropocene problems such as biodiversity loss, food insecurity, lack of access to clean water, plastics pollution?	How do we establish connections and gain trust of various stakeholders? How do policy-makers, NGOs, and civil society make decisions for common concerns and public interests?
What's next?	Critically analyze existing market solutions from the perspectives of non-corporate constituents, including nonhumans. Study diverse forms of organizing to draw insights into conceptualizing viable alternatives to current dominant forms.	Learn to observe relationalities, assemblages and entanglements, and design research studies that focus analytic attention on the agencies of webs of relations of humans and nonhumans.	Articulate and develop a repertoire of practices and processes in collaborating with natural scientists. Create a common language across disciplinary boundaries.	Learn to see practitioners as collaborators and research partners who pursue mutual interests and concerns with the researcher. Reflect on the roles of academics as one transforms into a "politically engaged scholar".