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Transitioning towards a sustainable food city

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Transitioning towards a sustainable food city

Introduction

The role of universities in contributing to sustainable development is now well documented (Leal Filho, 2012; Shiel *et al*, 2018; Stahlbrand, 2016) with the suggestion that higher education should be addressing sustainability on campus, in the curriculum, across operations, and in the community. Regarding the latter, it is suggested that universities have an important role to play in influencing community stakeholders and working collaboratively to build capacity (Shiel *et al*, 2016). While there are substantial publications related to the educative agenda and campus greening, there are far fewer examples related to capacity building and partnerships for sustainability in the community. This paper aims to contribute further by illustrating how one institution, Bournemouth University (BU), has engaged as a partner in the establishment of the Bournemouth and Poole Sustainable Food City Partnership (BPSFCP) to influence change. Bournemouth and Poole became one of the first of six cities in the UK, funded under the national Sustainable Food Cities Network, in 2013 (Sustainable Food Cities 2018) with BU as a partner.

As the collaboration involves multiple stakeholders, early research initiatives sought to ensure that their perspectives informed the establishment of the Partnership but also the direction of travel. It was apparent from the outset, that while stakeholders had many ideas about sustainable food, there was no single view of what needed to be prioritised; achieving a sustainable food city would be an impossible goal in the constraints of the project but beginning a transition towards sustainable local food was achievable. A participative approach, with the university helping to gather data, was thus vital in the early stages, further, it has also contributed to enabling the Partnership itself to make a transition, ensuring financial sustainability and continuity beyond initial funding.

The literature considers the role of a university in building capacity within the community, sustainable food, and sustainability transitions, including the role of agency. This paper will describe the research approaches that informed the early stages of collaboration: this involved a survey to elicit stakeholders' understanding of sustainable local food, in order to create a shared agenda and inform future strategic direction; and workshops, where paired discussions, and generation of pictorial outputs helped inform the future vision, mission, aims and values of the Partnership. The paper ends with reflections on the nature of the university's role in capacity building. Insights are provided as to the implications and limitations of the Partnership in enabling a transition towards more sustainable consumption.

Literature

It is commonly accepted that universities should address sustainable development through research, education, in their operations and in the community, with an extensive supporting literature (Velazquez *et al*, 2004; Leal Filho, 2010; Sterling *et al*, 2013) that details the breadth of what is involved. In supporting a transition towards sustainable development, many higher education institutions have adopted approaches like the 'Four C' model (Jones

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3 *et al*, 2010), where Campus, Curriculum, Community and Culture represent areas where
4 sustainability needs to be addressed, preferably as part of a holistic approach.
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7 As early as 1999, capacity building was identified by the Association of University Leaders
8 for a Sustainable Future (USLF) as one of several areas where universities should be engaged
9 in addressing sustainable development (ULSF, 1999 in van Weenen, 2000). Later, Velazquez
10 *et al* (2004) synthesised the suggestions from ULSF into four strategic themes where
11 universities should advance sustainability: education, research, outreach/community and in
12 campus operations. However, while debates about education for sustainable development
13 have occupied the literature, there continues to be a paucity of studies concerning university
14 engagement in building capacity for sustainable development at the local level, or which have
15 involved communities (Leal Filho, 2010).
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20 There has been substantial progress regarding sustainability research, campus greening, and
21 education for sustainable development despite barriers, however it is suggested that capacity
22 building within communities (through external facing projects) has lagged other areas of
23 engagement (Shiel *et al*, 2016). Innovations have been largely in relation to campus greening
24 but lacking elsewhere (Ávila *et al*. 2017). With respect to community engagement, many
25 universities lack a vision for innovation, most have ignored fostering effective relationships
26 with community partners and higher education institutions are missing opportunities to
27 engage with sustainable development fully and in innovative ways (Ávila *et al*, 2017).
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32 Turning now to the literature on sustainable food, it is apparent it lacks a legal definition
33 (Sustain 2019); however, there is recognition that it should reflect economic, environmental,
34 health, and social concerns (Kindling Trust 2019). Within its production, processing,
35 distribution and disposal it should contribute to local economies, protect the diversity of
36 plants and animal welfare, avoid waste and contributing to climate change and provide social
37 benefits such as healthy products and educational opportunities. (Sustain 2019). This will
38 include embracing short supply chains.
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42 One of many areas where universities can build capacity at a local level is in relation to
43 sustainable food. Food and drink are essential for life and directly impact on health and well-
44 being (Whatmore, 2002); food consumption and production are important for sustainable
45 development. However, food distribution across the world is uneven: not everyone enjoys
46 sufficient food, let alone sustainable healthy food and there are several anomalies. In the UK,
47 for example, obesity has become a public concern, while demand for food banks and food
48 poverty has increased (Loopstra & Lalor, 2017). In the Global South, while some countries
49 are affluent and produce plenty, continued food crises in others, mean that many starve
50 (Oxfam, 2018). Further, given climate change, there is greater awareness that the production
51 and consumption of food has shifted in the last 20 years to become the single human activity
52 with the most significant impact on the environment (Smil, 2000). The number of food scares
53 has risen since the turn of the century (Knowles *et al*, 2007) and there is controversy in
54 relation to food additives, chemicals used in food production, genetic engineering and organic
55 growing (Lockie, 2006), with many of the issues featured and exacerbated by the media. In
56 this context, research on food (food security, food poverty, food production) has expanded
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3 over the last decade, in parallel calls have increased to encourage the development of
4 sustainable food systems that ensure food is sustainably produced, food waste reduced, and
5 the effects of an increasing population on the planet minimised (Defra, 2013; Lorenz &
6 Veenhoff, 2013; Lubin & Esty, 2010). Earlier, Aiking and de Boer (2004) attempted to
7 summarise some of the issues, suggesting that the topic of food sustainability is complex,
8 involving many aspects and diverging interpretations. In brief, they identified a need for
9 change, and greater transparency in governance.
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13 The call for change has also been writ large and taken forward at the global policy context,
14 where it is impossible to ignore that millions are undernourished (Food and Agriculture
15 Organization of the United Nations, 2014) and where solutions to eradicate hunger and
16 achieve food security are seriously compounded by climate change, population growth,
17 migration and rapid urbanisation (UN, 2016). Globally, the central concern of eliminating
18 food poverty, ensuring food security and access to nutritious food is now a critical aspect of
19 the Sustainable Development Goals (SDG), articulated in SDG Goal 2 which aims to “End
20 hunger, achieve food security and improved nutrition and promote sustainable agriculture”
21 through sustainable solutions including sustainable food production systems (UN, 2016). All
22 signatories to the SDG Accord will work towards achieving the SDGs but, each SDG will
23 require actions at the local level if the overarching ambition is to be achieved.
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29 Despite the ambitious SDG goals, it should be recognised that the barriers to creating local
30 sustainable food solutions are significant. These include: powerful food retailers controlling
31 producers, stifling the opportunity for change; lack of funding with future uncertainties; those
32 from lower socio-economic backgrounds lack knowledge and have limited resources with
33 which to buy seasonal, healthy food and universities and schools typically are straight-
34 jacketed with their curriculums, preventing the opportunity to focus on wider world issues
35 such as climate change and sustainable healthy food choices (University of Strathclyde
36 2017).
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40 Nonetheless in relation to food, a sustainable food and drink system needs to balance
41 economic, social and environmental goals, deliver social benefits at the local level, while also
42 protecting an increasingly fragile environment (Marsden & Morley, 2014). A transition
43 towards local food solutions is a worthy consideration, and when replicated across
44 communities, can potentially impact social, economic and environmental change. Local food
45 systems are defined as “a method of food production and distribution that is geographically
46 localized, rather than national and/or international” (Grace Communications Foundation,
47 2018). Along with locally sourced, locally produced, and organic food networks they have
48 received interest as potential models of sustainable consumption (Watts *et al*, 2005) and may
49 be the way forward.
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54 This case study contributes to the knowledge of the early stages of sustainability transitions
55 with a local food system. Sustainability transitions are fundamental long-term shifts within an
56 established socio-technical system that encompass changes in markets and cultural discourses
57 when moving to more sustainable means of production and consumption (Geels *et al*, 2008;
58 Markard *et al*, 2012). These transitions embrace policy shifts within the governing
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3 institutions (Geels *et al*, 2008) and can affect regimes, for example the established methods of
4 food procurement and consumption resulting in behaviour change from the actors involved
5 (Spaargaren *et al*, 2012). Socio-technical systems can include housing, healthcare, water
6 supply, transportation and food and agriculture (Coenen *et al*, 2012) and the latter sector,
7 specifically food systems is of interest here.
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10 The literature identifies that there are multi-actor partnerships within the sustainable arena
11 (e.g. Oldenhuizing *et al*, 2013) with Mader *et al*, (2013) identifying ways that higher
12 education shares knowledge with regional actors. Typically, these include farmers, food
13 industry employers and employees, retailers, consumers and regulating authorities
14 (Spaargaren *et al*, 2012). The actors involved in this case study include BU, the Partnership
15 manager, local authorities and members of the BPSFCP. Transitions can result in different
16 relationships and organisation amongst actors within the food system, because of new
17 arguments and technologies to underpin new food practices, which in turn affect consumer
18 behaviour (ibid). Therefore, actors and their agency are of interest, particularly their
19 involvement devising the Partnership's strategic direction. Human agency is defined as the
20 capacity of an individual to create meaning though considered thought, reflection and action
21 from their environment (Houston, 2010). Stahlbrand (2016) argues that agency can
22 proactively promote regime change rather than adopting a supporting role and calls for
23 further research here. Moreover, Markard *et al*, (2012) identify the need for further in-depth
24 studies regarding strategic development, including the creation of new regime structures,
25 involving the strategic interactions amongst networks of actors viewed through a
26 management studies lens.
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34 In summary, the analysis of the literature calls for further understanding as to how
35 universities can build capacity for food sustainability within a local community, building
36 effective relationships with local community stakeholders. Specifically, this paper
37 investigates the strategic development that contributes towards a sustainable transition.
38 Additional reflections are offered in regard to actors and their agency, specifically those from
39 the university and local government who influence the current regime of food procurement
40 and consumption, and local governance policy.
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44 Insight into these agendas is gleaned from a university's involvement with the strategic
45 development of a sustainable food system. The research aim was to build capacity for food
46 sustainability within a local community through creating effective relationships with local
47 community stakeholders. Deploying a transparent and inclusive process involving a variety of
48 actors, the research objectives were to:
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51 RO1. To assess the current understanding of sustainable food and its context.

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53 RO2. To create a shared agenda for future development.

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55 RO3. To inform future strategic direction.

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57 RO4. To determine the Partnership vision, mission, aims and values
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Method

This paper adopts a case study approach (Yin, 2014) and represents an empirical inquiry into sustainable development progress within the BPSFCP. In developing the case study, the authors, who are participants in the Partnership, have engaged in a process of participative inquiry and practice (Reason & Bradbury, 2001). The paper represents an output from collaboration between university researchers and a practitioner (the Partnership manager). The case study includes two sub-strands of research undertaken by the Partnership. Rather than detail the method/s used in each phase here, the multi-methods adopted at each stage are explained further after the case study context is provided.

The case study context: developing the BPSFCP

BU is a UK, medium-sized, post 1992 university, with approximately 19000 students. The university is on the South Coast of England, on the boundary between the adjacent towns of Bournemouth and Poole. Engagement with the concepts of global citizenship and sustainable development began in 2005 and became a strategic concern from 2006, with the aim of adopting a holistic approach (Shiel, 2007). Sustainable development is incorporated into university strategy and policies, featured within research and the curriculum, and is central to campus operations. Developments have progressed in a similar approach to the 'Four C' model' (Jones, 2010) but have not always been successful in securing an integrative approach; the 'community' element has been somewhat ad-hoc and un-evaluated. Nevertheless, BU has made substantial progress (see Shiel *et al*, 2018) and has a reputation for being one of the UK leaders regarding the sustainable development agenda. As part of the external facing agenda, BU became a supporter in partnership with community stakeholders in submitting a successful bid to develop as a Sustainable Food City.

The national sustainable cities' programme recognised the key role of communities in contributing to sustainable development by transforming food culture and food systems. At the national level sustainability was described as the direction of travel rather than a specific destination and although they were not prescriptive, they suggested six key areas to consider at a local partnership level:

1. Promoting healthy and sustainable food to the public
2. Tackling food poverty, diet-related ill health and access to affordable healthy food
3. Building community food knowledge, skills, resources and projects
4. Promoting a vibrant and diverse sustainable UK food economy
5. Transforming catering and food procurement
6. Reducing waste and the ecological footprint of the UK food system

The BPSFCP sought to establish itself with these aims. The Partnership comprises "local people, businesses, community groups and public-sector organisations who have come together to revolutionise the way people across the region grow, buy, cook, eat, celebrate and

dispose of their food” (Bournemouth and Poole Sustainable Food City, 2018). The university’s role includes Board membership contributing knowledge including sustainability and strategic planning, together with sitting on other council committees such as Fair-Trade town, a steering group established to support Fair Trade locally. The Partnership manager is an experienced practitioner having worked with multifaceted sustainable development organisations locally and as a short supply chains expert across the EU. Other Partnership members include food security and food poverty practitioners, skills and learning advocates, local business owners, restaurateurs, hotel managers, community garden organisers as well as residents. The Partnership’s structure consists of a Board, including two university academics, representatives from both local authorities, Public Health, Transition Towns, local charities and leaders of smaller food projects. There are 450 members within the total Partnership.

Research Initiatives

In collaboration with university stakeholders, the Partnership embarked on two research initiatives, to provide a platform for subsequent activity and future direction. In line with Walker *et al.* (2004) the objectives, or purpose, and methods are explained facilitating replication for future studies. The first initiative commenced in October 2014 with objectives to assess the current understanding of sustainable local food and create a shared agenda among Partnership members, to quickly inform future direction rather than a more sophisticated approach. A survey method was employed, using rating scales, and open-ended questions which were thematically analysed. 34 members of the burgeoning Partnership responded to a Partnership newsletter request for survey respondents (7.5% response rate). They completed a written survey returning this directly to the Partnership Manager. They reported directly on their understanding of the term ‘sustainable food’, awareness of other sustainable food schemes, current awareness of sustainable food in the local area, frequency of purchase of local food items, and priorities and key issues around sustainable food. This was a small but representative sample, as respondents were typical sustainable food consumers. Appendix One provides a summary of the questions. Open ended questions’ responses were coded using a separate spreadsheet using emergent coding; the sequence in which the comments were spontaneously mentioned was considered.

Thematic analysis revealed that respondents reported that “sustainable food” was predominantly connected with “local” contrasting with research asserting that sustainable food does not have to be local and local food may not be, in all instances, sustainable (Grace Communications Foundation 2018). Other associations frequently mentioned, were environmental protection including responsibly sourced and sustainable fishing. Less frequent associations included organic, health, community, food poverty, Fairtrade, no pesticides, effective use of resources, food security, seasonality, supply chains, ability to grow, future perspective, price/cost and ethical issues.

Respondents were aware of national and international schemes rather than any local initiatives. While all the respondents had heard of Fairtrade, only 74% were aware of the Rainforest Alliance with 65% being conscious of the Marine Stewardship Council. Despite

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3 their interest in local food, local initiatives had lower awareness; Dorset Local Food and
4 Drink (59%), Real Local Flavour (41%) and Hampshire Fayre (18%) (see Table One).
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7 Table One: Scheme Awareness

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9 Respondents reported that the most frequently purchased local food and drink products were
10 locally sourced vegetables and Fairtrade products followed by locally sourced fruit, locally
11 sourced dairy products locally sourced meat, bread from a local bakery and finally locally
12 sourced drinks (see Table Two). Despite the respondents' engagement with locally sourced
13 produce, they tended to disagree that food in Bournemouth and Poole is sustainable, people in
14 the area are aware of the need for sustainable food or that it is easy to find sustainable food in
15 the local area (see Table Three).
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19 Table Two: Frequency purchase data for local food items

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21 Table Three: Sustainable food responses

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23 To help inform the Partnership's future direction, respondents were asked about the key
24 issues and priorities around the sustainable food agenda. The thematic analysis revealed that
25 they again focused on local. Education emerged as an important issue, including the need to
26 raise awareness and provide information where to find sustainable food. Other notable issues
27 included the environment, sourcing, including sustainable fishing, supply chains, availability,
28 price and affordability. Mentioned less frequently were concerns related to animal welfare,
29 health, the ability to grow food, having sufficient resources, equality including fair access to
30 sustainable food for everyone, food poverty and food waste.
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34 Respondents ranked a set of possible priorities of the Partnership on a 10- point scale (1 =
35 most important; 10 = least important (see Table Four). Top priorities are campaigning to
36 increase understanding of sustainable food within the community, and minimising food waste
37 and using food surplus more effectively. The campaigning aspect aligns with the earlier
38 requirement to educate. Then a more supply-driven focus is apparent with supporting local
39 food producers, increasing sustainable food sourcing in business, and supporting sustainable
40 food businesses. Community growing followed tackling food poverty, increasing sustainable
41 food sourcing in the public sector, teaching cookery and other food skills, and finally,
42 improving individual health and well-being.
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47 Table Four: Priorities responses

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49 When respondents gave their opinions in response to an open-ended question as to the
50 Partnership's focus for the next 3-5 years, education emerged as the predominant issue. The
51 thematic analysis revealed that other focus areas included community growing, food poverty,
52 food waste and local. The involvement of local government was raised for the first time,
53 followed by issues around sourcing, availability, accessibility, supply chains/distribution and
54 the need for appropriate business and marketing solutions. Respondents opined about what
55 was required to support the longer-term vision (ten years) to be a sustainable food city.
56 Education was highlighted again, together with business marketing solutions and business
57 support. There was a need to change perceptions and attitudes toward sustainable food,
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3 reflected in the theme 'seismic shift'. Respondent quotes evidencing this included "a
4 fundamental change in attitudes and awareness", "a change of culture through education and
5 awareness" and "a miracle". Managing sourcing and availability issues, local government
6 involvement as well as funding, were deemed important along with efficiencies in the food
7 distribution system. Finally, community growing, local and addressing food poverty were
8 considered important in becoming a sustainable food city.
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12 Many of these findings reflect those of Marsden & Morley (2014) noting a need to balance
13 social, economic, and environmental goals for a sustainable food system. Moreover, the
14 theme 'seismic shift' was identified to change attitudes and behaviour, which underpins the
15 nature of a sustainability transition. These findings recognised the requirement to support
16 local producers and businesses and to involve local government. However, these were early
17 days in seeking to influence the latter albeit Board representatives of both councils were privy
18 to these research findings. The Partnership was commencing many of their initiatives and it
19 was too early to evaluate their effects against the current regime of local food procurement
20 and consumption practices.
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25 The first initiative was mainly led by university staff and provided a better understanding of
26 participants' conceptions of sustainable food plus a foundation for future project direction.
27 However, in October 2015 it also became apparent that without a focus on the Partnership's
28 strategic development, given the finite funding and resources available, that the Partnership
29 would not survive. It needed to become independent of both councils and financially
30 sustainable.
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34 The second initiative took place in November 2015 and its objectives were to inform future
35 strategic direction and articulate a vision, mission, aims and values for the Partnership. Whilst
36 BU was instrumental in the survey design for the first initiative, on this occasion the
37 Partnership manager led the activities, with the academics adopting a more supportive role.
38 Specifically, this entailed two workshop sessions, during November 2015, involving paired
39 discussions followed by the production of pictorial outputs in slightly larger groups. A second
40 workshop with eight participants took place at the end of January 2016, completing the data
41 collection.
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46 Partnership members were invited through email and the website to participate in two
47 workshops to help determine the future vision of the Partnership. These sessions took place in
48 a local community centre, with 43 participants on 3rd November 2015. Five of the 19
49 previously surveyed members, expressing interest in inclusion for future research, attended
50 the workshops. Initially respondents were asked to work in pairs with one group of three to
51 identify what was working well and what could be improved. The answers were analysed
52 using a simple SWOT analysis which helped identify initiatives with which the respondents
53 were familiar. The results from all these discussions revealed the Partnership's progress to
54 date.
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58 Strengths revealed that professional and community groups and organisations networked well
59 together showing good private and public-sector involvement in a shared agenda. Good
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3 project management, relevant experience and knowledge evident with links created with
4 education providers (e.g. primary schools, Poole Grammar School). Fairtrade town status is
5 already achieved. Awareness of the Partnership and sustainability issues is increasing
6 amongst the public and within organisations, however generally awareness levels are low.
7 There is a need to increase awareness of successes (e.g. online Food Assembly [1],
8 community gardens [2], Sustainable Fish City [3], Zero Waste Kitchen Challenge [4]) with
9 both the public and potential new funders; a bigger membership is required with bigger
10 players (e.g. local firms). Promotion and availability of affordable local food needs to
11 increase in the area. Public education is required regarding local food production and
12 sourcing, healthy eating, cooking and food waste. Focus is required on fewer projects given
13 restricted resources and impact can be measured.

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19 There are future opportunities such working with Food Banks and roof-top gardening
20 however there are significant threats including the abundance of cheap, unnatural and fast
21 foods with an associated unhealthy culture. Little attention is paid to the environmental
22 impact of conventional food production and food miles. There is little infrastructure available
23 for sustainable food and production of economically viable sustainable food is challenging.
24 There is no agenda from government for sustainable food production/consumption and
25 farming subsidy systems are perverse.

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29 Following the paired discussions, a pictorial analysis took place where respondents were put
30 into larger groups asked to draw their vision of how they would like to see Bournemouth and
31 Poole in the future as if it was a sustainable city. An example of one picture is shown in
32 Figure One.

33 34 35 Figure One: Visioning Picture

36
37 In total nine pictures were created, and a synthesis took place of the data including words and
38 visuals. These were grouped into themes which formed the basis for vision and mission
39 development. These themes were visionary and contributed to a series of aims. Some 29
40 separate references were attributable to producing sustainable food, contributing to the theme
41 "wherever I look, food is growing". This subsequently underpinned an aim to achieve "a city
42 where food is grown and reared in public and private spaces by individuals, community
43 groups and enterprises".

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47 25 references contributed to the theme "I can always find an affordable, sustainable food
48 option" which underpinned an aim "a city where food is bought, traded and sold through
49 community enterprise and businesses using independent, new and traditional market places
50 and spaces". 14 references contributed to the theme "everyone understands the impact of their
51 food choices on themselves and the planet around me, by growing and cooking their own
52 food with little or no waste". This led to the aim to achieve "a city where everyone has food
53 skills and knowledge, feels confident in their food choices, understands sustainable food
54 issues and can access". 10 references were assigned to a local government theme "planning
55 and regulatory services are supporting me and my community to grow and food businesses to
56 flourish, and my local school and hospital have a predominantly sustainable food offering".
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3 This evolved into an aim “a city where governing bodies understand the holistic benefit of a
4 sustainable food system, regulate to support its growth and commit to procure sustainable
5 food whenever possible”.

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8 The references became fewer but those relating to the environment were captured by the aim
9 “a city where residents, especially children, and visitors enjoy sustainable food, surrounded
10 by a verdant and bio-diverse environment”. Some four references revolved around
11 sustainable fish expressed by “being a Sustainable Fish City means I can enjoy eating fish”
12 underpinning the aim “a city where all the fish served is sustainably sourced and local fish is
13 readily available”. A final theme concerned composting and together with earlier research
14 mentions of food waste, reflected the sentiment “I never throw food away”. This evolved into
15 an aim to have “a city where businesses and communities minimize their food waste and
16 compost anything left”. An important theme brought forward from the first research initiative
17 was food poverty, so a corresponding aim was created: “A city where everyone, no matter
18 their situation can readily access sustainable, nutritious food and where food poverty has been
19 eradicated.”

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25 Whilst these aims are aspirational, they support the vision. These were then synthesised into
26 one vision statement which reflected Parikh and Neubauer’s (1993) definition which is to
27 create a more inward-looking image of the organisation’s desired future. It is ‘to grow a
28 flourishing city region where good food and better food choices lie at the heart of every
29 community’. Correspondingly, the mission is more purposeful, determining the nature of the
30 organisation’s business and why it exists (ibid). The Partnership’s mission was therefore to
31 connect, support and enable our food community, helping to grow a thriving food sector and
32 cultivate nourished neighborhoods.

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36 To support the vision, mission and aims, the Partnership developed a set of values to reflect
37 its ethical stance, principles and standards of behaviour. A workshop with eight participants
38 from the Partnership took place early January 2016. The group were introduced to the
39 purpose of values as a list of key beliefs that would guide the Partnership’s operations and
40 help others understand what it stood for. A list of 76 different potential values were
41 presented, with three further ones added by the group themselves. Each individual selected
42 the eight values they felt most represented the beliefs of the organisation to them, and then
43 undertook the process of ranking these in order of importance. These values and their
44 rankings were then combined and analysed to identify the most frequently cited and highest
45 ranked, to provide the Partnership’s values. This generated the following values with the
46 groups’ qualitative justification for each being captured.

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51 Unity: We strive to connect and unite all our communities together around a shared belief in
52 the value of good healthy food.

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55 Stewardship: We care for, value and preserve spaces for growing, cooking and eating food,
56 food knowledge and culture with honesty and integrity.

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59 Resilience: We work to create resilience across the food sector, building food security whilst
60 remaining a dependable, sustainable Partnership.

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3 Nourishment: We know that food nourishes the mind and soul as well as the body, so we
4 strive to be creative, original and flexible in all that we do to provide real nourishment to all
5 those who work for and with us.
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8 Commitment: We are fundamentally committed to creating a vibrant, socially just and
9 inclusive food sector.
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11 **Reflections**

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13 These reflections reflect a notion of challenge (Walker *et al*, 2004) in that viewpoints are
14 shared with others with recognition of further issues to be addressed. Members of the
15 university were involved in both research initiatives, contributing to capacity building. The
16 following reflections consider the nature of this capacity building, the role of university
17 actors working towards creating the transition, the local government actors, and finally the
18 promotion or alteration of current regimes of food procurement and consumption.
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22 This case study illustrates that capacity building involves working collaboratively with
23 partners (Shiel *et al*, 2016), in this case the BPSFCP, where capacity building in the
24 community involves building relationships and sharing knowledge with other community
25 stakeholders. These included Board members, who represent both local authorities, local
26 charities, and leaders of smaller food projects. The university has been a member of the
27 Board since the Partnership's inception and has played an important continuity role as the
28 membership has been shifting and dynamic, exemplified by three Chairs (in a short period)
29 with a variety of experiences.
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33 Capacity building is demonstrated by an external entity (i.e. the university) assisting an
34 institution (i.e. the Partnership) to continuously improve its processes (Brown *et al*, 2001).
35 University members have helped to inform strategic direction, vision, mission, aims and
36 values. This evolving clarity has provided a base for many successful and innovative projects,
37 helping the region to begin a transition towards a sustainable food city. However, those
38 academic staff who have led and supported developments did so in a volunteer capacity. This
39 requires substantial goodwill and time. Academic staff who engage in capacity building need
40 to be highly committed and resilient to make progress when other stakeholders may be less
41 committed and less used to working in a strategic way. University actors have contributed
42 towards capacity building by specifically focusing on a theme of education around
43 sustainable food. This involved creating a working group to develop regional, national and
44 international links to exchange information, to further research opportunities, to embrace
45 innovation and to disseminate good practice. Human agency from this group was more
46 discernable in comparison to those actors leading other themes within the Partnership such as
47 commercial support and carbon reduction. This was evident from conferences attended,
48 reciprocal visits from other sustainable cities, liaison with DEFRA around becoming a
49 European Innovation Partnership operational group, exploring knowledge transfer
50 partnerships with the university working with the university and disseminating case study
51 information around successful initiatives.
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3 Other projects involved university students such as Waste Less, Save More [5]. Student
4 interns helped deliver the Good Food Accreditation scheme [6] increasing awareness
5 amongst businesses and the public. These projects helped build capacity as they help to
6 provide evidence and build competencies (Spoth *et al*, 2004) around workable sustainable
7 food solutions. The Partnership spear-headed several live briefs for students, enhancing the
8 curriculum, benefiting learning around local sustainable issues and subsequently generating
9 some creative ideas and solutions. Student internships supporting the Partnership manager,
10 provided work experience, supporting the assertion by Schmitz *et al*, (2010) that community
11 projects provide an ideal environment for student learning.
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16 There are, however, human and financial resource constraints on the ability to build future
17 capacity. There have been many successful bids enabling small projects to be implemented.
18 However, larger funding opportunities remain elusive. These can require investment upfront
19 such as investing in securing planning permission for a roof community and garden project.
20 This is required by a larger funder before they would commit, and the Partnership lacks the
21 available funds.
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25 To what extent does capacity building result in transitions? The case study reveals that while
26 BU actors have supported a transition of the Partnership itself, there is more to do to
27 transition towards a sustainable food city. A transition is a structural change and new modes
28 of production and consumption result, with an accompanying set of behaviour changes from
29 the actors involved (Spaargaren and Oosterveer, 2012). Whilst there may be some promising
30 transitional projects such as the online Food Assembly, the findings show it must gain more
31 traction amongst a wider audience. The first research initiative identified the need for a
32 'seismic shift' required to change attitudes and behaviours, with the second initiative
33 continuing to highlight the need for wider public education regarding local food production
34 and sourcing, healthy eating, cooking and food waste. Whilst there has been some focused
35 and cost-effective initiatives implemented, the Partnership lacks the necessary financial
36 resources with which to raise awareness and educate a wider audience. Further, lack of initial
37 funding meant that a baseline for measuring a transition was never established. Capacity
38 building and transitions require evaluation with robust measures; these are often missing from
39 one-off projects; without a baseline measuring success is problematic (Shiel *et al*, 2016).
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45 In relation to a transition of this nature, local councils have considerable influence. Within the
46 BPSFCP they have played a largely supportive rather than a proactive role. They provided
47 some initial funding at the outset and Bournemouth Council provided accommodation and
48 support for the Partnership manager but then struggled to determine which department
49 aligned best with the Partnership, resulting in departmental moves, from Economic
50 Development and Sustainability to Housing Enforcement and Communities. This reflected
51 the level of understanding within departments of sustainability (and sometimes a lack of
52 understanding) and how it impacts on their work portfolios. Bournemouth Council has yet to
53 align all of its council practices with the goal of sustainability, creating occasions of internal
54 conflict. This limited the Partnership's ability to influence local government policy albeit that
55 some shifts have occurred, exemplified by the Partnership's Sugar Smart campaign leading to
56 a potential Council policy declaration on reducing sugar. To improve traction within
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Councils, it would be ideal if there were an individual ‘champion’ or ‘ambassador’ in a key position, with a clear understanding of sustainability and sustainable food.

The Partnership has been proactively trying to influence regime change, rather than adopting a supporting role (Stahlbrand, 2016). The research has captured a shared stakeholder understanding of sustainable food and its context to develop strategy. Research findings informed aims and vision; however, these have remained aspirational despite the promising progress of the Partnership. Key to success is the implementation of a mission, which serves to connect, support and enable the food community, helping to grow a thriving food sector and cultivate nourished neighborhoods. To achieve this, solutions need to be found to overcome weaknesses identified in the SWOT, to increase awareness of successful projects and to build and extend membership within the community. This can be assisted by wider public education regarding accessing local food, healthy eating, cooking, and food waste. The Partnership’s desire to proactively promote and alter the current methods of food distribution and consumption are evident; nonetheless, they lack the resources required to do so.

There are some pockets signaling regime change. The online Food Assembly directly challenges conventional ways of food procurement and consumption albeit it lacks scale to mount any serious challenges against current practice. The key challenge it faces is that consumers are reluctant to change their behaviour regarding collection of their online order, preferring direct delivery, creating further logistical challenges for the Partnership.

Regime change has taken place within the Partnership itself. It has moved from being funded initially by an initial combination of start-up grants, to being self-financing. Grant applications have benefitted from the additional clarity of the Partnership’s strategic direction. The Partnership manager has secured additional funding from Sustain, Sainsburys, the Postcode Lottery and the Big Lottery, helping to sustain the Partnership itself.

Conclusions, Limitations and Implications for further research.

This study contributes to a body of knowledge regarding strategic development as called for by Markard *et al*, (2012). The Partnership has established promising foundations and fostered a genuine attempt for change, although this may be more incremental, given the resources available.

BU has built capacity for the BPSFCP through this research project and ongoing commitment involving fostering effective relationships with community partners. It has helped the Partnership establish strategic direction which in turn, has guided innovative projects that produce evidence and build competencies around sustainable food solutions. Grant applications have benefitted from inclusion of this clear vision, mission, aims and values, enabling the funding of further capacity building projects.

Running such a community project is challenging. There are limitations to the availability of human and financial resources preventing further opportunities to build capacity. Critically, wider public education would increase awareness and the membership. Greater education and knowledge support the Partnership’s mission, which is to connect, support and enable the

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3 food community, helping to grow a thriving food sector and cultivate nourished
4 neighborhoods.
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7 Whilst there are promising projects that sow seeds of behaviour change, it is early days. The
8 Partnership struggles to establish its own socio-technical system underpinning any
9 fundamental long-term shift, typifying a sustainable transition (Geels *et al*, 2008; Markard *et*
10 *al*, 2012). The Partnership has limited influence with the local council policy. Local
11 government remains in a supportive capacity, needing to determine where sustainability fits
12 within its own strategy. Consequently, agendas occasionally conflict, although frequent
13 communications between parties allow the ability to move forward with some behaviour
14 change from the actors involved (Spaargaren *et al*, 2012). Transition takes time and local
15 government structures move slowly; regime shift in the short term is ambitious.
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20 The research method used was a descriptive case study method which has limitations but
21 learning from such studies is important for wider transformation for sustainable development
22 (Sharp 2002) and enables others to consider possibilities and challenges (Shiel *et al*. 2019).
23 Research reflections have focused on two specific groups of actors, namely those from the
24 university and local government. Future research can include a broader range of actors.
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28 The case study demonstrates that while progress can be made in terms of a journey towards
29 sustainable food at a local level, further research is necessary to identify the multiplicity of
30 factors that facilitate and inhibit progress. Further case studies that demonstrate how capacity
31 building in the community leads to successful sustainable transitions would be helpful
32 particularly case studies which deploy robust measures for evaluation. Although case studies
33 of this nature are not replicable, some of the methods, findings and implications resulting
34 from this case study can inform other similar contexts. Finally, the case study documents the
35 beginnings of a transition; subsequent research activity exploring broader human agency
36 influences on local food procurement and consumption needs to contribute to Tilbury's
37 (2011) call for longitudinal research.
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Footnotes

[1] Online Food Assembly: a new market outlet bringing producers and consumers together through an online ordering system and shared weekly pick-ups to improve access to locally produced food. The Bournemouth Assembly has 937 consumers.

[2] Community gardens: the purpose is to build social inclusion and increased the nutritional value of participants' diets. Gardeners' skills are developed, knowledge shared, and new gardens established in key areas of deprivation.

[3] Sustainable Fish City: the region is the first Sustainable Fish City in the world. It encourages public sector organisations, schools, offices and local businesses to commit to only sourcing fish approved as sustainable. Over 3.6 million fish meals a year in the region use sustainably sourced fish.

[4] Zero Waste Kitchen Challenge: worked with 52 BU student households to reduce their food waste. Through one to one support, food waste kitchen gadgets and a series of cookery workshops students reduced their food waste by 48% and are disseminating their new food skills into the community.

[5] Waste Less, Save More: a community-wide campaign to minimise food waste and enable food surplus distribution. Includes Community Fridges, Cookery Workshops and Feed the 1,000 events.

[6] Good Food Accreditation scheme: assesses and ranks business across 5 areas of sustainability – local sourcing, sustainable sourcing, food waste minimisation, work with communities and communication. Includes support to improve and promotion through website profiles and merchandise.

References

Ávila, L. V., Leal Filho, W., Brandli, L., Macgregor, C. J., Molthan-Hill, P., Özuyar, P. G., & Moreira, R. M. (2017), "Barriers to innovation and sustainability at universities around the world", *Journal of Cleaner Production*, Vol. 164, pp. 1268-1278.

Bournemouth and Poole Sustainable Food City. (2018), available at <http://www.sustainablefoodcity.org/> (accessed 5 February 2018).

Brown, L., LaFond, A. & Macintyre, K. (2001), "*Measuring Capacity Building*". Carolina Population Center, University of North Carolina at Chapel Hill.

Coenen, L., Benneworth, P. & Truffer, B. (2012), "Toward a spatial perspective on sustainability transitions", *Research Policy*, Vol. 41 No. 6, pp. 968-979.

Defra (2013), "Sustainable Development Indicators", available at https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/223992/0_SDI_s_final__2_.pdf/ (accessed 5 February 2018).

Eden, C. & Huxham, C. (1996), "Action research for Management Research", *British Journal of Management*, Vol. 7 No. 1, pp. 75-86.

Food and Agriculture Organization of the United Nations (FAO) (2014), "*The State of Food and Agriculture: Food Systems for Better Nutrition*", Rome, FAO.

Geels, F. W., Hekkert, M.P. & Jacobsson, S. (2008), "The dynamics of sustainable innovation journeys", *Technology Analysis and Strategic Management*, Vol. 20 No. 5, pp. 521-536.

Grace Communications Foundation. (2018), "Local and regional food systems", available at <http://www.sustainabletable.org/254/local-regional-food-systems/> (accessed 5 February 2018).

Houston, S. (2010), "Further reflections on Habermas's contribution to discourse in child protection: An examination of power in social life", *British Journal of Social Work*, Vol.40 No. 6, pp. 1736-1753.

Jones, P., Selby, D, & Sterling S. (Eds). (2010), *Sustainability education: Perspectives and practice across higher education*, Earthscan, London.

Kindling Trust. (2019), "Sustainable Food Definition", available at <https://kindling.org.uk/sustainable-food-definition> (accessed 14 February 2019).

Knowles, T., Moody, R., & McEachern, M. G. (2007), "European food scares and their impact on EU food policy", *British Food Journal*, Vol. 109 No. 1, pp. 43-67.

Leal Filho, W. (Ed). (2010), *Sustainability at Universities: Opportunities, Challenges and Trends*, Peter Lang Scientific Publishers, Frankfurt.

- 1
2
3 Leal Filho, W. (2012), "About the role of universities and their contribution to sustainable
4 development", *Higher Education Policy*, Vol. 24 No. 4, pp. 427-438.
5
6
7 Lockie, S. (2006), "Capturing the sustainability agenda: Organic foods and media discourses
8 on food scares, environment, genetic engineering, and health", *Agriculture and Human
9 Values*, Vol. 23 No. 3, pp. 313-323.
10
11
12 Loopstra, R. & Lalor, D. (2017), "Financial insecurity, food insecurity, and disability: The
13 profile of people receiving emergency food assistance from The Trussell Trust Foodbank
14 Network in Britain", available at [https://trusselltrust.org/wp-](https://trusselltrust.org/wp-content/uploads/sites/2/2017/06/OU_Report_final_01_08_online.pdf/)
15 [content/uploads/sites/2/2017/06/OU_Report_final_01_08_online.pdf/](https://trusselltrust.org/wp-content/uploads/sites/2/2017/06/OU_Report_final_01_08_online.pdf/) (accessed 5 June 2018).
16
17
18 Lorenz, U. U., & Veenhoff, S. S. (2013), "Integrated scenarios of sustainable food production
19 and consumption in Germany", *Sustainability: Science, Practice & Policy*, Vol. 9 No. 2, pp.
20 92-104.
21
22 Lubin, D. A., & Esty, D. C. (2010), "The sustainability imperative", *Harvard Business
23 Review*, Vol. 88 No. 5, pp. 42-50.
24
25 Mader, M., Mader, C., Zimmermann, F.M., Görsdorf-Lechevin, E., Diethart, D. (2013)
26 "Monitoring networking between higher education institutions and regional actors",
27 *Journal of Cleaner Production*, Vol.49 pp 105-113.
28
29
30 Markard, J. (2011), "Transformations of infrastructures; sector characteristics and
31 implications for fundamental change". *Journal of Infrastructure systems* (ASCE) Vol.17,
32 No.3, pp. 107-117.
33
34 Markard, J., Raven, R. & Truffer, B. (2012), "Sustainability transitions: An emerging field of
35 research and its prospects", *Research Policy*, Vol. 41 No. 6, pp. 955-967.
36
37 Marsden, T. & Morley, A. (2014), *Sustainable food systems: Building a new paradigm*,
38 Routledge, London.
39
40
41 Oldenhuizing, J., de Kraker, J & Valkering, P. (2013), "Design of a Quality-of-Life monitor
42 to promote learning in a multi-actor network for sustainable urban development", *Journal of
43 Cleaner Production*, Vol. 49 pp.74-84.
44
45
46 Oxfam (2018) "What we do" available at [https://www.oxfam.org.uk/what-we-do/about-](https://www.oxfam.org.uk/what-we-do/about-us/how-we-work/our-goals-and-values)
47 [us/how-we-work/our-goals-and-values](https://www.oxfam.org.uk/what-we-do/about-us/how-we-work/our-goals-and-values) (accessed 10 June 2018)
48
49
50 Parikh, J. & Neubauer, F. (1993), Corporate visioning, *International Review of Strategic
51 Management*, Vol.4 pp. 105-116.
52
53
54 Reason, P. & Bradbury, H. (Eds.). (2001), *Handbook of Action Research: Participative
55 Inquiry and Practice*, Sage, London.
56
57
58 Schmitz, C.L., Stinson, C.H. & James, C.D. (2010), "Community and Environment
59 Sustainability: Collaboration and interdisciplinary education", *Critical Social Work*, Vol. 11
60 No. 3, pp. 83-100.

- 1
2
3 Schön, D. (1987), *Educating the Reflective practitioner: Toward a new design for teaching*
4 *and learning in the professions*, Jossey Bass, San Francisco.
5
6
7 Sharp, L. (2002). “Green campuses: the road from little victories to systemic transformation”.
8 *International Journal of Sustainability in Higher Education*, Vol 3 No. 2, pp.128-145.
9
10
11 Shiel, C. (2007), “Developing and embedding global perspectives across the university”, in S.
12 Marshall (Ed), *Strategic leadership of change in higher education*, Routledge, London and
13 New York, pp.158-173.
14
15 Shiel, C., Leal Filho, W., do Paco, A., & Brandli L. (2016). “Evaluating the engagement of
16 universities in capacity building for sustainable development in local communities”,
17 *Evaluation & Program Planning*, Vol.54 pp.123–134.
18
19
20 Shiel, C., Smith, N. and Cantarello, E., 2019. “Aligning campus strategy with the SDGs: an
21 institutional case study”, in Leal Filho, W., Salvia, A., Bradli, L. and Pretorius, R., (Eds).
22 *Universities as Living Labs for Sustainable Development: Supporting the Implementation of*
23 *the Sustainable Development Goals - Volume 1*. Springer (In print).
24
25
26 Smil, V. (2000), “Feeding the World: A Challenge for the Twenty-first Century”, MIT Press,
27 Cambridge, MA.
28
29
30 Spaargaren, G., Loeber, A.M.C. & Oosterveer, P.J.M. (2012), Food futures in the making, in
31 Spaargaren, G., Oosterveer, P. J. M., and Loeber, A.M.C. (Eds.), *Food Practices in*
32 *Transition—Changing Food Consumption, Retail and Production in the Age of Reflexive*
33 *Modernity*, Routledge, London, pp. 312-337.
34
35
36 Spoth, R., Greenberg, M., Bierman, K. & Redmond C. (2004), “PROSPER Community–
37 University Partnership Model for Public Education Systems: Capacity-Building for
38 Evidence-Based, Competence-Building Prevention”, *Prevention Science*, Vol. 5 No. 10, pp.
39 31-39.
40
41
42 Stahlbrand, L. (2016), “The Food For Life Catering Mark: Implementing the Sustainability
43 Transition in University Food Procurement”, *Agriculture*, Vol. 6 No. 3, p.46.
44
45
46 Sterling, S., Maxey, L. & Luna, H. (Eds). (2013), “The Sustainable University: Progress and
47 prospects”, Earthscan/Routledge, London and New York.
48
49
50 Sustain, (2019), “What is sustainable food?” available at
51 https://www.sustainweb.org/sustainablefood/what_is_sustainable_food/
52
53 Sustainable Food Cities, (2018), available at <http://sustainablefoodcities.org/> (accessed on 5
54 February 2018).
55
56
57 Tilbury, D. (2011), *Education for Sustainable Development: An Expert Review of Processes*
58 *and Learning*. UNESCO, Paris.
59
60

1
2
3 University of Strathclyde, Glasgow (2017), “Engage with Strathclyde 2017: Making Glasgow
4 a Sustainable Food City”, available at
5 [https://www.strath.ac.uk/media/ps/estatesmanagement/sustainability/sustdocuments/Engage_
6 Discussion_summary.pdf](https://www.strath.ac.uk/media/ps/estatesmanagement/sustainability/sustdocuments/Engage_Discussion_summary.pdf) [accessed 31 January 2019].
7

8
9 van Weenen, H. (2000), “Towards a vision of a sustainable university”. *International Journal
10 of Sustainability in Higher Education*, Vol.1 No. 1, pp.20–34.
11

12 Velazquez, L., Munguia, N.P.A. and Taddei, J. (2004), “A Sustainable University: What Can
13 the Matter be?” *Environmental Management Sustainable Universities*, Monterrey.
14

15
16 Walker, K., Corcoran, P.B, Wals, A. E.J. (2004), “Case studies, make-your-case-studies and
17 case stories: A critique of case-study methodology in higher education”. *Environmental
18 Education Research*, Vol. 10 No. 1, pp.7-11
19

20
21 Watts, D., Ilbery, B., and Maye, D. (2005), “Making reconnections in agro-food geography:
22 alternative systems of food provision”, *Progress in Human Geography* Vol.29 pp. 22–40.
23

24
25 Whatmore, S. (2002). *Hybrid Geographies: Natures cultures space*. London: Sage
26 Publications.
27

28
29 Yin, R. K. (2014), *Case study research: Design and methods* (5th edition). Sage, Thousand
30 Oaks CA.

31
32 United Nations (2016) “General Assembly. Seventy-first session. Item 25 of the provisional
33 agenda. Agriculture development, food security and nutrition. Report of the Secretary
34 General”, available at
35 http://www.un.org/ga/search/view_doc.asp?symbol=A/71/283&Lang=E/ (accessed 16 April
36 2018).
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Answer Choices	Responses/no. of respondents
	58.82%
Dorset Food and Drink	20
	17.65%
Hampshire Fair	6
	41.18%
Real Local Flavour	14
	100.00%
Fairtrade	34
	64.71%
Marine Stewardship Council	22
	73.53%
Rainforest Alliance	25
	35.29%
Food Alliance	12

Total respondents: 34

	Never	Once a month	Once a fortnight	Once a week	Daily	Don't know	Total	Weighted Average
Locally sourced vegetables	9.09% 3	18.18% 6	15.15% 5	33.33% 11	9.09% 3	15.15% 5	33	3.61
Locally sourced meat	27.27% 9	30.30% 10	15.15% 5	9.09% 3	0.00% 0	18.18% 6	33	2.79
Locally sourced dairy products	28.13% 9	25.00% 8	15.63% 5	15.63% 5	0.00% 0	15.63% 5	32	2.81
Locally sourced fruit	18.18% 6	21.21% 7	27.27% 9	21.21% 7	3.03% 1	9.09% 3	33	2.97
Locally sourced drinks	27.27% 9	36.36% 12	18.18% 6	3.03% 1	0.00% 0	15.15% 5	33	2.58
Bread from a local bakery	18.18% 6	39.39% 13	12.12% 4	21.21% 7	3.03% 1	6.06% 2	33	2.70
Fairtrade products	3.03% 1	18.18% 6	15.15% 5	51.52% 17	9.09% 3	3.03% 1	33	3.55

	1 –	2 –	3 –	4 –	5 –	6 –	7 –	Total	Weighted Average
The food in Bournemouth & Poole is sustainable	11.76% 4	20.59% 7	20.59% 7	20.59% 7	11.76% 4	11.76% 4	2.94% 1	34	3.47
People in Bournemouth & Poole are aware of the need for sustainable food	5.88% 2	32.35% 11	20.59% 7	23.53% 8	2.94% 1	8.82% 3	5.88% 2	34	3.35
It is easy to find sustainable food in Bournemouth & Poole	5.88% 2	26.47% 9	29.41% 10	14.71% 5	11.76% 4	11.76% 4	0.00% 0	34	3.35

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	1	2	3	4	5	6	7	8	9	10	Total	Score
Community growing	5.88% 2	14.71% 5	5.88% 2	11.76% 4	11.76% 4	5.88% 2	11.76% 4	14.71% 5	8.82% 3	8.82% 3	34	5.38
Teaching cookery and other food skills	2.94% 1	5.88% 2	8.82% 3	5.88% 2	2.94% 1	14.71% 5	17.65% 6	14.71% 5	17.65% 6	8.82% 3	34	4.44
Increasing sustainable food sourcing in businesses	11.76% 4	5.88% 2	8.82% 3	23.53% 8	8.82% 3	11.76% 4	5.88% 2	2.94% 1	14.71% 5	5.88% 2	34	5.85
Increasing sustainable food sourcing in the public sector	2.94% 1	0.00% 0	8.82% 3	11.76% 4	23.53% 8	14.71% 5	8.82% 3	11.76% 4	8.82% 3	8.82% 3	34	4.94
Supporting sustainable food businesses	5.88% 2	11.76% 4	17.65% 6	5.88% 2	11.76% 4	8.82% 3	17.65% 6	14.71% 5	0.00% 0	5.88% 2	34	5.82
Minimising waste and using food surplus more effectively	26.47% 9	11.76% 4	14.71% 5	5.88% 2	17.65% 6	2.94% 1	5.88% 2	8.82% 3	5.88% 2	0.00% 0	34	7.12
Campaigning to increase understanding of sustainable food within the community	29.41% 10	14.71% 5	5.88% 2	8.82% 3	11.76% 4	8.82% 3	11.76% 4	0.00% 0	5.88% 2	2.94% 1	34	7.12
Improving individual health and well-being	0.00% 0	5.88% 2	5.88% 2	5.88% 2	0.00% 0	0.00% 0	2.94% 1	20.59% 7	23.53% 8	35.29% 12	34	2.97
Tackling food poverty	11.76% 4	11.76% 4	5.88% 2	8.82% 3	0.00% 0	17.65% 6	8.82% 3	8.82% 3	5.88% 2	20.59% 7	34	5.15
Supporting local food producers	2.94% 1	17.65% 6	17.65% 6	11.76% 4	11.76% 4	14.71% 5	8.82% 3	2.94% 1	8.82% 3	2.94% 1	34	6.21

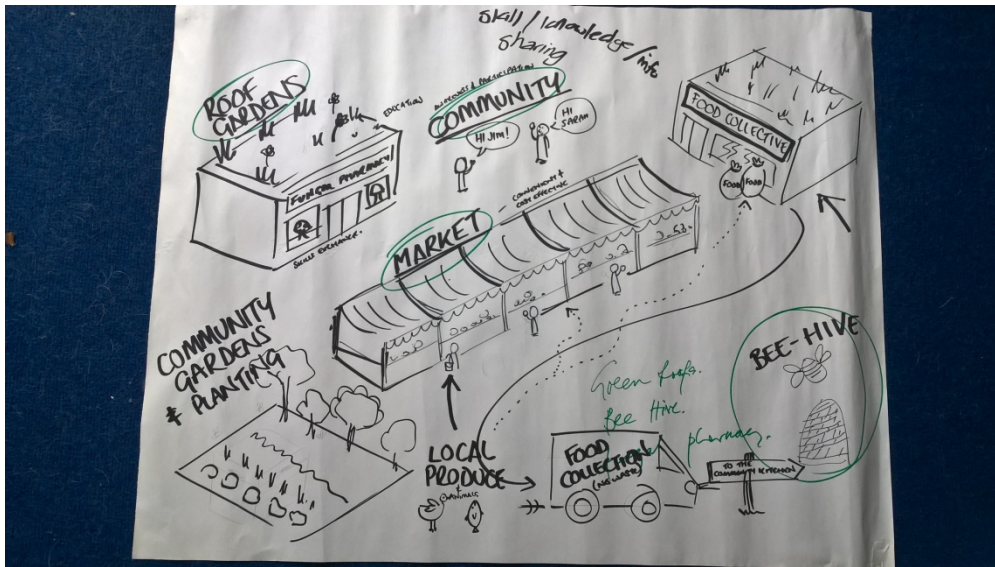


Figure One: Visioning Picture

Appendix One

Summary of questions from the Bournemouth & Poole Sustainable Food City Partnership Questionnaire

The survey was conducted between 7 and 21 October and achieved 34 responses – a 7.5% response rate. This contains a selection of the questions asked and additional tables of data.

Please list the three main things that come to mind when you hear the term 'sustainable food'.

Which of the following sustainable food brands/logos have you heard of? Please tick all that apply.

Answer Choices
Dorset Food and Drink
Hampshire Fair
Real Local Flavour
Fairtrade
Marine Stewardship Council
Rainforest Alliance
Food Alliance

How frequently do you buy the following?

	Never	Once a month	Once a fortnight	Once a week	Daily	Don't know
Locally sourced vegetables						
Locally sourced meat						
Locally sourced dairy products						
Locally sourced fruit						
Locally sourced drinks						
Bread from a local bakery						
Fairtrade products						

Please indicate the extent to which you agree with each of the following statements on a 7-point scale, where 1 equals strongly disagree and 7 equals strongly agree.

	1-	2-	3-	4-	5-	6-	7-
The food in Bournemouth & Poole is sustainable							
People in Bournemouth & Poole are aware of the need for sustainable food							
It is easy to find sustainable food in Bournemouth & Poole							

What three issues around sustainable food are most important to you? Please rank the issues in order of importance, where 1 is most important and 3 is least important.

What do you think the priorities of the Bournemouth & Poole Sustainable Food City Partnership should be? Please rank the following where 1 is most important and 10 is least important.

	1	2	3	4	5	6	7	8	9	10
Community growing										
Teaching cookery and other food skills										
Increasing sustainable food sourcing in businesses										
Increasing sustainable food sourcing in the public sector										
Supporting sustainable food businesses										
Minimising waste and using food surplus more effectively										
Campaigning to increase understanding of sustainable food within the community										
Improving individual health and well-being										
Tackling food poverty										
Supporting local food producers										

What three things do you feel that the Bournemouth & Poole Sustainable Food City Partnership should be focusing on over the next 3-5 years?

What three things do you think need to happen to support the longer-term vision (ten years) to be a sustainable food city?

Transitioning towards a sustainable food city

Introduction

The role of universities in contributing to sustainable development is now well documented (Leal Filho, 2012; Shiel *et al.*, 2018; Stahlbrand, 2016) with the suggestion that higher education should be addressing sustainability on campus, in the curriculum, across operations, and in the community. Regarding the latter, it is suggested that universities have an important role to play in influencing community stakeholders and working collaboratively to build capacity (Shiel *et al.*, 2016). While there are substantial publications related to the educative agenda and campus greening, there are far fewer examples related to capacity building and partnerships for sustainability in the community. This paper aims to contribute further by illustrating how one institution, Bournemouth University (BU), has engaged as a partner in the establishment of the Bournemouth and Poole Sustainable Food City Partnership (BPSFCP) to influence change. Bournemouth and Poole became one of the first of six cities in the UK, funded under the national Sustainable Food Cities Network, in 2013 (Sustainable Food Cities 2018) with BU as a partner.

As the collaboration involves multiple stakeholders, early research initiatives sought to ensure that their perspectives informed the establishment of the Partnership but also the direction of travel. It was apparent from the outset, that while stakeholders had many ideas about sustainable food, there was no single view of what needed to be prioritised; achieving a sustainable food city would be an impossible goal in the constraints of the project but beginning a transition towards sustainable local food was achievable. A participative approach, with the university helping to gather data, was thus vital in the early stages, further, it has also contributed to enabling the Partnership itself to make a transition, ensuring financial sustainability and continuity beyond initial funding.

The literature considers the role of a university in building capacity within the community, sustainable food, and sustainability transitions, including the role of agency. This paper will describe the research approaches that informed the early stages of collaboration: this involved a survey to elicit stakeholders' understanding of sustainable local food, in order to create a shared agenda and inform future strategic direction; and workshops, where paired discussions, and generation of pictorial outputs helped inform the future vision, mission, aims and values of the Partnership. The paper ends with reflections on the nature of the university's role in capacity building. Insights ~~are~~will be provided as to the implications and limitations of the Partnership in enabling a transition towards more sustainable consumption.

Literature Universities supporting transition: capacity building in the community for sustainability

It is commonly accepted that universities should address sustainable development through research, education, in their operations and in the community, with an extensive supporting literature (Velazquez *et al.*, 2004; Leal Filho, 2010; Sterling *et al.*, 2013) that details the breadth of what is involved. In supporting a transition towards sustainable development, many higher education institutions have adopted approaches like the 'Four C' model (Jones

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10 *et al.*, 2010), where Campus, Curriculum, Community and Culture represent areas where
11 sustainability needs to be addressed, preferably as part of a holistic approach.

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13 As early as 1999, capacity building was identified by the Association of University Leaders
14 for a Sustainable Future (USLF) as one of several areas where universities should be engaged
15 in addressing sustainable development (ULSF, 1999 in van Weenen, 2000). Later, Velazquez
16 *et al.* (2004) synthesised the suggestions from USLF into four strategic themes where
17 universities should advance sustainability: education, research, outreach/community and in
18 campus operations. However, while debates about education for sustainable development
19 have occupied the literature, there continues to be a paucity of studies concerning university
20 engagement in building capacity for sustainable development at the local level, or which have
21 involved communities (Leal Filho, 2010).

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23 There has been substantial progress regarding sustainability research, campus greening, and
24 education for sustainable development despite barriers, however it is suggested that capacity
25 building within communities (through external facing projects) has lagged other areas of
26 engagement (Shiel *et al.*, 2016). Innovations have been largely in relation to campus greening
27 but lacking elsewhere (Ávila *et al.* 2017). With respect to community engagement, many
28 universities lack a vision for innovation, most have ignored fostering effective relationships
29 with community partners and higher education institutions are missing opportunities to
30 engage with sustainable development fully and in innovative ways (Ávila *et al.*, 2017).

31 **Sustainable Food**

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33 Turning now to the literature on sustainable food, it is apparent it lacks Whilst there is no a
34 legal definition ~~for sustainable food~~ (Sustain 2019); however there is recognition that it
35 should reflect economic, environmental, health, and social concerns (Kindling Trust 2019).
36 Within its production, processing, distribution and disposal it should contribute to local
37 economies, protect the diversity of plants and animal welfare, avoid waste and contributing to
38 climate change and provide social benefits such as healthy products and educational
39 opportunities. (Sustain 2019). This will include embracing short supply chains.

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41 One of many areas where universities can build capacity at a local level is in relation to
42 sustainable food. Food and drink are essential for life and directly impact on health and well-
43 being (Whatmore, 2002); food consumption and production are important for sustainable
44 development. However, food distribution across the world is uneven: not everyone enjoys
45 sufficient food, let alone sustainable healthy food and there are several anomalies. In the UK,
46 for example, obesity has become a public concern, while demand for food banks and food
47 poverty has increased (Loopstra & Lalor, 2017). In the Global South, while some countries
48 are affluent and produce plenty, continued food crises in others, mean that many starve
49 (Oxfam, 2018). Further, given climate change, there is greater awareness that the production
50 and consumption of food has shifted in the last 20 years to become the single human activity
51 with the most significant impact on the environment (Smil, 2000). The number of food scares
52 has risen since the turn of the century (Knowles *et al.*, 2007) and there is controversy in
53 relation to food additives, chemicals used in food production, genetic engineering and organic

growing (Lockie, 2006), with many of the issues featured and exacerbated by the media. In this context, research on food (food security, food poverty, food production) has expanded over the last decade, in parallel calls have increased to encourage the development of sustainable food systems that ensure food is sustainably produced, food waste reduced, and the effects of an increasing population on the planet minimised (Defra, 2013; Lorenz & Veenhoff, 2013; Lubin & Esty, 2010). Earlier, Aiking and de Boer (2004) attempted to summarise some of the issues, suggesting that the topic of food sustainability is complex, involving many aspects and diverging interpretations. In brief, they identified a need for change, and greater transparency in governance.

The call for change has also been writ large and taken forward at the global policy context, where it is impossible to ignore that millions are undernourished (Food and Agriculture Organization of the United Nations, 2014) and where solutions to eradicate hunger and achieve food security are seriously compounded by climate change, population growth, migration and rapid urbanisation (UN, 2016). Globally, the central concern of eliminating food poverty, ensuring food security and access to nutritious food is now a critical aspect of the Sustainable Development Goals (SDG), articulated in SDG Goal 2 which aims to “End hunger, achieve food security and improved nutrition and promote sustainable agriculture” through sustainable solutions including sustainable food production systems (UN, 2016). All signatories to the SDG Accord will work towards achieving the SDGs but, each SDG will require actions at the local level if the overarching ambition is to be achieved.

Despite the ambitious SDG goals, it should be recognised that the barriers to creating local sustainable food solutions are significant. These include: powerful food retailers controlling producers, stifling the opportunity for change; lack of funding with future uncertainties; those from lower socio-economic backgrounds lack knowledge and have limited resources with which to buy seasonal, healthy food and universities and schools typically are straight-jacketed with their curriculums, preventing the opportunity to focus on wider world issues such as climate change and sustainable healthy food choices (University of Strathclyde 2017).

Nonetheless in relation to food, a sustainable food and drink system needs to balance economic, social and environmental goals, deliver social benefits at the local level, while also protecting an increasingly fragile environment (Marsden & Morley, 2014). A transition towards local food solutions is a worthy consideration, and when replicated across communities, can potentially impact social, economic and environmental change. Local food systems are defined as “a method of food production and distribution that is geographically localized, rather than national and/or international” (Grace Communications Foundation, 2018). Along with locally sourced, locally produced, and organic food networks they have received interest as potential models of sustainable consumption (Watts *et al*, 2005) and may be the way forward.

Sustainable Transitions

This case study contributes to the knowledge of the early stages of sustainability transitions with a local food system. Sustainability transitions are fundamental long-term shifts within an established socio-technical system that encompass changes in markets and cultural discourses when moving to more sustainable means of production and consumption (Geels *et al*, 2008; Markard *et al*, 2012). These transitions embrace policy shifts within the governing institutions (Geels *et al*, 2008) and can affect regimes, for example the established methods of food procurement and consumption resulting in behaviour change from the actors involved (Spaargaren *et al*, 2012). Socio-technical systems can include housing, healthcare, water supply, transportation and food and agriculture (Coenen *et al*, 2012) and the latter sector, specifically food systems is of interest here.

Actors and their Agency

The literature identifies that there are multi-actor partnerships within the sustainable arena (e.g. Oldenhuizing *et al*, 2013) with Mader *et al*, (2013) identifying ways that higher education shares knowledge with regional actors. Typically, ~~these actors in this arena~~ include farmers, food industry employers and employees, retailers, consumers and regulating authorities (Spaargaren *et al*, 2012). The actors involved in this case study include BU, the Partnership manager, local authorities and members of the BPSFCP. Transitions can result in different relationships and organisation amongst actors within the food system, because of new arguments and technologies to underpin new food practices, which in turn affect consumer behaviour (ibid). Therefore, actors and their agency are of interest, particularly their involvement devising the Partnership's strategic direction. Human agency is defined as the capacity of an individual to create meaning though considered thought, reflection and action from their environment (Houston, 2010). Stahlbrand (2016) argues that agency can proactively promote regime change rather than adopting a supporting role and calls for further research here. Moreover, Markard *et al*, (2012) identify the need for further in-depth studies regarding strategic development, including the creation of new regime structures, involving the strategic interactions amongst networks of actors viewed through a management studies lens.

In summary, the analysis of the literature calls for further understanding as to how universities can build capacity for food sustainability within a local community, building effective relationships with local community stakeholders. Specifically, ~~we this paper~~ investigates the strategic development that contributes towards a sustainable transition. ~~We offer additional~~ Additional reflections ~~are offered on~~ in regard to actors and their agency, ~~specifically those from the university and local government who~~ influencing the current regime of food procurement and consumption, and local governance policy.

Insight into these agendas is gleaned from a ~~n-action-research approach regarding a~~ university's involvement with the strategic development of a sustainable food system. The research aim was to build capacity for food sustainability within a local community through creating effective relationships with local community stakeholders. Deploying a transparent and inclusive process involving a variety of actors, the research objectives were to:

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10 RO1. To assess the current understanding of sustainable food and its context.

11 RO2. To create a shared agenda for future development.

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13 RO3. To inform future strategic direction.

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15 RO4. To determine the Partnership vision, mission, aims and values

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17 ~~The research involved two phases; the method, case study context, research phases and~~
18 ~~subsequent outcomes follow.~~

19 **Method**

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21 This paper adopts a case study approach (Yin, 2014) and represents an empirical inquiry into
22 sustainable development progress within the BPSFCP. In developing the case study, the
23 authors, who are participants in the Partnership, have engaged in a process of participative
24 inquiry and practice (Reason & Bradbury, 2001). The paper represents an output from
25 collaboration between university researchers and a practitioner (the Partnership manager).
26 The case study includes two sub-strands of research undertaken by the Partnership. [Rather](#)
27 [than detail the method/s used in each phase here, the and the multi-methods adopted at each](#)
28 [stage are explained further -are detailed after the after the case study context is provided. -](#)

29 **The case study context: developing the BPSFCP**

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31 BU is a UK, medium-sized, post 1992 university, with approximately 19000 students. The
32 ~~U~~university is on the South Coast of England, on the boundary between the adjacent towns of
33 Bournemouth and Poole. Engagement with the concepts of global citizenship and sustainable
34 development began in 2005 and became a strategic concern from 2006, with the aim of
35 adopting a holistic approach (Shiel, 2007). Sustainable development is incorporated into
36 ~~U~~university strategy and policies, featured within research and the curriculum, and is central
37 to campus operations. Developments have progressed in a similar approach to the 'Four C'
38 model' (Jones, 2010) but have not always been successful in securing an integrative
39 approach; the 'community' element has been somewhat ad-hoc and un-evaluated.
40 Nevertheless, BU has made substantial progress (see Shiel *et al*, 2018) and has a reputation
41 for being one of the UK leaders regarding the sustainable development agenda. As part of the
42 external facing agenda, BU became a supporter in partnership with community stakeholders
43 in submitting a successful bid to develop as a Sustainable Food City.

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45 The national sustainable cities' programme recognised the key role of communities in
46 contributing to sustainable development by transforming food culture and food systems. At
47 the national level sustainability was described as the direction of travel rather than a specific
48 destination and although they were not prescriptive, they suggested six key areas to consider
49 at a local partnership level:

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51 1. Promoting healthy and sustainable food to the public
52 2. Tackling food poverty, diet-related ill health and access to affordable healthy food

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3. Building community food knowledge, skills, resources and projects
4. Promoting a vibrant and diverse sustainable UK food economy
5. Transforming catering and food procurement
6. Reducing waste and the ecological footprint of the UK food system

The BPSFCP sought to establish itself with these aims. The Partnership comprises “local people, businesses, community groups and public-sector organisations who have come together to revolutionise the way people across the region grow, buy, cook, eat, celebrate and dispose of their food” (Bournemouth and Poole Sustainable Food City, 2018). The university’s role includes Board membership contributing knowledge including sustainability and strategic planning, together with sitting on other council committees such as Fair-Trade town, a steering group established to support Fair Trade locally. The Partnership manager is an experienced practitioner having worked with multifaceted sustainable development organisations locally and as a short supply chains expert across the EU. Other Partnership members include food security and food poverty practitioners, skills and learning advocates, local business owners, restaurateurs, hotel managers, community garden organisers as well as residents. The Partnership’s structure consists of a Board, including two university academics, representatives from both local authorities, Public Health, Transition Towns, local charities and leaders of smaller food projects. There are 450 members within the total Partnership.

Taking collaboration forward Research Initiatives

In collaboration with university stakeholders, the Partnership embarked on two research initiatives, to provide a platform for subsequent activity and future direction. In line with Walker et al. (2004) the objectives, or purpose, and methods are explained facilitating replication for future studies. The first initiative commenced in October 2014 and its aim, method and outcomes of each phase are presented below:

Phase One: October 2014, aim and method

The early objectives were to assess the current understanding of sustainable local food and create a shared agenda among Partnership members, to quickly inform future direction rather than a more sophisticated approach. A survey method was employed, using rating scales, and open-ended questions which were thematically analysed. 34 members of the burgeoning Partnership responded to a Partnership newsletter request for survey respondents (7.5% response rate). They completed a written survey returning this directly to the Partnership Manager. They reported directly on their understanding of the term ‘sustainable food’, awareness of other sustainable food schemes, current awareness of sustainable food in the local area, frequency of purchase of local food items, and priorities and key issues around sustainable food. This was a small but representative sample, as respondents were typical sustainable food consumers. Appendix One provides a summary of the questions. Open ended questions’ responses were coded using a separate spreadsheet using emergent coding; the sequence in which the comments were spontaneously mentioned was considered.

Outcomes

Thematic analysis revealed that respondents reported that “sustainable food” was predominantly connected with “local” contrasting with research asserting that sustainable food does not have to be local and local food may not be, in all instances, sustainable (Grace Communications Foundation 2018). Other associations frequently mentioned, were environmental protection including responsibly sourced and sustainable fishing. Less frequent associations included organic, health, community, food poverty, Fairtrade, no pesticides, effective use of resources, food security, seasonality, supply chains, ability to grow, future perspective, price/cost and ethical issues.

Respondents were aware of national and international schemes rather than any local initiatives. While all the respondents had heard of Fairtrade, only 74% were aware of the Rainforest Alliance with 65% being conscious of the Marine Stewardship Council. Despite their interest in local food, local initiatives had lower awareness; Dorset Local Food and Drink (59%), Real Local Flavour (41%) and Hampshire Fayre (18%) (see Table One).

Table One: Scheme Awareness

Respondents reported that the most frequently purchased local food and drink products were locally sourced vegetables and Fairtrade products followed by locally sourced fruit, locally sourced dairy products locally sourced meat, bread from a local bakery and finally locally sourced drinks (see Table Two). Despite the respondents’ engagement with locally sourced produce, they tended to disagree that food in Bournemouth and Poole is sustainable, people in the area are aware of the need for sustainable food or that it is easy to find sustainable food in the local area (see Table Three).

Table Two: Frequency purchase data for local food items

Table Three: Sustainable food responses

To help inform the Partnership’s future direction, respondents were asked about the key issues and priorities around the sustainable food agenda. The thematic analysis revealed that they again focused on local. Education emerged as an important issue, including the need to raise awareness and provide information where to find sustainable food. Other notable issues included the environment, sourcing, including sustainable fishing, supply chains, availability, price and affordability. Mentioned less frequently were concerns related to animal welfare, health, the ability to grow food, having sufficient resources, equality including fair access to sustainable food for everyone, food poverty and food waste.

Respondents ranked a set of possible priorities of the Partnership on a 10- point scale (1 = most important; 10 = least important (see Table Four). Top priorities are campaigning to increase understanding of sustainable food within the community, and minimising food waste and using food surplus more effectively. The campaigning aspect aligns with the earlier requirement to educate. Then a more supply-driven focus is apparent with supporting local food producers, increasing sustainable food sourcing in business, and supporting sustainable food businesses. Community growing followed tackling food poverty, increasing sustainable

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10 food sourcing in the public sector, teaching cookery and other food skills, and finally,
11 improving individual health and well-being.

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13 Table Four: Priorities responses

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15 When respondents gave their opinions in response to an open-ended question as to the
16 Partnership's focus for the next 3-5 years, education emerged as the predominant issue. The
17 thematic analysis revealed that other focus areas included community growing, food poverty,
18 food waste and local. The involvement of local government was raised for the first time,
19 followed by issues around sourcing, availability, accessibility, supply chains/distribution and
20 the need for appropriate business and marketing solutions. Respondents opined about what
21 was required to support the longer-term vision (ten years) to be a sustainable food city.
22 Education was highlighted again, together with business marketing solutions and business
23 support. There was a need for a 'seismic shift' in to changing perceptions and attitudes
24 toward sustainable food, reflected in the theme 'seismic shift'. Respondent quotes evidencing
25 this included "a fundamental change in attitudes and awareness", "a change of culture
26 through education and awareness" and "a miracle".- Managing sourcing and availability
27 issues, local government involvement as well as funding, were deemed important along with
28 efficiencies in the food distribution system. Finally, community growing, local and
29 addressing food poverty were considered important in becoming a sustainable food city.

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31 Many of these findings reflect those of Marsden & Morley (2014) noting a need to balance
32 social, economic, and environmental goals for a sustainable food system. Moreover, the
33 theme 'seismic shift' was identified to change attitudes and behaviour, which underpins the
34 nature of a sustainability transition. These findings recognised the requirement to support
35 local producers and businesses and to involve local government. However, these were early
36 days in seeking to influence the latter albeit Board representatives of both councils were privy
37 to these research findings. The Partnership was commencing many of their initiatives and it
38 was too early to evaluate their effects against the current regime of local food procurement
39 and consumption practices.

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41 The first phase-initiative was mainly led by university staff and provided a better
42 understanding of participants' conceptions of sustainable food plus a foundation for future
43 project direction. However, in October 2015 it also became apparent that without a focus on
44 the Partnership's strategic development, given the finite funding and resources available, that
45 the Partnership would not survive. It needed to become independent of both councils and
46 financially sustainable.

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48 **Phase Two: November 2015, aim and methods.**

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50 The second initiative took place in November 2015 and itsThe objectives were to inform
51 future strategic direction and articulate a vision, mission, aims and values for the Partnership.
52 Whilst BU was instrumental in the survey design for the first initiativePhase One, on this
53 occasion the Partnership manager led the activities for Phase Two, with the academics
54 adopting a more supportive role. Specifically, this entailed two workshop sessions, during
55 November 2015, involving paired discussions followed by the production of pictorial outputs

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10 in slightly larger groups. A second workshop with eight participants took place at the end of
11 January 2016, completing the data collection.

12 **Outcomes**

13 **Workshop: Paired Discussions (November 2015)**

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16 Partnership members were invited through email and the website to participate in two
17 workshops to help determine the future vision of the Partnership. These sessions took place in
18 a local community centre, with 43 participants on 3rd November 2015. Five of the 19
19 previously surveyed members, expressing interest in inclusion for future research, attended
20 the workshops. Initially respondents were asked to work in pairs with one group of three to
21 identify what was working well and what could be improved. The answers were analysed
22 using a simple SWOT analysis which helped identify initiatives with which the respondents
23 were familiar. The results from all these discussions revealed the Partnership's progress to
24 date.

25
26 Strengths revealed that professional and community groups and organisations networked well
27 together showing good private and public-sector involvement in a shared agenda. Good
28 project management, relevant experience and knowledge evident with links created with
29 education providers (e.g. primary schools, Poole Grammar School). Fairtrade town status is
30 already achieved. Awareness of the Partnership and sustainability issues is increasing
31 amongst the public and within organisations, however generally awareness levels are low.
32 There is a need to increase awareness of successes (e.g. online Food Assembly [1],
33 community gardens [2], Sustainable Fish City [3], Zero Waste Kitchen Challenge [4]) with
34 both the public and potential new funders; a bigger membership is required with bigger
35 players (e.g. local firms). Promotion and availability of affordable local food needs to
36 increase in the area. Public education is required regarding local food production and
37 sourcing, healthy eating, cooking and food waste. Focus is required on fewer projects given
38 restricted resources and impact can be measured.

39
40 There are future opportunities such working with Food Banks and roof-top gardening
41 however there are significant threats including the abundance of cheap, unnatural and fast
42 foods with an associated unhealthy culture. Little attention is paid to the environmental
43 impact of conventional food production and food miles. There is little infrastructure available
44 for sustainable food and production of economically viable sustainable food is challenging.
45 There is no agenda from government for sustainable food production/consumption and
46 farming subsidy systems are perverse.

47 **Workshop: Pictorial Analysis (November 2015)**

48
49 Following the paired discussions, a pictorial analysis took place where respondents were put
50 into larger groups asked to draw their vision of how they would like to see Bournemouth and
51 Poole in the future as if it was a sustainable city. An example of one picture is shown in
52 Figure One.

53 Figure One: Visioning Picture

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10 In total nine pictures were created, and a synthesis took place of the data including words and
11 visuals. These were grouped into themes which formed the basis for vision and mission
12 development. These themes were visionary and contributed to a series of aims. Some 29
13 separate references were attributable to producing sustainable food, contributing to the theme
14 “wherever I look, food is growing”. This subsequently underpinned an aim to achieve “a city
15 where food is grown and reared in public and private spaces by individuals, community
16 groups and enterprises”.

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18 25 references contributed to the theme "I can always find an affordable, sustainable food
19 option" which underpinned an aim “a city where food is bought, traded and sold through
20 community enterprise and businesses using independent, new and traditional market places
21 and spaces”. 14 references contributed to the theme “everyone understands the impact of their
22 food choices on themselves and the planet around me, by growing and cooking their own
23 food with little or no waste”. This led to the aim to achieve “a city where everyone has food
24 skills and knowledge, feels confident in their food choices, understands sustainable food
25 issues and can access”. 10 references were assigned to a local government theme "planning
26 and regulatory services are supporting me and my community to grow and food businesses to
27 flourish, and my local school and hospital have a predominantly sustainable food offering".
28 This evolved into an aim “a city where governing bodies understand the holistic benefit of a
29 sustainable food system, regulate to support its growth and commit to procure sustainable
30 food whenever possible”.

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32 The references became fewer but those relating to the environment were captured by the aim
33 “a city where residents, especially children, and visitors enjoy sustainable food, surrounded
34 by a verdant and bio-diverse environment”. Some four references revolved around
35 sustainable fish expressed by “being a Sustainable Fish City means I can enjoy eating fish”
36 underpinning the aim “a city where all the fish served is sustainably sourced and local fish is
37 readily available”. A final theme concerned composting and together with earlier research
38 mentions of food waste, reflected the sentiment "I never throw food away". This evolved into
39 an aim to have “a city where businesses and communities minimize their food waste and
40 compost anything left”. An important theme brought forward from [the first research initiative](#)
41 [Phase One research](#) was food poverty, so a corresponding aim was created: “A city where
42 everyone, no matter their situation can readily access sustainable, nutritious food and where
43 food poverty has been eradicated.”

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45 Whilst these aims are aspirational, they support the vision. These were then synthesised into
46 one vision statement which reflected Parikh and Neubauer’s (1993) definition which is to
47 create a more inward-looking image of the organisation’s desired future. It is ‘to grow a
48 flourishing city region where good food and better food choices lie at the heart of every
49 community’. Correspondingly, the mission is more purposeful, determining the nature of the
50 organisation’s business and why it exists (ibid). The Partnership’s mission was therefore to
51 connect, support and enable our food community, helping to grow a thriving food sector and
52 cultivate nourished neighborhoods.

53 **Workshop: Values (January 2016)**

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To support the vision, mission and aims, the Partnership developed a set of values to reflect its ethical stance, principles and standards of behaviour. A workshop with eight participants from the Partnership took place early January 2016. The group were introduced to the purpose of values as a list of key beliefs that would guide the Partnership's operations and help others understand what it stood for. A list of 76 different potential values were presented, with three further ones added by the group themselves. Each individual selected the eight values they felt most represented the beliefs of the organisation to them, and then undertook the process of ranking these in order of importance. These values and their rankings were then combined and analysed to identify the most frequently cited and highest ranked, to provide the Partnership's values. This generated the following values with the groups' qualitative justification for each being captured.

Unity: We strive to connect and unite all our communities together around a shared belief in the value of good healthy food.

Stewardship: We care for, value and preserve spaces for growing, cooking and eating food, food knowledge and culture with honesty and integrity.

Resilience: We work to create resilience across the food sector, building food security whilst remaining a dependable, sustainable Partnership.

Nourishment: We know that food nourishes the mind and soul as well as the body, so we strive to be creative, original and flexible in all that we do to provide real nourishment to all those who work for and with us.

Commitment: We are fundamentally committed to creating a vibrant, socially just and inclusive food sector.

Reflections

These reflections reflect a notion of challenge (Walker *et al*, 2004) in that viewpoints are shared with others with recognition of further issues to be addressed. Members of the university were involved in both ~~phases of~~ research initiatives, contributing to capacity building. The following reflections consider, the nature of this capacity building, the role of university actors working towards creating the transition, the local government actors, and finally the promotion or alteration of current regimes of food procurement and consumption.

The Nature of Capacity Building

This case study illustrates that capacity building involves working collaboratively with partners (Shiel *et al*, 2016), in this case the BPSFCP, where capacity building in the community involves building relationships and sharing knowledge with other community stakeholders. These included Board members, who represent both local authorities, local charities, and leaders of smaller food projects. The University has been a member of the Board since the Partnership's inception and has played an important continuity role as the membership has been shifting and dynamic, exemplified by three Chairs (in a short period) with a variety of experiences.

Capacity building is demonstrated by an external entity (i.e. the University) assisting an institution (i.e. the Partnership) to continuously improve its processes (Brown *et al.*, 2001). University members have helped to inform strategic direction, vision, mission, aims and values. This evolving clarity has provided a base for many successful and innovative projects, helping the region to begin a transition towards a sustainable food city. However, those academic staff who have led and supported developments did so in a volunteer capacity. This requires substantial goodwill and time. Academic staff who engage in capacity building need to be highly committed and resilient to make progress when other stakeholders may be less committed and less used to working in a strategic way.

University Actors

University actors have contributed towards capacity building by specifically focusing on a theme of education around sustainable food. This involved creating a working group to develop regional, national and international links to exchange information, to further research opportunities, to embrace innovation and to disseminate good practice. Human agency from this group was more discernable in comparison to those actors leading other themes within the Partnership such as commercial support and carbon reduction. This was evident from conferences attended, reciprocal visits from other sustainable cities, liaison with DEFRA around becoming a European Innovation Partnership operational group, exploring knowledge transfer partnerships with the university working with the University and disseminating case study information around successful initiatives.

Other projects involved University students such as Waste Less, Save More [5]. Student interns helped deliver the Good Food Accreditation scheme [6] increasing awareness amongst businesses and the public. These projects helped build capacity as they help to provide evidence and build competencies (Spoth *et al.*, 2004) around workable sustainable food solutions. The Partnership spear-headed several live briefs for students, enhancing the curriculum, benefiting learning around local sustainable issues and subsequently generating some creative ideas and solutions. Student internships supporting the Partnership manager, provided work experience, supporting the assertion by Schmitz *et al.* (2010) that community projects provide an ideal environment for student learning.

There are, however, human and financial resource constraints on the ability to build future capacity. There have been many successful bids enabling small projects to be implemented. However, larger funding opportunities remain elusive. These can require investment upfront such as investing in securing planning permission for a roof community and garden project. This is required by a larger funder before they would commit, and the Partnership lacks the available funds.

Creating a transition

To what extent does capacity building result in transitions? The case study reveals that while BU actors have supported a transition of the Partnership itself, there is more to do to

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10 transition towards a sustainable food city. A transition is a structural change and new modes
11 of production and consumption result, with an accompanying set of behaviour changes from
12 the actors involved (Spaargaren and Oosterveer, 2012). Whilst there may be some promising
13 transitional projects such as the online Food Assembly, the findings show it must gain more
14 traction amongst a wider audience. ~~The first research initiative Phase One~~ identified the need
15 for a 'seismic shift' required to change attitudes and behaviours, with ~~the second initiative~~
16 ~~Phase Two~~ continuing to highlight the need for wider public education regarding local food
17 production and sourcing, healthy eating, cooking and food waste. Whilst there has been some
18 focused and cost-effective initiatives implemented, the Partnership lacks the necessary
19 financial resources with which to raise awareness and educate a wider audience. Further, lack
20 of initial funding meant that a baseline for measuring a transition was never established.
21 Capacity building ~~and also~~ transitions, require evaluation with robust measures; these are
22 often missing from one-off projects; without a baseline measuring success is problematic
23 (Shiel *et al.*, 2016).

24 **Local Government actors**

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26 In relation to a transition of this nature, local councils have considerable influence. Within the
27 BPSFCP they have played a largely supportive rather than a proactive role. They provided
28 some initial funding at the outset and Bournemouth Council provided accommodation and
29 support for the Partnership manager but then struggled to determine which department
30 aligned best with the Partnership, resulting in departmental moves, from Economic
31 Development and Sustainability to Housing Enforcement and Communities. This reflected
32 the level of understanding within departments of sustainability (and sometimes a lack of
33 understanding) and how it impacts on their work portfolios. Bournemouth Council has yet to
34 align all of its council practices with the goal of sustainability, creating occasions of internal
35 conflict. This limited the Partnership's ability to influence local government policy albeit that
36 some shifts have occurred, exemplified by the Partnership's Sugar Smart campaign leading to
37 a potential Council policy declaration on reducing sugar. To improve traction within
38 Councils, it would be ideal if there were an individual 'champion' or 'ambassador' in a key
39 position, with a clear understanding of sustainability and sustainable food.

40 **Promotion or alteration of current regimes of food procurement and consumption**

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42 The Partnership has been proactively trying to influence regime change, rather than adopting
43 a supporting role (Stahlbrand, 2016). The research has captured a shared stakeholder
44 understanding of sustainable food and its context to develop strategy. Research findings
45 informed aims and vision; however, these have remained aspirational despite the promising
46 progress of the Partnership. Key to success is the implementation of a mission, which serves
47 to connect, support and enable the food community, helping to grow a thriving food sector
48 and cultivate nourished neighborhoods. To achieve this, solutions need to be found to
49 overcome weaknesses identified in the SWOT, to increase awareness of successful projects
50 and to build and extend membership within the community. This can be assisted by wider
51 public education regarding accessing local food, healthy eating, cooking, and food waste. The
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Partnership's desire to proactively promote and alter the current methods of food distribution and consumption are evident; nonetheless, they lack the resources required to do so.

There are some pockets signaling regime change. The online Food Assembly directly challenges conventional ways of food procurement and consumption albeit it lacks scale to mount any serious challenges against current practice. The key challenge it faces is that consumers are reluctant to change their behaviour regarding collection of their online order, preferring direct delivery, creating further logistical challenges for the Partnership.

Regime change arguably has taken place within the Partnership itself. It has moved from being funded initially by an initial combination of start-up grants, to being self-financing. Grant applications have benefitted from the additional clarity of the Partnership's strategic direction. The Partnership manager has secured additional funding from Sustain, Sainsburys, the Postcode Lottery and the Big Lottery, helping to sustain the Partnership itself.

Conclusions, ~~and~~ Limitations and Implications for further research.

This study contributes to a body of knowledge regarding strategic development as called for by Markard *et al.*, (2012). The Partnership has established promising foundations and fostered a genuine attempt for change, although this may be more incremental, given the resources available. BU has built capacity for the BPSFCP through this research project and ongoing commitment involving fostering effective relationships with community partners. It has helped the Partnership establish strategic direction which in turn, has guided innovative projects that produce evidence and build competencies around sustainable food solutions. Grant applications have benefitted from inclusion of this clear vision, mission, aims and values, enabling the funding of further capacity building projects.

Running such a community project is challenging. There are limitations to the availability of human and financial resources preventing further opportunities to build capacity. Critically, wider public education would increase awareness and the membership. Greater education and knowledge support the Partnership's mission, which is to connect, support and enable the food community, helping to grow a thriving food sector and cultivate nourished neighborhoods.

Whilst there are promising projects that sow seeds of behaviour change, it is early days. The Partnership struggles to establish its own socio-technical system underpinning any fundamental long-term shift, typifying a sustainable transition (Geels *et al.*, 2008; Markard *et al.*, 2012). The Partnership has limited influence with the local council policy. Local government remains in a supportive capacity, needing to determine where sustainability fits within its own strategy. Consequently, agendas occasionally conflict, although frequent communications between parties allow the ability to move forward with some behaviour change from the actors involved (Spaargaren *et al.*, 2012). Transition takes time and local government structures move slowly; regime shift in the short term is ambitious.

The research method used was a descriptive case study method which has limitations but learning from such studies is important for wider transformation for sustainable development

(Sharp 2002) and enables others to consider possibilities and challenges (Shiel et al. 2019). Research reflections have focused on two specific groups of actors, namely those from the university and local government. Future research can include a broader range of actors.

This study contributes to a body of knowledge regarding strategic development as called for by Markard *et al* (2012). The Partnership has established promising foundations and fostered a genuine attempt for change, although this may be more incremental, given the resources available.

Implications for further research

The case study demonstrates that while progress can be made in terms of a journey towards sustainable food at a local level, further research is necessary to identify the multiplicity of factors that facilitate and inhibit progress. Further case studies that demonstrate how capacity building in the community leads to successful sustainable transitions would be helpful particularly case studies which deploy robust measures for evaluation. Although case studies of this nature are not replicable, some of the methods, the findings and implications resulting from this case study can inform other similar contexts. Finally, the case study documents the beginnings of a transition; subsequent research activity exploring broader human agency influences on local food procurement and consumption needs to contribute to Tilbury's (2011) call for longitudinal research.

Footnotes

[1] Online Food Assembly: a new market outlet bringing producers and consumers together through an online ordering system and shared weekly pick-ups to improve access to locally produced food. The Bournemouth Assembly has 937 consumers.

[2] Community gardens: the purpose is to build social inclusion and increased the nutritional value of participants' diets. Gardeners' skills are developed, knowledge shared, and new gardens established in key areas of deprivation.

[3] Sustainable Fish City: the region is the first Sustainable Fish City in the world. It encourages public sector organisations, schools, offices and local businesses to commit to only sourcing fish approved as sustainable. Over 3.6 million fish meals a year in the region use sustainably sourced fish.

[4] Zero Waste Kitchen Challenge: worked with 52 BU student households to reduce their food waste. Through one to one support, food waste kitchen gadgets and a series of cookery workshops students reduced their food waste by 48% and are disseminating their new food skills into the community.

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11 [5] Waste Less, Save More: a community-wide campaign to minimise food waste and enable
12 food surplus distribution. Includes Community Fridges, Cookery Workshops and Feed the
13 1,000 events.

14 [6] Good Food Accreditation scheme: assesses and ranks business across 5 areas of
15 sustainability – local sourcing, sustainable sourcing, food waste minimisation, work with
16 communities and communication. Includes support to improve and promotion through
17 website profiles and merchandise.
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36 References

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38 Ávila, L. V., Leal Filho, W., Brandli, L., Macgregor, C. J., Molthan-Hill, P., Özuyar, P. G., &
39 Moreira, R. M. (2017), "Barriers to innovation and sustainability at universities around the
40 world", *Journal of Cleaner Production*, Vol. 164, pp. 1268-1278.

41 Bournemouth and Poole Sustainable Food City. (2018), available at
42 <http://www.sustainablefoodcity.org/> (accessed 5 February 2018).
43

44 Brown, L., LaFond, A. & Macintyre, K. (2001), "*Measuring Capacity Building*". Carolina
45 Population Center, University of North Carolina at Chapel Hill.
46

47 Coenen, L., Benneworth, P. & Truffer, B. (2012), "Toward a spatial perspective on
48 sustainability transitions", *Research Policy*, Vol. 41 No. 6, pp. 968-979.

49 Defra (2013), "Sustainable Development Indicators", available at
50 https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/223992/0_SDI_s_final__2_.pdf (accessed 5 February 2018).
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2
3
4
5
6
7
8
9
10 Eden, C. & Huxham, C. (1996), "Action research for Management Research", *British Journal*
11 *of Management*, Vol. 7 No. 1, pp. 75-86.
- 12
13 Food and Agriculture Organization of the United Nations (FAO) (2014), "*The State of Food*
14 *and Agriculture: Food Systems for Better Nutrition*", Rome, FAO.
- 15
16 Geels, F. W., Hekkert, M.P. & Jacobsson, S. (2008), "The dynamics of sustainable
17 innovation journeys", *Technology Analysis and Strategic Management*, Vol. 20 No. 5, pp.
18 521-536.
- 19
20 Grace Communications Foundation. (2018), "Local and regional food systems", available at
21 <http://www.sustainabletable.org/254/local-regional-food-systems/> (accessed 5 February
22 2018).
- 23
24 Houston, S. (2010), "Further reflections on Habermas's contribution to discourse in child
25 protection: An examination of power in social life", *British Journal of Social Work*, Vol.40
26 No. 6, pp. 1736-1753.
- 27
28 Jones, P., Selby, D, & Sterling S. (Eds). (2010), *Sustainability education: Perspectives and*
29 *practice across higher education*, Earthscan, London.
- 30
31 Kindling Trust. (2019), "Sustainable Food Definition", available at
32 <https://kindling.org.uk/sustainable-food-definition> (accessed 14 February 2019).
- 33
34 Knowles, T., Moody, R., & McEachern, M. G. (2007), "European food scares and their
35 impact on EU food policy", *British Food Journal*, Vol. 109 No. 1, pp. 43-67.
- 36
37 Leal Filho, W. (Ed). (2010), *Sustainability at Universities: Opportunities, Challenges and*
38 *Trends*, Peter Lang Scientific Publishers, Frankfurt.
- 39
40 Leal Filho, W. (2012), "About the role of universities and their contribution to sustainable
41 development", *Higher Education Policy*, Vol. 24 No. 4, pp. 427-438.
- 42
43 Lockie, S. (2006), "Capturing the sustainability agenda: Organic foods and media discourses
44 on food scares, environment, genetic engineering, and health", *Agriculture and Human*
45 *Values*, Vol. 23 No. 3, pp. 313-323.
- 46
47 Loopstra, R. & Lalor, D. (2017), "Financial insecurity, food insecurity, and disability: The
48 profile of people receiving emergency food assistance from The Trussell Trust Foodbank
49 Network in Britain", available at [https://trusselltrust.org/wp-](https://trusselltrust.org/wp-content/uploads/sites/2/2017/06/OU_Report_final_01_08_online.pdf/)
50 [content/uploads/sites/2/2017/06/OU_Report_final_01_08_online.pdf/](https://trusselltrust.org/wp-content/uploads/sites/2/2017/06/OU_Report_final_01_08_online.pdf/) (accessed 5 June 2018).
- 51
52 Lorenz, U. U., & Veenhoff, S. S. (2013), "Integrated scenarios of sustainable food production
53 and consumption in Germany", *Sustainability: Science, Practice & Policy*, Vol. 9 No. 2, pp.
54 92-104.
- 55
56 Lubin, D. A., & Esty, D. C. (2010), "The sustainability imperative", *Harvard Business*
57 *Review*, Vol. 88 No. 5, pp. 42-50.

1
2
3
4
5
6
7
8
9
10
11 Mader, M., Mader, C., Zimmermann, F.M., Görsdorf-Lechevin, E., Diethart, D. (2013)
12 “Monitoring networking between higher education institutions and regional actors”,
13 Journal of Cleaner Production, Vol.49 pp 105-113.

14 Markard, J. (2011), “Transformations of infrastructures; sector characteristics and
15 implications for fundamental change”. *Journal of Infrastructure systems* (ASCE) Vol.17,
16 No.3, pp. 107-117.

17 Markard, J., Raven, R. & Truffer, B. (2012), “Sustainability transitions: An emerging field of
18 research and its prospects”, *Research Policy*, Vol. 41 No. 6, pp. 955-967.

19 Marsden, T. & Morley, A. (2014), *Sustainable food systems: Building a new paradigm*,
20 Routledge, London.

21
22 Oldenhuizing, J., de Kraker, J & Valkering, P. (2013). “Design of a Quality-of-Life monitor
23 to promote learning in a multi-actor network for sustainable urban development”, *Journal of*
24 Cleaner Production, Vol. 49 pp.74-84.

25
26 Oxfam (2018) “What we do” available at [https://www.oxfam.org.uk/what-we-do/about-](https://www.oxfam.org.uk/what-we-do/about-us/how-we-work/our-goals-and-values)
27 [us/how-we-work/our-goals-and-values](https://www.oxfam.org.uk/what-we-do/about-us/how-we-work/our-goals-and-values) (accessed 10 June 2018)

28 Parikh, J. & Neubauer, F. (1993), Corporate visioning, *International Review of Strategic*
29 *Management*, Vol.4 pp. 105-116.

30
31 Reason, P. & Bradbury, H. (Eds.). (2001), *Handbook of Action Research: Participative*
32 *Inquiry and Practice*, Sage, London.

33 Schmitz, C.L., Stinson, C.H. & James, C.D. (2010), “Community and Environment
34 Sustainability: Collaboration and interdisciplinary education”, *Critical Social Work*, Vol. 11
35 No. 3, pp. 83-100.

36
37 Schön, D. (1987), *Educating the Reflective practitioner: Toward a new design for teaching*
38 *and learning in the professions*, Jossey Bass, San Francisco.

39
40 Sharp, L. (2002). “Green campuses: the road from little victories to systemic transformation”.
41 International Journal of Sustainability in Higher Education, Vol 3 No. 2, pp.128-145.

42
43 Shiel, C. (2007), “Developing and embedding global perspectives across the university”, in S.
44 Marshall (Ed), *Strategic leadership of change in higher education*, Routledge, London and
45 New York, pp.158-173.

46 Shiel, C., Leal Filho, W., do Paco, A, & Brandli L. (2016). “Evaluating the engagement of
47 universities in capacity building for sustainable development in local communities”,
48 *Evaluation & Program Planning*, Vol.54 pp.123–134.

49
50 Shiel, C., Smith, N. & Cantarello, E. (2018), “Aligning campus strategy with the SDGs”,
51 working paper, Bournemouth University, 20 July.

Shiel, C., Smith, N. and Cantarello, E., 2019. "Aligning campus strategy with the SDGs: an institutional case study", in Leal Filho, W., Salvia, A., Bradli, L. and Pretorius, R., (Eds.) *Universities as Living Labs for Sustainable Development: Supporting the Implementation of the Sustainable Development Goals - Volume 1*. Springer (In print).

Smil, V. (2000), "Feeding the World: A Challenge for the Twenty-first Century", MIT Press, Cambridge, MA.

Spaargaren, G., Loeber, A.M.C. & Oosterveer, P.J.M. (2012), Food futures in the making, in Spaargaren, G., Oosterveer, P. J. M., and Loeber, A.M.C. (Eds.), *Food Practices in Transition—Changing Food Consumption, Retail and Production in the Age of Reflexive Modernity*, Routledge, London, pp. 312-337.

Spoth, R., Greenberg, M., Bierman, K. & Redmond C. (2004), "PROSPER Community–University Partnership Model for Public Education Systems: Capacity-Building for Evidence-Based, Competence-Building Prevention", *Prevention Science*, Vol. 5 No. 10, pp. 31-39.

Stahlbrand, L. (2016), "The Food For Life Catering Mark: Implementing the Sustainability Transition in University Food Procurement", *Agriculture*, Vol. 6 No. 3, p.46.

Sterling, S., Maxey, L. & Luna, H. (Eds). (2013), "The Sustainable University: Progress and prospects", Earthscan/Routledge, London and New York.

Sustain, (2019), "What is sustainable food?" available at https://www.sustainweb.org/sustainablefood/what_is_sustainable_food/

Sustainable Food Cities, (2018), available at <http://sustainablefoodcities.org/> (accessed on 5 February 2018).

Tilbury, D. (2011), *Education for Sustainable Development: An Expert Review of Processes and Learning*. UNESCO, Paris.

University of Strathclyde, Glasgow (2017), "Engage with Strathclyde 2017: Making Glasgow a Sustainable Food City", available at https://www.strath.ac.uk/media/ps/estatesmanagement/sustainability/sustdocuments/Engage_Discussion_summary.pdf [accessed 31 January 2019].

van Weenen, H. (2000), "Towards a vision of a sustainable university". *International Journal of Sustainability in Higher Education*, Vol.1 No. 1, pp.20–34.

Velazquez, L., Munguia, N.P.A. and Taddei, J. (2004), "A Sustainable University: What Can the Matter be?"; Environmental Management Sustainable Universities, Monterrey.

Walker, K., Corcoran, P.B, Wals, A. E.J. (2004), "Case studies, make-your-case-studies and case stories: A critique of case-study methodology in higher education". *Environmental Education Research*, Vol. 10 No. 1, pp.7-11

1
2
3
4
5
6
7
8
9
10 Watts, D., Ilbery, B., and Maye, D. (2005), "Making reconnections in agro-food geography:
11 alternative systems of food provision", *Progress in Human Geography* Vol.29 pp. 22–40.

12
13 | Whatmore, S. (2002). *"Hybrid Geographies: Natures cultures space"*. London: Sage
14 Publications.

15
16 Yin, R. K. (2014), *Case study research: Design and methods* (5th edition). Sage, Thousand
17 Oaks CA.

18
19 United Nations (2016) "General Assembly. Seventy-first session. Item 25 of the provisional
20 agenda. Agriculture development, food security and nutrition. Report of the Secretary
21 General", available at
22 http://www.un.org/ga/search/view_doc.asp?symbol=A/71/283&Lang=E/ (accessed 16 April
23 2018).