



### **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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48 Table Four: Priorities responses

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50 When respondents gave their opinions in response to an open-ended question as to the  
51 Partnership's focus for the next 3-5 years, education emerged as the predominant issue. The  
52 thematic analysis revealed that other focus areas included community growing, food poverty,  
53 food waste and local. The involvement of local government was raised for the first time,  
54 followed by issues around sourcing, availability, accessibility, supply chains/distribution and  
55 the need for appropriate business and marketing solutions. Respondents opined about what  
56 was required to support the longer-term vision (ten years) to be a sustainable food city.  
57 Education was highlighted again, together with business marketing solutions and business  
58 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 3<sup>rd</sup> 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

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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.



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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

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	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

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<b>The food in Bournemouth &amp; Poole is sustainable</b>	11.76% 4	20.59% 7	20.59% 7	20.59% 7	11.76% 4	11.76% 4	2.94% 1	34	3.47
<b>People in Bournemouth &amp; Poole are aware of the need for sustainable food</b>	5.88% 2	32.35% 11	20.59% 7	23.53% 8	2.94% 1	8.82% 3	5.88% 2	34	3.35
<b>It is easy to find sustainable food in Bournemouth &amp; Poole</b>	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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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.

12  
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).

22  
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**

32  
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.

40  
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~~ are offered on-in regard to actors and their agency, ~~specifically those from the university and local government who influence~~ specifically those from the university and local government who influence 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.

12  
13 RO3. To inform future strategic direction.

14  
15 RO4. To determine the Partnership vision, mission, aims and values

16  
17 ~~The research involved two phases; the method, case study context, research phases and~~  
18 ~~subsequent outcomes follow.~~

### 19 **Method**

20  
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**

30  
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.

44  
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:

- 50  
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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- 10 3. Building community food knowledge, skills, resources and projects
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- 12 4. Promoting a vibrant and diverse sustainable UK food economy
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- 14 5. Transforming catering and food procurement
- 15
- 16 6. Reducing waste and the ecological footprint of the UK food system

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

### 32 **Taking collaboration forward Research Initiatives**

33  
34 In collaboration with university stakeholders, the Partnership embarked on two research  
35 initiatives, to provide a platform for subsequent activity and future direction. In line with  
36 Walker et al. (2004) the objectives, or purpose, and methods are explained facilitating  
37 replication for future studies. The first initiative commenced in October 2014 and its aim,  
38 method and outcomes of each phase are presented below:

#### 39 **Phase One: October 2014, aim and method**

40  
41 The early-objectives were to assess the current understanding of sustainable local food and  
42 create a shared agenda among Partnership members, to quickly inform future direction rather  
43 than a more sophisticated approach. A survey method was employed, using rating scales, and  
44 open-ended questions which were thematically analysed. 34 members of the burgeoning  
45 Partnership responded to a Partnership newsletter request for survey respondents (7.5%  
46 response rate). They completed a written survey returning this directly to the Partnership  
47 Manager. They reported directly on their understanding of the term ‘sustainable food’,  
48 awareness of other sustainable food schemes, current awareness of sustainable food in the  
49 local area, frequency of purchase of local food items, and priorities and key issues around  
50 sustainable food. This was a small but representative sample, as respondents were typical  
51 sustainable food consumers. Appendix One provides a summary of the questions. Open  
52 ended questions’ responses were coded using a separate spreadsheet using emergent coding;  
53 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.

12  
13 Table Four: Priorities responses

14  
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.

30  
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.

40  
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.

47  
48 **Phase Two: November 2015, aim and methods.**

49  
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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15  
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 3<sup>rd</sup> 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".

17  
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".

31  
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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