Balancing competing policy demands: the case of sustainable public sector food procurement.

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Abstract
A focus on market-based green growth strategies to pursue sustainability goals neglects the pursuit of understanding how human health is interwoven with the health of ecosystems to deliver sustainability goals. The article argues that clarifying the difference between green and sustainable public sector food procurement, with political continuity that supports and enables policymakers and practitioners to take an incremental approach to change, makes an important contribution to delivering more sustainable food systems and better public health nutrition. Five European case studies demonstrate the reality of devising and implementing innovative approaches to sustainable public sector food procurement and the effects of cultural and political framings. How legislation is enacted at the national level and interpreted at the local level is a key driver for sustainable procurement. Transition is dependent on political will and leadership and an infrastructure that can balance the economic, environmental and social drivers to effect change. The development of systems and indicators to measure change, reforms to EU directives on procurement, and the relationship between green growth strategies and sustainable diets are also discussed. The findings show the need to explore how consistent definitions for green public procurement and sustainable public procurement can be refined and standardized in order to support governments at all levels in reviewing and analysing their current food procurement strategies and practices to improve sustainability.

Key words: Sustainable public procurement; green growth strategies; public health nutrition; sustainable diets; EU procurement regulation; urban and regional governments.

1. Introduction
Recognising that food purchasing and catering services, including those in hospitals, care homes, schools, prisons and state companies etc., represent a significant part of public sector procurement budgets, the central premise of this article is that there is a need for clarity about what is meant by ‘green’ public sector food procurement and ‘sustainable’ public sector food procurement. The dominant economic paradigm has led to a growing focus on market-based green growth strategies to pursue sustainability goals and, it is argued, an ecological shift is required in order to further understanding of how human health is interwoven with the health of ecosystems, and to enable policymakers and practitioners to move towards creating more sustainable food systems and better public health nutrition.

Public sector procurement, representing all of the goods and services purchased with public money, represents 13 to 20 per cent of gross domestic product (GDP) in OECD countries, including 17 percent of the EU’s GDP (Evans et al, 2010), while in developing countries estimates are much higher and range from 30 to 70 percent of GDP (Perera, 2012). Procurement has been promoted as one means of reaching environmental goals.
since the 2002 World Summit on Sustainable Development and the Marrakech Task Force (2006-11) developed an approach for implementing sustainable public procurement (SPP) in both developed and developing countries. Since Rio +20 (2012), there has been a renewed focus on SPP as part of green growth strategies. These debates suggest that by purchasing environmentally and socially preferable goods, governments can make significant impacts on green economy transformation as part of sustainable development goals (OECD, 2014; GGBP, 2013). However, some argue that transformation to a green economy - defined as one that results in ‘improved human well-being and social equity, while significantly reducing environmental risks and ecological scarcities’ (UNEP, 2012) - could pose major challenges for governance mechanisms if it is to move the economy in a direction that benefits society as a whole and particularly the poor and vulnerable (Benson, 2014). Others (Garnett, 2014) point out that definitions of sustainability vary, stakeholders can have different priorities within the three ‘pillars’ of sustainable development and distinctions between ‘green’ and ‘sustainable’ can be amorphous.

The article draws on case study research conducted as part of the Foodlinks project that aimed to ‘revalue’ public sector food procurement. It analyses five European case studies where innovative public procurement policies and practices have been successfully implemented and provides an overview of what change is happening across Europe. More explicitly, it analyses how complex relationships and synergies between economic, environmental and social concerns, as determinants of SPP, were balanced, and how the dynamic between policy and practice supported change. The five case studies can be seen as microcosms of change for wider systems of implementation, and the article more broadly examines the relationship between green growth strategies and the emerging discourse on sustainable diets that takes the debate beyond ‘green’ initiatives to the social and equity impacts of healthy food systems and better public health nutrition.

The article begins by reviewing current definitions of ‘green’ and ‘sustainable’ public procurement and discusses how environmental, economic and social impacts are interpreted, ‘measured’ and integrated within current public sector food procurement practice. It then briefly charts the multi-level policy response. The methods section is followed by the case study findings and the discussion looks beyond ‘green’ to include recent change in procurement regulations. Wider systems of implementation are

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1 [http://www.foodlinkscommunity.net/1132.html](http://www.foodlinkscommunity.net/1132.html) (accessed 18 August 2014)
considered and the relationship between green growth strategies and the emerging
discourse on sustainable diets is explored. Key areas for future research are identified,
and concluding remarks are made about future trajectories of green growth strategies
and sustainable diets, and on the significance of the findings for more sustainable public
sector food procurement at all levels of government.

1.1 Green and sustainable public procurement
Although there are numerous definitions for green and sustainable procurement, the
eamples used in Table 1 that provides examples of how green and sustainable public
procurement are defined and distinguished, typifies a lack of clarity between the two
concepts. Green public procurement (GPP) definitions focus on environmental impacts
whilst those used for SPP are at best ‘fuzzy’ and at worst, confusing. The EU website
example illustrates this by including explanatory text on ‘Practical differences’ between
GPP and SPP. This suggests that most EU public authorities prioritise GPP but see this as
situated within the broader context of SPP.

**Table 1: Examples of how green and sustainable public procurement are defined and
distinguished in the literature.**

| Evans et al, 2010 | • GPP focuses only on environmental areas of concern;  
| | • SPP potentially encompasses a range of areas, but largely focuses on social and environmental aspects. |
| EC website2 | • GPP means that public authorities seek to procure goods, services and works with a reduced environmental impact throughout their life-cycle compared to goods, services and works with the same primary function that would otherwise be procured;  
| | • SPP means that public authorities seek to achieve the appropriate balance between the three pillars of sustainable development - economic, social and environmental - when procuring goods, services or works at all stages of the project.  
| | **Practical differences**  
| | • Many public authorities in the EU are implementing GPP as part of a broader approach to sustainability in their purchasing which also addresses the economic and social aspects. |

Moreover, as Ahi and Seurcy (2013) note, the terms ‘green’ and ‘sustainable’ are often
used interchangeably. This could present an illusion of progress towards more
sustainable procurement practices or even an implicit assumption that green
procurement will inevitably result in a shift towards more sustainable procurement. It is
argued that failing to address these inconsistencies could lead to future confusion in the
development of theory and practice (Bratt et al, 2013; Preuss 2007). In addition, Akenji
(2013) suggests that GPP by governments and public institutions is more akin to green

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consumerism (GC) - namely, the production, promotion and preferential consumption of goods and services on the basis of their pro-environment claims (such as eco-labelling schemes, eco-efficient production standards etc.) rather than the promotion of sustainable consumption (SC) where change in consumption behaviour needs to be accompanied by change in infrastructures (social and physical).

1.2 Environmental priorities

One explanation for why there has been less integration and implementation of social and economic impacts in public procurement tenders and contracts is that the development of methods and techniques to measure environmental impacts is more advanced and they are quantifiable. In a recent review of GPP/SPP in nine EU member states plus Norway, Evans et al (2010) found that all case study countries cite the use of environmental life cycle assessment (LCA) (where available) as part of their public procurement strategies but social criteria were not that well established. In his review article on green consumerism, Akenji (2013:13) also suggests that the economic growth dogma that dominates government and market promoted GC is ‘carefully calibrated to not slow down the economy but to operate as a peripheral activity that safeguards only against the most damaging and immediate environmental problems.’

1.3 Economic power and shifting priorities

Others take this further and posit that European public sector food procurement contracts tend to be awarded on the basis of ‘best value’ and ‘the economically most advantageous tender’ (i.e. low cost), with little or no consideration for the effects on human health and the environment of the entire agrifood cycle’ (Morgan and Sonnino, 2008). Some recent research (OECD, 2012) suggests that not only is there a lack of professionalization in procurement (with it being regarded as an administrative rather than strategic objective), but also that risks and opportunity costs are rarely assessed when using it as a policy lever to support socio-economic and environmental objectives. However countering this, a growing body of literature on cities as environmental leaders is emerging (Puppim de Oliveira et al, 2013) alongside research that identifies local governments as key players for ‘greening’ public procurement (Nogueiro and Ramos, 2014). Although Perera (2012) notes that proliferation of standards, claims and labels in the green product marketplace has exacerbated confusion amongst procurement officers.
1.4 Integrating social and health priorities

Another body of work examines how the role of small businesses (SMEs) as suppliers to public authorities has not only environmental benefits through provision of green products or technology, in particular for the procurement of organic food, but also for local economic development, especially in low-income areas (Walker and Preuss, 2008). Others explore the benefits to local economies of green purchasing that focuses on social and economic benefits associated with more sustainable and better quality food procurement and its benefits for public health (Morgan 2015; Sonnino, 2009). This knowledge that governance systems can empower local actors, including small-scale producers and suppliers, has reinforced recognition that dietary change at the population level requires more than ‘green’ options, including the need to manage supply chains sustainably (Lang and Barling, 2013). There is an emerging food policy discourse on the relationship between nutrition and sustainability. Recent debates (Lang, 2014; Macdiarmid, 2013) have focussed on the concept of a ‘sustainable diet’ that ‘promotes environmental and economic stability through low-impact and affordable, accessible foods, while supporting public health through adequate nutrition’ (Johnston et al, 2014:420). To date, most of this work is driven by the environmental agenda, and the challenge is how to make food production more environmentally sustainable and resilient while paying greater attention to nutritional quality (Garnett, 2014). Key components of a sustainable diet include eating less meat and only sustainable or certified fish. It also includes storing vegetables (where possible) and eating perishable produce in season. Eating less sugar and minimizing food waste are other key components (ibid.).

These multiple dimensions for creating more sustainable public sector food procurement raise enormous challenges for policymakers and practitioners and, following Puppim de Oliveira et al, 2013 who suggest that sustainability begins with political ambition, the next section charts the policy response.

1.5 The policy response

At the global level, the recent emphasis on green growth strategies has resulted in newly negotiated text for the international WTO Global Procurement Agreement (GPA, April 2012) that includes environmental characteristics as indicative evaluation criteria for government procurement. However, as de Schutter (2014) points out, there is no

3 https://www.ustr.gov/sites/default/files/GPA%2020113%20Decision%20on%20the%20outcomes%20of%20the%20negotiations%20under%20Article%20XXIV%207.pdf Accessed 24 November 2014
binding international definition on what constitutes a SPP scheme. There has also been a parallel policymaking response at the EU level where GPP has re-emerged as a key objective of the new Europe 2020 strategy to help support the shift towards a resource efficient and low-carbon economy. In February 2014, new directives for the reform of public procurement were adopted to support these policy objectives and harmonize GPP within Europe.4 These aim to address a perceived lack of clarity about how to take social and environmental criteria into account in the old directives (2004/17 and 18) and ensure greater inclusion of common societal goals in the procurement process, including environmental protection, social responsibility and public health. The new provisions include simplified rules and procedures, the right to value social considerations when evaluating tenders, the use of labelling, and life cycle costing.

The EU reforms could improve access to markets for small food producers and SMEs through more opportunities for public sector food procurement contracts. Firstly, simplified rules and procedures should enable public authorities to use more contract ‘lotting’ - where large contracts for food commodities are divided into more manageable lots that make tendering a possibility for SMEs. Secondly, by widening the range of criteria (including environmental, social and labour requirements) through life cycle costing that defines the object of procurement, the reforms could expand how public authorities make decisions for awarding contracts when assessing which tender is the most ‘economically advantageous’ (see also Morgan and Sonnino, 2008 and the case of East Ayrshire (below)). Finally, commitments made at the national level, as a primary determinant of the extent to which SPP is implemented (Brammer and Walker, 2011), could increase more sustainable food procurement at the local level. For example in Scotland, SPP is at the heart of the Procurement Reform Act (2014) and enshrines the duty of sustainable procurement within its legislative framework, and new Guidelines for NHS catering (currently out for consultation) could make Scottish hospitals legally obliged to serve more nutritious meals to patients.

As has already been noted, there has been more practical implementation of SPP at regional and city levels. This has been driven by local politicians and by recent policy developments associated with initiatives that aim to promote healthy and sustainable food to the public through more sustainable public procurement initiatives. These include local governments promoting strategies to ‘green’ their local economies and

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adopting environmental purchasing plans, practices and tools (Nogueiro and Ramos, 2014; Testa et al, 2014) and that also make links to regional development and entrepreneurship (Preuss, 2011).

2. Methods

Set within this contextual background, the Foodlinks research programme (2011-2013) experimented with knowledge brokerage activities (KBAs) to promote more sustainable food systems using the concept of communities of practice (CoPs). European scientists, policy officials, practitioners and civil society organisations participated with others interested in urban food strategies, short food supply chains and/or public sector food procurement in three CoPs. The research covered in this article focuses on the activities of the public sector food procurement CoP – with an ‘internal’ membership of 12 project partners from six European countries and nine organizations (scientists (8) and policy officials (4)) and ‘external’ others from outside the project, including civil society organisations.

2.1 The notion of the Community of Practice in Foodlinks

Lave and Wenger’s (1991:98) seminal work on CoPs acknowledges that although those involved have different view-points, coherence comes from “participation in an activity system about which participants share understandings concerning what they are doing and what that means for their lives and for their communities.” Although the CoP was established and built up in a pragmatic, slightly artificial way (being a process of project activity, rather than emerging naturally around a topic between those with a shared interest in its purpose), the CoP acted as an arena for exchange and investigation of public procurement dynamics, logistics and standards around sustainable food and learning. Knowledge brokerage activities brought scientists (academic researchers) and policy officials together with others to build learning communities using a range of embodied and virtual knowledge brokerage tools. These created both face-to-face interaction and online virtual arenas that enabled members to experiment with and develop new ways of sharing and brokering knowledge that were relevant for their work ‘on the ground’ (for full details of the CoP process and activities, not included within the focus of this article, see Smith and Barling, 2013).

Wenger et al. (2002) highlight three defining features of a CoP: (i) the domain (theme) - the reason for people to come together; (ii) the practice - the framework, ideas, tools,
styles that people share; and (iii) the community - the importance of continued interaction, to build relationships and trust for effective collaboration and thus, for the performance of the CoP. As the Public Procurement CoP became established, it became clear that cultural approaches and political solutions to sustainable food and its public procurement differed throughout Europe and this raised questions about its performance. There was agreement that the CoP required a unifying aim (a framework for collaboration) to exchange knowledge and practical experience and, importantly, to build relationships, trust and continuity of interaction between the different stakeholder groups that came from municipal administrations, urban, regional and national governments, European platforms, civil society and the wider academic community. This recognition resulted in the decision to use KBAs to collaborate on a report, Revaluing Public Sector Food Procurement in Europe: an action plan for sustainability5 (Barling et al, 2013). This report was built around case studies of innovative public sector food procurement practice that were drawn from CoP members’ own experience and that also included a two-step Action Plan to encourage urban governments and municipal administrations to take up the challenge of more sustainable purchasing practices.

2.2 Data collection and analysis

Data collection for the report began with CoP members’ proposals for case studies via a ‘wiki’6 on a web-based platform (seven were suggested); five case studies offered possibilities for in-depth analysis and were selected. The report was written as a joint collaboration over 15 months using the ‘wiki’ as an on-line tool; this involved CoP members who had proposed the case studies posting information under a set of prescribed headings: i.) what change was happening; ii.) the driving forces that made change possible; iii.) what aspects of sustainability had been prioritized and why; and iv.) the main challenges encountered. Other CoP members responded to the postings, posed questions and made suggestions for the case study ‘initiators’ to respond to on the ‘wiki’; this built the case study data in a dynamic way and provided a successful means of virtual engagement and interaction between members around a shared knowledge-based activity. In the final stages of publication, editorial oversight was provided by the project co-ordinators.

6 Wiki software is a type of collaborative software that runs a wiki system, allowing web pages to be created and edited using a common web browser.
The process of semi-structured data collection on the ‘wiki’, where data were sifted and refined through the challenges, questions and insights offered by CoP members, offered a collaborative way of balancing complexity and coherence. Extraneous details could be omitted, and the method also provided a degree of oversight that helped ensure key points were not overlooked. The process provided a rich data source for analysis, including references to secondary sources (academic articles, reports, websites etc.), and included the forces that were driving SPP (political, environmental and social) and, importantly, insights into how SPP was being implemented ‘on the ground’.

2.3 Case Studies

Reflecting the growing role of cities in the development of more sustainable food systems, the case studies demonstrated innovative public sector food procurement initiatives in four European cities - Malmö (Sweden), Rome (Italy), Copenhagen (Denmark), and Vienna (Austria); and in one region - East Ayrshire (Scotland). The background for each case study, including the scale and scope of the initiatives, details of targets met, and key impacts and outcomes of SPP implementation, includes a mix of environmental impacts (e.g. reductions in GHG emissions, increased percentages of organic food procured), the role of new City Governments as a catalyst for change, and the application of Social Return on Investment (SROI) (Table 2).

Table 2: The background and basic data on the public sector food procurement initiatives used as case studies.
source: adapted from Barling et al, 2013

<table>
<thead>
<tr>
<th>Case Study</th>
<th>Key Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malmö, Sweden</td>
<td>City of 300,000 inhabitants, change in public sector food procurement began in 1997 with an increase in purchasing of organic food. Major change took place in 2010, when through a participatory process, a policy for Sustainable Development and Food was approved by the local government council. The policy aims to deliver good food of high quality in all public canteens and has targets for all food served in the city to be certified organic by 2020, with greenhouse gas emissions (GHG) related to food cut by 40 percent by 2020, compared to 2002 levels. At the end of 2012, 40 percent of the food budget (about nine million Euros) was spent on organic food.</td>
</tr>
<tr>
<td>Rome, Italy</td>
<td>The city of Rome, Italy feeds 150 thousand school children for 190 days per year, serving almost 150 tons of food per day. Food served in schools has undergone a ‘quality revolution’ since 1999 when a national law (Finance Law 488), reinforced by the personal interest of a Green Party mayor, created a regulatory context that encouraged many municipalities to introduce organic procurement for school canteens. School meal costs are met by a combination of fees paid by parents and municipal budgets. In the latest tendering process for the period 2013-17, the target for organic food procurement remains at 70 percent. New criteria include an emphasis on local products, sourcing produce from social co-operatives, the reduction of energy consumption, and the re-use of leftovers from school canteens.</td>
</tr>
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</table>

Organic food on the public plate has been on the political agenda in Denmark since the 1990s as part of a

sustainable food strategy. The city of Copenhagen has an annual food budget of 40 million Euros and 17,500 kitchen employees prepare 60,000 meals on a daily basis. Since 2009, the Organic Programme has been administered by the Copenhagen House of Food, as an independent, non-commercial foundation. The city aims to achieve 90 percent procurement of organic food by 2015. The programme has been partly supported by government strategy to develop public catering as a market for organic foods.

East Ayrshire, south-west Scotland, is a mix of urban and rural areas. It has a population of 120,000 with higher than average levels of deprivation. East Ayrshire Council has developed and operated innovative procurement practices, prioritizing unprocessed, local and a proportion of organic ingredients for its school meals service since 2004. Procurement favours limiting the number of suppliers and building economies through scale. A key factor for change in East Ayrshire has been to configure/lot the contracts on a manageable scale that enables small and medium enterprises (SMEs) to bid for contracts. A study based on an average size local primary school (300 children) found that annual savings of 37.7 tonnes CO² or 10.2 carbon (transport/distribution saving) had been achieved by localizing the supply chain. A further study using the Social Return on Investment method (SROI) calculated £6 value was returned to the local economy for every £1 spent on the project.

The City of Vienna supplies food to around 85,000 people in hospitals, schools, kindergartens and nursing homes for the elderly. The 'ÖkoKauf Wien' ('EcoBuy') programme, with targets for organic food procurement, was launched as part of the Vienna Climate Protection Programme in 1999. For kindergartens and for 90 schools offering after-school care (30,000 thousand children per day) the percentage of the overall spending on organic food has already reached more than 50 percent and more than 90 percent for dairy products. Overall responsibility is with the Department of Environmental Protection but there is cross-departmental coordination through thematic working groups with members from local authorities, NGOs, municipal administrations and companies, and includes public procurement practitioners from all parts of the administration. The city of Vienna saved €44.4 million and over 100,000 tonnes of CO2 between 2001 and 2007 through its 'EcoBuy' programme.

3. Results

Detailed analysis of the driving forces that led to the implementation of SPP (Table 3) shows how all five case studies implemented SPP as part of wider political strategies, and that effective facilitators at political, administrative, cultural and commercial levels were crucial for building the context. Following the Attitudes-Facilitators-Infrastructure (AFI) framework proposed by Akenji (2014), this included: supportive politicians (national and local), procurement officers and catering staff; a cultural context that supported changing provisioning routines and practices; and innovative criteria for awarding contracts that acknowledged the socio-environmental quality of the products and services offered. Appropriate infrastructure was also crucial for supporting change, such as clear political goals, the allocation of funding to support these processes within an established timeframe, and cross-departmental commitment and cooperation.

Analysis also demonstrates a split between cities where transition to more sustainable procurement began with GPP – for example, tie-in with other initiatives to reduce GHG emissions (Malmö), protecting groundwater from pesticide residues (Copenhagen), and Vienna’s Climate Protection Programme – and others (Rome and East Ayrshire) that adopted a more holistic approach to sustainability from the outset, with more direct links to social and ethical outcomes. This observation suggests that how legislation is enacted at the national level and interpreted within political strategies at the local level
is a key driver for SPP. For example, although change in Rome began with national legislation that encouraged organic food procurement, the city adopted an inclusive and incremental approach and used a broader interpretation of what constituted ‘quality’ meals in its local schools, incorporating healthy food, local community commitment and public health education. Likewise in Copenhagen, where tools and regulations existed to meet minimum standards for GPP at the national level, there was also evidence that voluntary action and collaboration at the municipal level and between sectors resulted in more sustainable procurement practices. These practices made the link between training for procurement officers and canteen staff, menu planning and the procurement of ingredients to support healthy eating and more sustainable diets, with public education that aimed to encourage more widespread take-up beyond the public sector canteen.

Table 3: The driving forces that led to the implementation of SPP in the case studies.

source: adapted from Barling et al, 2013

<table>
<thead>
<tr>
<th>Case study</th>
<th>Dept. responsible</th>
<th>Political forces</th>
<th>Environmental forces</th>
<th>Social forces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malmö</td>
<td>City of Malmö’s Service Dept. and Environment Dept.</td>
<td>- political will to change; - policy adopted across all service depts; - funding for training.</td>
<td>- tie-in with other city initiatives to reduce GHG emissions.</td>
<td>- involving those who prepare the food to ensure support for changing consumption routines and practice.</td>
</tr>
<tr>
<td>Copenhagen</td>
<td>Copenhagen House of Food, an independent, non-commercial foundation.</td>
<td>- clear political goals and time frame for implementation; - finance allocated to support the process of change.</td>
<td>- need to protect ground water resources from pesticides; - targets to reduce CO² emissions.</td>
<td>- creating food literacy among children and young people; - advocating more sustainable and healthy food consumption.</td>
</tr>
<tr>
<td>Vienna</td>
<td>Overall coordination: Dept. of Environmental Protection of the Municipality. Programme coordination: General Directorates of the Viennese Municipality.</td>
<td>- commitment and cooperation of government officials across departments; - development funding available; - international recognition.</td>
<td>- Vienna’s Climate Protection Programme.</td>
<td>- motivating more sustainable purchasing amongst procurement officers; - motivating chefs to cook from scratch.</td>
</tr>
<tr>
<td>Rome</td>
<td>Municipality of Rome</td>
<td>- political will to change; - inclusive and incremental approach.</td>
<td>- national law (1999) created regulatory context that encouraged organic procurement at municipal level.</td>
<td>- broader interpretation of ‘quality’ meals; - innovative award criteria developed the socio-environmental quality of the products and services offered; - food education.</td>
</tr>
<tr>
<td>East Ayrshire</td>
<td>East Ayrshire Council</td>
<td>- national policy and legislative support; - ‘joined-up’ policy-making and local community strategy.</td>
<td>- strategy to promote environmental sustainability through emphasis on local food products.</td>
<td>- addressing health inequalities; - food education re: impacts on health and the environment; - building local economies.</td>
</tr>
</tbody>
</table>
3.1 Integrating GPP and SPP priorities

Table 4 details the relationships and synergies between environmental, social/health and socio-economic criteria that took place 'on the ground'. Environmental criteria, including less meat and organic and seasonal fresh food, were pivotal in all cases. However, these criteria did not stand alone in a 'green' purchasing box but were infused with social factors, such as criteria for sourcing fair trade products, and ingredients with high animal welfare standards and from sustainable fisheries. There were also 'trade-offs' that balanced the environmental, social and economic costs. For example, school canteens in Malmö reduced the amount of meat served and replaced it with more seasonal fruit and vegetables.

Social criteria were split between those directly concerned with diet and health to improve the quality of food served and raise nutritional standards, and others associated with socio-economic factors that affected those working within public sector catering facilities, such as education and training for catering staff and better employment practices; and others related to wider impacts, including education to raise public awareness, impacts on the local and regional economy, and fair trade.

Table 4: Details of the relationships and synergies between environmental, social/health and socio-economic criteria that led to practical implementation of SPP 'on the ground'.
source: adapted from Barling et al, 2013

<table>
<thead>
<tr>
<th>Case Study</th>
<th>Environmental criteria</th>
<th>Social/health criteria</th>
<th>Socio-economic criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malmö</td>
<td>- certified organic food and associated environmental benefits; - less meat; - sustainable fishing; - seasonal food.</td>
<td>- healthy food of high quality in all public canteens.</td>
<td>- budgets for training catering staff; - continuous work with and training for catering staff about why and how they should change their way of purchasing and cooking; - sourcing of fair trade products.</td>
</tr>
<tr>
<td>Copenhagen</td>
<td>- organic food procurement targets; - less meat; - more fresh, seasonal and local vegetables and fruits; - less food waste.</td>
<td>- healthy food as part of the urban sustainable development programme.</td>
<td>- education and training for catering staff – the principle of the ‘Organic Kitchen’.</td>
</tr>
<tr>
<td>Vienna</td>
<td>- organic production; - no genetic modification; - less meat; - seasonal and organic fruit and vegetables; - fish from sustainable sources; - no packaging of meals.</td>
<td>- emphasis on healthy eating; - 'naturally good plate' that includes one third regional ingredients and high animal welfare standards; - reduction of trans-fatty acids.</td>
<td>- emphasis on regional impacts; - sourcing of fair trade products.</td>
</tr>
<tr>
<td>Rome</td>
<td>- mandatory list of organic products; - seasonality and</td>
<td>- PDO/PGI products; - varied and nutritious menus</td>
<td>- criteria and budgets to improve kitchens and eating environments; - education projects involving</td>
</tr>
</tbody>
</table>
3.2 Challenges

The findings underline the importance of maintaining political continuity in order to reach SPP policy goals. One key challenge was the interpretation of EU regulations on procurement contracts. Practical implementation meant preparing tenders to meet EU requirements whilst adapting strategies to local and cultural contexts and calibrating demand and supply of food ingredients. Valuing social (social/health and socio-economic) considerations when evaluating tenders was not made easy because of strict rules on awarding contracts on ‘best value’ and ‘the economically most advantageous tender’ (i.e. low cost). In order to overcome these market-led constraints, there was evidence of an incremental approach to change that shifted food procurement and menu planning towards healthy outcomes in all the case studies, with innovative practices that did not breach EU regulations. Examples included: dividing tenders for major ingredients into smaller product ‘lots’ to enable smaller producers and suppliers to bid for contracts (e.g. East Ayrshire); and the incorporation of specific characteristics required in foods, such as certified organic (e.g. Malmö).

In addition, the findings also reveal how budgetary constraints were a challenge, especially when the cost of ingredients increased. Implementing and maintaining innovative and more sustainable procurement practices stretched from production to consumption, including: maintaining sufficient supplies; ensuring that SMEs maintained competitiveness, could manage distribution, and tender for contracts; ensuring that catering companies remained financially viable in the period of adjustment; and encouraging ‘spill over’ into private consumption practices. SPP was also bound up with technological capabilities, including countering the use of cook and chill systems, and with building on-site kitchens and changing fundamental principles and routines in catering facilities.
4. Discussion

The findings reflect the reality of devising and implementing innovative approaches to more sustainable public sector food procurement in Europe, the effects of cultural and political framings within national contexts, and the difficulties of practical implementation. The CoP provided the means for members to exchange and revalue their knowledge about public sector food procurement. The joint collaboration in researching and constructing the case studies provided a strong sense of ownership and was a helpful device for demonstrating the reality of SPP implementation ‘on the ground’.

Recent policy reforms to support the renewed focus on green growth strategies and the emerging discourse on nutrition and sustainability raise questions about ‘measuring’ progress within wider systems of implementation; the next two sub-sections explore this within the context of life cycle assessment methodologies, EU legislative reform, and sustainable diets.

4.1 Beyond ‘green’

The case studies demonstrate how public procurement can lead to quantifiable outcomes (e.g. through lower GHG emissions) and there is evidence that initial financial outlay had been countered by savings made in other areas, supporting Rimmington et al’s (2006) argument that ‘what gets measured gets managed.’ However, systems and indicators require further development if they are to incorporate full life cycle costs that are tailored to local contexts and that are not too complex to manage within urban governments, if progress is to extend procurement beyond green purchasing and create more sustainable food systems and better public health nutrition. As has already been recognised, methods and techniques to measure environmental impacts of products using LCA are more advanced and the evidence base is stronger, whereas system boundaries for ‘measuring’ the environmental footprint of organisations as procurer are only in the early stages of development (Pelletier et al, 2014), as are methodologies that integrate social impacts into LCA methodologies (Smith and Barling, 2014).

Equally, although the dynamic between policy and practice is constantly evolving as urban governments assume more authority and responsibility for sustainable development, the findings show that transition to more sustainable procurement is very dependent on political will and leadership and an infrastructure that is able to balance
the complexity of the inter-relationships between economic, environmental and social drivers to effect change. The reforms to EU directives on procurement (2014) - that aim to address the perceived lack of clarity between social and environmental criteria - must be implemented at the national level by April 2016. These new rules and procedures, including the right to value social goals when evaluating tenders and the use of full life cycle costing, pick-up on innovations implemented by urban governments in the case studies. However, given the overall market-led EU policy framework, a lack of political ambition to move beyond GPP appears likely to remain in the foreseeable future.

4.2 Impacts on nutrition and public health

All the case studies demonstrated an increase in the procurement of better quality food, including organic, seasonal and local fresh food. This is in-line with current discourse on sustainable diets to promote foods with less environmental impacts and eating perishable produce in season. However, there were anomalies, such as when the ‘trigger’ for change came from environmental initiatives (Malmö, Copenhagen and Vienna). In these instances, meeting organic ‘targets’ often meant sourcing imported food through central suppliers that resulted in ‘trade-offs’ between environmental, social and economic costs. As Akenji (2013) puts it, these differences between GPP and SPP might seem semantic, but for policy makers and practitioners these ‘trade-offs’ have serious implications for interpreting more sustainable food procurement and for implementing processes and practices associated with sustainable diets.

5. Conclusions

The findings underline the need to explore how consistent definitions for green and sustainable public sector food procurement can be refined and standardized in order to support governments at all levels in reviewing and analysing their current food procurement strategies and practices to improve sustainability. Clarifying the difference between GPP and SPP, with political continuity that supports and enables policymakers and practitioners to take an incremental approach to change, would make an important contribution to delivering more sustainable food systems and better public health nutrition.

The research shows that there is a scarcity of data and indicators for SPP and there is a need for further research studies to gather empirical data in order to compile an evidence base on the scope and scale of food procurement schemes. This includes the mechanisms employed (what works), the tangible benefits for sustainability and how
these are extended and mobilized in the wider society.

More broadly, the future trajectories of green growth strategies and sustainable diets need to converge in order to further understanding of how human health is interwoven with the health of eco-systems and deliver sustainability goals.

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