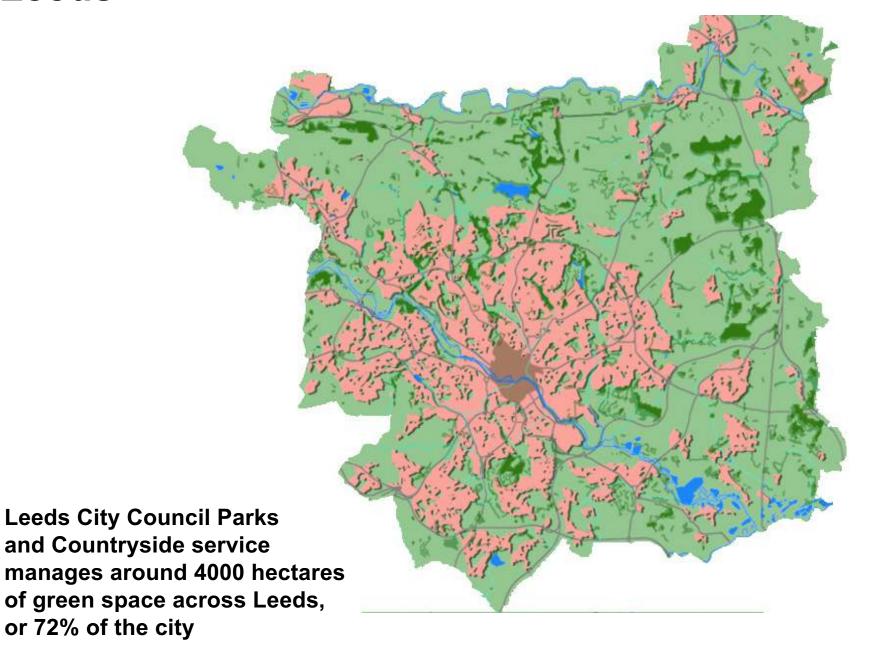
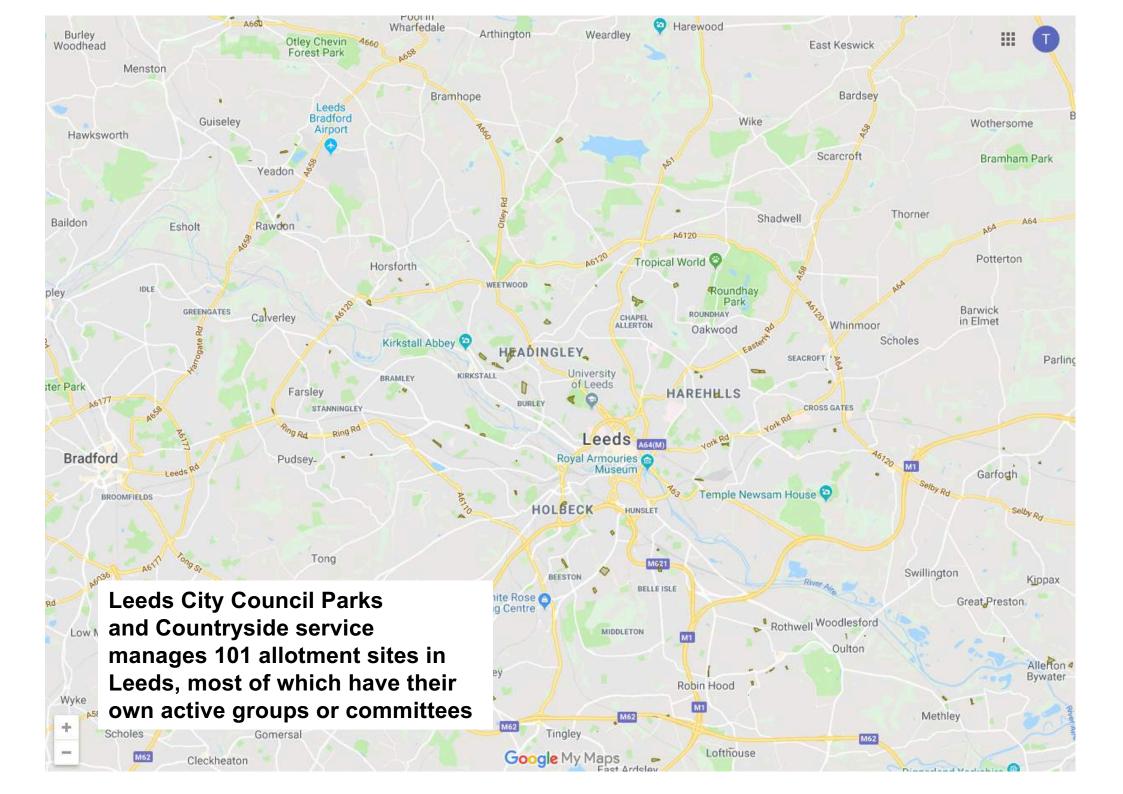
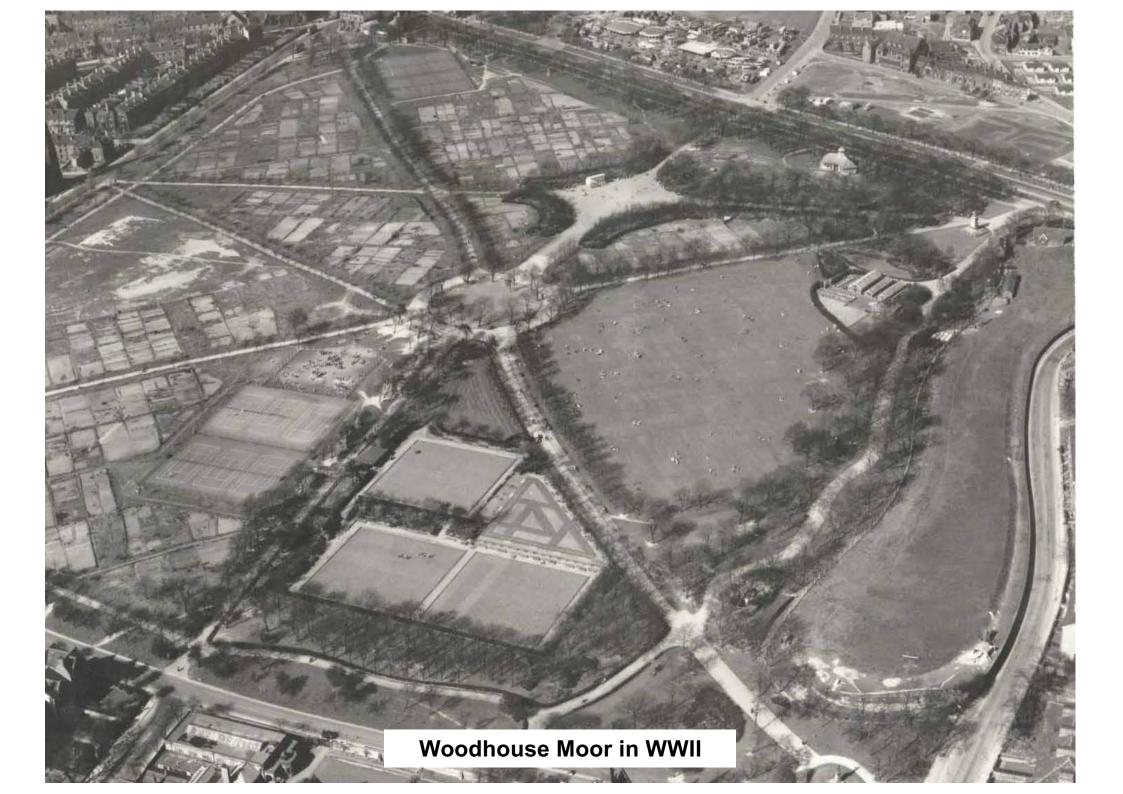


Leeds









Community Food Growing in Leeds

Meeting, 14th December 2011 9.30am – 11am Farnley Hall, Farnley Park, Hall Lane, Farnley, LS12 5HA







Feed Leeds is a network of individuals and organisations working in partnership to support local food growing (at home, in allotments, at schools, in community projects or commercially) for its social, economic, environmental and health benefits, and to promote healthy, sustainable and affordable food in Leeds.



77 member organisations, monthly meetings, lobbying, connecting

















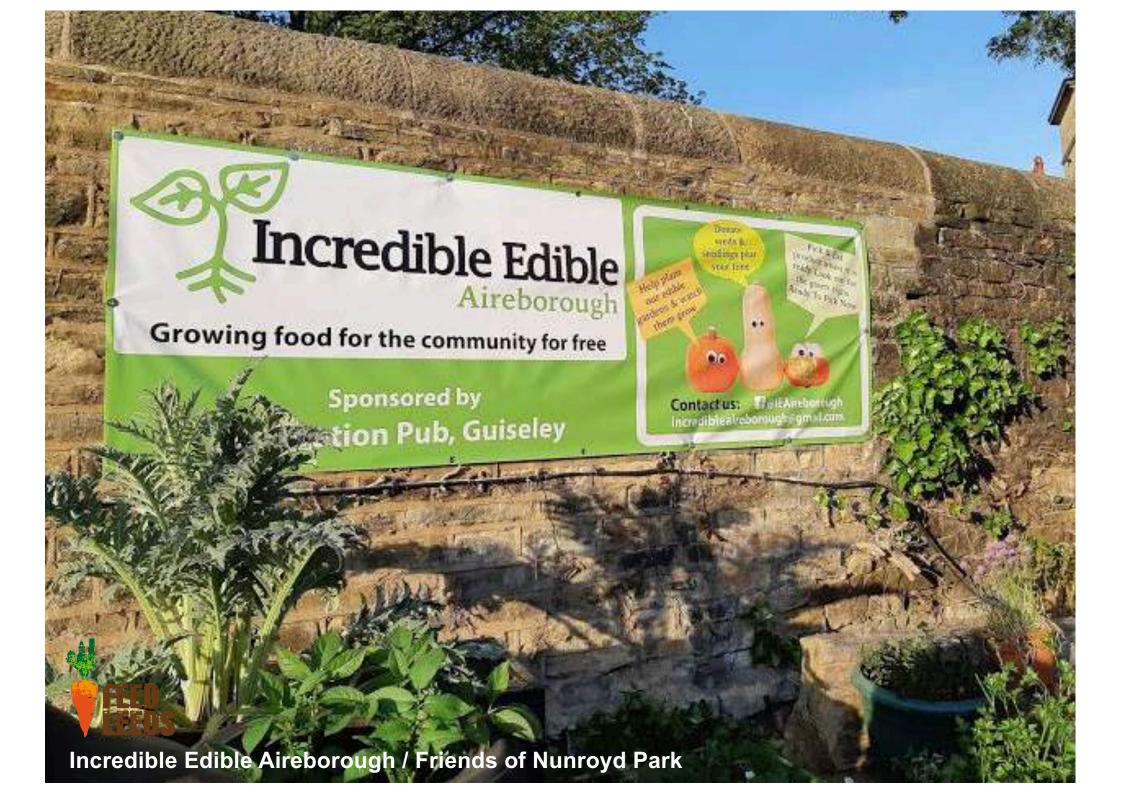




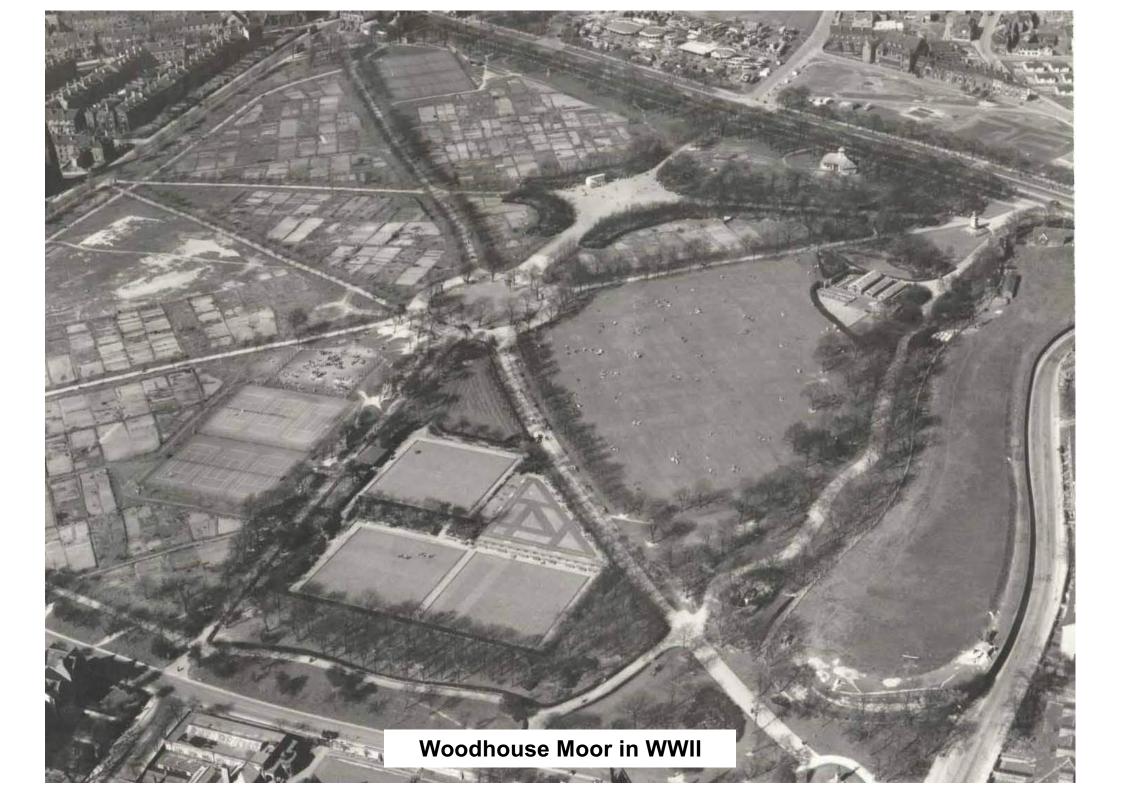




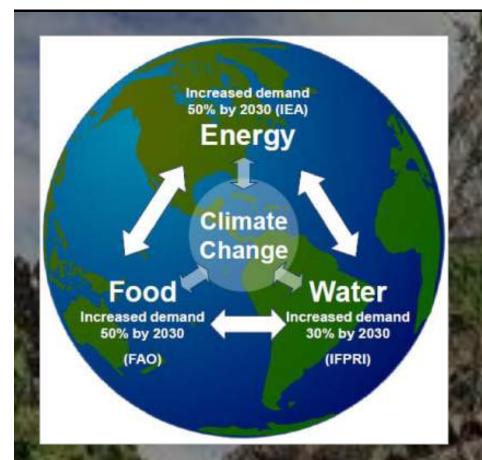












Paris Accord 2015
Must not exceed 2°C warming
over pre industrial levels
or, ideally, 1.5°C

IPCC SR15 Sept 2018

Must halve emissions by 2030
to have a chance of achieving 1.5°C

Professor Piers Forster

United Bank of Carbon

Committee on Climate Change

Priestley International Centre For Climate



"The Perfect Storm" by 2030

Former Government Chief Scientist
Sir John Beddington 2009



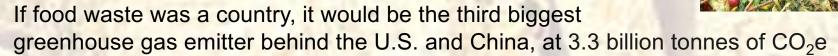
Climate change +
Resource depletion +
Economic chaos



7 billion people on the planet (for now)
We grow enough to feed 10 billion
But we waste 1/3 of what we produce

If food waste was a country, it would be the third biggest greenhouse gas emitter behind the U.S. and China, at 3.3 billion tonnes of CO₂e

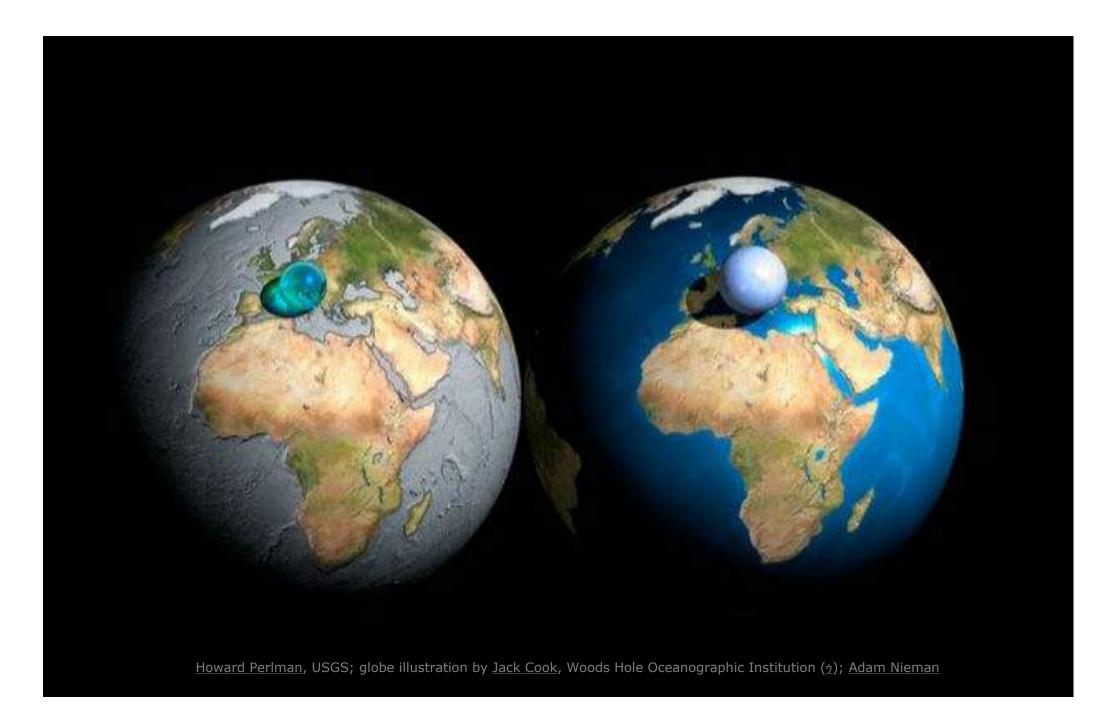
7 billion people on the planet (for now)
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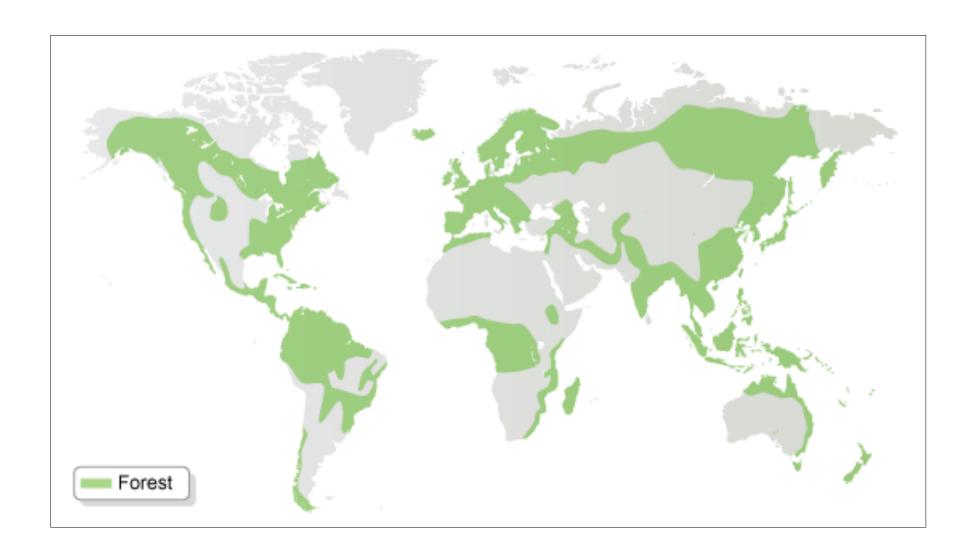
Land is under stress from climate change, pollution over-development, soil degradation etc.

Need to maximise tree cover to capture CO₂

All the water and air on Earth



Forests 8000 BC

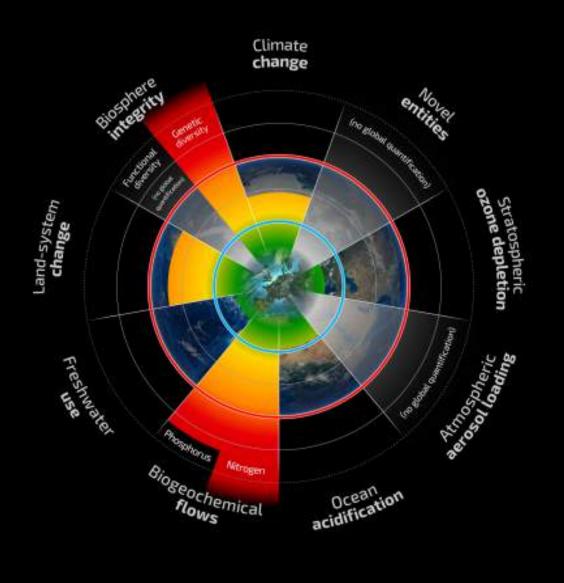


Forests 2000 AD



Planetary Boundaries

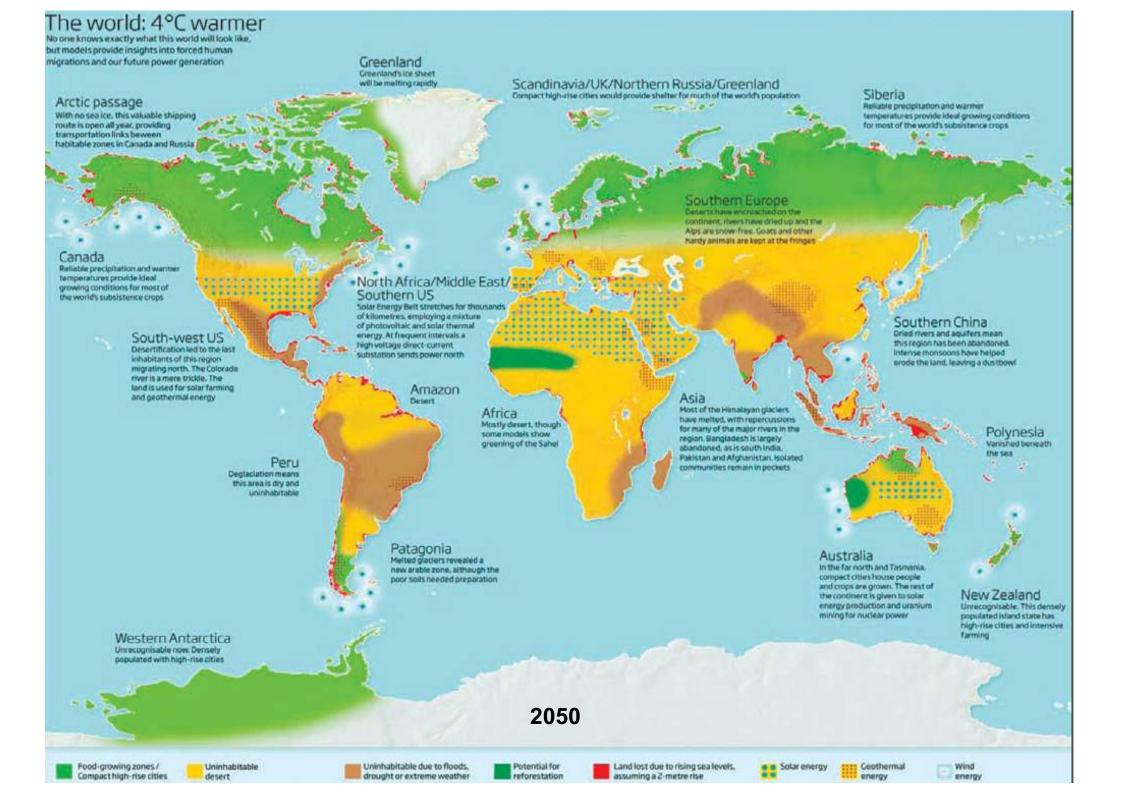
A safe operating space for humanity



Beyond zone of uncertainty (high risk)
 In zone of uncertainty (increasing risk)

Below boundary (safe)
 Boundary not yet quantified

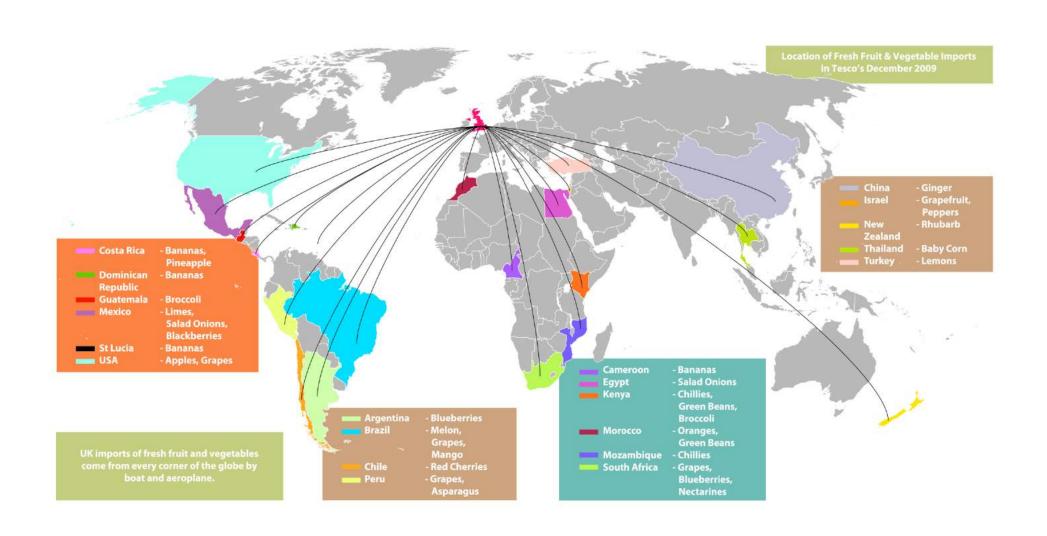
Source: Define at all Planetury Sourchains: Guiding human blewbapment on a changing planet. Spinete, 16 January 2005.





Farmers cant grow all of your fruit and vegetables. Help your community grow enough to meet its needs.

Location of Fresh Produce Tesco December 2009



2015: Volume of global grain trade passing through key chokepoints Key Inland And Coastal Maritime

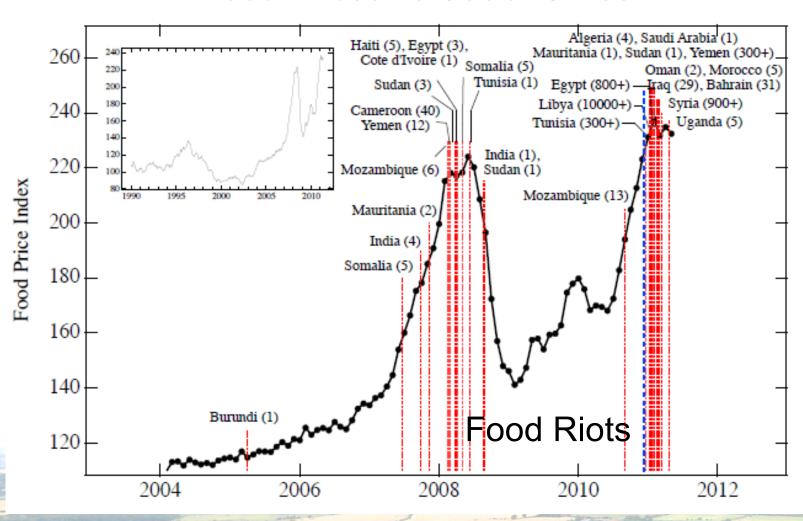
A disruption at one or more of these chokepoints could have major impacts. Global food prices, supply in local markets, the livelihoods of traders and farmers, and the provision of food aid to vulnerable communities all depend on the continued movement of goods across borders and oceans.

Chokepoint disruptions: Examples of disruptions between 2002 and 2017



Food is also a security issue

Food Prices vs Social Unrest

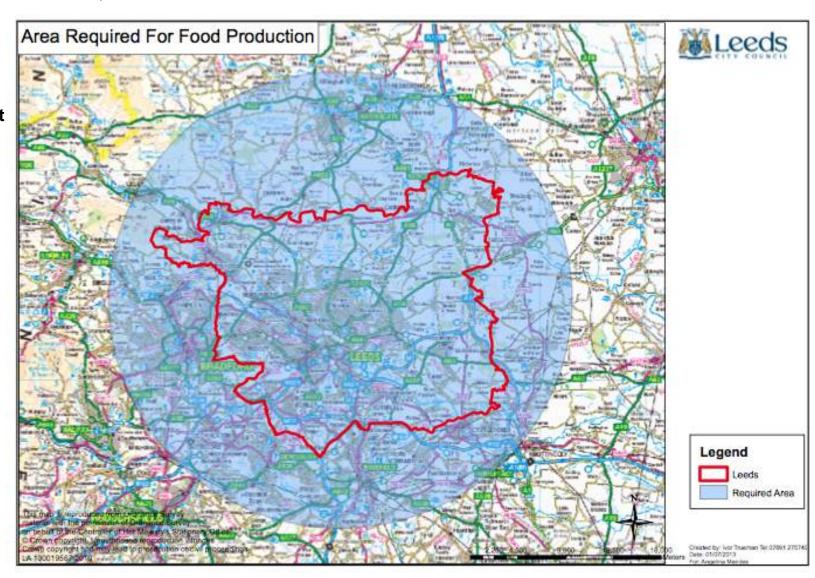


September 2012: FPI = 216

Leeds food footprint. The food footprint of a city or town is defined as the total amount of land required to meet its basic food needs. The present Leeds food footprint extends to an area of 371,241 acres. This is an area more than double the total geographic area of Leeds, which is 136,328 acres. The Leeds food footprint was calculated using a 0.494-1-acre per person food footprint, which is based on 0.2 hectares per person from Fairlie's livestock permaculture model. This individua food footprint (0.494 acres) was then multiplied by the total population of Leeds (751,500) to arrive at a total of 371,241 acres. As is evident in *Figure* 7 below, the amount of land required to feed Leeds extends far beyond its boundaries and into other surrounding communities.)

Figure 7: Leeds Food Footprint (LCC 2013)

Leeds City Council
University of Leeds
Permaculture UK
(Mendes; Degree Program:
MSc Sustainability
Environmental
Consultancy & Project
Management



We may need to grow food wherever we can!



Food Growing in Parks: A Guide for Councils







Purpose of the guide

Local authorities are rethinking the future of parks. This involves both the 'pull' from local people who want to be more involved and empowered to take more responsibility for them, as well as the 'push' to reduce costs and secure new sources of income. Councils also recognise their assets, such as public parks can be managed to contribute to a broad range of outcomes such as public health and the local economy.

With the growth in public interest in food growing and many positive examples of food growing projects in public parks, more councils are showing an interest in the potential of these areas as sites for food production.

This guide aims to encourage more food growing in parks whilst also helping decision makers understand the options available. It draws links with the rethinking parks and public health agendas¹ and explores opportunities for councils to consider. Setting up and running food growing in parks is not a one-size-fits all solution and needs consideration to ensure it brings the desired outcome for park users and decision makers.

With the guide, we have illustrated established good practice of food growing in parks across the UK, where areas dedicated to growing food in spaces range from pocket parks to The Royal Parks. As local authorities look for new models of managing parks, food growing is likely to increase due to the multiple benefits that it can provide. It helps councils decide which model of food growing would be appropriate, taking into consideration their own capacity, the strategic needs of the area, the types of parks and the enthusiasm of local communities. The shared experience across a range of authorities provides detailed understanding of the application of food growing in public park settings. It also provides a key message to councils leaders to recognise how parks deliver a wide range of public benefits, rather than to look at parks as cost centres.

Interviews with growers at 12 food growing spaces in urban public parks contributed to case studies drawn from across the country, in different types of parks with contrasting visitor catchments. Project leaders described the organisation of their project and their relationships with their local councils. We have captured issues and opportunities of relevance to local councils in order to encourage food growing in public parks and also dispel some myths!

This guide will help:

- Councillors, particularly portfolio holders with responsibilities for budgets, the public realm and for public health, identifying the public benefits of food growing;
- Council park managers, providing confidence that food growing can be successfully integrated into parks;
- Friends of Parks groups, community and social enterprises and community groups involved in, or considering, food growing projects, who can learn from and share experiences of community projects across the UK.

We thank staff and volunteers from the case study parks and councils for sharing their experience.

Abelueell Oily Coulid	Duthie Park	Aberdeen (City	Counci
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London Borough

Preston Park Brighton and Hove City Council

Wish Park Brighton and Hove City Council

Dame Emily Park Bristol City Council

Philips Park Bury Metropolitan Council

Bute Park Cardiff City Council

Walpole Park Ealing London Borough

Scotch Quarry Park Lancaster City Council

Walton Hall Park Liverpool City Council

Heaton Park Manchester City Council

Albert Park Middlesbrough Borough Council

Why grow food in parks?

Synergy with local priorities

Growing food within public spaces, particularly in urban areas and for those without gardens, creates great potential for different groups to benefit from parks. The public health benefits are a particularly important consideration when planning public open spaces as it is widely recognised that gardening and food growing has a positive impact on people's health and wellbeing⁵.

Food growing can not only be incorporated into park management plans, it can also be linked into strategies for play and events. For example, the importance of informal and natural play can be realised in food growing areas and edible planting. Food can also be integrated into educational visits and forest schools based in public spaces.

Similarly, events programmes can utilise existing food growing assets and relationships, such as the partnerships with local groups. This can drive local involvement in existing initiatives or stimulate appetite for new ones. Food and food growing can become an important theme alongside others within the parks, such as music and creative activities.

This guide looks at social, economic and environmental benefits of gardening and specifically food growing which include:

- improved psychological health;
- increased physical activity contributing to maintaining a healthy weight and reducing the risk of obesity;
- improved social interactions and community cohesion;
- improved educational outcomes;
- mitigation of impacts of climate change; and
- local economic resilience.

Health benefits of food growing

Regular contact with plants and the natural environment can improve mental wellbeing and, combined with the activity of growing food, it can help improve physical health for a wide range of abilities and ages. Community food growing introduces residents to a way of life which can help improve wellbeing in the longer term. It provides access to locally grown, fresh produce, helps increase consumption of fruit and vegetables, as well as improving attitudes to healthy eating.

Evidence of the impact of gardens and gardening on health is closely related to the wide array of evidence on 'green spaces and health' and applies in general to gardens. Looking at the evidence it is clear that access to nature is a critical part of a healthy community. In recent times, habits and behaviours have increasingly created sedentary lifestyles and levels of stress resulting in poor physical and mental health. Visits to nature are associated with decreases in self-reported stress (Annerstedt, 2011⁶) and a study in the Netherlands showed that every 10% increase in access to green space translated in an improvement in health equivalent to being five years younger (de Vries, et al 2003) with similar benefits found by studies in Canada (Villeneuve et al 2012) and Japan (Takano 2002)⁷.

There is also some evidence to suggest a link between obesity and access to green spaces, although the evidence is not always consistent.⁸ Natural England has become increasingly interested in this topic, leading them to set up the Outdoors for All working group and research group and publishing research and reports on the subject⁹.

The therapeutic benefits of food growing and gardening when led by a trained therapist for a group with defined needs, is well evaluated through networks such as Social Farms & Gardens (previously Care Farming UK). Social and therapeutic horticulture can benefit:

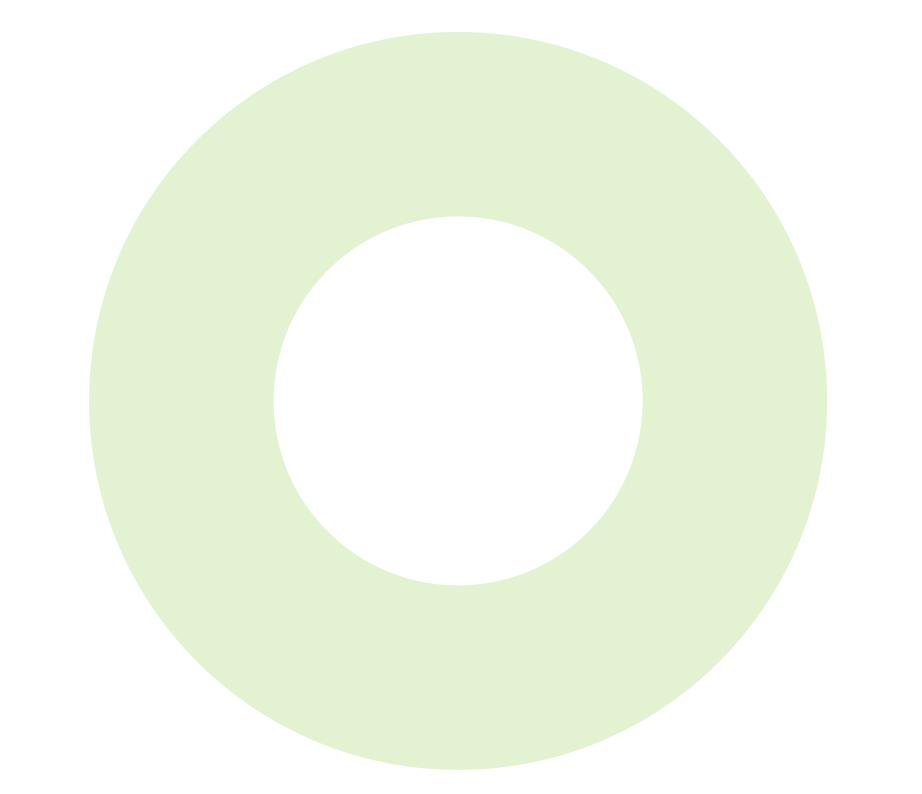
- Mental health: gardening and related activities have long been advocated in mental health programmes.
- Physical health: health problems centred on sedentary lifestyles, obesity and even old age have been alleviated or tackled with gardening programmes.
- Substance misusers: therapeutic and manual work is increasingly being used to include drug and alcohol

Typology - Different types of food growing spaces in parks

Type of growing space	Description	Benefits	Limitations	Potential stakeholder / partners
1. Productive landscapes	Edible plants incorporated into existing park design, planting and maintenance schemes	 Low maintenance and reduced long term cost. Raises awareness / first introduction to fresh produce. Lends itself to foraging and walking groups. Integration into landscape design of park. 	 Limited educational opportunities Less engagement 	Community group or voluntary organisation including wildlife organisations and walking groups Small scale food enterprises
2. Edible Planting	Area of park utilised for small scale lower profile community growing	 Low maintenance and reduced long term cost. Can build a 'culture' of food growing for future interest. Raises awareness / first introduction to fresh produce. Introduces variety, activity and horticultural interest. Productive use of unmanaged, vacant or overgrown sites. 	 Limited educational opportunities Small scale / restricted by lack of facilities Dependant on level of interest of local residents 	Community group or voluntary organisation, Friends of parks groups Small scale food enterprises
3 Open access garden	Area of park utilised for community growing. (May have notional low fencing or mesh but this will generally be unlocked.)	 Encourages interaction as open to the community. Greater management and community involvement. Notional security clarifies special purpose of the area. 	 Open to vandalism and petty theft, which can lead to frustration. 	Community group or voluntary organisation Friends of parks groups Small scale food enterprises
4. Orchard / Forest Garden	Planting of fruit trees / can include perennial under- planting of edible plants	 Provides opportunity for community engagement. Can be open access. More variety of food growing can be integrated with the trees, e.g. underplanting of forest garden plants. Integration into landscape design of park. 	 Varieties require careful selection and maintenance plan, particularly watering in early years. Take a number of years to produce harvest 	Community group or voluntary organisation Friends of parks groups Education provider Small scale food enterprises
5. Educational growing projects	Open area of park growing mixed food and flowers to demonstrate benefits of food growing. Can take various layouts and mix trees, perennials and annuals. Regular facilitated sessions.	 Have potential for wider reach e.g. schools and families. Good engagement tool/ develop capacity/ skills. Encourage participation regular activities and interpretation materials. Often host regular volunteer days. 	 Require resources to set up and run Open to the 'elements' (human& animal) e.g. vandalism/ interference Harvest can be taken so limited benefit for volunteers 	Education provider Community group or voluntary organisation Friends of parks groups Small scale food enterprise
6. Growing projects –	Gated area of park growing to demonstrate benefits	 Demonstrate health and other benefits of food growing. 	 Is not fully public accessible, need to consider opening 	Community group or voluntary organisation

		with the trees, e.g. underplanting of forest garden plants. Integration into landscape design of park.	 Take a number of years to produce harvest 	Small scale food enterprises
5. Educational growing projects	Open area of park growing mixed food and flowers to demonstrate benefits of food growing. Can take various layouts and mix trees, perennials and annuals. Regular facilitated sessions.	 Have potential for wider reach e.g. schools and families. Good engagement tool/ develop capacity/ skills. Encourage participation regular activities and interpretation materials. Often host regular volunteer days. 	 Require resources to set up and run Open to the 'elements' (human& animal) e.g. vandalism/ interference Harvest can be taken so limited benefit for volunteers 	Education provider Community group or voluntary organisation Friends of parks groups Small scale food enterprise
6. Growing projects – community run or educational	Gated area of park growing to demonstrate benefits of food growing. Can take various layouts and mix trees, flowers, perennials and annuals. Regular facilitated sessions. Works well in conjunction with a facility or building.	 Demonstrate health and other benefits of food growing. Provides formal and informal educational qualifications Can often be 'open' for public access, subject to availability of staff/volunteers Level of engagement can be high and reach groups who would not traditionally use the park. May be for specific client groups eg refugees, mental health service users. 	 Is not fully public accessible, need to consider opening hours, but requirements for open days can be built in. Gives impression of exclusivity which organisers try to overcome. Requires a suitable space. Cost of fencing. Fencing can indicate value and therefore attract vandalism and theft. 	Community group or voluntary organisation Friends of parks groups
7. Productive Growing *enterprises	Larger growing spaces, set out to maximise productivity and at a scale to enable significant harvest that can be sold. Projects would be gated, with access through open days. Run by paid staff – or a grower earning an income from the produce - with experience, often offer opportunity for training.	 Generate revenue for lead partner to help with sustainability. Provide healthy, locally produced food. Beneficial use of vacated council premises (depots & nurseries). 	 Needs capital investment. Most food 'sold' eg to supply park café, local restaurants, box schemes. Many social enterprises will encourage residents / park users to buy. Access has to be structured e.g. volunteering schemes, training sessions, can require open days Limited revenue for the council through leases due to challenges of making profit from food economy. 	Community group or voluntary organisation. Social enterprise, , training organisations, horticultural colleges
8. Individual plots	Small "allotments" allocated to individuals or groups.	Generate limited income	 Removes land from public use although requirements for open days can be built in 	Allotment Societies Residents groups

*Note: purely commercial growing projects within park land would require significant land and would be not accessible to the public, severely limiting of social and community activity that social benefit. Creating profitable primary production food businesses are not recommended or discussed within this document.



Orchards
Forest Gardens
In the ground
Raised beds

Orchards
Forest Gardens
In the ground
Raised beds

Orchards
Forest Gardens
In the ground
Raised beds

Public foraging
Advisory harvest
Community harvest
Private harvest

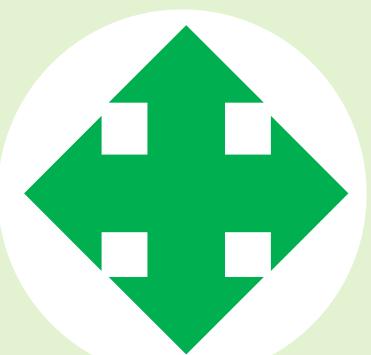
Council Community Private

Orchards
Forest Gardens
In the ground
Raised beds

Public foraging
Advisory harvest
Community harvest
Private harvest

Council Community Private

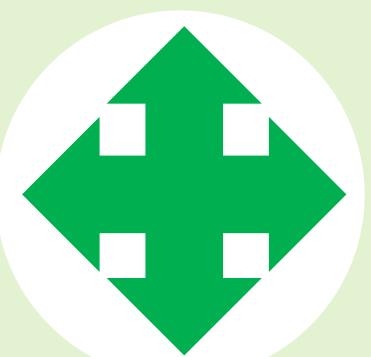
Orchards
Forest Gardens
In the ground
Raised beds



Public foraging
Advisory harvest
Community harvest
Private harvest

Council Community Private

Orchards
Forest Gardens
In the ground
Raised beds



Public foraging
Advisory harvest
Community harvest
Private harvest

Unfenced Semi-fenced Fenced

urbal.tv