

# GREENING A GREEN CITY

TOWARDS A HEALTHY LIVEABLE  
CITY?

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London is a remarkably green city. On of the greenest of big cities.

<http://www.gigl.org.uk/our-data-holdings/keyfigures/>



We know that creating good quality green spaces is good for London’s economy and environment, and despite the growing population green space (better described as green infrastructure – see below) can be integrated into the regeneration and renewal of the city.



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The Queen Elizabeth Olympic Park is a high profile example of the concept of green infrastructure – green space designed to deliver a range of services and benefits. We describe green infrastructure as the network of green spaces - and features such as street trees and green roofs - that is planned, designed and managed to deliver a range of benefits, including: recreation and amenity, healthy living, mitigating flooding, improving air and water quality, cooling the urban environment, encouraging walking and cycling, and enhancing biodiversity and ecological resilience.



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But despite the amount of green space in London much of it is just that i.e. it's green and its space. Many areas were designed primarily for recreation or outdoor sport. These are important requirement but if green spaces are designed and managed with only these objectives in mind it does not always result in the optimal use of the resource. Furthermore, from a health perspective the focus is on promoting physical health through providing opportunities for active sport and recreation. This does not necessarily address some of the most pressing health issues facing an urban population that is increasing (and competing for space) and ageing (and needing outdoor environment that are conducive to passive recreation and mental well-being).



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The green space between buildings (particularly in suburbia) is also rarely managed for any other purpose other than the basic amenity provided by open space.



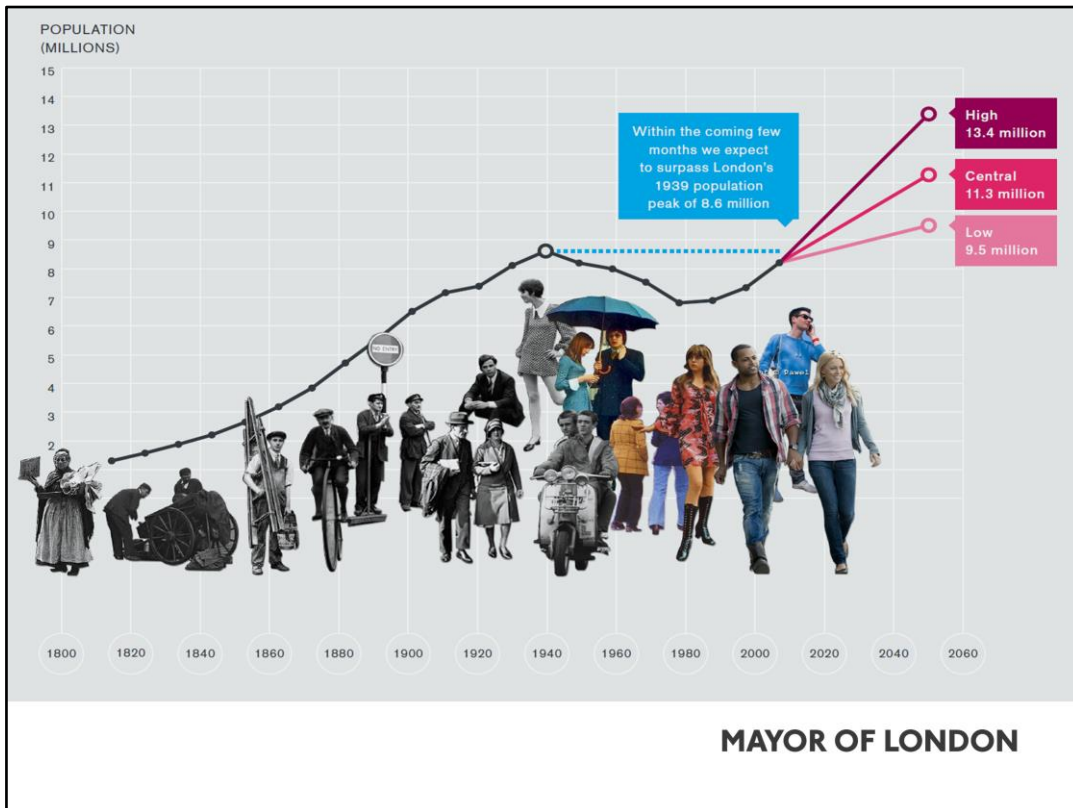
Considering the design and management of existing green space is vital if we are to create a network of green infrastructure that contributes to creating a more liveable city. Just as it is important to regenerate poor quality housing (such as the Aylesbury Estate depicted above) is it necessary to rethink the purpose of the adjacent green space (Burgess Park) to ensure that it complements the objectives of estate regeneration.



Burgess Park regeneration

[www.lda-design.co.uk/projects/burgess-park-london/](http://www.lda-design.co.uk/projects/burgess-park-london/)





London is facing a number of challenges:

Population growth – London is growing. Current projections indicate that London’s population will grow from the current 8.5million to 11 or 12 million by 2050.



Climate change – current projections indicate an increase in surface-water flooding (as a result of intense summer storms and wetter winters) and an increase in heat-waves. Both surface-water flooding and heatwaves are exacerbated by the densification of the city which will result from population increase.

CLOSED DUE 4pm  
TO HEATWAVE  
SORRY OPEN @ 10am  
TMRW.

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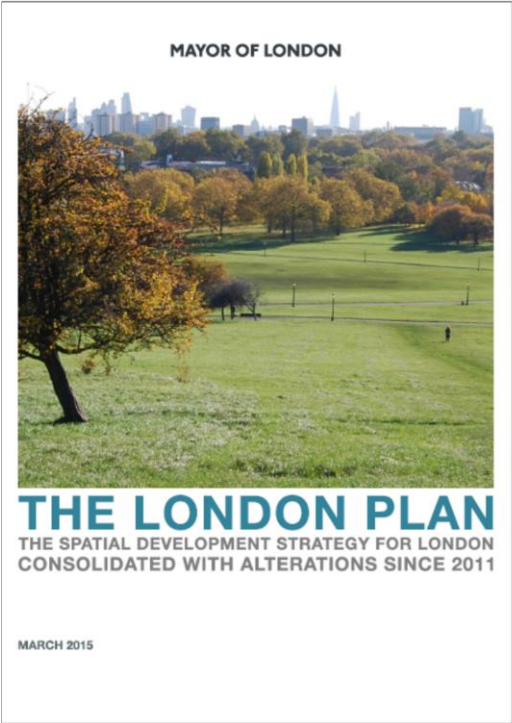
**Air pollution:**

London already suffers from poor air quality. Policies to curb exhaust emissions will tackle some of the most serious problems but cities are always likely to suffer from a degree of poor air due to construction activity and the other particulates generated by motor vehicles (such as the degeneration of brake linings).



**Increasing densification:**

London needs to build approx. 50,000 new homes (plus associated infrastructure) per annum to meet the needs an the expanding population. Most politicians agree that London should not spread outwards, consequently London is likely to become a denser city.

	<p><b><u>TRADITIONAL POLICY</u></b></p> <p><b>METROPOLITAN OPEN LAND</b></p> <p><b>LOCAL OPEN SPACE</b></p> <p><b>BIODIVERSITY</b></p> <p><b>TREES &amp; WOODLANDS</b></p> <p><b><u>NEW POLICY</u></b></p> <p><b>GREEN INFRASTRUCTURE</b></p> <p><b>URBAN GREENING</b></p> <p><b>GREEN ROOFS</b></p> <p><b>SUSTAINABLE DRAINAGE</b></p> <p><b>MAYOR OF LONDON</b></p>
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The London Plan provides the spatial framework for London. Previous versions of the London Plan have contained policies which seek to protect and conserve London’s green open spaces, the city’s wildlife and it’s trees and woodlands. These policies have been reasonably successful.

But to address future challenges an additional policy framework is required based on the concepts of green infrastructure and urban greening....

<https://www.london.gov.uk/what-we-do/planning/london-plan/current-london-plan>

<https://www.london.gov.uk/what-we-do/planning/london-plan/current-london-plan/london-plan-chapter-2-londons-places/policy-218>

<https://www.london.gov.uk/what-we-do/planning/london-plan/current-london-plan/london-plan-chapter-5/policy-510-urban-greening>



....and supplementary guidance that identifies how green infrastructure and urban greening (amongst other things) can improve health and liveability.

<https://www.london.gov.uk/what-we-do/planning/implementing-london-plan/supplementary-planning-guidance/social-infrastructure>

<http://content.tfl.gov.uk/improving-the-health-of-londoners-transport-action-plan.pdf>



Consequently, green infrastructure has been identified as just as important as London's infrastructure needs and the report of the Green Infrastructure Task Force sets out a route map to delivery.

<https://www.london.gov.uk/WHAT-WE-DO/BUSINESS-AND-ECONOMY/BETTER-INFRASTRUCTURE/LONDON-INFRASTRUCTURE-PLAN-2050>

<https://www.london.gov.uk/WHAT-WE-DO/environment/environment-publications/green-infrastructure-task-force-report>



# **RETHINKING PURPOSE**

**Healthy Living –increasing physical activity,  
reducing stress and removing pollutants**

**Resilient Living – keeping the city dry and cool**

**Active Living – promoting walking and cycling**

**Living Landscapes – enhancing natural  
processes for people and wildlife**

**Living Space – providing outdoor space for  
cultural, civic and community activity**

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The Green Infrastructure Task Force states that it is necessary to rethink the purpose of London's existing green space network. It proposed framing the purpose of green infrastructure as the objectives listed above.



We are changing the way we manage rivers and flooding by removing rivers from pipes and concrete channels...



... to a more naturalised channel than not only improves the ecology of the park but results in a significant increase in flood storage and a much more aesthetically pleasing space resulting in greater use and more prolonged use by local residents.

<http://www.thames21.org.uk/wp-content/uploads/2013/07/Ravensbourn-CIP.pdf>



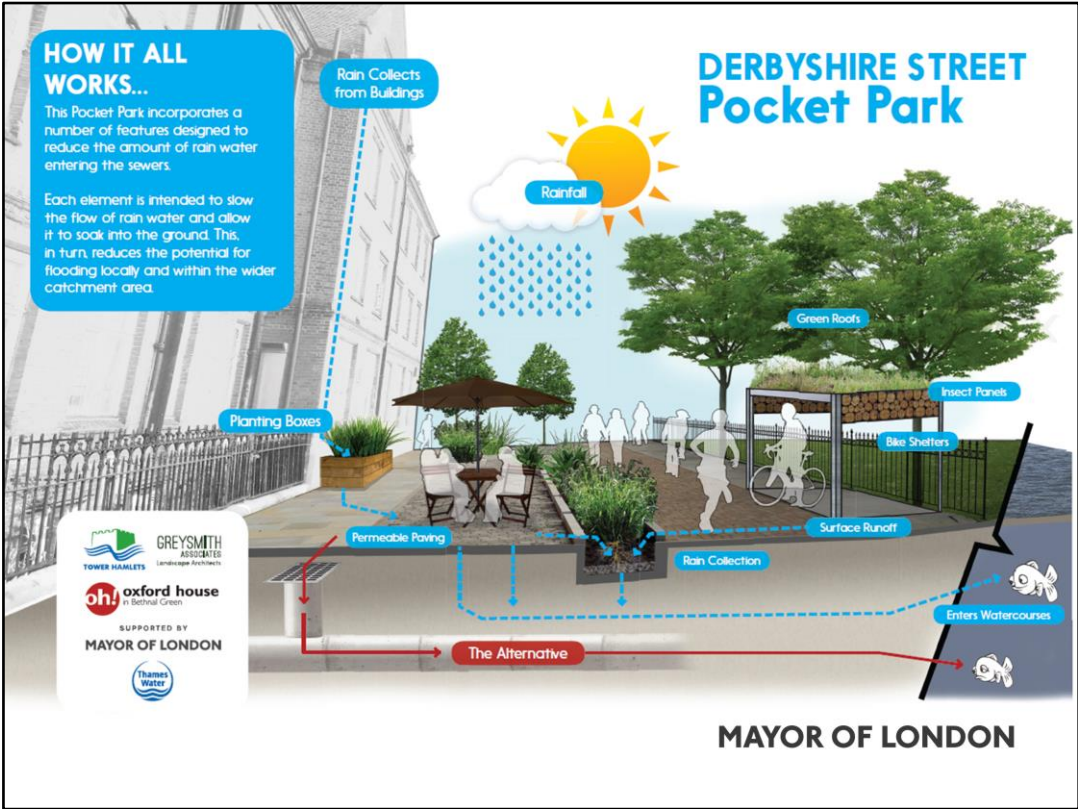
We are changing the way we think about streets. The road and street network is a significant component of London's public realm although it has been designed and managed primarily to support free-flow of traffic. As we change our relationship with the car in urban areas we can begin to liberate some of this space for a wider variety of uses...



.... making better use of the space and improving its function.

The images show the before and after of Derbyshire Street Pocket Park. The dead end street has been converted into a small, green civic space which provides outdoor amenity for the adjacent community centre, a new walking and cycling route through to the high street beyond and an example of sustainable drainage through the use of a planted swale and permeable paving.

<http://greysmithassociates.com/project/pocket-park/>





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On a grander scale major roads can be redesigned to encourage more walking and cycling and improve the look and feel of the street scape without compromising traffic flow.



Garibaldi Street in Lyon (France) has been completely re-engineered to create a green walking and cycling route and areas for storage of storwater run-off from the road surface.

[http://www.tdag.org.uk/uploads/4/2/8/0/4280686/tdag\\_trees-in-hard-landscapes\\_september\\_2014\\_colour.pdf](http://www.tdag.org.uk/uploads/4/2/8/0/4280686/tdag_trees-in-hard-landscapes_september_2014_colour.pdf)





We are transforming London's roofscape.

In the most densely developed parts of the city it is challenging to introduce new greenery at street level. But roofs offer an opportunity for extensive greening which can be designed to provide a variety of benefits including stormwater retention, urban cooling, food growing or biodiversity conservation. This roof on the PWC offices at More London has been designed to enhance biodiversity but also provides a much more interesting and pleasing outlook for PWC staff than the grey roofscape it replaced.

<https://www.cityoflondon.gov.uk/services/environment-and-planning/planning/heritage-and-design/Documents/Green-roof-case-studies-28Nov11.pdf>



By considering green infrastructure and urban greening at the beginning of the masterplanning design process a wide range of benefits can be provided in new developments and in London's parks and green spaces.

<http://www.berkeleygroup.co.uk/media/pdf/5/0/Berkeley-WoodberryReport-2014.pdf>



**THANK YOU**

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