

What have trees done for us?

Jane Findlay

BA Dip LA CMLI

President of
Landscape Institute











#choose
land
scape

A wide-angle photograph of a mountainous landscape. In the foreground, a grassy hillside with a rocky path leads towards a large, calm lake. Two people are sitting on a large rock on the right side of the path. The background features towering mountains with patches of green and rocky terrain, and a thick layer of white clouds covers the sky and parts of the mountains.

Why I became a Landscape Architect

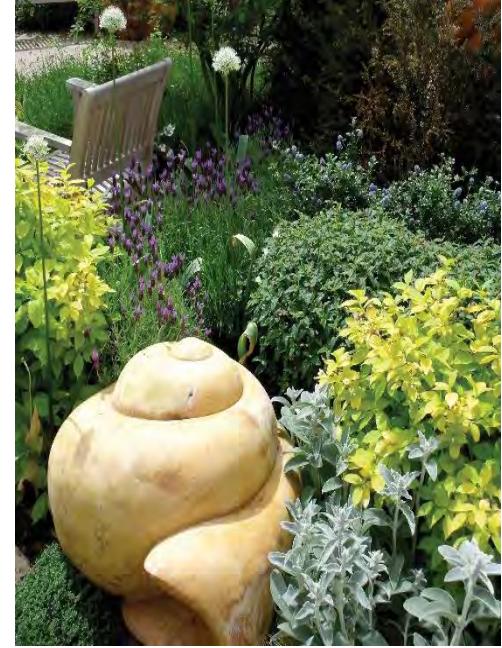




Forestry Commission



infrastructure...health...public realm...residential...workspace and commercial...
education...higher education...landscape planning...masterplanning...



Healthcare



“The Healing Landscape”

The concept of
**therapeutic
landscape**
design specifically for
healthcare projects





A dense forest of aspen trees with white bark and yellow leaves in autumn. The trees are arranged in a grid-like pattern, creating a sense of depth. The ground is covered in fallen leaves, and the overall scene is bright and colorful.

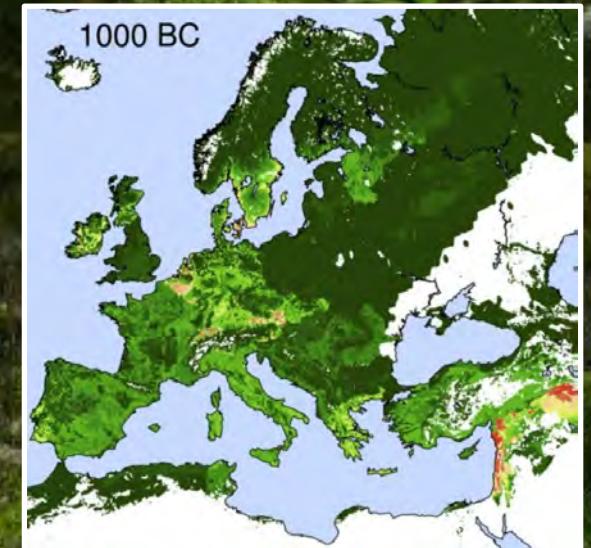
Tree facts

A dense, prehistoric forest scene. The foreground is filled with large, green, fern-like plants. In the background, there are several tall, thin trees with long, narrow leaves, some resembling modern palm trees and others more like modern conifers. The sky is a clear blue with a few wispy white clouds.

Trees arrived 385 million years ago



1000 BC Woodland covered most of the UK





13.2% cover in UK



5,070
years

Great Bristlecone Pine
Pinus longaeva



Fortingall yew -
Taxus baccata

2,000-3,000
years



The Major Oak
Quercus robur



The Dark Hedges,
Ballymoney



2,300

How many species does an
oak tree support?

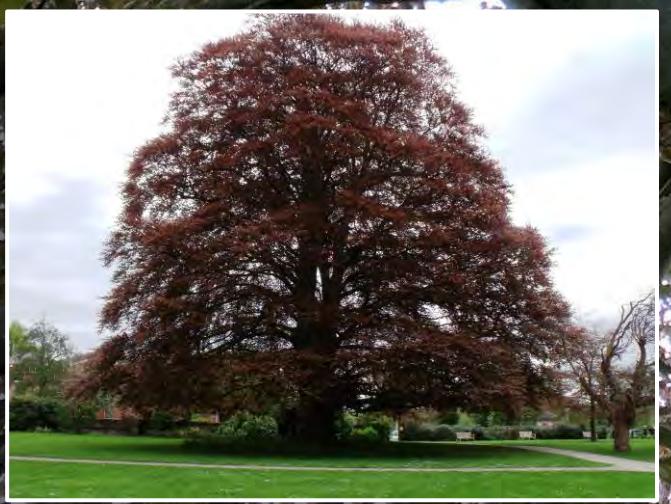
A wide-angle photograph of a forest floor. In the foreground, the base of a large tree is visible, its trunk and lower branches covered in moss and lichen. The ground is a mix of green grass and fallen brown leaves. The background is filled with the dense canopy of many trees, their branches reaching out and their leaves creating a lush, green canopy.

Underneath this autumnal
floor, there's a hidden world

A dark, atmospheric forest scene. The foreground is filled with the silhouettes of many bare tree trunks, their branches reaching upwards. A path or clearing leads into the distance, where the scene is shrouded in a thick, white mist. The overall mood is mysterious and somber.

What is your favourite tree?

Tewkesbury Abbey Beech
Fagus sylvatica Purpurea



A photograph of a forest scene. The foreground is filled with the dark trunks and branches of tall evergreen trees. Sunlight filters through the canopy, creating a bright, golden-yellow path on the forest floor and illuminating the leaves of a large tree on the right side of the frame. The overall atmosphere is peaceful and natural.

What do trees do for us?



20 Benefits

Environmental Health Biodiversity

“Trees are essential to the future of the planet.”

Sir David Attenborough

A close-up, low-angle shot of a large tree trunk, likely beech, covered in thick, dark green moss. The trunk is textured and shows signs of age. In the background, the dense canopy of the forest is visible, with many green leaves filtering through the light.

1 Trees provide oxygen



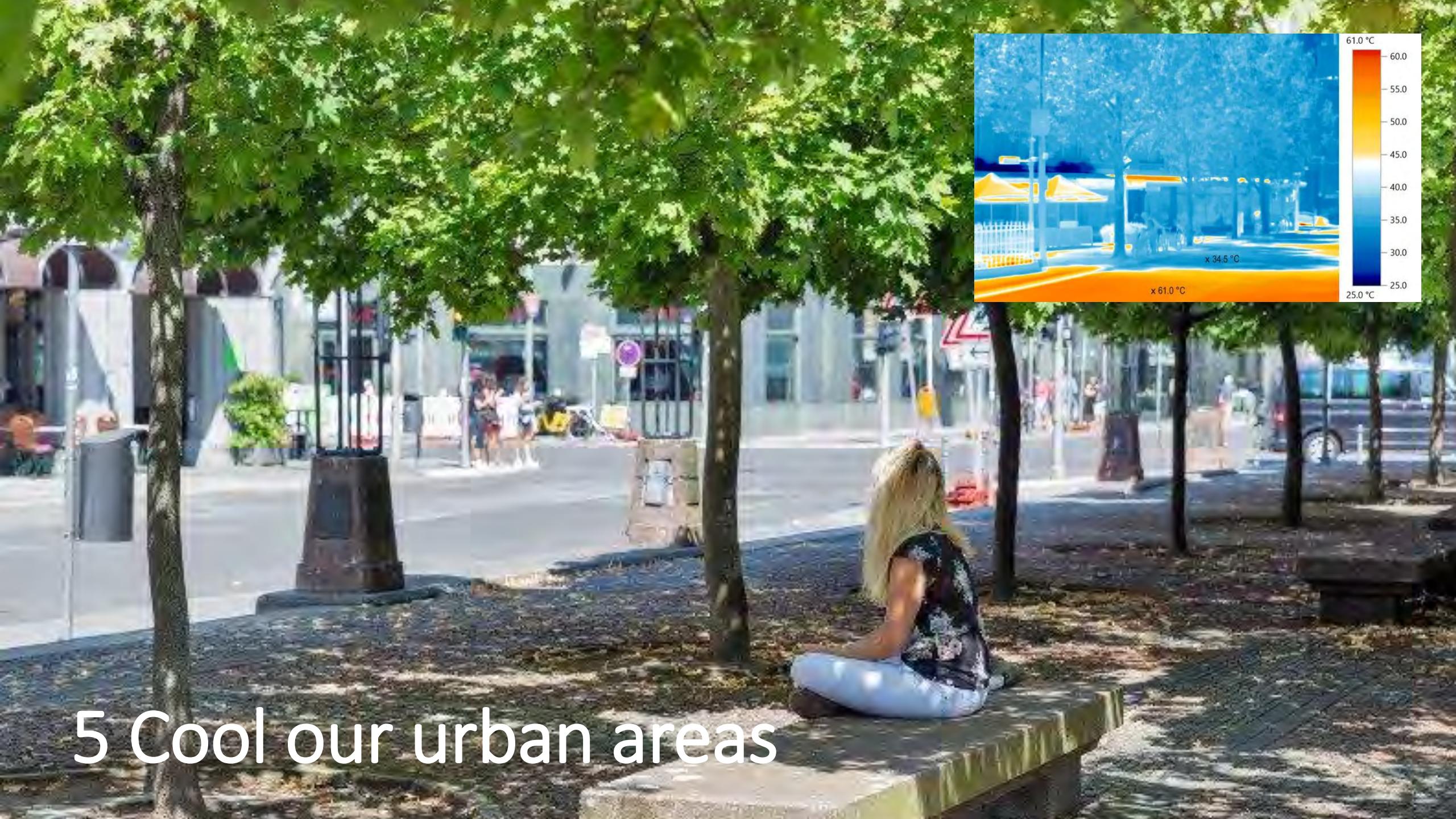
2 Trees remove harmful gases



3 Trees remove airborne particulates

An aerial photograph of a dense tropical forest. The canopy is composed of numerous large, rounded tree crowns, primarily in shades of green, with some yellow and brown foliage interspersed. The perspective is from above, looking down at the intricate patterns of the forest treetops.

4 Trees affect weather patterns

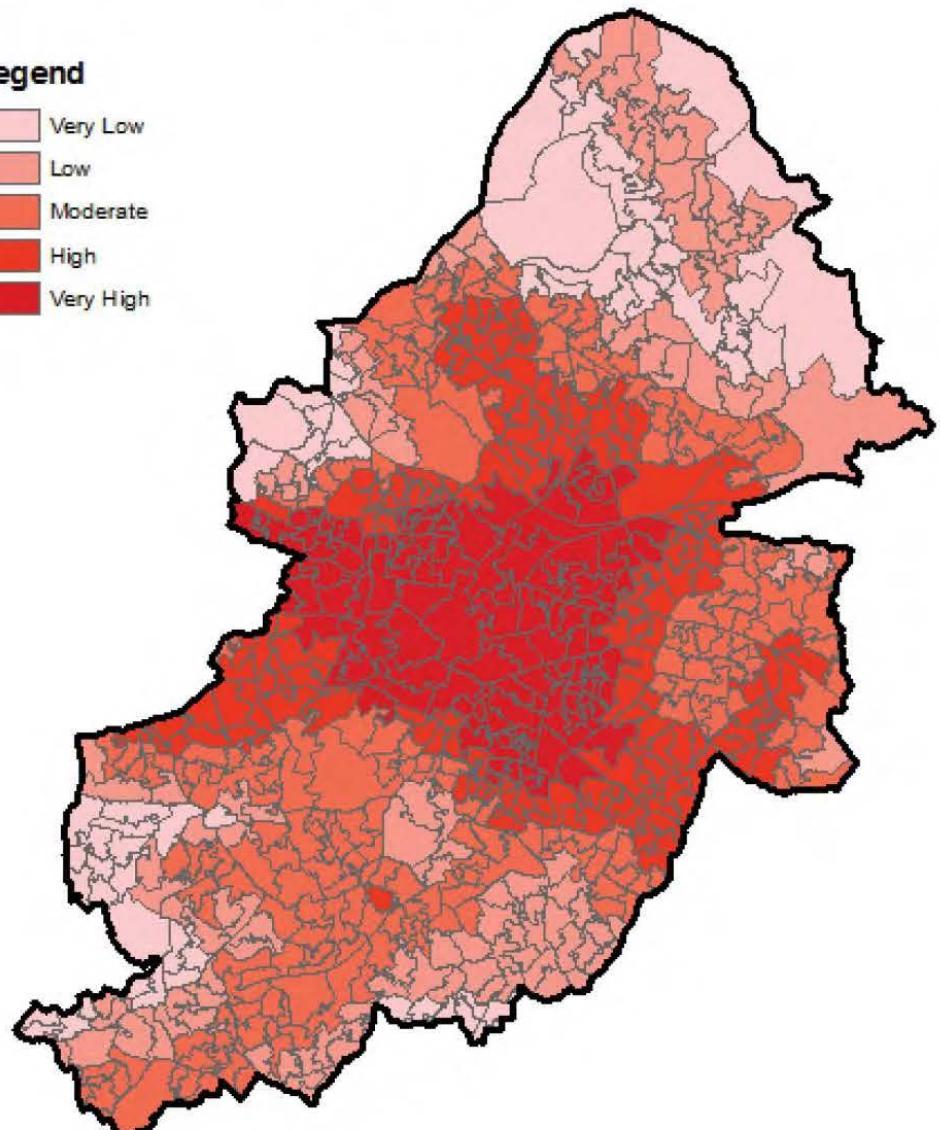


5 Cool our urban areas

Heatwave UHI

Legend

- Very Low
- Low
- Moderate
- High
- Very High

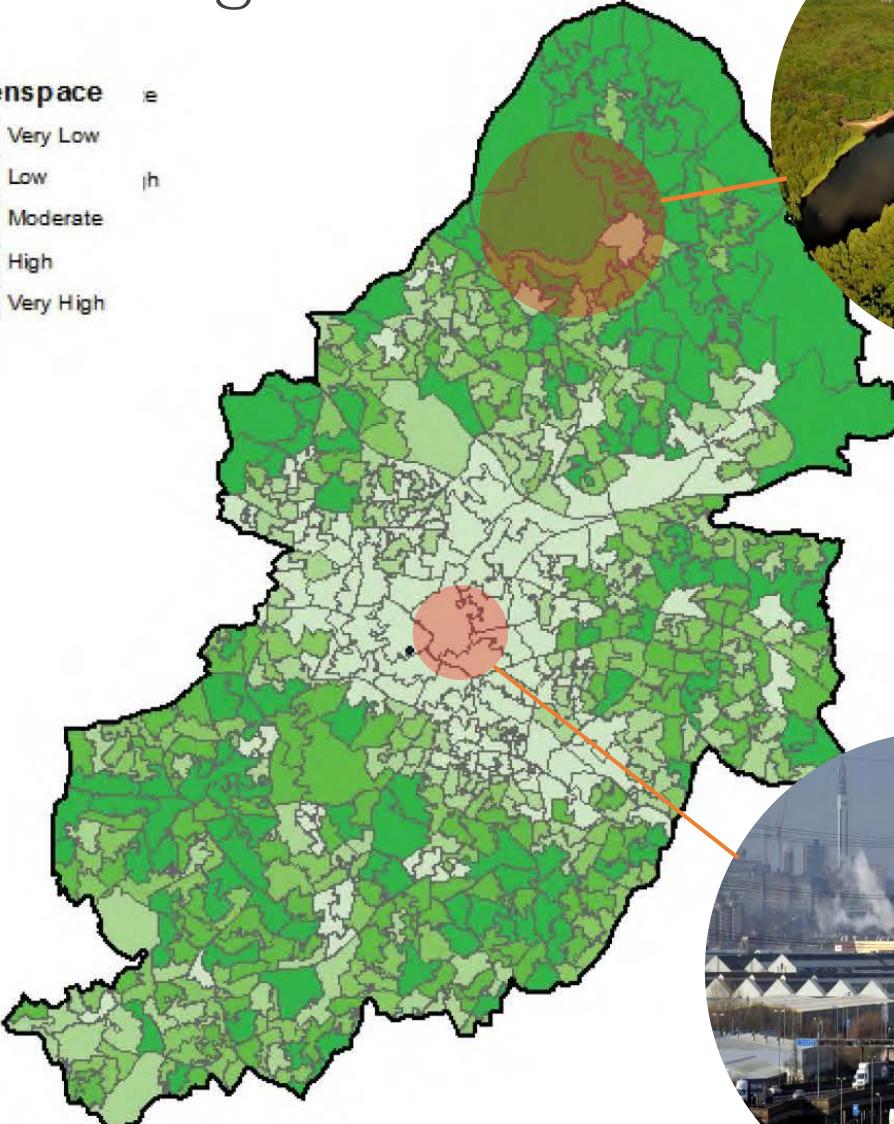


City of Birmingham

Greenspace

- Very Low
- Low
- Moderate
- High
- Very High

0 1 2 4 6 8 Kilometers



6 Stabilize the Soil to Prevent Erosion



A photograph of a forest floor in autumn. The ground is covered with fallen leaves in shades of orange, yellow, and brown. Large, gnarled tree roots are exposed, spreading across the ground. In the lower right foreground, a large, mossy rock with a small waterfall cascading over it is visible. The background shows more trees with green and yellow leaves.

7 Reduce and prevent
water pollution

8 Trees can reduce the risk
of flooding by up to 20%



A vibrant street scene in a city. In the foreground, a large, mature tree with a wide canopy stands on a paved sidewalk. Several people are walking on the sidewalk, including a person on a bicycle. To the left, a red double-decker bus is parked, and a row of brick buildings with white-framed windows lines the street. The scene is bright and sunny, with clear blue skies.

a single young tree planted in a small pit over an impermeable asphalt surface can reduce rain runoff by around 60%, even during winter when not in leaf

Sheffield Sustainable Urban Drainage



An aerial photograph of a multi-level highway interchange. The interchange features several concrete viaducts and ramps, all surrounded by thick green trees and bushes. In the background, there are several industrial buildings, some with blue roofs and others with grey roofs. The sky is clear and blue. The text '9 Reduce noise pollution' is overlaid in the lower-left corner.

9 Reduce noise pollution



10 Sequester carbon

11 Construction materials





12 Trees are great
for our health

A photograph of a street lined with large trees, likely chestnut trees, in full bloom with pink flowers. The trees create a dense canopy over the sidewalk. A person is walking away from the camera on the left side of the street. The scene is bright and sunny.

a high number of street trees close to the home is related to lower numbers of local prescriptions for antidepressants, even when controlling for a wide range of factors, such as deprivation

13 A source of medicine



14 Tree encourage social support





15 Provide food for us
and for wildlife

A close-up photograph of a Bohemian Waxwing bird perched on a branch. The bird has a distinctive crest and a pale, yellowish-brown body with dark wing patches. It is surrounded by numerous small, red, round berries, likely hawthorn. The background is out of focus, showing more branches and berries, creating a soft, bokeh effect.

16 Urban trees support
a rich and diverse range
of wildlife



17 Neighbourhoods with trees are
less likely to suffer from crime

18 Tree lined streets increase property values



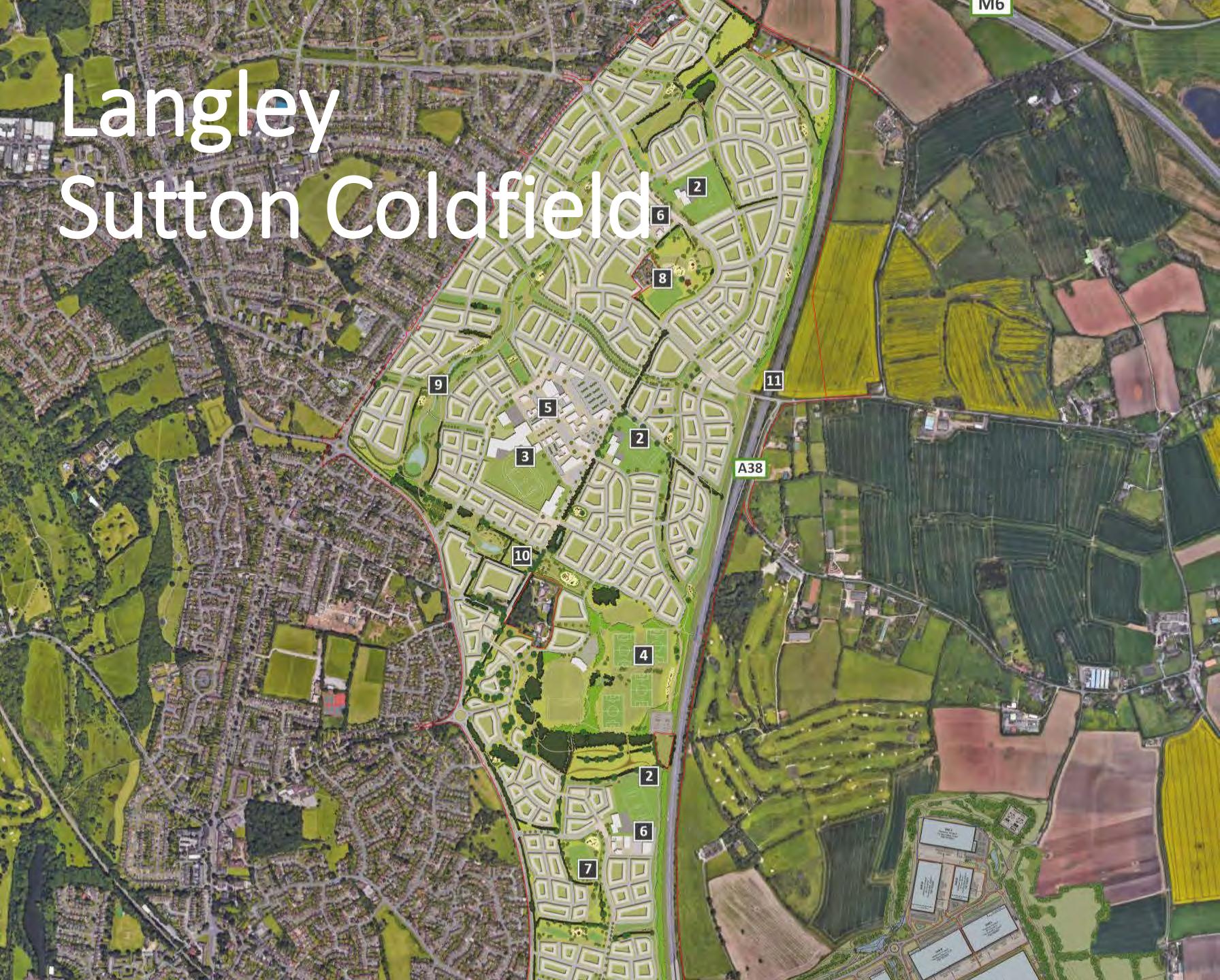


19 Trees rejuvenate
towns and cities

An aerial photograph of a residential neighborhood. The area is densely packed with houses, mostly two-story with red roofs. A large, well-maintained golf course with several green fairways and a large putting green is visible on the right side. A road with a blue directional sign runs through the center of the neighborhood. Several street names are labeled: 'Rockland', 'Ley Hill Rd', 'Down Rd', 'Little Sutton Ln', 'Camouster Cl', and 'Firs Cl'. There are also some business names: 'Shadow Sport', 'UK - Automotive Care', and 'KD Models Limited'. A small green circle with a white dot is located in the top left corner of the image.

Impact of trees on our town

Langley Sutton Coldfield



- 1** **Peddimore Employment Site:** The development of this area is the subject of a separate outline planning permission secured by IM properties (not part of the Langley Consortium). Further reserved matters details have subsequently been approved for the first phase of employment development*.
- 2** **3 Form Entry Primary School with Early Years Provision:** Located in or adjacent to local community hubs and proposed parkland areas forming three community focal points for new communities.
- 3** **Secondary School with Community Sports Hall:** Integrated into and with Langley Central forming part of the civic heart for the new Langley Community. Located on key pedestrian and cycle routes through the Site to encourage safe routes to school.
- 4** **Community Sports Hub and Public Parkland:** Supporting the retention of existing ecological and landscape features as well as responding to landscape visual analysis, the new sports hub and parkland will create a dynamic new sports and recreation area for use by existing and future communities. The area has the potential to accommodate a range of grass and artificial pitches.
- 5** **Langley Central:** Potential to accommodate a mix of uses including: Multi-functional Community Buildings; Education and Post 16 Education Facilities; Medical Practice; Retail and Service Facilities; alongside higher density residential living and new civic public spaces.
- 6** **Local Community Hubs:** Local mixed use areas located around primary schools and parks and forming focal points for the communities to the north and south of the Site. Opportunities to accommodate localised retail/service elements and community facilities such as a village/ community hall, alongside some upper storey apartments.
- 7** **Langley Fields Park:** An area supporting retention of existing landscape features and mature trees and accommodating new leisure, informal recreation, kick about and multi-age children's play facilities.
- 8** **Langley Hall Park:** An area supporting retention of archaeological features, maintaining the setting of the important elevation of Old Langley Hall and offering the existing and future community an area for informal recreation, kick about and multi-age children's play facilities.
- 9** **Langley Brook Park:** A new multifunctional parkland accommodating the realigned and naturalised Langley Brook. The park accommodates areas of existing mature landscape planting and ecology, while also creating opportunities for new ecological and strategic landscape, planting and sustainable surface water attenuation features. A network of footpaths, children's play, and trim trail features can also be accommodated within the length of the park.
- 10** **East to West Park Link:** Connecting New Hall Valley Park to the west to the Public Rights of Way, footpath network to the east of the A38, the new east



Bournville Village



20 Commerce



The death of Sutton town centre

High streets in Hammersmith and Fulham

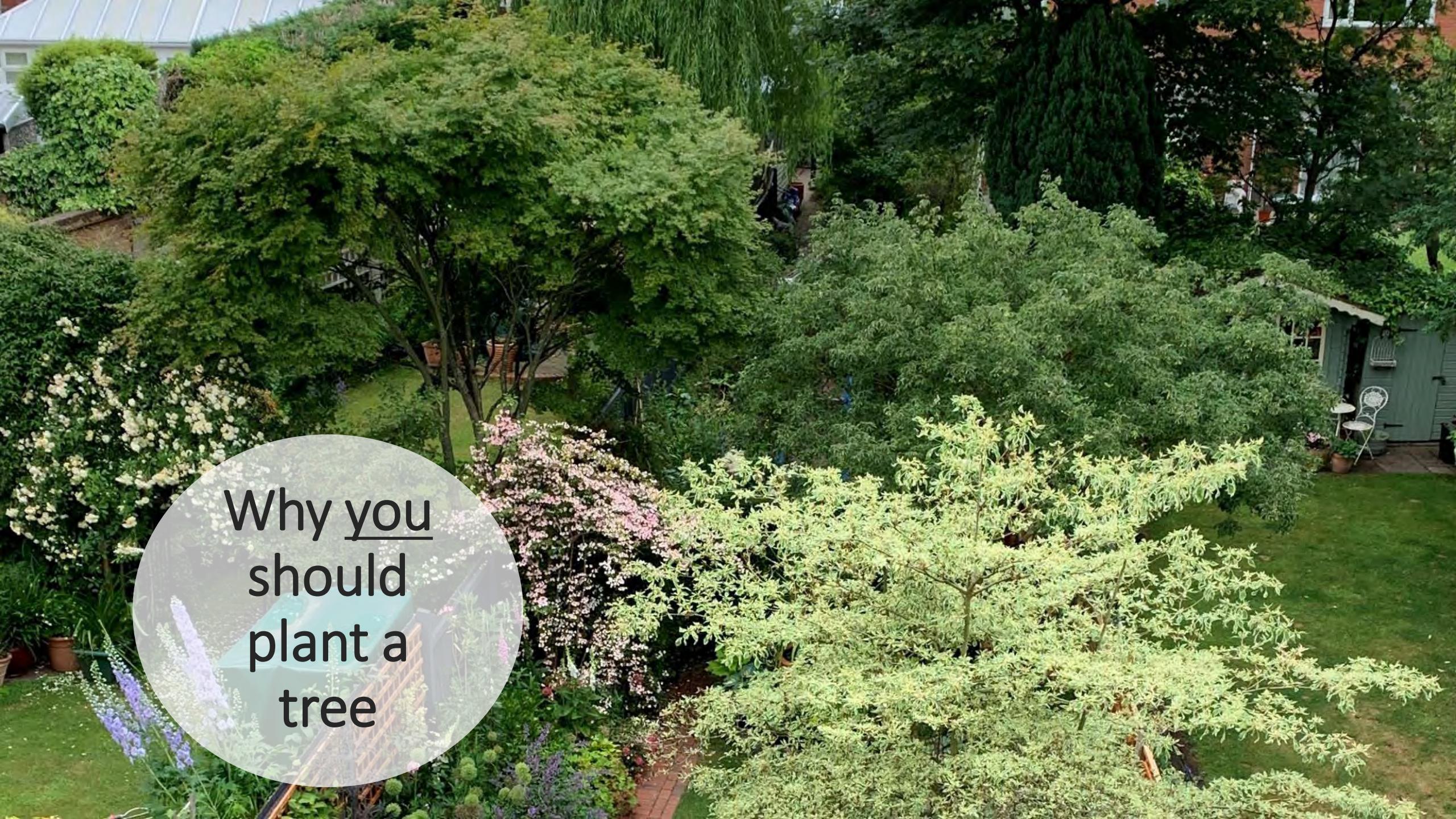




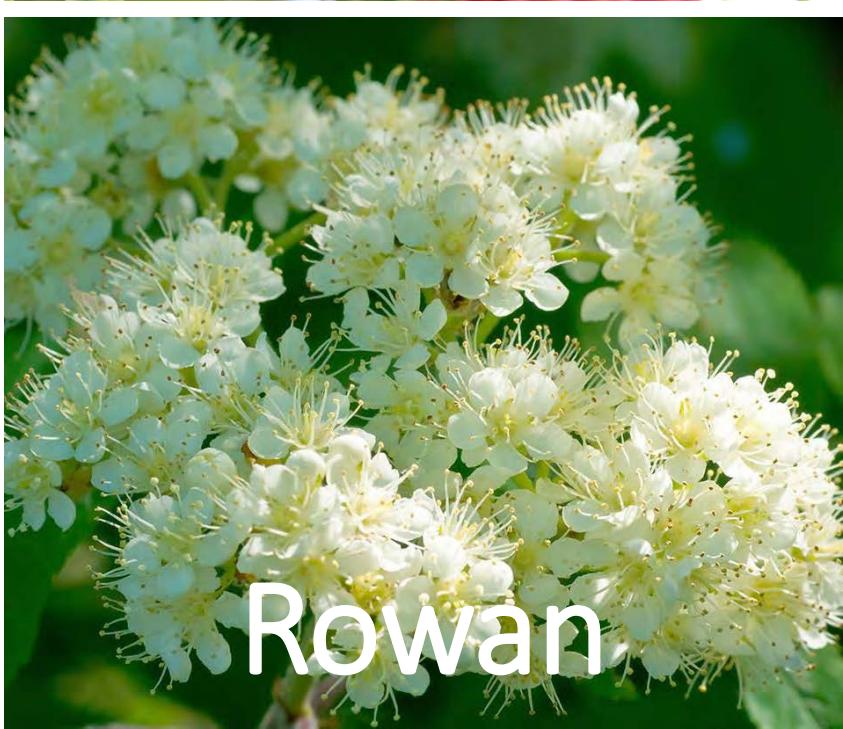
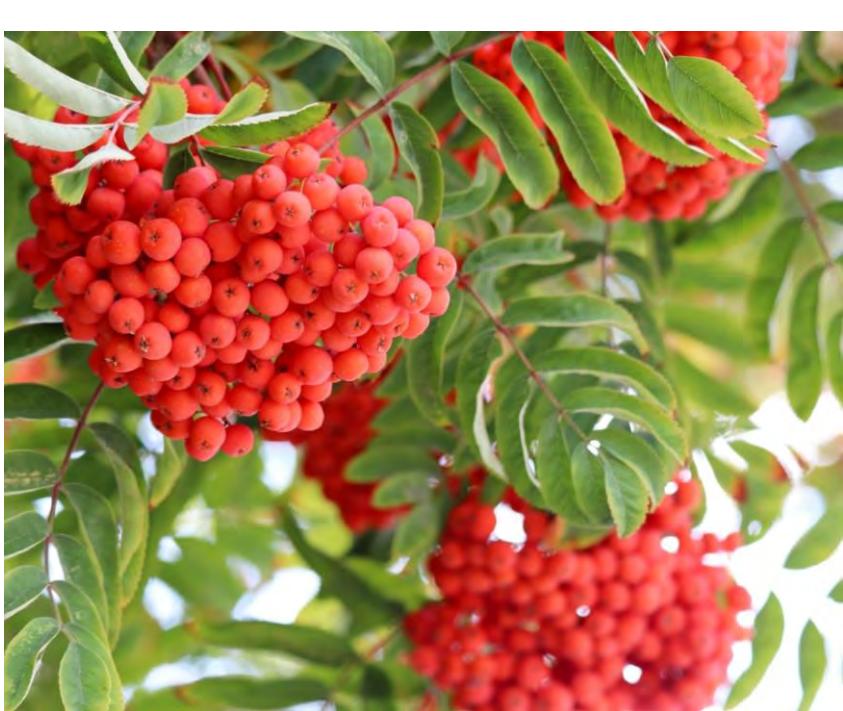
High street in Bath

High street in Bath





Why you
should
plant a
tree



Bird Cherry

Crab Apple

Rowan



Thank you

jane.findlay@fira-la.com

 [@JaneEFindlay](https://twitter.com/JaneEFindlay)

 www.fira-la.com