Prospect Estate

Proposed proactive long-term tree management project

Andy Ford

Parks and Open Spaces Manager
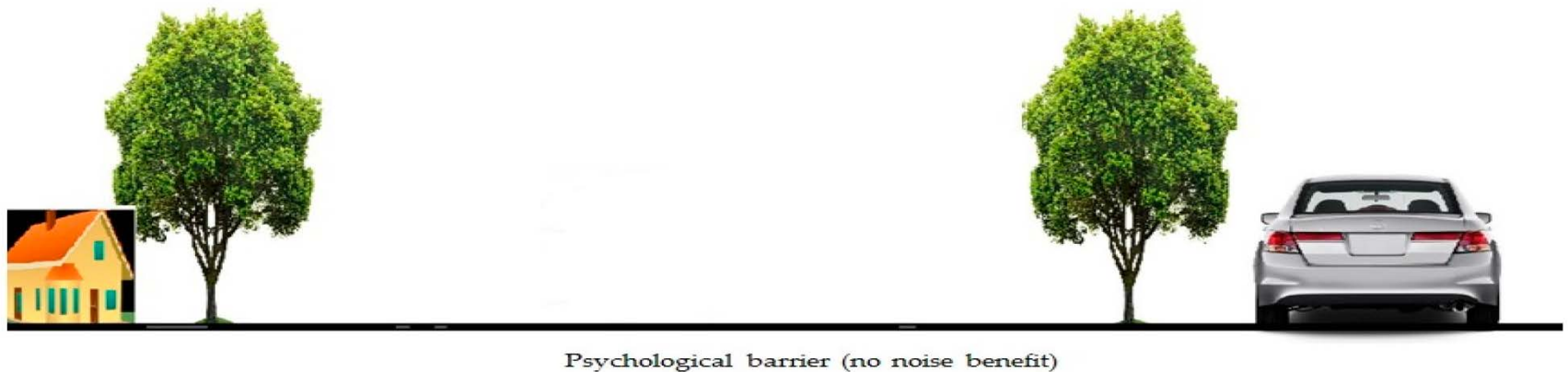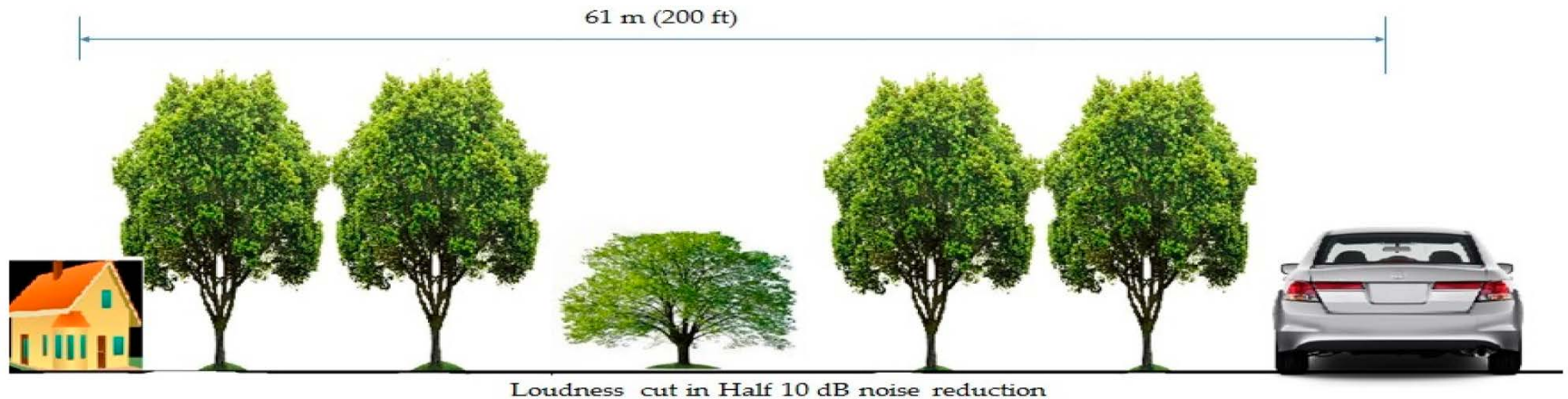
Value of trees

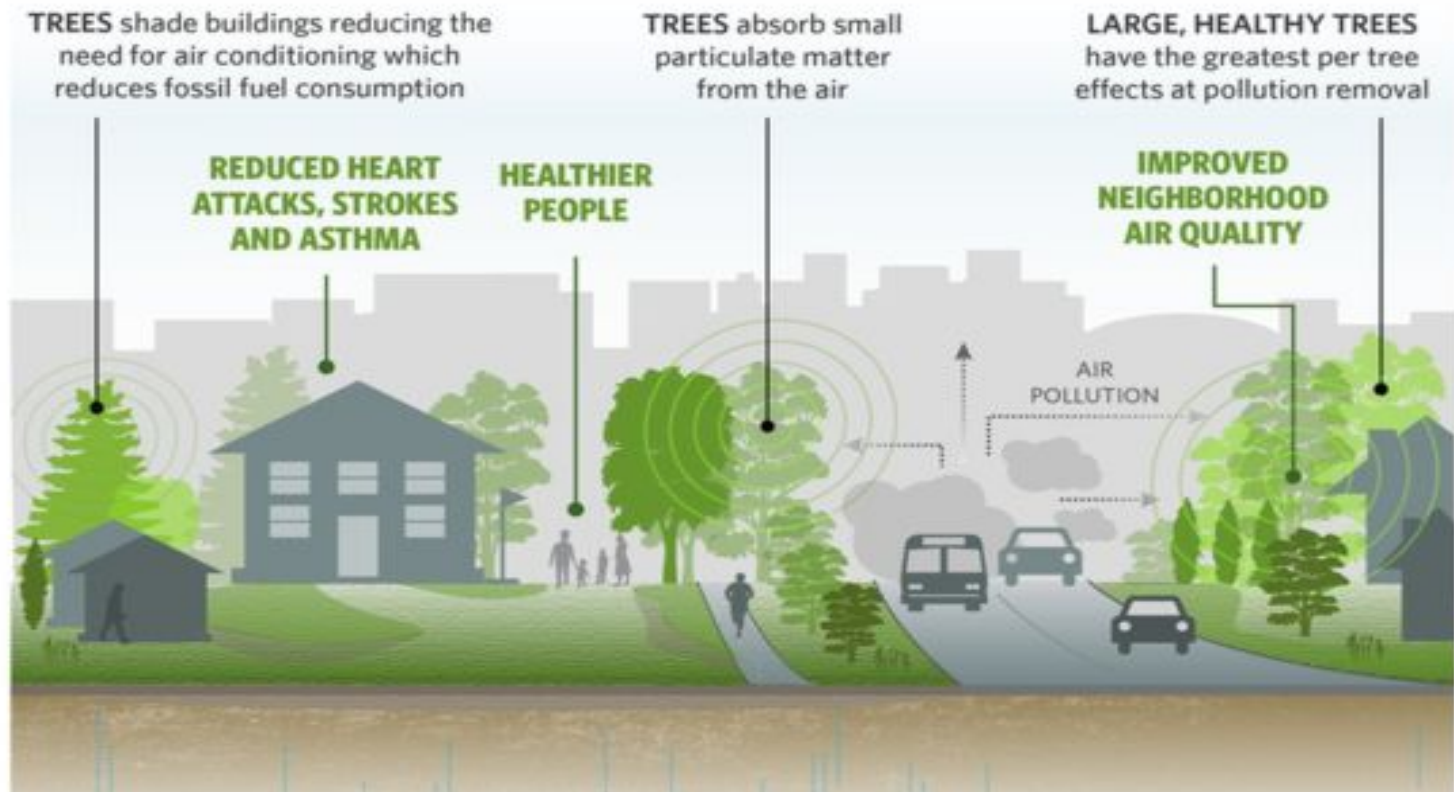- Visual amenity

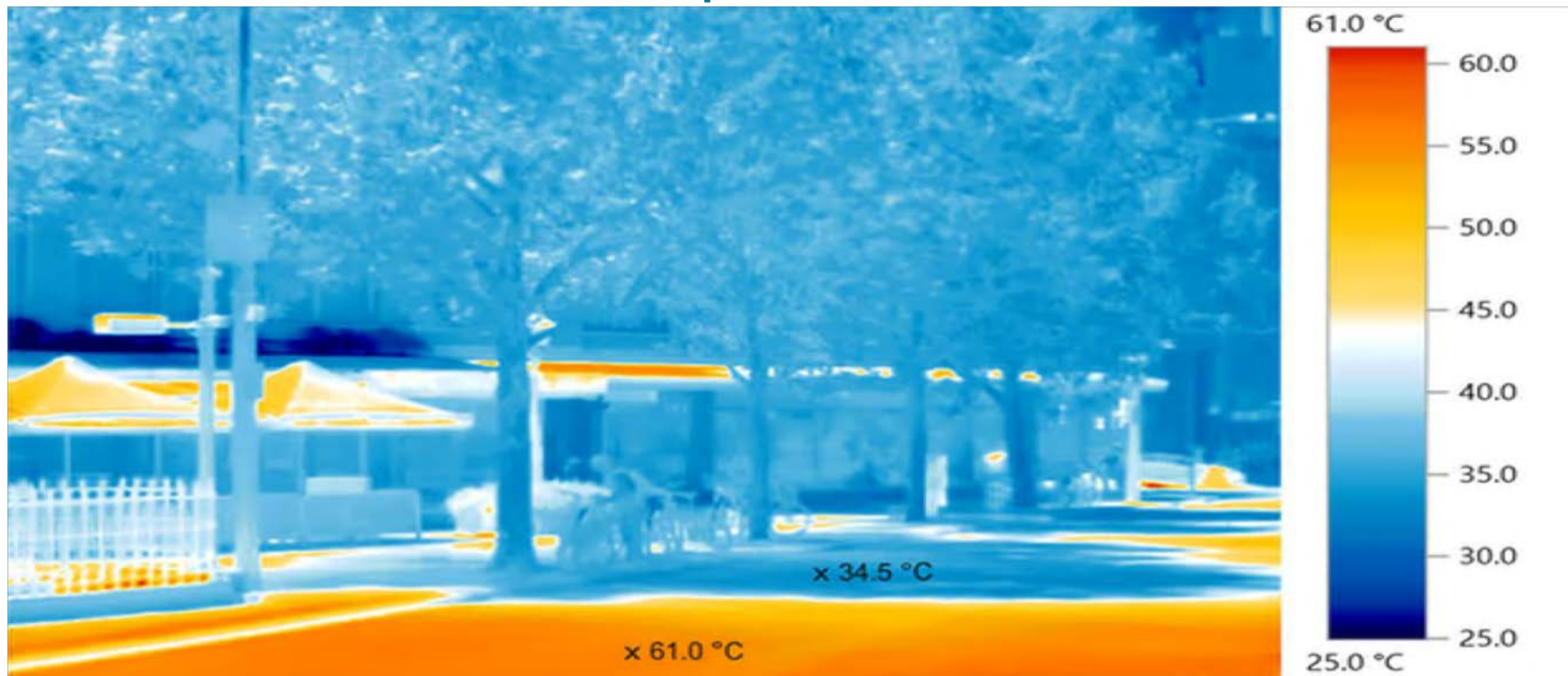# Value of trees

- Noise abatement

61 m (200 ft)

Loudness cut in Half 10 dB noise reduction

Psychological barrier (no noise benefit)

Value of trees

- Particulate trapping

TREES shade buildings reducing the need for air conditioning which reduces fossil fuel consumption

TREES absorb small particulate matter from the air

LARGE, HEALTHY TREES have the greatest per tree effects at pollution removal

REDUCED HEART ATTACKS, STROKES AND ASTHMA

HEALTHIER PEOPLE

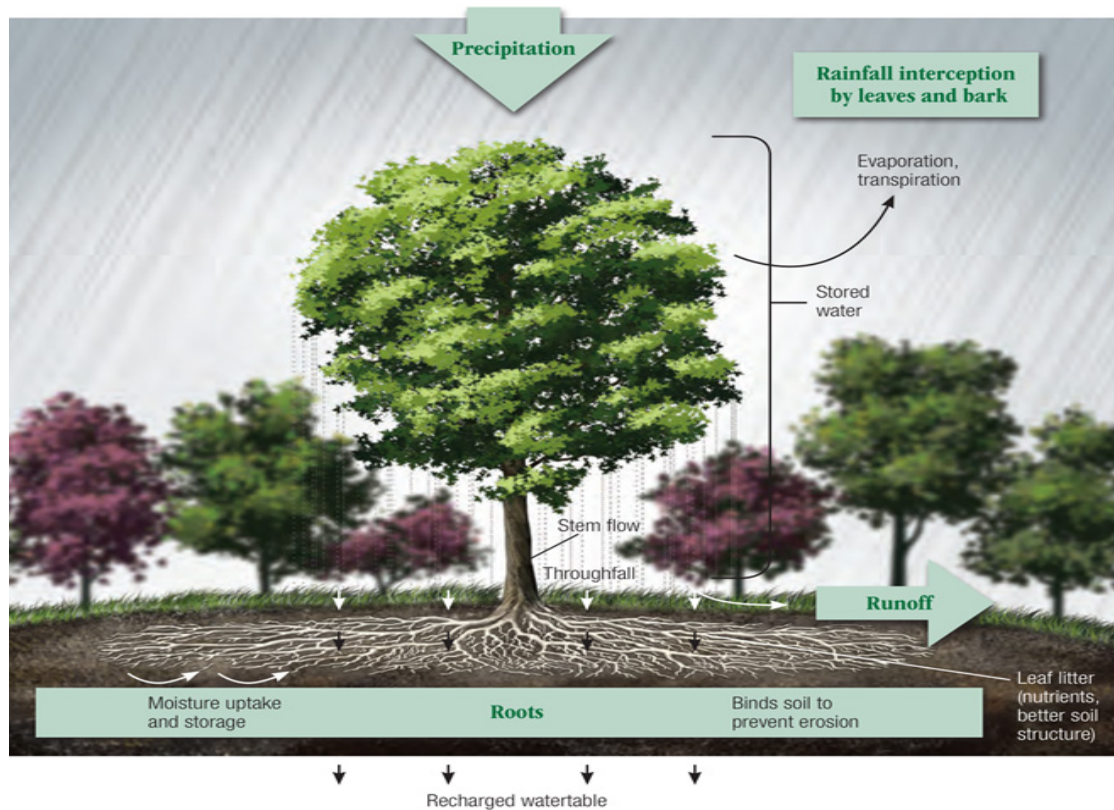IMPROVED NEIGHBORHOOD AIR QUALITY

AIR POLLUTION

Value of trees

- Urban cooling in summer
- Urban warming in winter
- Moderates urban temperatures

Value of trees
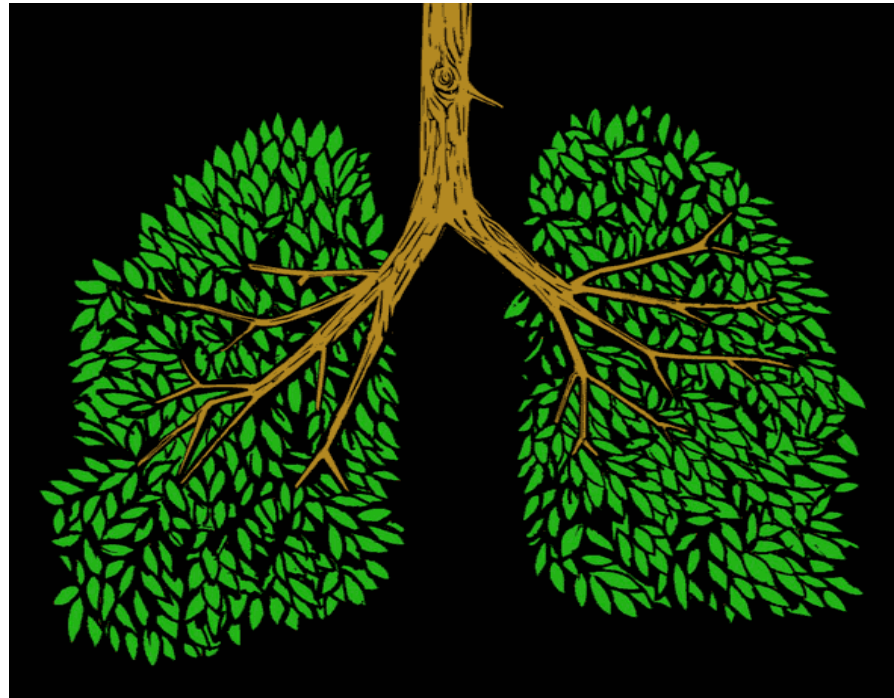
- Rainwater interception

Value of trees

- Wildlife Habitat

Value of trees

- Oxygen
- Soil stabilisation
- Reduced erosion
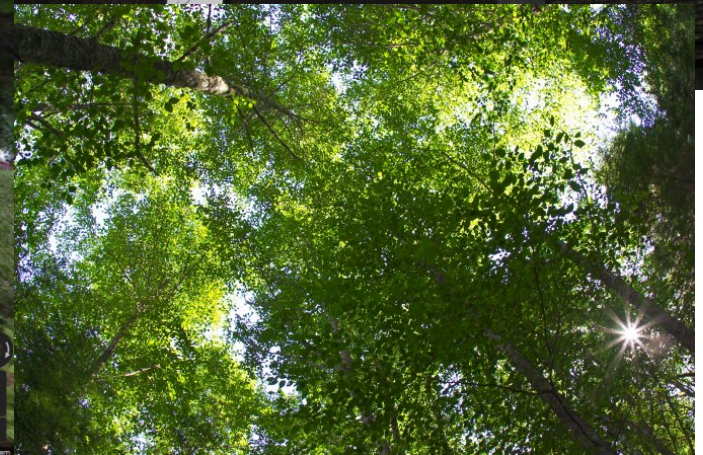- Moisture retention

Dis-benefits of trees

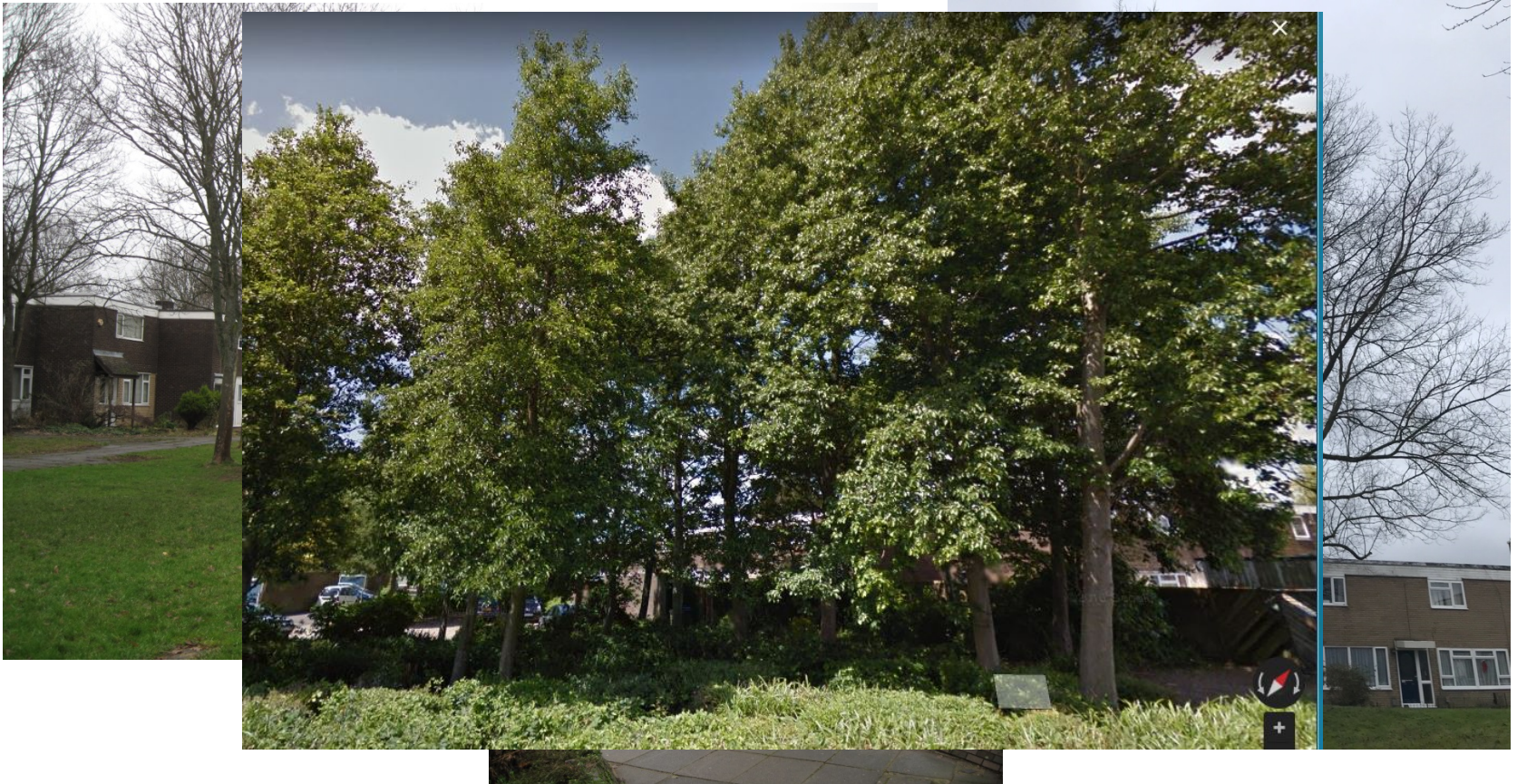- Infrastructure damage

- Failures

- Squirrels

Dis-benefits of trees

- Relationship / proximity

- Oppressive

- Excessive shade

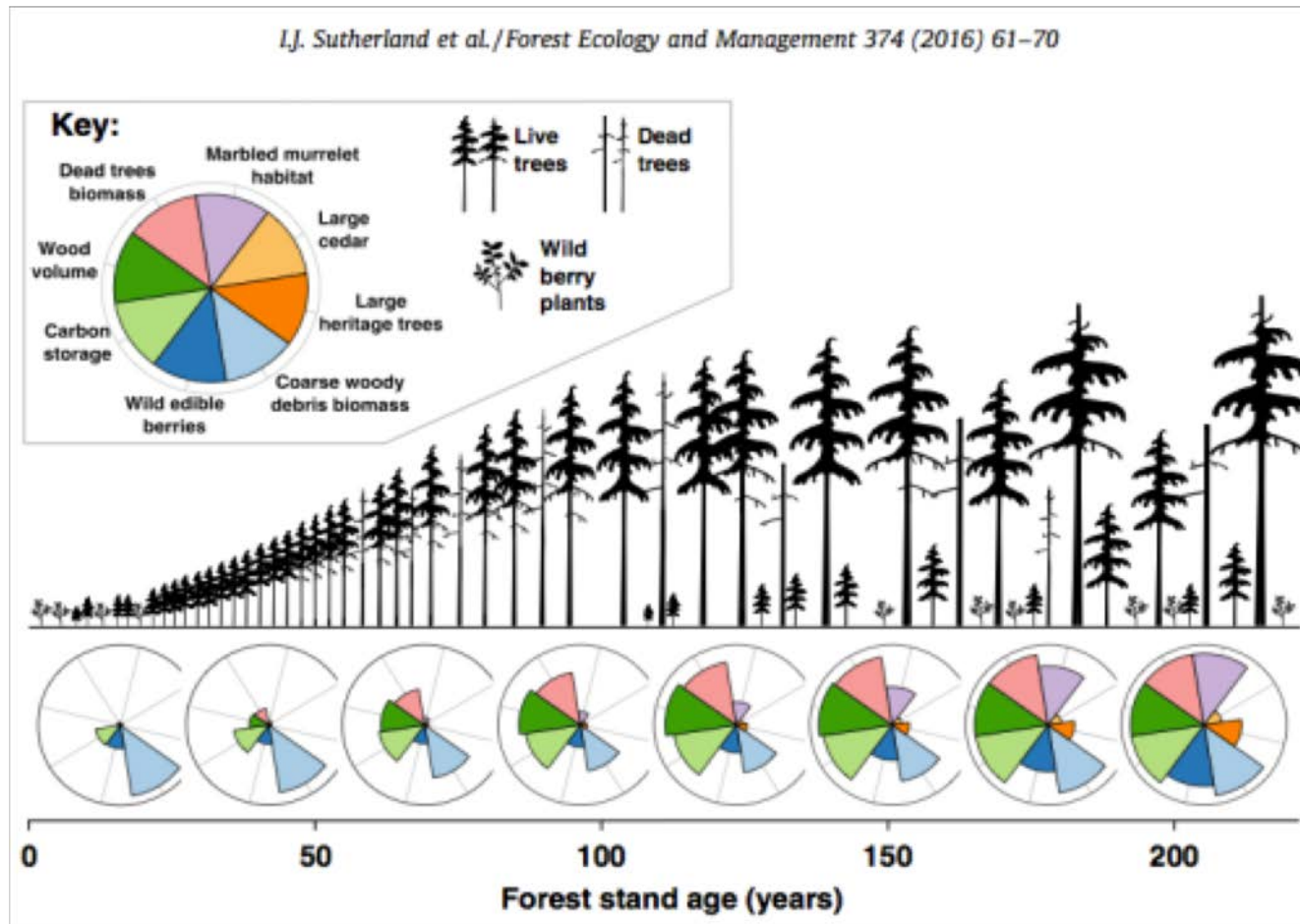# Historic tree planting

- Managing within policy framework/budget

Historic tree planting

- Relationship / proximity

Tree planting

- Need to consider maturing tree population

I.J. Sutherland et al./Forest Ecology and Management 374 (2016) 61–70

Customer contacts

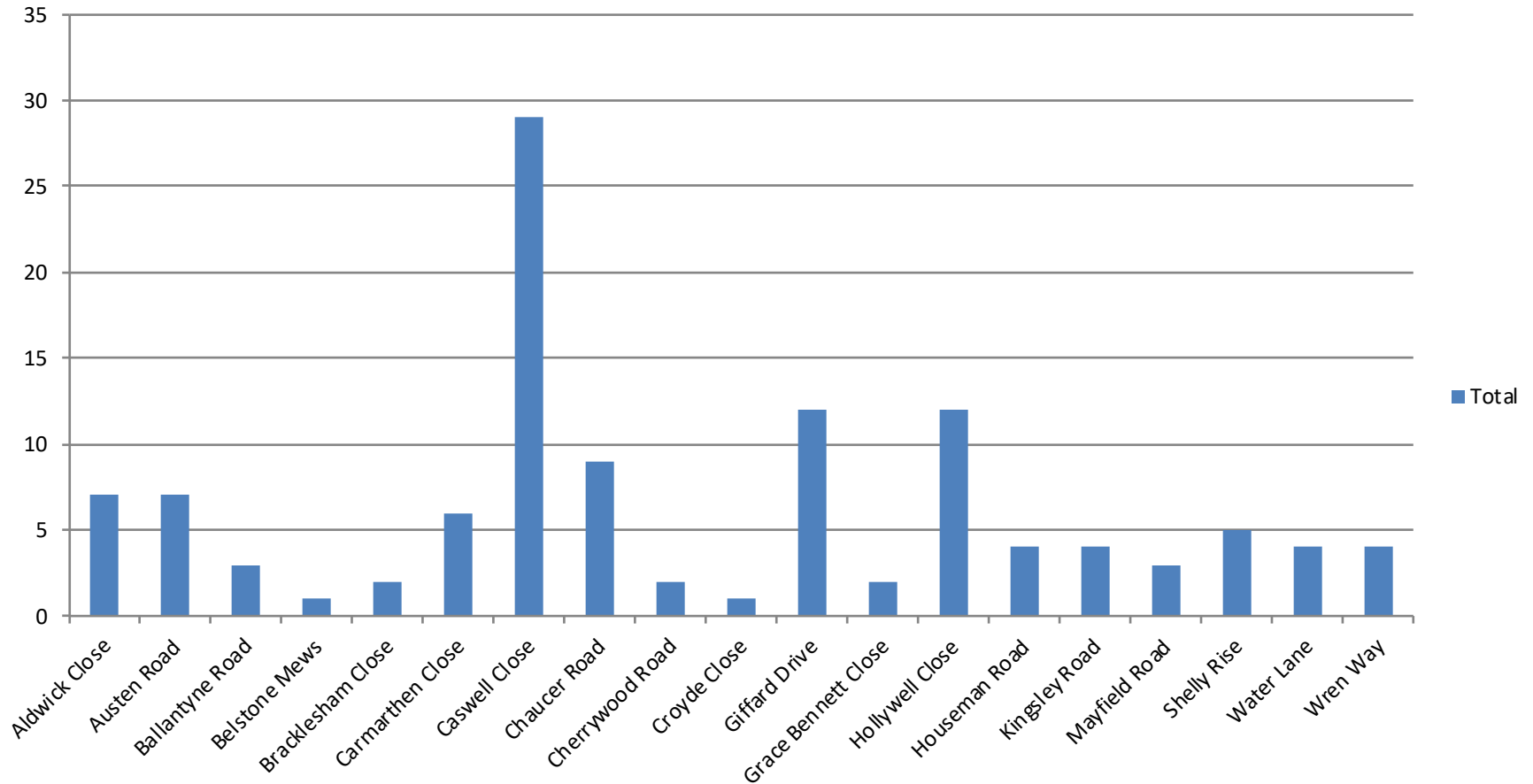- In the last 5 years there has been c117 tree related enquiries (c24 p.a. average)
- In the main these relate to concerns about
  - Proximity and size of tree (85%)
  - Concerned about tree/condition/failure (25%)
  - Debris/shade 21%
  - Damage 16%

Customer contacts

Proposed action

- Desktop survey using 2017 aerial photography to identify high priority areas warranting on-site inspection

Proposed action

- Identify high priority trees for removal where relationship with built environment is unsustainable in the medium to long term

- Identify suitable locations for replacement planting and by use of "right tree-right place" ensure treescape for future generations

Planting

- Right tre

21/12/2017 12:39

21/12/2

Proposed action

- Project plan

Activity	Pre	Year 1	2	3	4	5
Project scoping and secure funding source.	✓					
Ward member consultation and agreement to proceed.	✓					
Resident consultation - "What, Why & When"		✓				
Desktop survey to identify areas for inspection.		✓				
Inspection of trees to quantify and set priorities.		✓	✓			
Implementation of works for identified high priority trees.		✓	✓	✓		
Inspection of secondary priority trees (subject to budget).				✓	✓	
Implementation of the tree works identified on a prioritised basis (subject to budget).				✓	✓	
Assessment of available space for replacement tree planting and development of Planting Plan.			✓	✓	✓	
Tree planting.				✓	✓	✓
Ongoing review.		✓	✓	✓	✓	✓

Proposed action

- Costs

Costs Summary Table	£
1. Desktop survey (estimated 2 days)	1,000
2. Site survey (estimated 15 days)	6,000
3. Tree works (estimated at 100 removals)	34,000
4. Replacement tree planting (estimated at 60 trees)	12,000
Total Estimated Project Cost	53,000

Planned outcomes

- Relationship between trees and residents improved

- Less infrastructure damage.

- Replacement new "right tree - right place"

- Continuance of benefits of trees in the short, medium and long term

Legacy

- T... ...ith th...
- G... ...eir n... ...for th...

Legacy

- Tr[...] ith the[...]

21/12/2017 12:31

21/12/2017 12:39