



# Case Study

## Housing Department Footways

Simon Burrows  
Scott Wilson

# Housing Department Footways

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## Background

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Scott Wilson Ltd. is a multi-disciplinary consultancy with experience that includes;

- Data collection for highways
- Asset inventory collection
- Condition modelling
- Asset Management

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The Client's Housing Department is responsible for a network of;

- Common areas
- Drying areas
- Garage/parking areas
- Footpaths to properties
- Linking footpaths

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Project aims;

- Determine

- Location

Desktop

- Extent

exercise

- Type

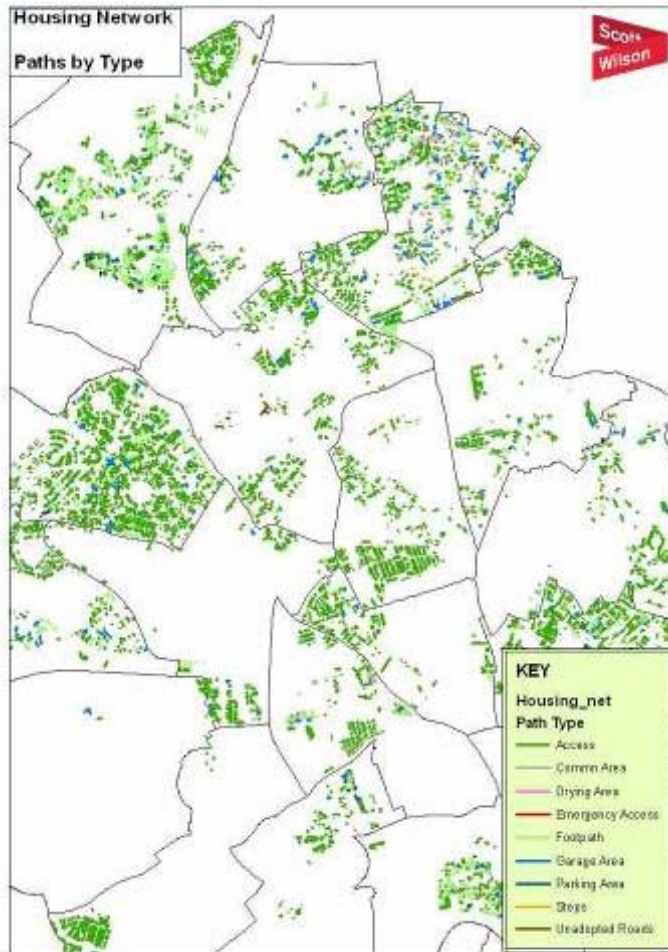
Site

- Condition

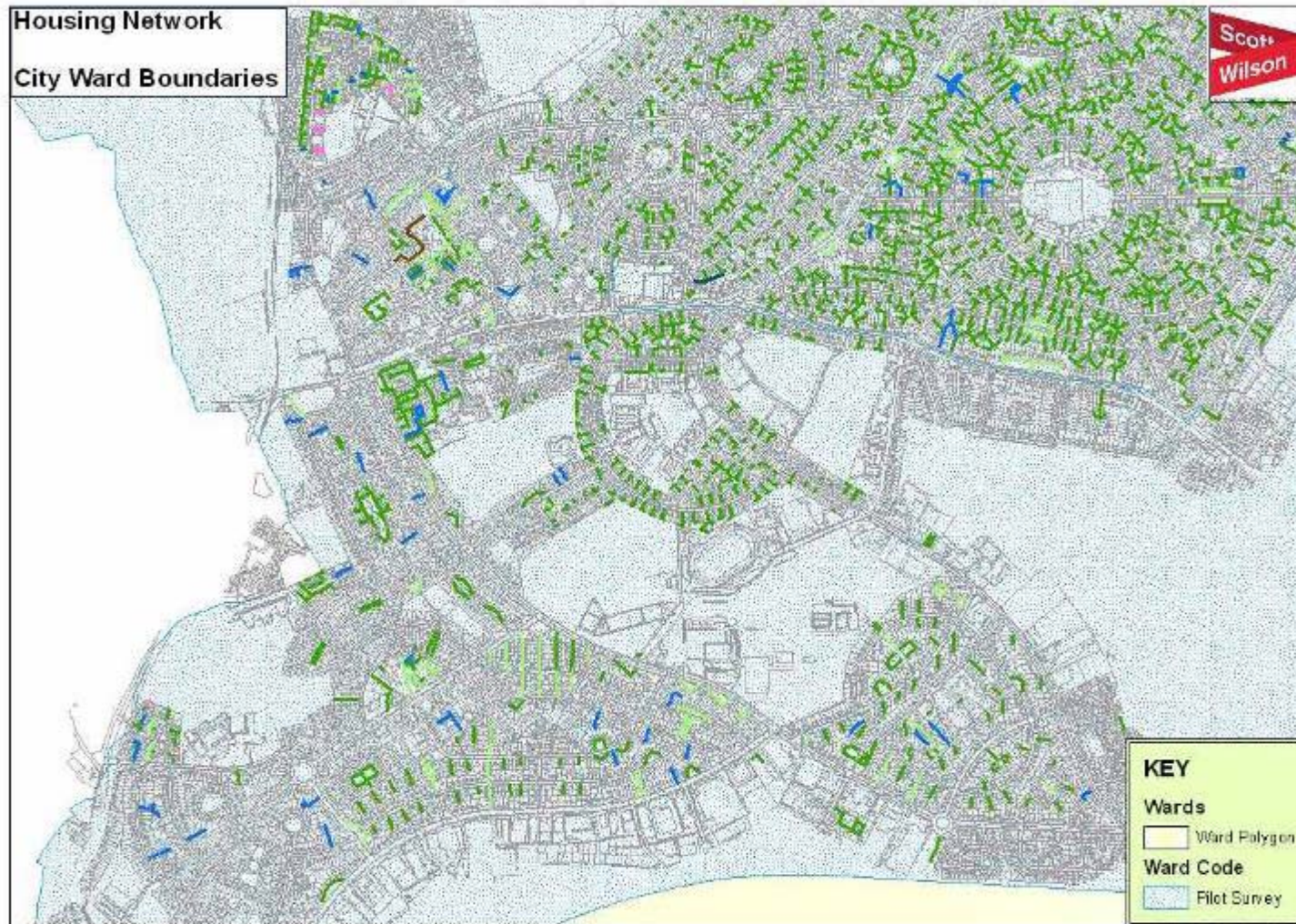
exercise

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## Stage 1: Digitising the Network



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## Stage 2: Assessment

- Suitable survey – ‘new’ Footway Network Survey
- Inventory and condition
- Data processing
- Feed into Asset Management

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Data collected;

- Surface type
  - Bituminous, flagged, concrete, block paved
- Extent
  - Length and width
- Condition

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As New

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Aesthetically Impaired



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## Functionally Impaired



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Structurally Unsound



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## Survey Issues

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Work in progress

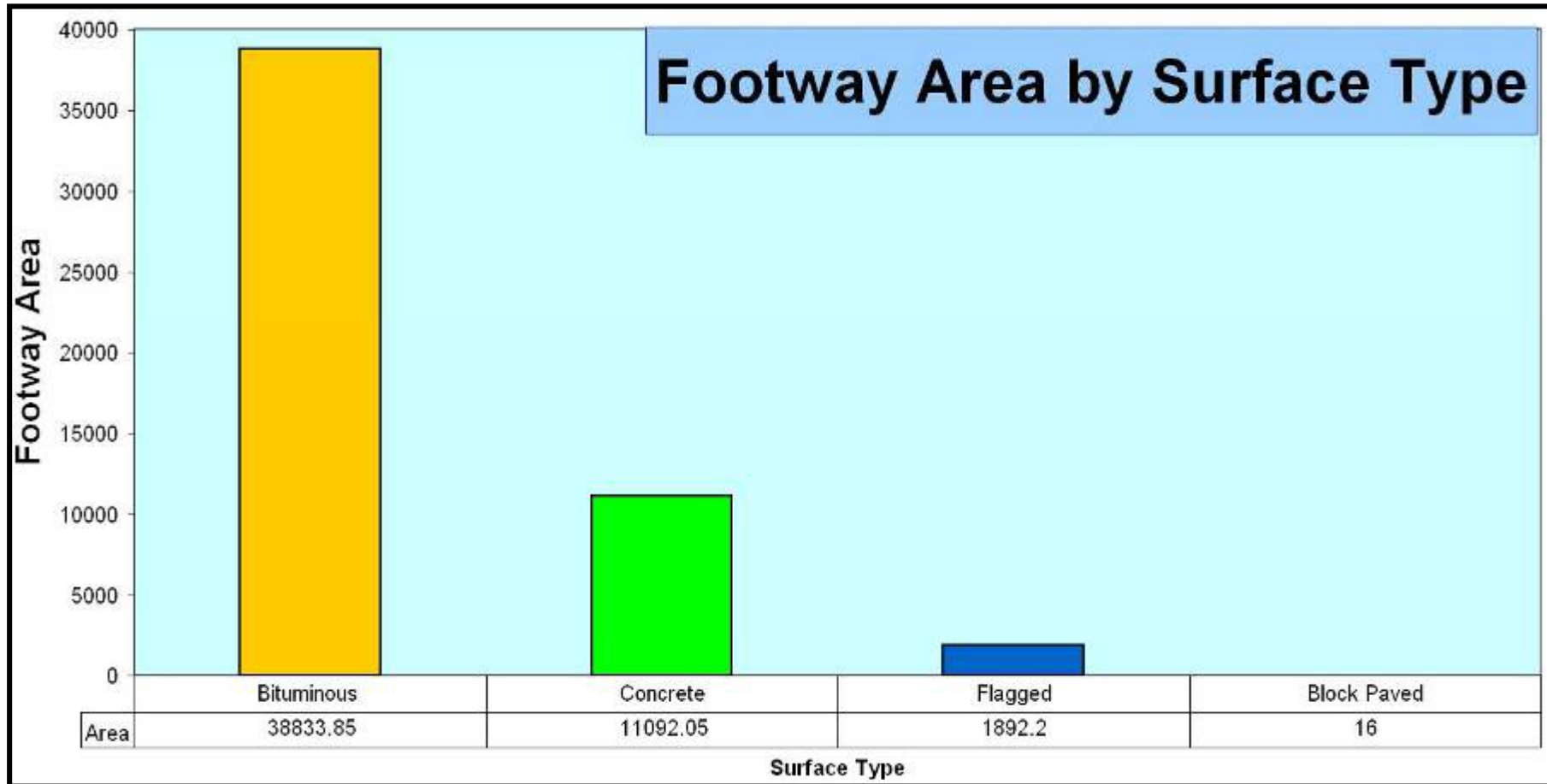
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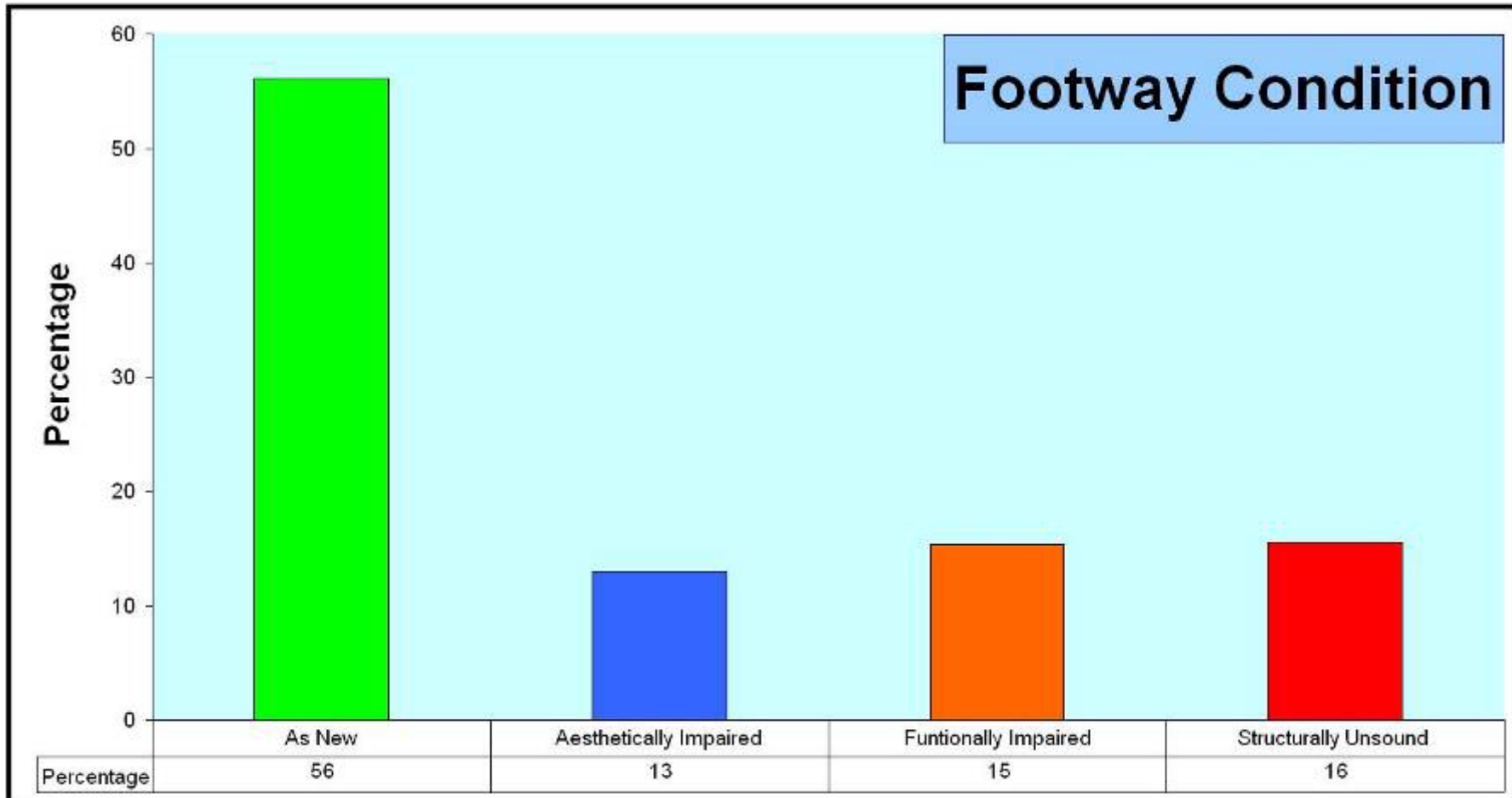


Data Analysis

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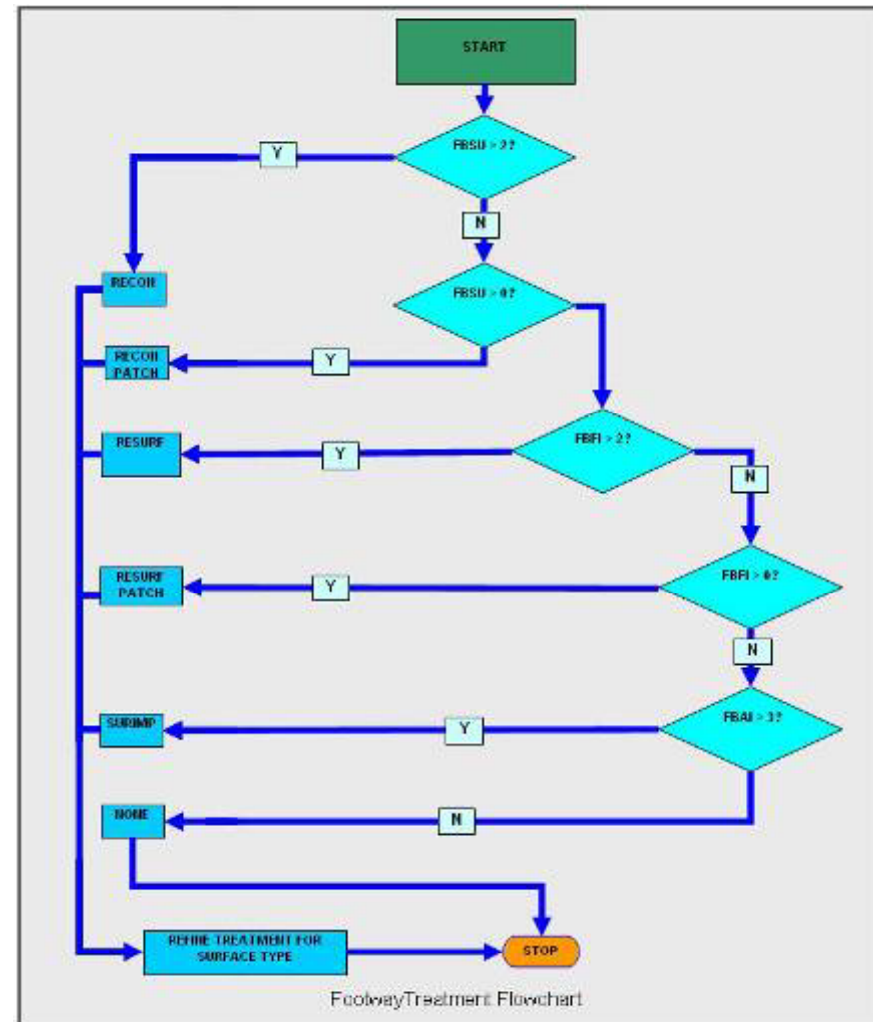
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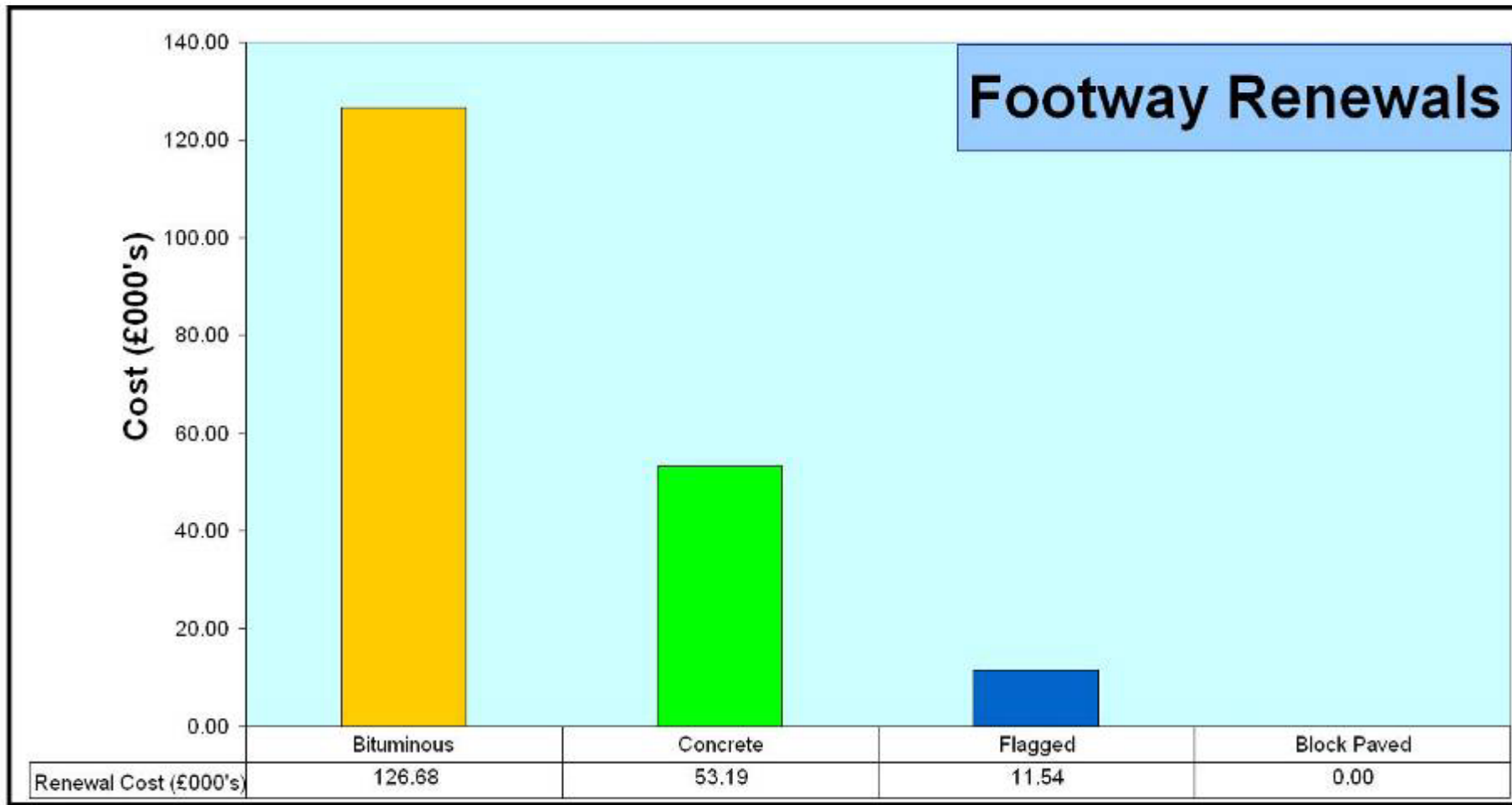
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## Treatment Selection



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## Asset Valuation – Pilot Survey

| <b>ITEM</b>                           | <b>Value (£)</b> |
|---------------------------------------|------------------|
| <b>Footway Gross Replacement Cost</b> | <b>1,373,561</b> |
| <b>Accumulated Consumption</b>        | <b>191,405</b>   |
|                                       |                  |
| <b>Depreciated Replacement Cost</b>   | <b>1,182,155</b> |
|                                       |                  |

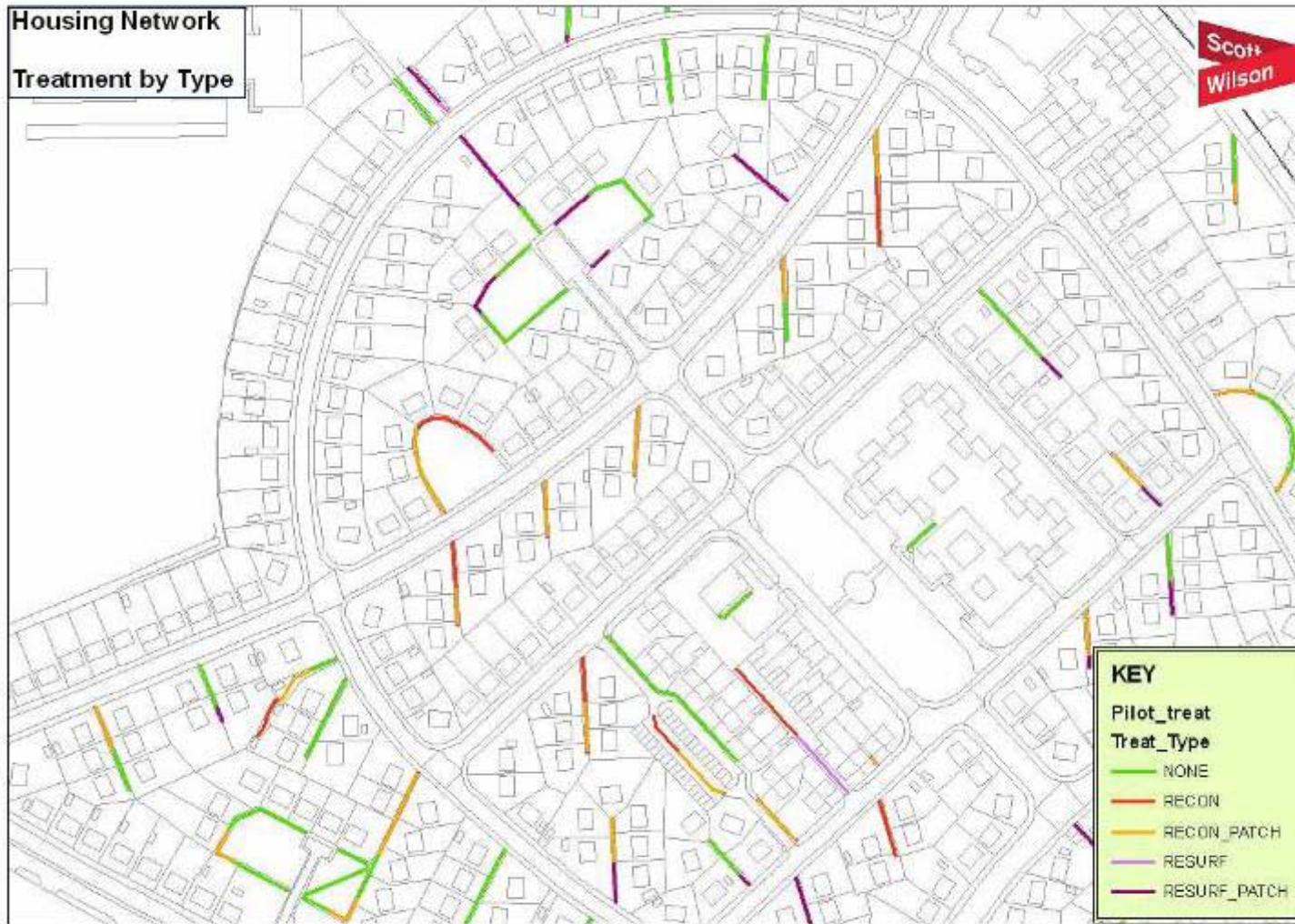
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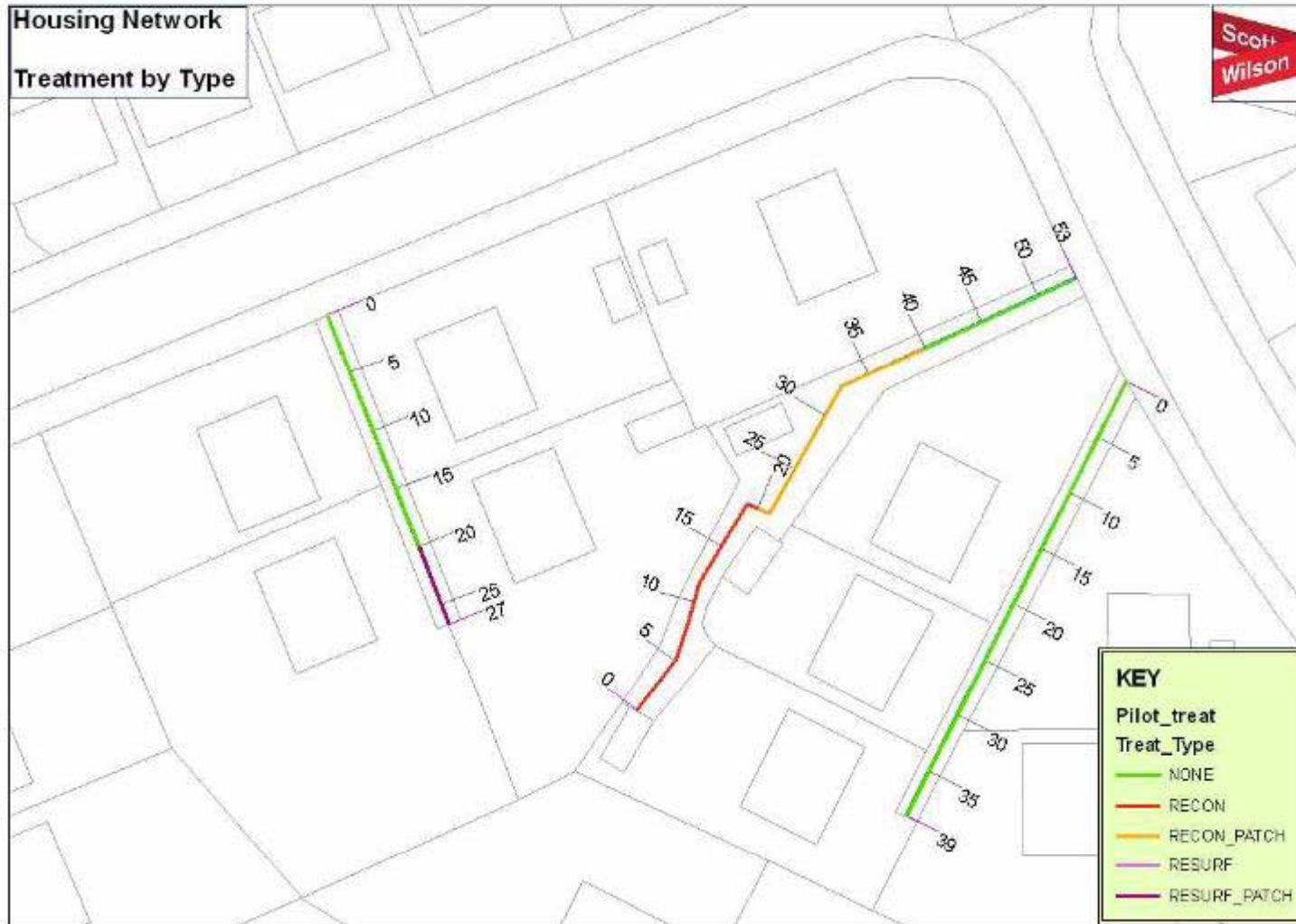
## Estimated Network Asset Valuation

| ITEM                                  | Value (£)                |
|---------------------------------------|--------------------------|
| <b>Footway Gross Replacement Cost</b> | <b>22,000,000</b>        |
| <b>Accumulated Consumption</b>        | <b>2,000,000</b>         |
|                                       |                          |
| <b>Depreciated Replacement Cost</b>   | <b><u>20,000,000</u></b> |
|                                       |                          |

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## Benefits

- Database of footways, parking, shared areas
- Extent of network known
- Assets located

## Pilot Survey

- Data verified on site
- Inventory and condition known
- Valuation
- Remedial works identified

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## Summary

- Base network mapped in GIS
- Pilot survey complete
- Productivity around 3 – 3.5 km/day
- Few practical problems
- Draft treatments and costs produced

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Questions ?



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