

APPENDIX 1

ROAD RESURFACING AND CONDITION ASSESSMENT

Schemes recommended for planned maintenance under the Principal and Non Principal Road Capital Improvements programme for 2015/18 as listed have been selected using the Horizons software package.

Horizons is a web based mapping application which allows Highway Engineers to visualise, manage and optimise asset management strategies. The software package is based on a combination of Graphical Information System (GIS), Pavement Management and Asset Management systems. It provides the facility to view and assess the condition of the highway assets, assess maintenance and replacement requirements, and provide a programme for structural repairs based on whole life principles. This allows optimum use of the available highway funding. The software identifies and prioritises highway maintenance schemes, and determines the cost implications of various treatments.

Historically, the capital funded highway maintenance programme for carriageways and footways has been based on a 'worst first' basis with additional patching works in targeted areas. The intention now is to move towards the implementation of Asset Management best practice. The medium to long term aim is to factor in whole life costing and locally relevant priorities to deliver a holistic programme that improves the highways for all users in the Borough.

The overarching aim is to be able to allocate capital funding based on whole life costing moving from a 'worst first' methodology to a fully fledged asset management approach. The 2013-14 programme saw the first stage development of this approach using the Horizons software system to deliver a more holistic approach and this has continued.

For the 2015-18 investment selection preparations the following condition and inventory data was imported into Horizons to develop the Programme.

- SCANNER survey data for A, B and C roads for 2010/11, 2011/12 and 2012/13. Giving coverage of the complete classified road network as defined for the ROAD2000 project.
- DVI survey of 50% of the unclassified carriageways and footways in 2011/12 and 2012/13 and a full network survey in 2013/14.
- GIS model for the UKPMS road network.
- Schemes are first ranked on condition, however, Horizons allows further ranking to be undertaken using additional priorities. The following GIS layers were imported into horizons and any schemes generated in the same location as these additional priorities were given a boost to their condition score. This improved their ranking within the scheme selection:
 - Cycle Routes
 - Bus Routes
 - 1 and 24 hour reactive repair works.