











Transport

Design





<u>Maintenance</u>

Northamptonshire **Highway Maintenance** Initiative **Paul Hewitt** 6th March 2015

onsultancy



Northamptonshire Highways

Northamptonshire Highways?

The partnership between Northamptonshire County Council and KierWSP

Providing high quality highways and transport services to the people of Northamptonshire.

We will listen to what they say; act as one team; provide value for money and on-time delivery.







KierWSP – the company

Non-incorporated joint venture between:

Kier

- National infrastructure company specialising in highways, environmental and utility services
- Major LA highway services contracts include Lincolnshire, Suffolk, Surrey and East Sussex

WSP

- International consultancy working in over 35 countries the largest in the world
- Specialising in the built environment
- Relevant skills in highway design, structures, transport planning and modeling, ITS and environmental







KierWSP – the company

Integrated services contract commenced March 2008 **Key features**:

- 8 years extended to 12year 2008 to 2020
- Actual cost/target cost
- Total value of £550 million
- Annual value £40 million £50 million
- Around 400 employees
- Lean client prioritisation and budget management is with KierWSP
- Effective collaboration essential for success







KierWSP – the company

Northamptonshire Highway Network

- 4,200km carriageway network
- 3,000km footway network
- 124,000 highway gullies
- 447 bridges / 158 footbridges
- 3,065km rights of way network
- 422 signalised junction approaches









Why was change needed?

- Deteriorating network condition
- Repair quality
- Reducing budgets







Why was change needed?

• And ultimately WINTER









The Impact?

- 8x more category 1 defects
- Peak of 11,000 defect per month
- 25% increase in the workforce size
- 150% increase in temporary repairs
- Increase in claims
- 16x increase in complaints
- Political and press headlines









The New Approach?

- A planned approach, with longer lasting repairs
- Focus on prevention
- Utilisation of Revenue and Capital budgets
- Understanding and communication



Northamptonshire Highway Maintenance Initiative







Northamptonshire Highway Maintenance Initiative? Two Objectives

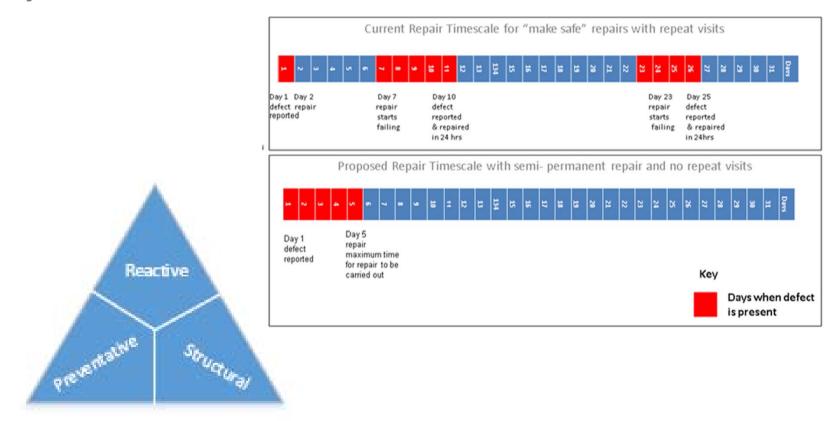
- Change the timescales for Cat-1 and Cat-2 repairs
- Move towards a preventative approach to halt further deterioration and maintain a steady state where possible.







Objective 1

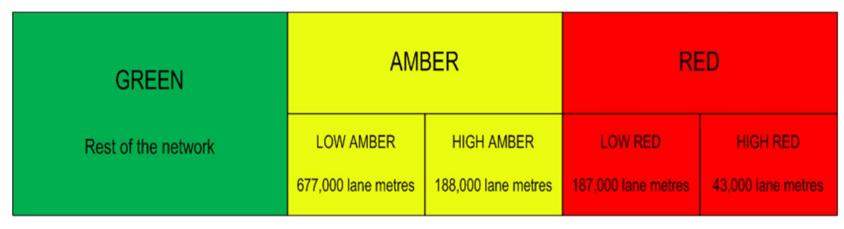








Objective 2







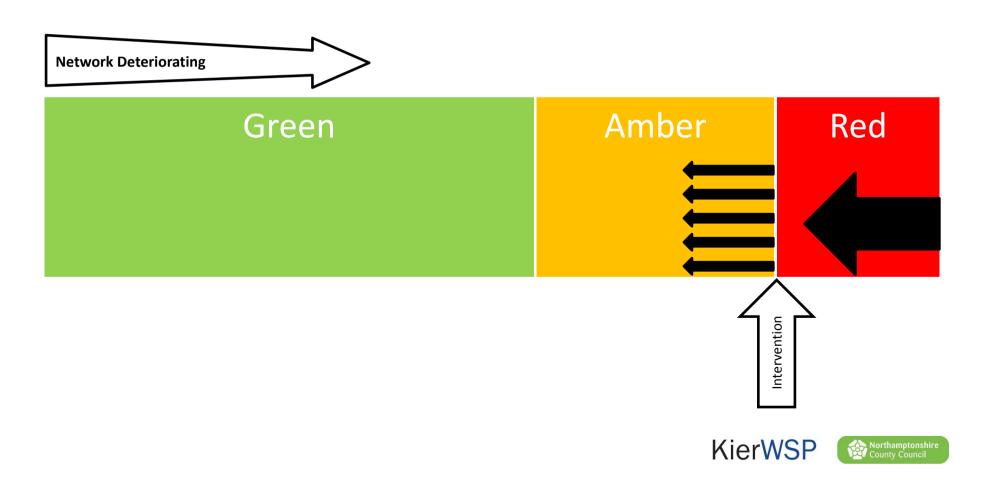
Maintenance Strategy







Preventative Approach





What have we achieved to date

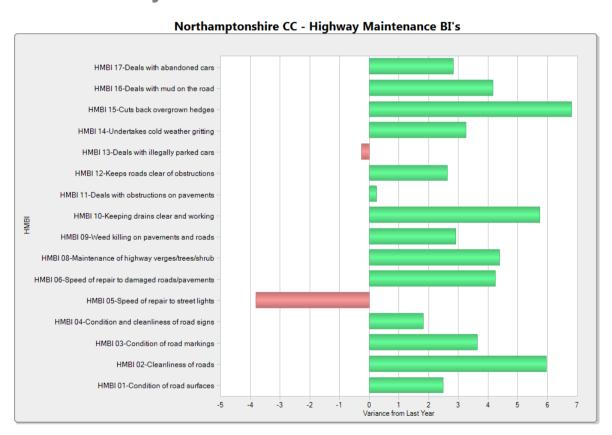
- A substantial increase in permanent/semi-permanent repairs which are in excess of 90% of all repairs carried out.
- Doing more whilst on site achieved a 9% increase in defects repaired over and above what was identified.
- A reduction in public reported carriageway potholes of 23%
- A 12% increase in repudiated claims
- Reduction in CO₂ emissions. More efficient planning of work has lead to less miles travelled and resulted in a £22,000k reduction in fuel use.
- Positive feedback increased.







2011 NHT Survey









Other factors affecting satisfaction ratings

- Asset Management
- Zero Based Budgeting
- Communications & PR
- Area delivery
- Culture and people
- Control Hub
- Contract

- practical approach
- allocate money to needs
- _
- local approach with area teams
- involve all staff in changes
- maximising efficiency
- facilitates focus on improvement

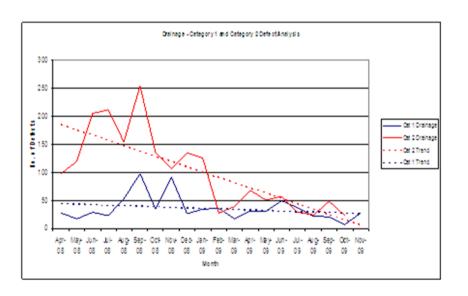






Asset Management Approach

- Practical & based around improved systems & data
- Gully maintenance gave significant service efficiencies





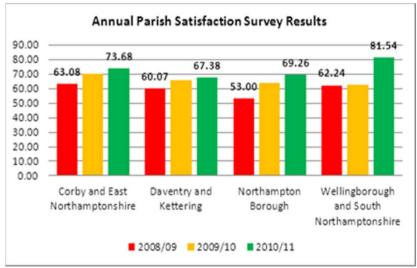




Area Delivery / Local Approach

 Area teams with local knowledge, ownership and responsibility

- PEG, CLO, StreetDoctor
- Year on year improvement in parish satisfaction









Control Hub

- Focal point for management,
 co-ordination, information and control
- Ensures effective and efficient delivery
- Significant savings and improved quality of service









A different service approach and delivery

- A "one-team" and "outcome focussed" approach
- A 3-year change that showed results
- Based on a step-by-step approach... building up data, understanding the data and using technology to drive an improved service.







The next stages

- The NHMI is now adopted as our day-to-day maintenance strategy
- The concept of prevention is better than cure is embedded in what we do, but will be further developed and embedded
- We reviewed and developed our scheme identification and prioritisation process to align with the new maintenance strategy.







Scheme Identification

and

Prioritisation for Future Works Programmes

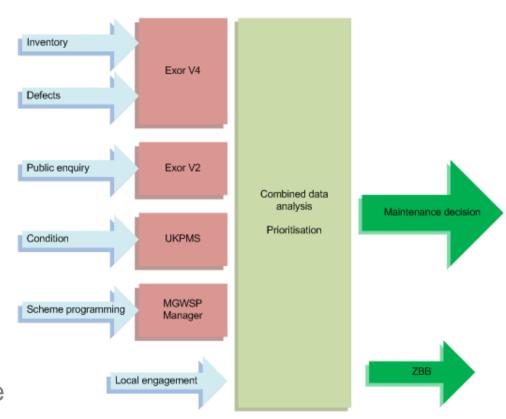






Our approach now

- Inventory
- Defects
- Public Enquiries
- Condition
- Planned Schemes
- Local feedback & knowledge



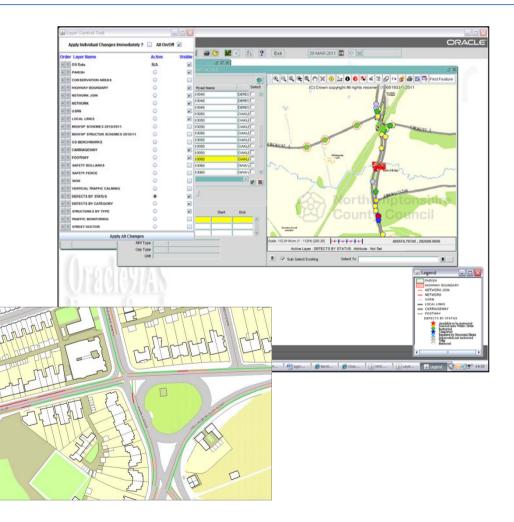






Our approach now

- Defects mapped
- Intervention
- Machine survey data mapped

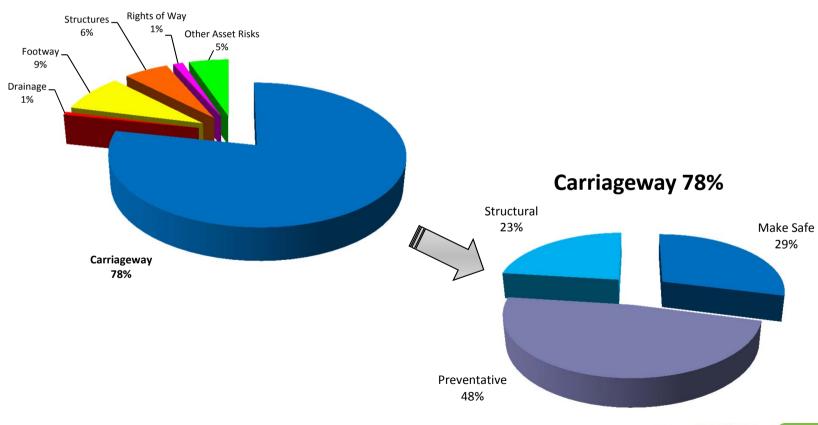








Budgets



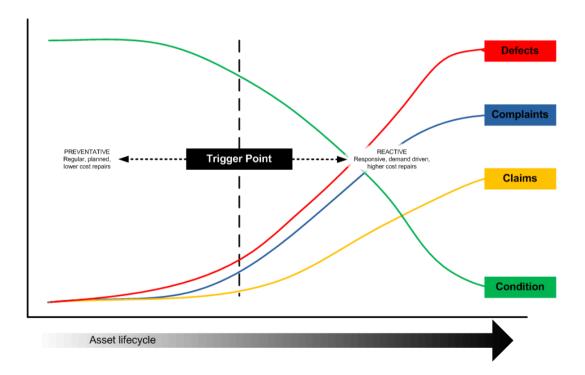






Why Prevention is Important

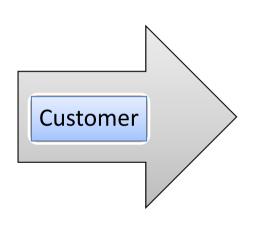
- Data analysis
- Prioritisation
- Design for impact and maintenance.

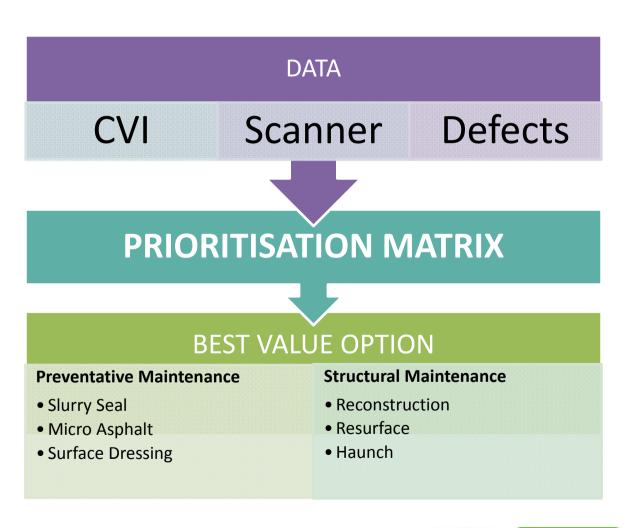


















Maintenance Strategy Going Forward

- Our initial focus is on improving the condition of the local network
- The impact of this is that the condition of the strategic road network could deteriorate slightly, but the aim is to maintain its current condition
- Condition data will be reviewed each year and the strategy updated as necessary.







Thank you.



