

www.surrey.gov.uk Making Surrey a better place

**ASSET MANAGEMENT
FOR THE HIGHWAY NETWORK**

Stephen Child
Asset Management Group Manager

1

www.surrey.gov.uk Making Surrey a better place

“Asset management is a strategic approach that identifies the optimal allocation of resources for the management, operation, preservation and enhancement of the highway infrastructure to meet the needs of current and future customers.”

Framework for Highway Asset Management

2

www.surrey.gov.uk Making Surrey a better place

DRIVERS FOR CHANGE

- LTP2 Guidance
- Resource Accounting and Budgeting
- Good Management Practice
- Improving Service Delivery
- Valuable Asset
- DfT expects no overall deterioration in the road conditions

3

www.surrey.gov.uk Making Surrey a better place

Not a new concept but must be:

- Effective
- Customer Focussed
- Deliver value for money

4

ASSET MANAGEMENT

www.surrey.gov.uk

Making Surrey a better place

- **Links activities**
- **Improves management effectiveness**
- **Delivers better value for money**
- **Provides a customer focussed service**
- **Demands longer term planning**

5

SURREY

www.surrey.gov.uk

Making Surrey a better place

6

FUNDING STREAMS

www.surrey.gov.uk

Making Surrey a better place

Central Government – LTP (Capital)

- Major Schemes
- Integrated Transport Schemes
- Maintenance
 - Bridges
 - Highways
 - Carriageways
 - Footways
 - Street Lights
 - Safety Barriers
 - Drainage

7

FUNDING STREAMS

www.surrey.gov.uk


Making Surrey a better place

Central Government – LTP (Capital)

- Major Schemes
- Integrated Transport Schemes
- Maintenance
 - Bridges
 - Highways
 - Carriageways
 - Footways
 - Street Lights
 - Safety Barriers
- Prudential Borrowing
- Locally determined capital
- Local Allocation
- Revenue
- External contributions (S38/S278)

8

BUDGET FOR 2006/07


www.surreycc.gov.uk


Making Surrey a better place

Capital (LTP)	ITS	=	£ 11.976	
	Structures	=	£ 4.509	
	Highways	=	£ 9.450	
	Prudential Borrowing	=	£ 5.000	
	Locally Determined Capital	=	£ 2.675	
	Revenue Maintenance	=	£ 27.257	

	TOTAL	=	£ 60.867	

9

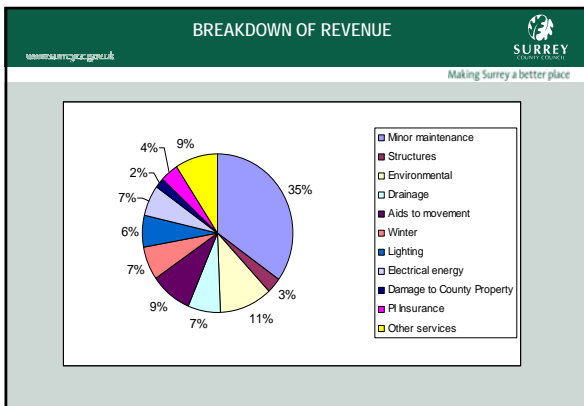
CAPITAL HIGHWAY MAINTENANCE ACTIVITIES AND FUNDING SOURCES



www.surreycc.gov.uk

Making Surrey a better place

	LTP	Prudential	Locally Determined Capital	LDC (Footways)
Major Maintenance	£7.2	£1.7		
Surface Treatment		£2.5		
Local Structural Repair			£2.5	
Street Scene		£0.8		
Footways	£1.4			£0.175
Drainage	£0.3			
Barriers	£0.2			
Traffic Systems	£0.25			
Contingency	£0.1			
TOTAL	£9.45	£5.0	£2.5	£0.175

10



- SPENDING DECISION**
- 
www.surreycc.gov.uk
- Making Surrey a better place
- A. Revenue – fixed by activity**
- Based on historic need/use or known asset need**
- Winter maintenance
 - Gully emptying
 - HIS works (minor maintenance)
 - Refurbish roadmarkings
 - Streetlighting
 - Electrical energy
 - Trees
- 12

SPENDING DECISION

www.surrey.gov.uk

Making Surrey a better place

B. Revenue – variable for an activity
Based on level of service agreed/demanded

- Aids to movement
- Snowfall
- Community gangs
- Verge and tree maintenance
- Drainage
- Minor maintenance

13

SPENDING DECISION

www.surrey.gov.uk

Making Surrey a better place

Capital Maintenance - Bridges

- 5 year programme of bridge strengthening priorities based on assessments and Bridge Condition Index
- Annual programme for design and construction

14

SPENDING DECISION

www.surrey.gov.uk

Making Surrey a better place

Capital Maintenance – Highways
Countywide strategic decision on balance between activities such as carriageway, footways, street lighting

- Needs based assessment considering carriageway condition and with local input produces a 5 year prioritised programme
- Annual programme for design and contribution
- Footway improvement currently based on local bid however prioritisation process being considered
- Streetlighting renewal programme has slowed in anticipation of PFI

15

SPENDING DECISION

www.surrey.gov.uk

Making Surrey a better place

Prudential funding - as per major maintenance

Locally determined capital - LSR – targeting, preventative

Local allocation - via Members approval

16

ASSET MANAGEMENT

www.surreycc.gov.uk

Making Surrey a better place

Require knowledge of:

- Asset inventory
- Asset condition
- Maintenance history
- Level of service accepted
- Policies and standards

Utilise:

- Prediction models
- Spending models
- Whole life costing
- Asset management system

17

HOME IMPROVEMENT

www.surreycc.gov.uk

Making Surrey a better place



- Touch up paintwork
- Rub down areas and paint
- Take back to bare wood and paint
- Cut out rotten timber and replace
- Total replacement

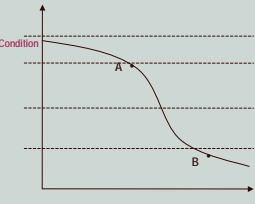
Roads can be viewed in a similar way

18

DETERIORATION

www.surreycc.gov.uk

Making Surrey a better place



When to undertake maintenance?

At A = preventative (cost effective restoration)

At B = reconstruction

Balance of work between A and B must be right or rate of deterioration will result in more roads at B than can be funded

19

HIGHWAY MAINTENANCE STRATEGY

www.surreycc.gov.uk

Making Surrey a better place

- Increased proportion of spend targeted at earlier, preventative work
- Priority to funding higher category highway safety inspection defects
- Allocate funding based on standards (this will be linked to agreed levels of service in the future)

20

ASSET MANAGEMENT SUMMARY

www.surrey.gov.uk

Making Surrey a better place

- **Recognise requirement to solve local problems**
- **Recognise involvement of Local Committee**
- **Less flexibility**
- **Need to meet Asset Management principles**
- **Longer term planning and prioritisation**

21

CONCLUSION

www.surrey.gov.uk

Making Surrey a better place

Asset Management is the foundation for an effective, value for money, customer focussed highway service.

22

ASSET MANAGEMENT

www.surrey.gov.uk

Making Surrey a better place

Thank you for listening

23