

Are you an engineer or a data manager?







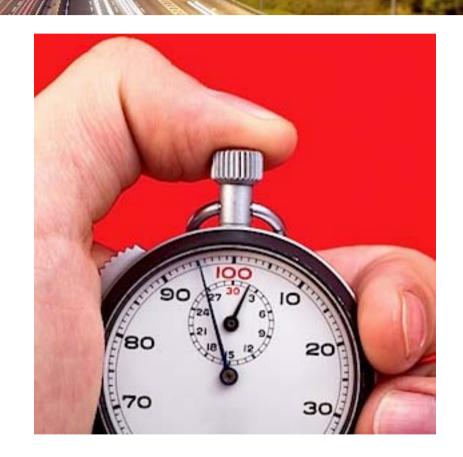
Guiding principles for operational data.







Guiding principles for operational data



TIMELINESS





Guiding principles for operational data



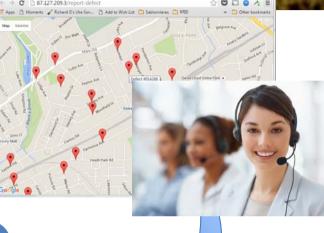
TRANSPARENCY





How can these principles be achieved?





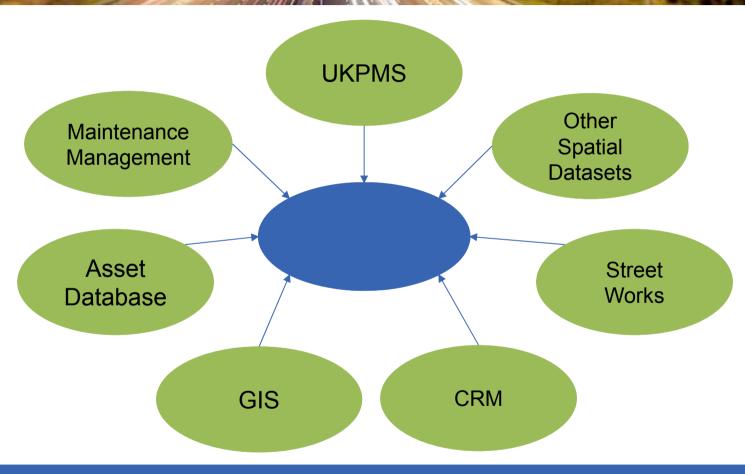
Mobile Working







Potential of Data

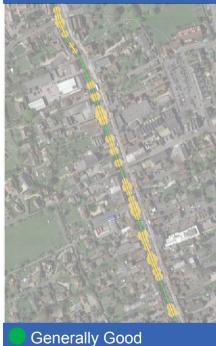






Understanding Asset Performance

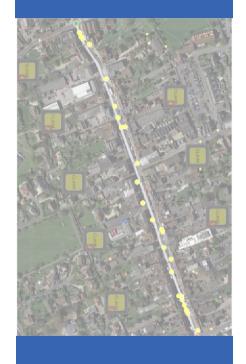
Road Condition Index



Accident Hotspots



Claims



Defects





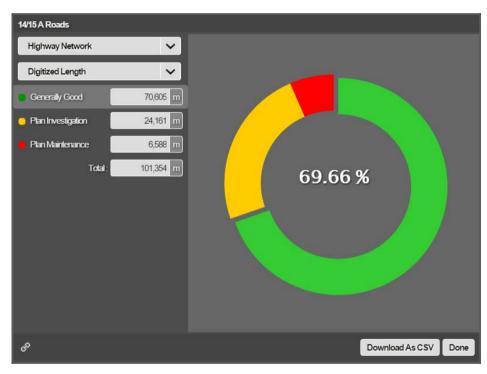


2 Accidents 3+ Accidents





Understanding Asset Performance – Visualising data









Understanding Asset Performance – Visualising detailed data

- Texture
- Texture Variability
- Ride Quality
- Cracking
- Rutting











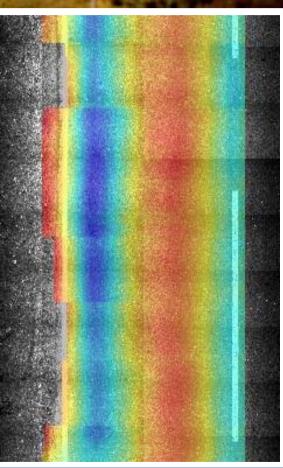




Understanding Asset Performance – Visualising detailed data







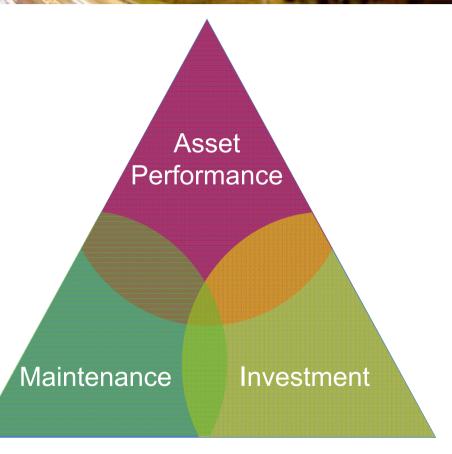




Strategic Asset Management Decisions

Modelling

- Locally calibrated
- Evaluate a range of future scenarios
- Optimal Multi-year Works Programmes
- Consider Stakeholders
- Dynamic modelling







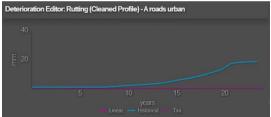
Strategic Asset Management Decisions

Basic Components of Modelling

Inventory and Condition

- Deterioration modelling
- Treatment Rules, Costs and Effects







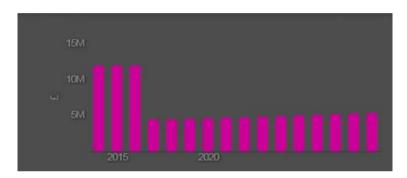




Strategic Asset Management Decisions

Basic Components of Modelling

- Budgets & Targets
- Scheme priority weighting factors









Benefit Cost Ratio (BCR) – Optimal scheme selection across the network







Scenario Analysis

Asset
Performance
achieved for
different
levels of
investment



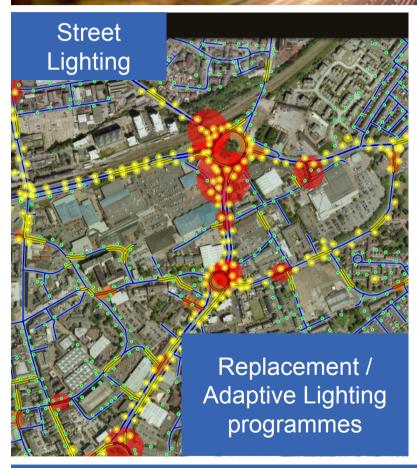
Investment required to achieve a performance target for different maintenance strategies







Asset Management on all Assets











- Data Management is key for sound asset management
- Data integration and visualisation leads to a better understanding of asset performance
- Base decisions on the wealth of data available to you



