






What should a good PMS offer?

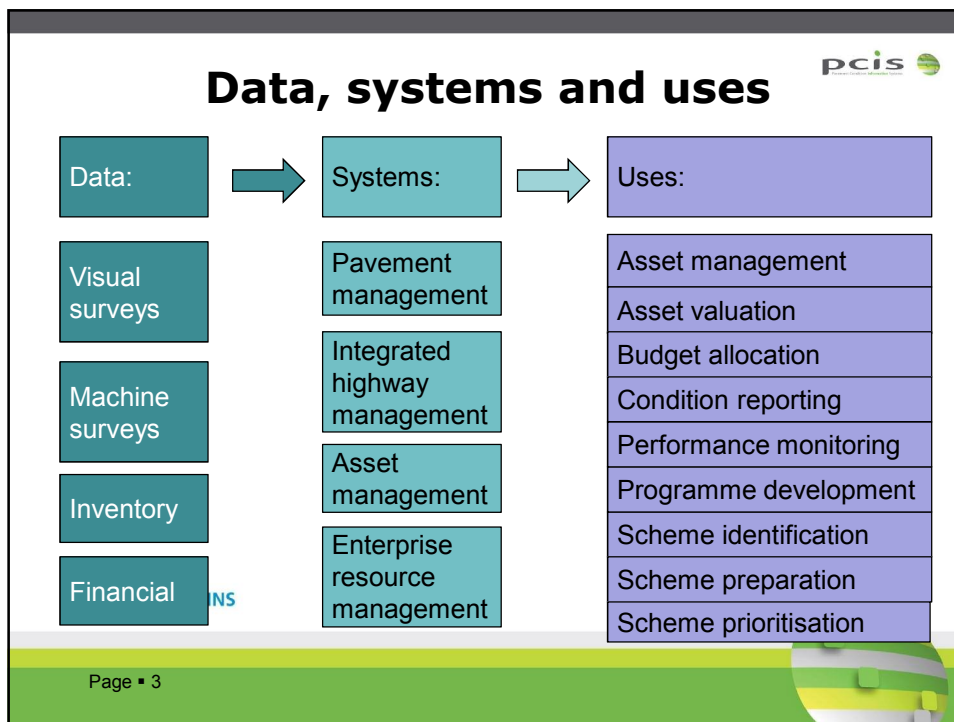
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Topics

- Definitions
- What is a PMS for?
- What does a PMS do?
- What does a PMS include?
- Network level and project level






Context pcis



- The following slides summarise our **CONCLUSIONS** about what a good PMS should be able to offer
- We want you to help us define **which** of those capabilities should be in the **core** functional specification
- And, more importantly, **WHY** they have to be in the core (nationally defined)

TRL ATKINS


Definitions





- Pavement management is:
"A business-like approach to the management of paved highway assets, including roads, kerbs, footways and cycle tracks"
- A pavement management system (PMS) is:
"A set of tools or methods that assist decision makers in finding optimum strategies for providing, evaluating and maintaining pavements in a serviceable condition over a period of time"



Definitions



- Pavement management is a management approach used by people to make cost effective decisions
- A PMS is a set of tools used to assist managers in reaching those decisions
- A key objective for a local highway authority in having a PMS is to improve the decision making process



Pavement Management System

- A PMS provides:
 - A tool to assist decision making based on consistent information
 - A logical framework for dealing with information to produce reliable decisions



Pavement Management System

- A PMS can help a local highway authority to:
 - Apply more cost effective treatment strategies
 - Allocate funds to pavement sections that will give the best performance for the funds allocated
 - Improve the overall quality of the authority's pavement networks



What is a PMS for?



- The primary use is to assist local highway authorities in planning the maintenance of a local road network through the systematic collection and analysis of condition data
- A PMS can be used by:
 - “Network managers” for planning road maintenance programmes
 - “Road area managers” for planning road maintenance schemes
 - “Technical teams” for evaluating pavement designs



What is a PMS for?






- To optimise maintenance during the life of the pavement, to meet a local authority’s economic constraints and performance requirements
- Information from a PMS is often integrated with other, wider asset management or enterprise resource management systems



At the network level



- Projects can be assessed to establish a multi-year capital maintenance programme
- Pavement management data, including inventory, condition and cost data are evaluated to
 - Prioritise network needs
 - Develop listings of recommended schemes and their respective treatments
 - Based on budget allocations

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At the project level

- The most economical design strategy capable of satisfying the overall project requirements, assuming various
 - Cost constraints
 - Engineering constraints
 - Performance requirements and
 - Environmental requirements

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What does a PMS do?



- A tool to assist consistent decision making
- Improving the decision making processes:
 - Budgeting
 - Network maintenance
 - Network operation
- Improved decision making requires:
 - Knowledge of current inventory
 - Evaluation of present condition
 - Estimation of future condition



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What does a PMS include?



- A PMS consists of three main components:
 - Systems to regularly collect highway condition data
 - Computer databases to sort and store the collected data
 - Analysis programs to evaluate repair or reconstruction strategies and suggest cost effective projects to maintain highway condition



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Network level



- As a network level decision support tool:
 - An inventory (detailed information on the extent and type of the pavement asset)
 - A condition assessment (detailed information about pavement condition)
 - A determination of the need (for maintenance compared with the desired service level)
 - Prioritisation of the projects needing maintenance or rehabilitation
 - A method to determine the impact of funding decisions
 - A feedback process




Issues for discussion






- Have we identified what a good PMS should be able to offer?
- **Which** of those capabilities should be in the **core** functional specification ?
- **WHY** should they be in the **core** (nationally defined) specification?





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THANK YOU



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