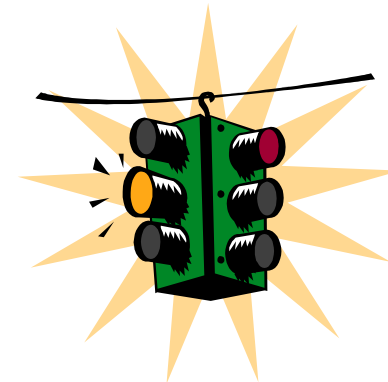




TC 4.1.1 - Asset Management Practise

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- PIARC TC 4.1.: Management of Infrastructure Assets
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TC 4.1.1 Report at a Glance

Introduction

Chapters

- State of art
- Key points from questionnaires
- Recommendation for Best Practise

Appendix

- TC 4.1.3 Users and residents

Annex

- Country case studies

Questionnaire

→ Main inquiries

- Range of RAM implementation
- Implementation challenges
- Framework of RAM approach

→ Statistics

- Respos from 15 Road Administrations
- Only few from developing countries and countries in transition

State of Art

- Clear objectives for managing assets in relation to owners and users
- Impact on administrative and business arrangements from trend in outsourcing and privatisation
- Importance of data and management systems to Road's AM approach

Key Points from Questionnaires

- No complete Road's AM in operation
- Asset Approach
 - Sub-asset management extensively in operation
 - Strategic corridor approach
 - Economical optimisation across sub-assets



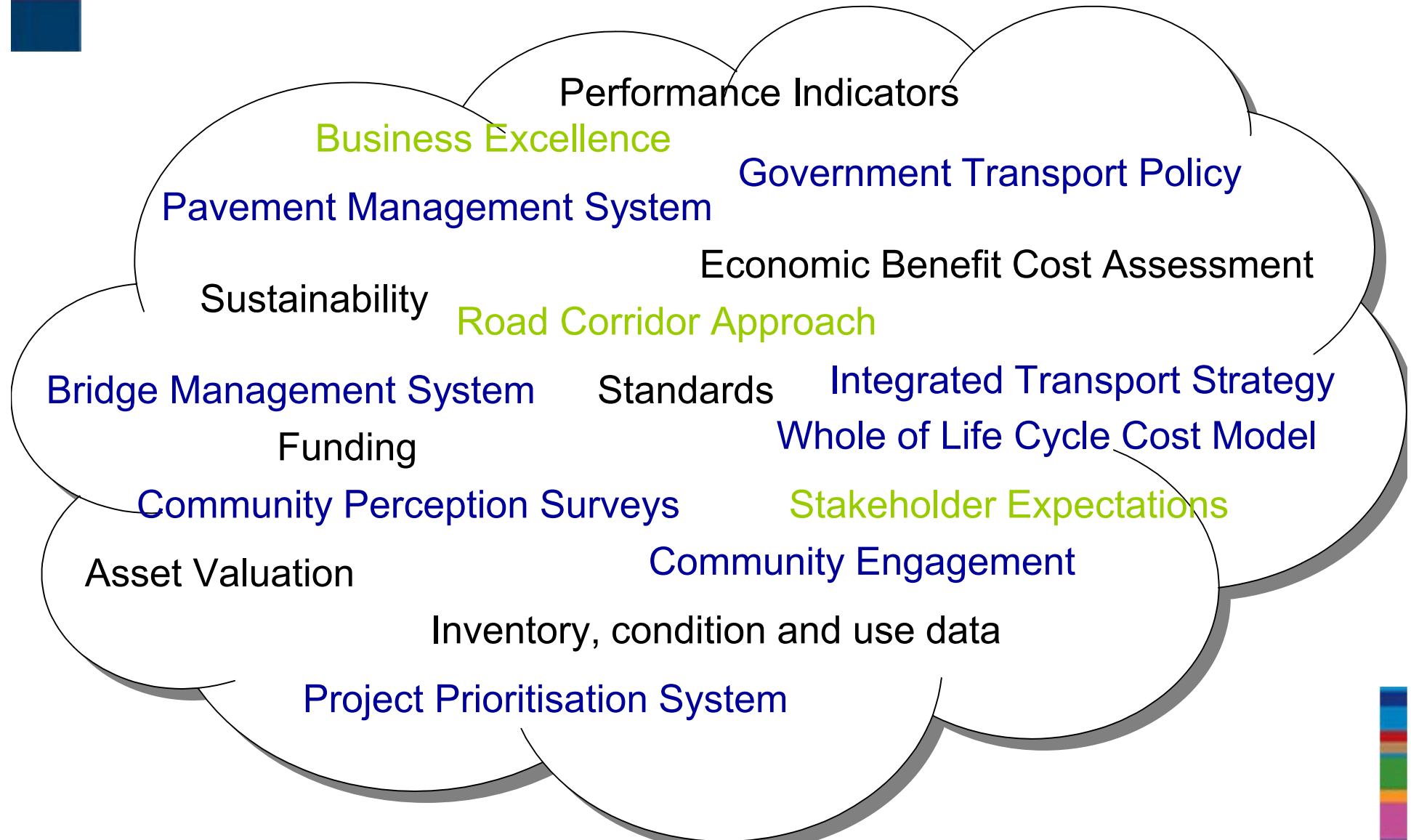
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Derived wisdom in Issue 4.1.1

- Components in AM of Roads
- Business Excellence in Road's AM
- Road's AM – red line process

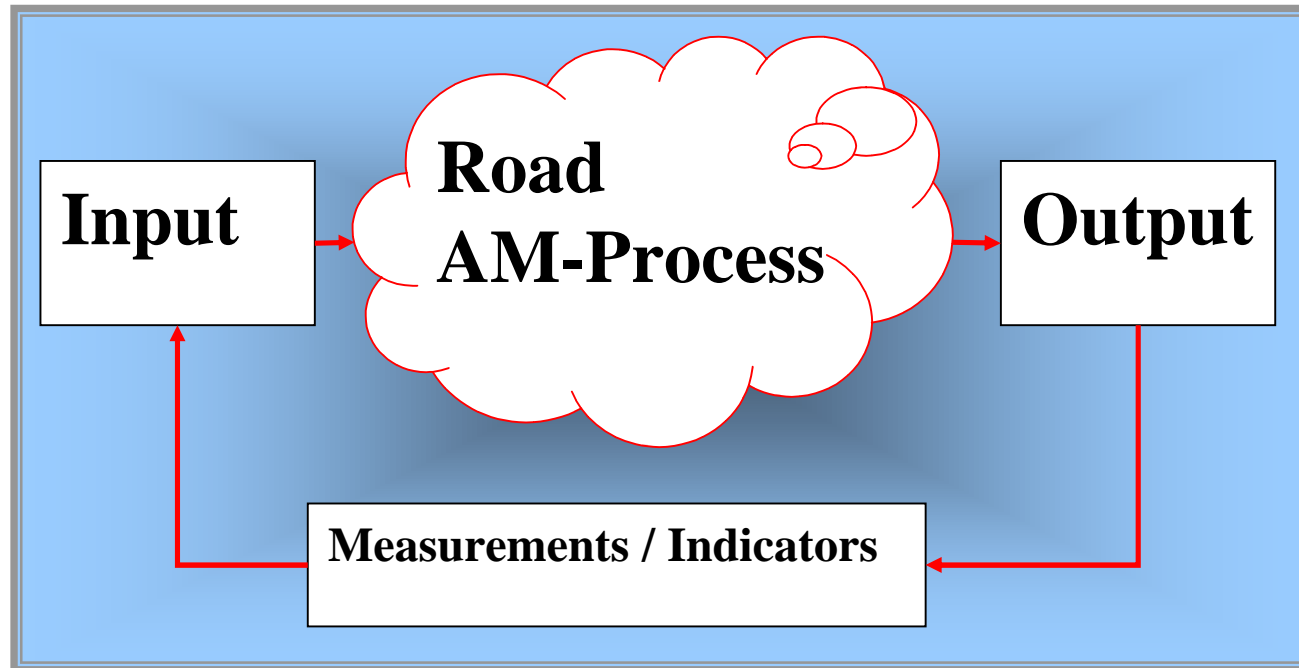


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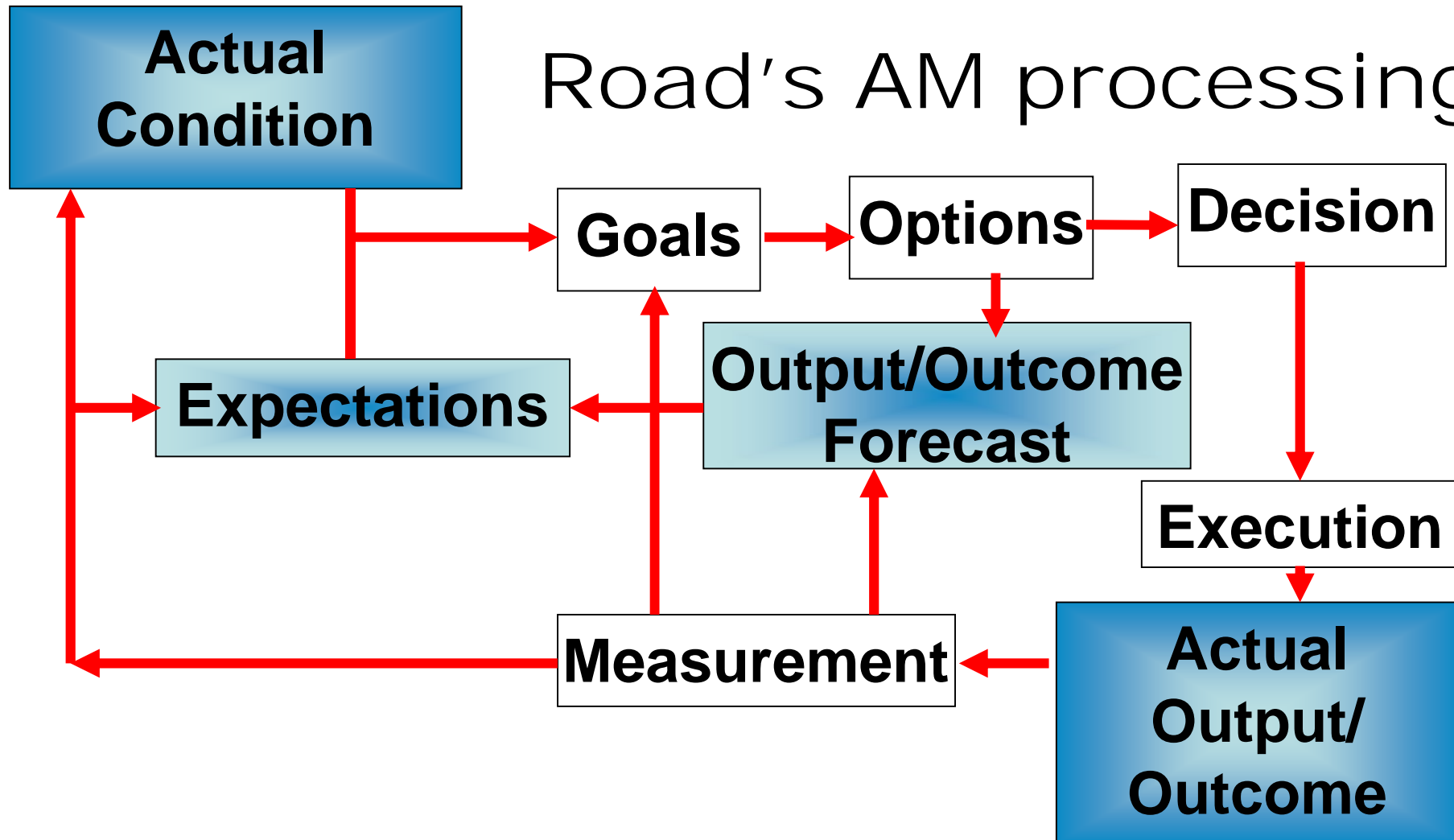
Business Excellence in AM of Roads



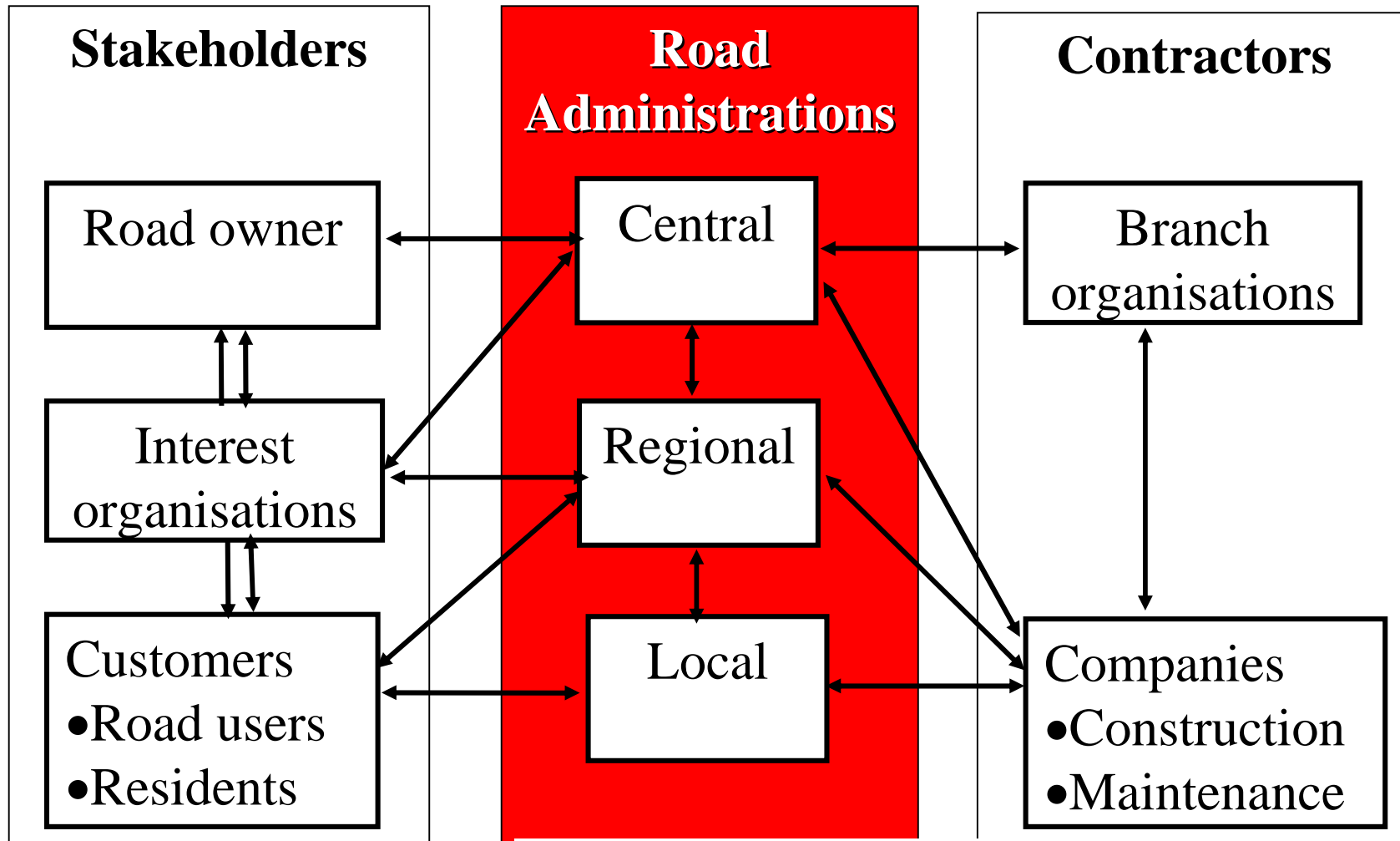
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The red line in

Road's AM processing



Road's AM partner relations

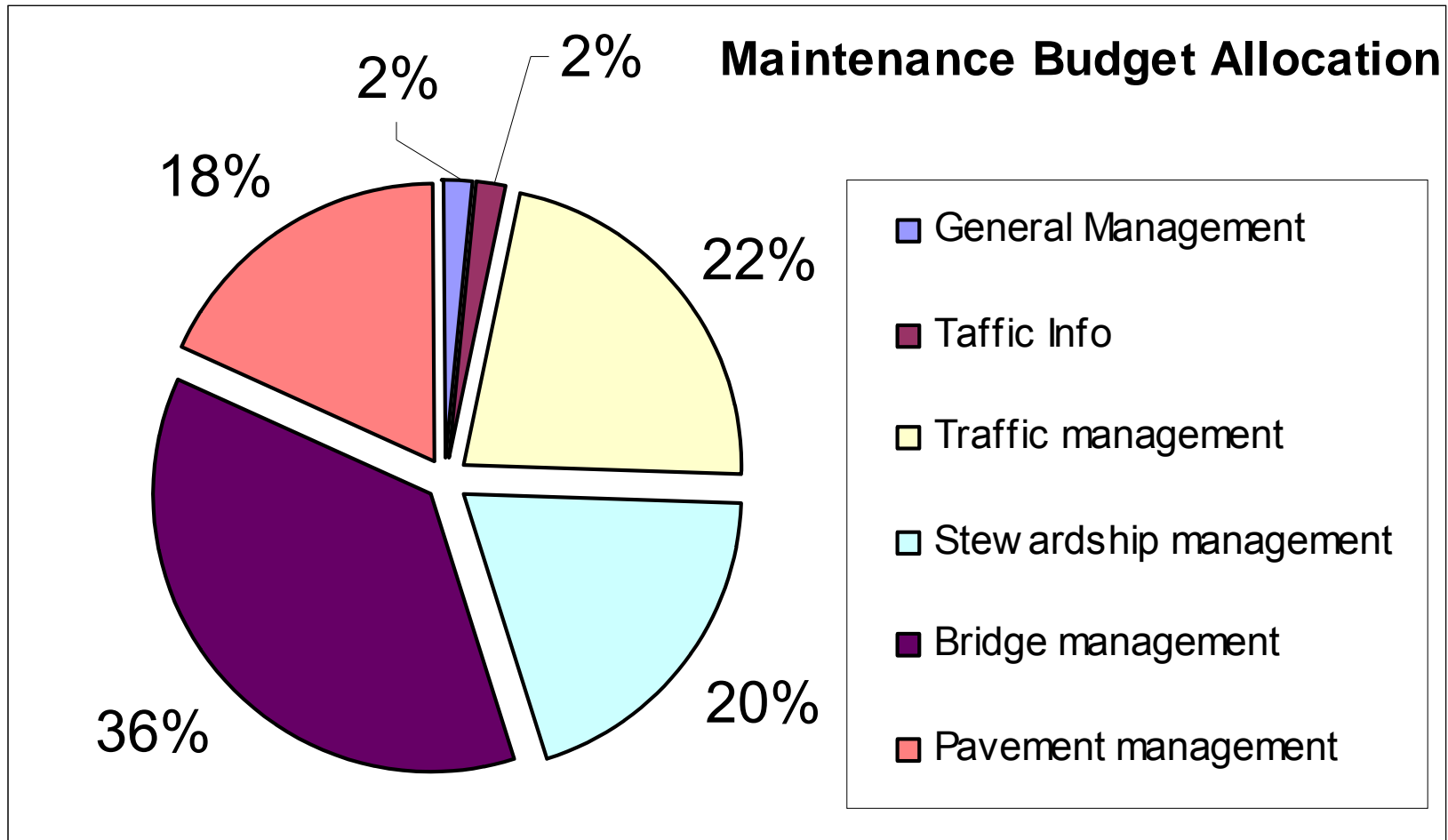


Recommendations

- Road's AM diversity
- Start with simple core Road's AM framework
- Develop stage wise
- Envisage challenges from pitfalls and cul-de-sacs

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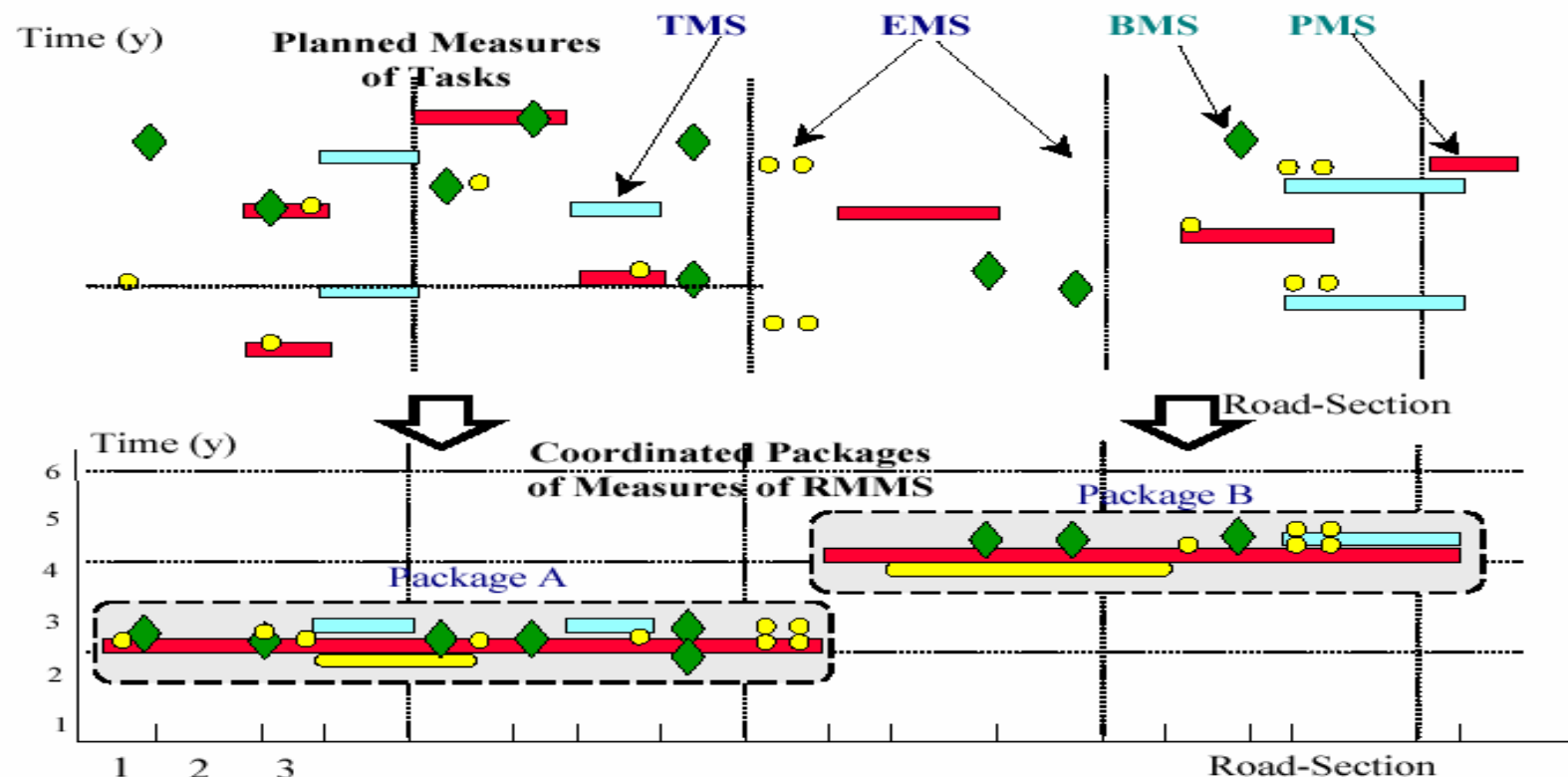
The Case:



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Ex. 1- Maintenance packaging policy:

- No traffic disturbance for 10 years
- All component interventions within 15 km
- Minimum 50 km spacing between sections



Ex. 2- Economical prioritization of maintenance intervention

For each optional Sub-asset investment is calculated:

- Rank options by NPV of Σ^{50} yr of Total Costs:
- Investment costs
 - Vehicle operation costs
 - Traffic congestion costs
 - Other costs

Case studies

→ Japan

- Asset Management, Best Practise from Japan

→ Germany

- Maintenance Management of the Federal Trunk Roads

→ Scotland

- Road Asset Management Plan

Case studies (cont.)

→ South Africa

- Road Network Management

→ Sweden

- Asset Management Success Story from Sweden

→ Switzerland

- Asset Management for Motorways in Switzerland
- Asset Management, proposition of a model for Western Switzerland

Way forward

- Road's AM for developing countries and countries in transition
- Benefit calculation and methodology for Road's AM
- Road's AM in age of outsourcing



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Next PIARC circle 2008- 2011

→ D.1 Management of Road Infrastructure Assets

→ TC Issues

- D 1.1. Benchmarking of asset management methods
- D 1.2. Data collection for road infrastructure management
- D 1.3. Allocation of resources across asset classes

→ First meeting April 1st-2nd, 2008, in Paris



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Thank you for your
attention

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