

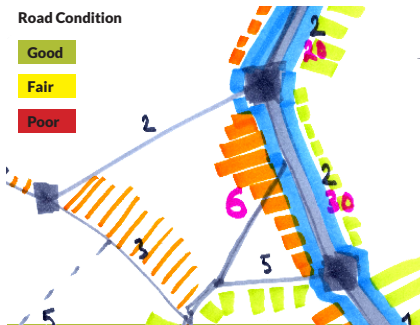
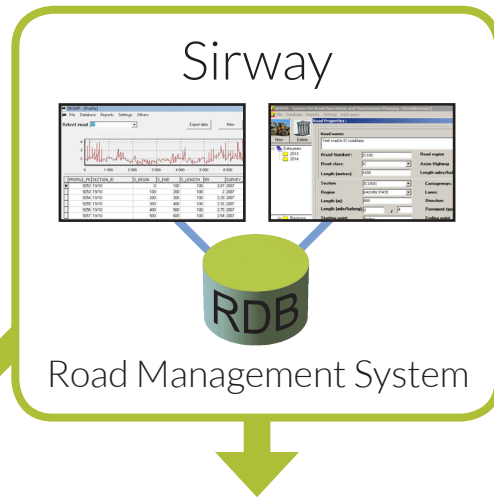
# ROAD MANAGEMENT SYSTEM



Data Collection



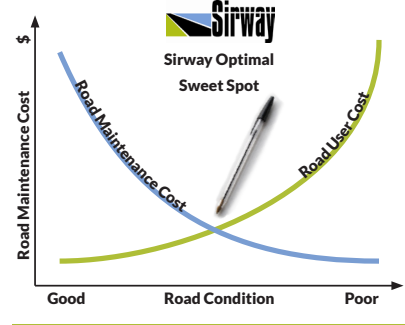
Capacity Building



Data Visualisation



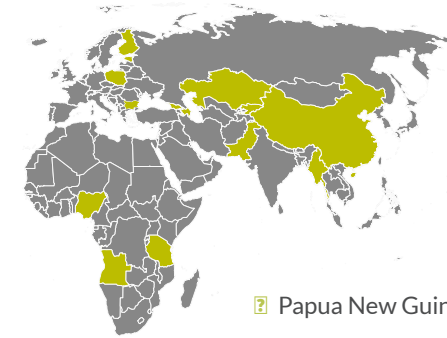
Maintenance Planning



Maintenance Optimisation

## References

- ? Finland
- ? Bulgaria
- ? Myanmar
- ? Estonia
- ? Georgia
- ? Kazakhstan
- ? Poland
- ? Azerbaijan
- ? Pakistan
- ? Kyrgyzstan
- ? China
- ? Angola
- ? Tanzania
- ? Papua New Guinea
- ? Nigeria



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"Sirway before You pave"

**Better Roads** - Optimised budget, increased life quality



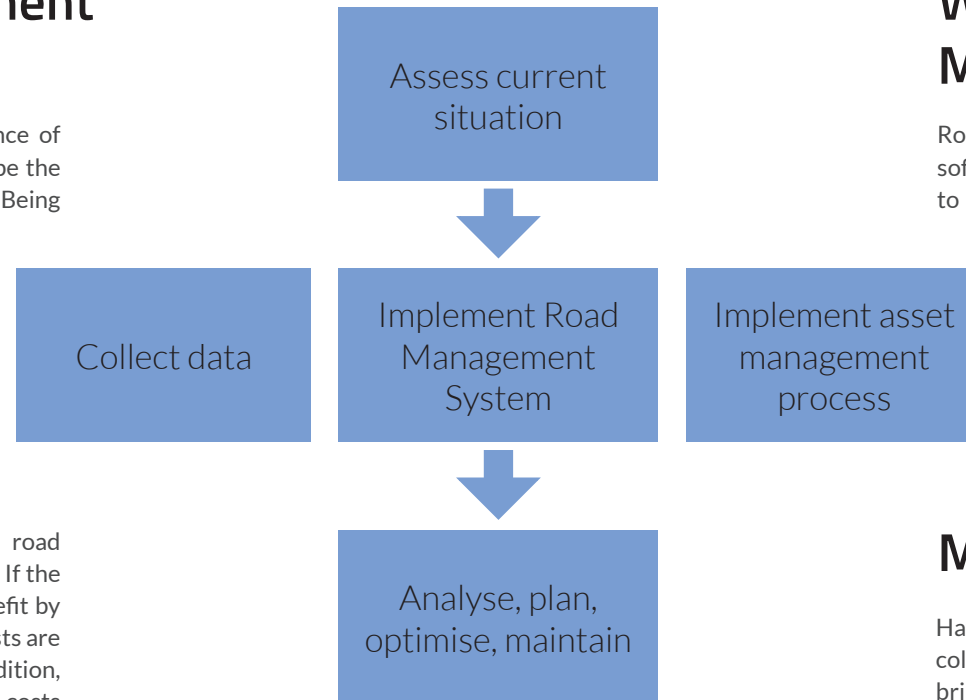
# ROAD MANAGEMENT SYSTEM

## Why get Road Management System?

The Romans were first to recognise the importance of roads. Ever since then, roads have been known to be the cornerstone of economic strength and development. Being usually the most valuable assets of a given country (can be \$2 billion per 10 000 kilometres), they facilitate economic and social activity—the backbone for good and people transportation. It is therefore wise to persevere the value of these assets by performing optimised maintenance.

From the society's point of view there is an optimal road condition, where the sum of road user and road management and maintenance costs are minimised. If the road is in too good a condition, the road users benefit by lower road user costs, but the road maintenance costs are high. Conversely, if the roads are in too poor a condition, the road user costs are high, while management costs are low with the sum of costs higher than in the optimal condition.

Planning and optimisation of the maintenance to achieve this optimal condition require information on the road inventory, condition, costs and traffic. These processes, which include data collection, storage and processing, are greatly facilitated with a Road Management System built to handle these tasks. Allocation of funding to maintenance is drastically more reliable with realistic maintenance plans. With industry-standard methods and Road Management System it is easy to convince anybody – be it the public or the politicians – about the funding requirements.



## How to implement Road Management System?

Road Management System's implementation begins with assessing the current situation in terms of data, process, training and IT needs. Road Management System is implemented in stages, starting with creation of the Road Database. Data collection process is started especially for road condition and traffic. Asset management processes for annual maintenance cycle are implemented. The RMS is then operated, results analysed, maintenance planned and optimised and roads maintained.

## What is Road Management System?

Road Asset Management System is a collection of software tools that help the road sector decision-makers to manage road-related data, optimise and plan for maintenance, locate and value the assets, create Key Performance Indicators, set strategic goals and visualise road location, condition, traffic and maintenance on a map or web.

## What are the benefits of Road Management System?

Having Road Management System with proper data collection, trained personnel and right business processes bring several benefits that at the end improve road condition and quality of life and saves money of road users and road administration. Below is an incomplete list of the resulting benefits:

- Centralised, secure and accessible data
- Improved maintenance decisions
- 15% cost savings in maintenance
- 10% lower road user costs and improvements in road safety
- Increased funding for road maintenance
- Easier and more justifiable maintenance decisions
- Increased clarity, communication and learning by data visualisation

