A Strategic Look at the Development Need for Pavement Management Systems

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STRATEGIC LOOK AT THE DEVELOPMENT NEED FOR PAVEMENT MANAGEMENT SYSTEMS – WORLD BANK PERSPECTIVE
Development Need for PMS

“Evolutionary Path”
- Improve current tools and approaches

“Revolutionary Path”
- Game changing new tools or approaches
“Evolutionary” Path (1) – Data and Analysis

- Better technologies
- New, More, and Better Data
- Better Modelling
- Better Calibration
- Better Results/Predictions
“Evolutionary” Path (2) – New Layers/Expanding

- Modelling new materials – scarce resources
- Systems and Process Integration – to better support Client’s complex world
  - Vertical Integration – e.g. asset types, prioritization between sectors
  - Horizontal Integration – e.g. processes (design)
- ICT developments – web-based technologies, cloud-systems, apps
“Revolutionary” Path (1)

• Moving from Assets to Policies:
  ▪ Road Safety (iRAP)
  ▪ Greenhouse Gasses (GHG) and Air Pollution
  ▪ Climate Change
  ▪ Benefits of ITS investments

Multi-dimensional Decision-Making Models
(from one single answer to many answers)
Involvement of Society?

Transparency and Accountability

How well are roads and work zones maintained?
HOW DOES THE WORLD BANK ENCOURAGE SUSTAINABLE ADOPTION OF ASSET MANAGEMENT PROCESSES?
Asset Management is Much More Than Systems?

- Funding
- Systems
- Delivery Models
- Agency Reforms
- Governance

Asset Management
Success Factors and Pressure?

• Projects are guided by “Success Factors for Road Asset Management Systems”
• Include in Monitoring & Results Framework as a Project Development Objective Indicator
  - Ex. Percentage of maintenance decisions made based on asset management system
HOW WOULD COUNTRIES BALANCE THE PRESSURE FROM CREATING MORE INFRASTRUCTURE VERSUS LOOKING AFTER WHAT THEY ALREADY HAVE?
What Is Best To Focus On?

- Bank Clients varies greatly in terms of context
  - Poorly developed networks – these countries naturally focuses on developing new assets
  - Networks developed at impressive rates and now starts focusing existing assets
  - Reasonable networks, but still high needs for new assets (poverty eradication, national integration)
- The decision is by nature political (if funds are scarce)
Make Sure Maintenance Is In Focus

- Secure focus on existing assets:
  - Through the Bank’s engagement strategies with countries
  - Asset Management Systems – visualize needs, asset value/balance sheets
- Solid dedicated funding, untouchable by politicians:
  - Road Funds with own revenue streams (fuel levy, vehicle registration) - can only be used to maintenance
  - Performance Based Contracting (funds secured over several years) – clear tendency to honor these contracts first
MANY THANKS