



9th International Conference on **MANAGING PAVEMENT ASSETS (ICMPA9)**

A Strategic Look at the Development Need for Pavement Management Systems

Jens Christian Helbech Hede
(jhede@worldbank.org)



STRATEGIC LOOK AT THE DEVELOPMENT NEED FOR PAVEMENT MANAGEMENT SYSTEMS – WORLD BANK PERSPECTIVE

Development Need for PMS

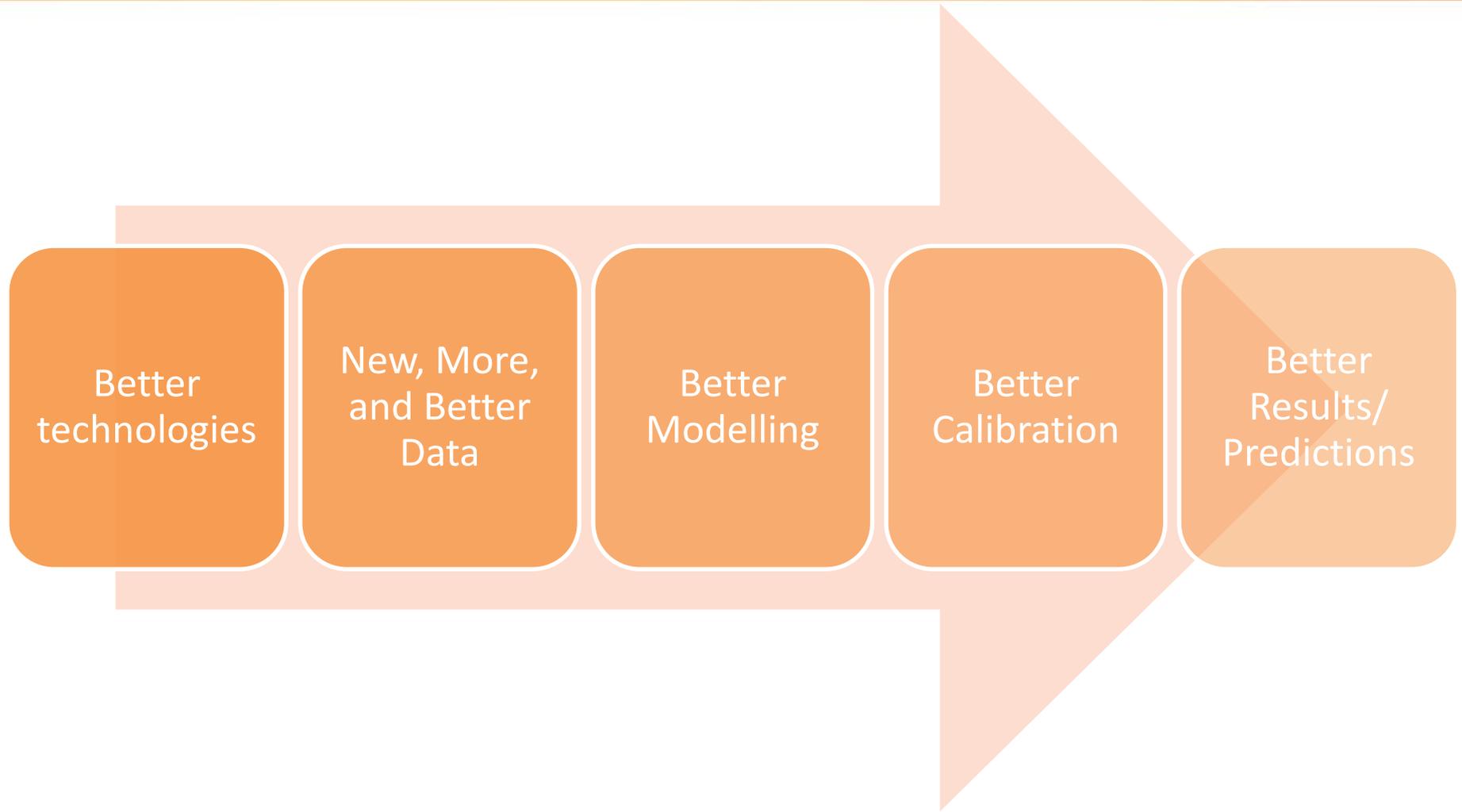
“Evolutionary
Path”

- Improve current tools and approaches

“Revolutionary
Path”

- Game changing new tools or approaches

“Evolutionary” Path (1) – Data and Analysis



“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

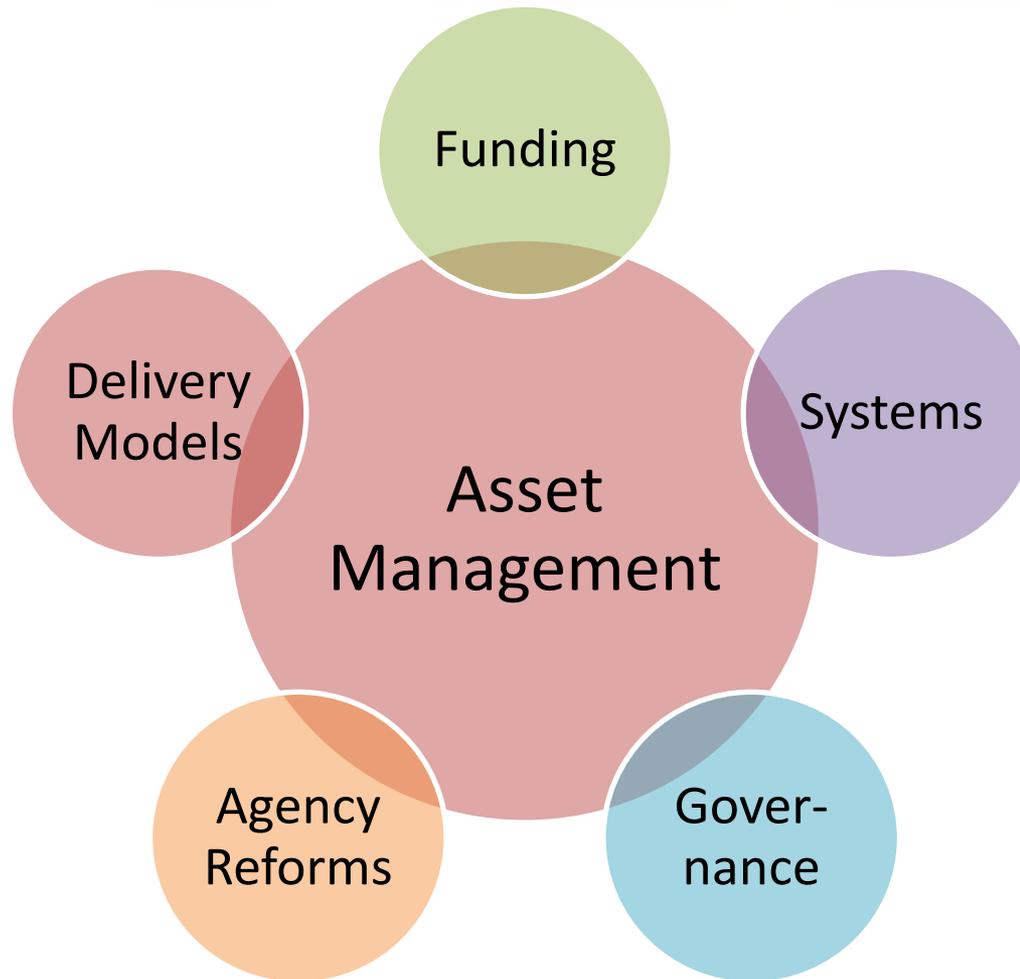


How well are
roads and work
zones
maintained?



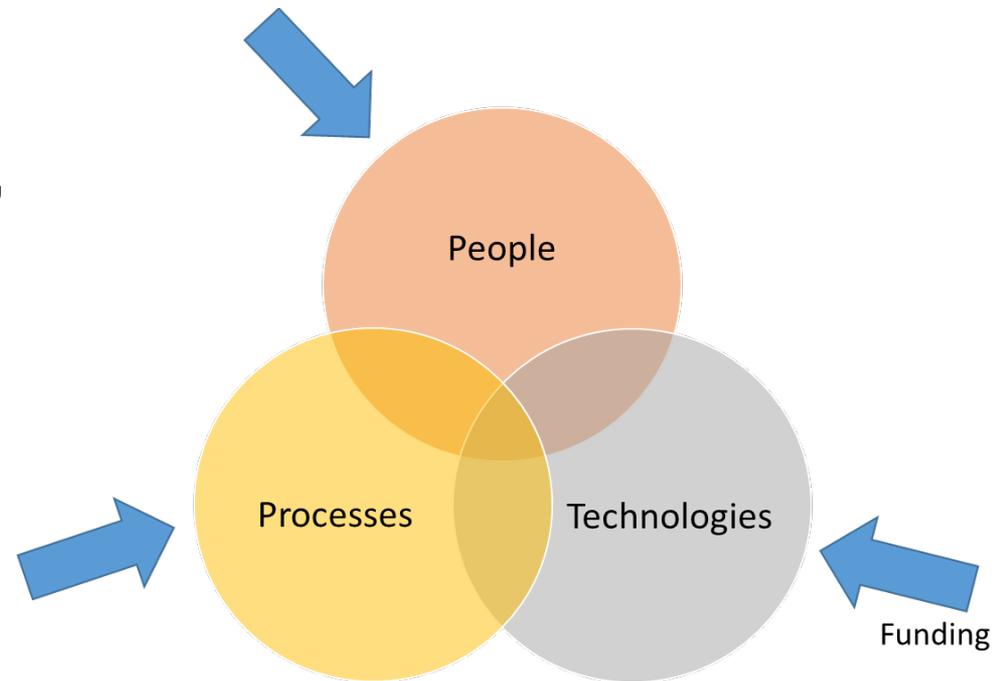
HOW DOES THE WORLD BANK ENCOURAGE SUSTAINABLE ADOPTION OF ASSET MANAGEMENT PROCESSES?

Asset Management is Much More Than Systems?



Success Factors and Pressure?

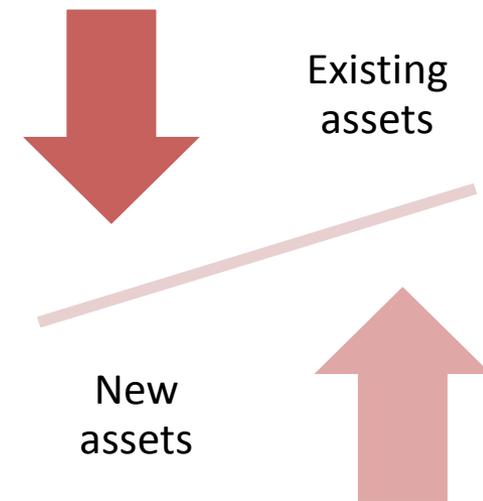
- Projects are guided by “Success Factors for Road Asset Management Systems”
- Include in Monitoring & Results Framework as a Project Development Objective Indicator
 - *Ex. Percentage of maintenance decisions made based on asset management system*



**HOW WOULD COUNTRIES
BALANCE THE PRESSURE FROM
CREATING MORE
INFRASTRUCTURE VERSUS
LOOKING AFTER WHAT THEY
ALREADY HAVE?**

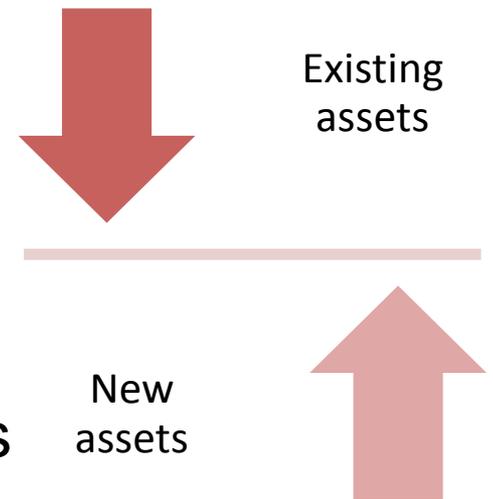
What Is Best To Focus On?

- 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