

Road Asset Management (RAM)

May 2023

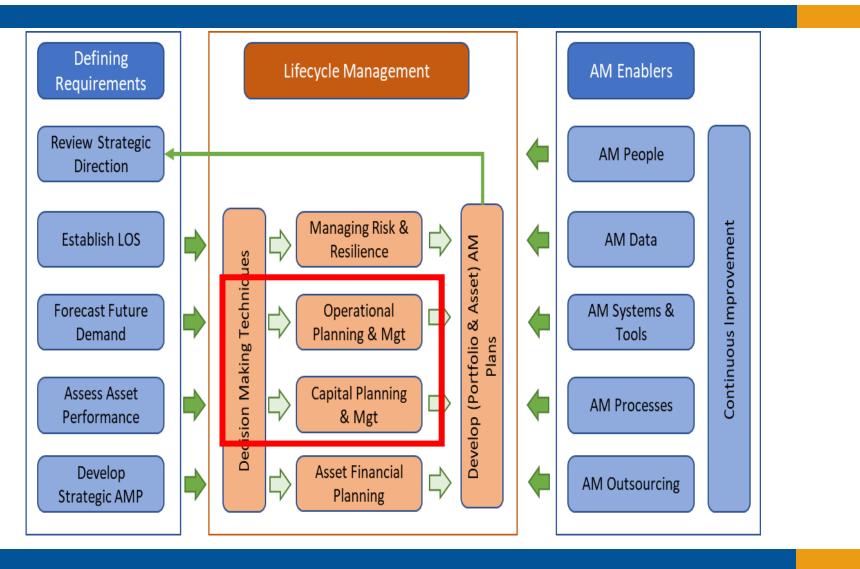
Operations, Maintenance, Emergency and Capital Works

Dr Ian Greenwood BE(Civil), PhD(Eng), FEngNZ(Civil), CPEng(NZ) ian@gaic.nz

Operations, Maintenance, Emergency and Capital Works, Dr I.D. Greenwood



International Infrastructure Management Manual (IIMM) AM Process





Discussions points:

- 1. What different ways of managing traffic demand are you using?
 - E.g. ramp metering, variable speed limits, peak time shoulder running
- 2. Is there an active program to encourage non-private vehicle usage?
- 3. How are winter road conditions handled in terms of notifying the public of closures or similar?



Discussions points:

- 1. How is maintenance need assessed and funding allocated?
- 2. Is maintenance need fully funded?
- 3. Annual budget or multiyear?
- 4. Are maintenance activities linked to the timing of the next major works intervention?
- 5. How is maintenance delivered (force account, private sector)?
- 6. How is winter maintenance delivered?



Discussions points:

- 1. Are critical routes identified, considering other than just traffic volumes?
- 2. Do you have full network detour routes identified for when incidents close a section of road?
- 3. How are emergency events funded?
- 4. Is there a cross-agency group (including police, ambulance etc) that prepares for emergency events?



Renewals (resurfacing and rehabilitation)

- 1. How is the need identified?
- 2. How is the budget allocated?
- 3. How does the budget allocation cycle impact on the design and delivery of works?
- 4. Are budgets allocated by government to a category of works, or specific projects?

Capital expansion works

1. Do these compete with the maintenance and renewal budgets?



Dr Ian Greenwood Greenwood Associates Infrastructure Consultants ian@gaic.nz