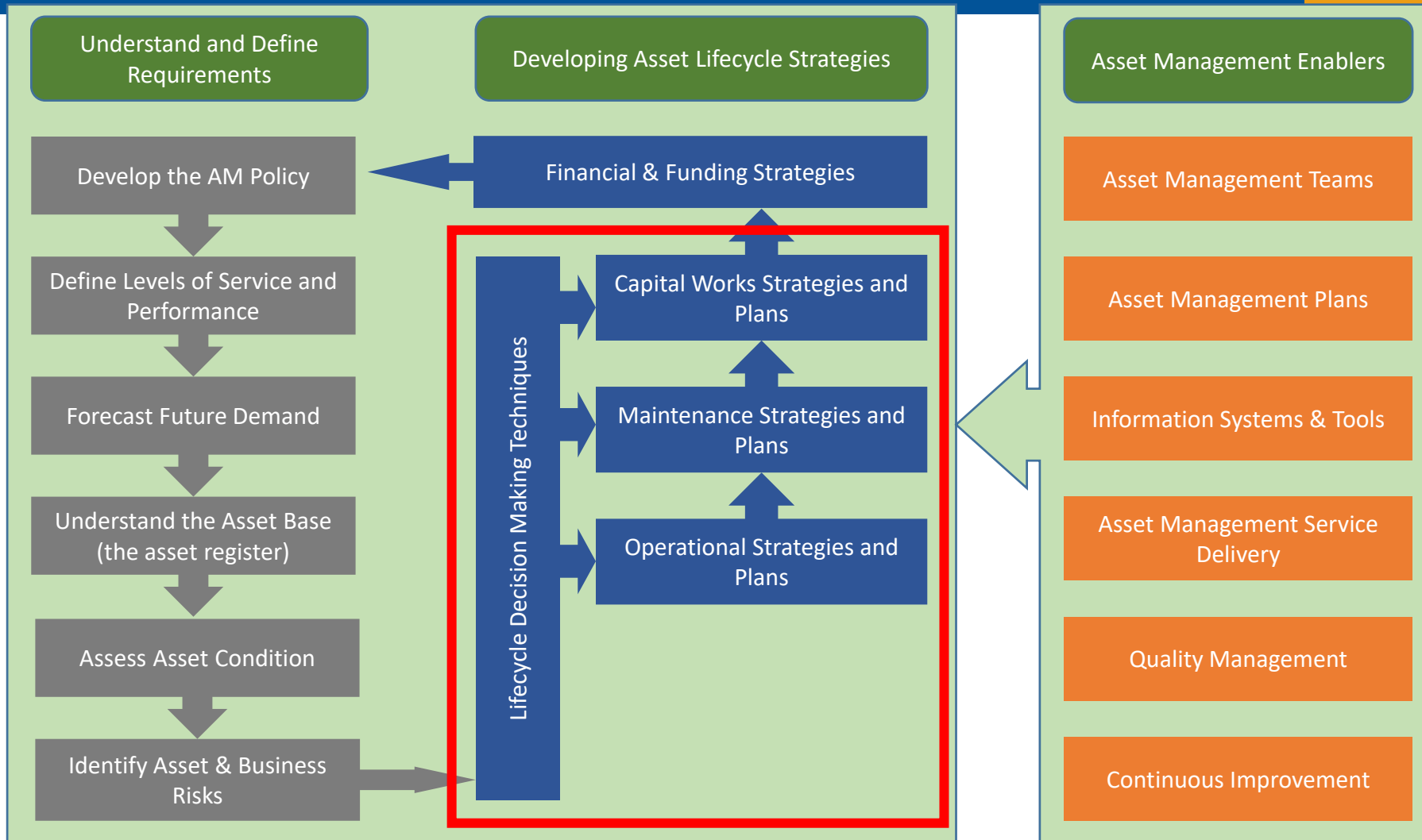


# Road Asset Management (RAM) Georgia 12-15<sup>th</sup> September 2022

## Operations, Maintenance, Emergency and Capital Works

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

# 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?



# Questions

Dr Ian Greenwood

Greenwood Associates Infrastructure Consultants

ian@gaic.nz