ASSESSING WASTE MATERIALS FOR SUITABILITY IN ROAD CONSTRUCTION

WARRIP
WESTERN AUSTRALIAN ROAD RESEARCH & INNOVATION PROGRAM

HOW CAN WE SUPPORT SUSTAINABILITY PRINCIPLES AND PROMOTE THE CIRCULAR ECONOMY?

Identify potential recyclable material

Check material meets applicable state regulations

Department of Transport (DOT)
Department of Jobs, Tourism, Science and Innovation (JTSI)
Department of Mines, Industry, Regulations and Safety (DMIRS)
Department of Water and Environmental Regulation (DWER)

Determine potential road applications to focus feasibility determination

Determine feasibility of material via alignment with Main Roads WA policies, specifications & guidelines

Sustainability Policy
Specification series for chosen application
Engineering Road Notes for chosen application

Assess the material for use in road infrastructure (Austroads Guides)

- Initial Assessment
  - Engineering Performance
  - Environmental Performance
  - Health & Safety Performance
  - Project Management Performance

Submit for approval

Circular Economy

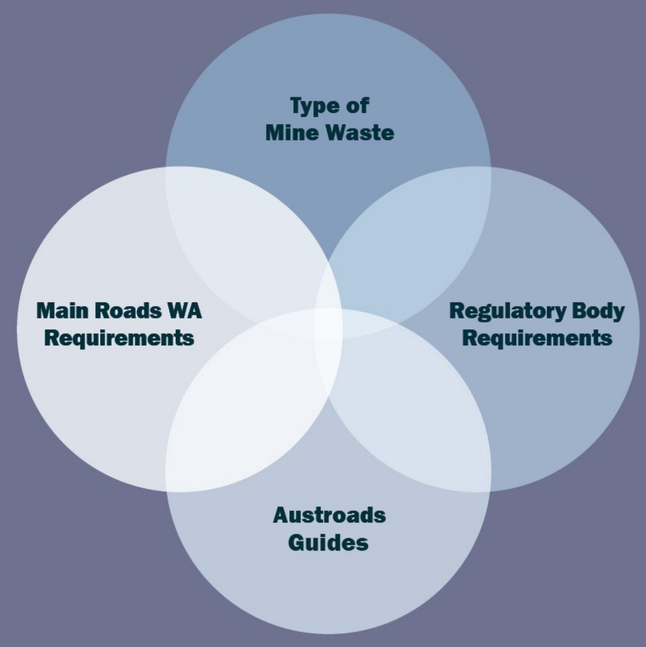
The circular economy is a closed-loop system that aims to minimise resource inputs, waste, pollution and carbon emissions; while improving the longevity of products, materials, equipment and infrastructure. Materials as deemed as waste should be considered inputs for other processes through waste valorisation.

Designing products, materials, equipment and infrastructure with reusability at end of life will support the circular economy.

Sustainable Policies

Agencies across all government levels are updating their policies and guidance for the use and procurement of recycled materials to respond to significant
shifts in domestic and international waste policies to support the the circular economy.

What needs to be considered when developing a framework to assess mine waste materials for use in road infrastructure projects?



How do we get mine waste and industry by-products recycled into roads?

Follow the process outlined above and detailed in the project report to identify and assess each waste material, this will provide Main Roads WA with the supporting documentation they require to assess and approve proposed applications of your materials.

TO FIND OUT MORE
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