



Road safety audits on mining operations

Damir Vagaja
Manager Mining and Resources
ARRB Group

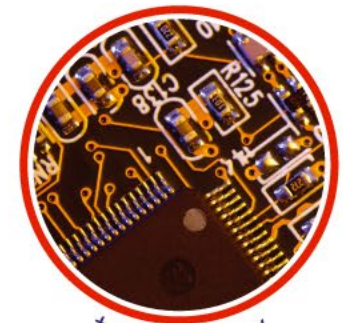
Collaborating with the road industry to turn knowledge into practice



research



consulting



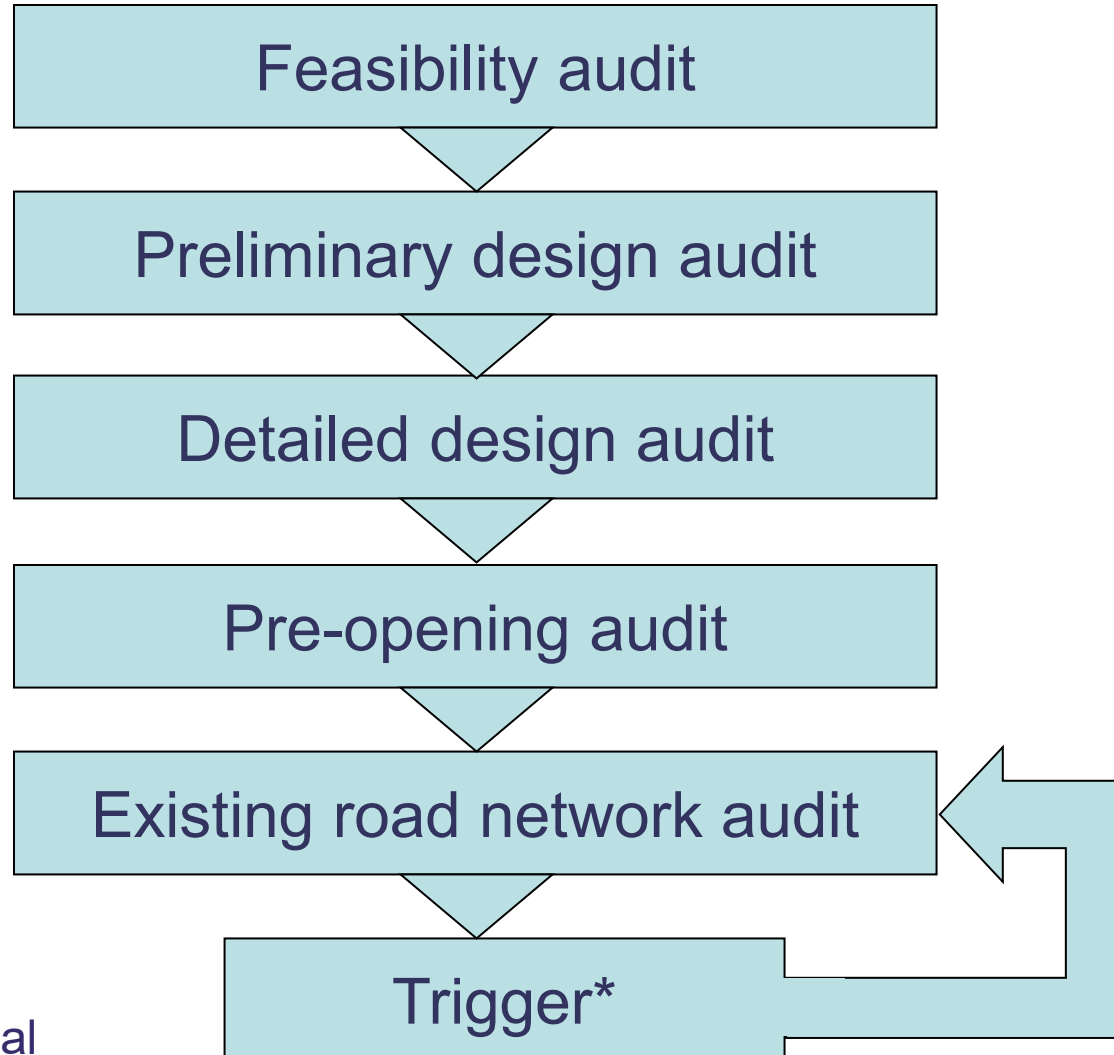
technology

Road safety audits

- A road safety audit is a nationally accredited formal examination of a future road or traffic project or of an existing road, in which an independent, qualified team reports on the project's crash potential and safety performance



Road safety audits

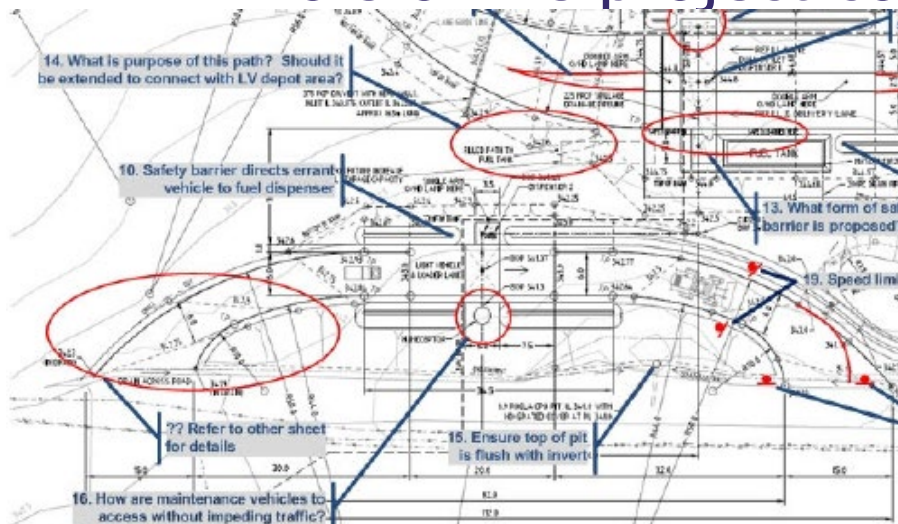


*Trigger:

- time lapse
- change in operational conditions

Road safety audits

- The benefits of road safety audits
 - likelihood and severity of crashes can be reduced
 - road safety becomes more prominent in designers' minds
 - the need for costly remedial work is reduced
 - whole of life project costs are reduced





Road safety audits

- How are audits conducted (before site visit)
 - selection of an appropriate audit team
 - relevant documentation provided for review prior to the site visit
 - agreement on the scope and deliverables



Road safety audits

- How are audits conducted (during site visit)
 - the team should be escorted by an experienced person who is:
 - able to provide background information about the operational requirements
 - tasked with the implementation of the recommendations
 - visual records and notes are taken
 - include daytime and night-time inspections



Road safety audits

- Inspections should include:
 - interaction between light vehicles, heavy vehicles, and pedestrians
 - speed management
 - road design and layout including intersections and other areas of traffic conflict
 - signage, delineation and lighting
 - parking arrangements
 - evaluation of the existing land transportation management systems, i.e. documentation and processes.



Road safety audits

- After the site visit:
 - audit report including findings and recommendations
 - recommendations usually provided in a Corrective Actions Report (CAR)
 - may or may not be prioritised
- Internal process (by the client)
 - review and risk assessment of recommendations
 - prioritisation
 - action plan
 - formal response in the CAR



Road safety audits

- When a client receives an audit report:
 - should look beyond the recommendations
 - limitations to auditors' appreciation for operational conditions
 - Should consider the findings and the underlying safety concerns (i.e. the intent)
 - May develop alternative solutions if justified



Road safety audits

- Why recommendations do not get implemented?
 - financial pressures
 - other more urgent issues
 - change of management (i.e. forgotten)
 - operational reasons
 - alternative solutions



Road safety audits

- It is important to document the review and response to audit findings
- Be aware that you have been made aware!!!



References

- Standards don't necessarily equal safety
 - but they are an important starting point
 - their application would remove many hazards
- Not all 'public road' standards are applicable but should be applied wherever possible



Questions ?

Damir Vagaja
Manager Mining and Resources
ARRB Group

08 9227 3024

0404 057 066

damir.vagaja@arrb.com.au