



ROAD PAVEMENTS  
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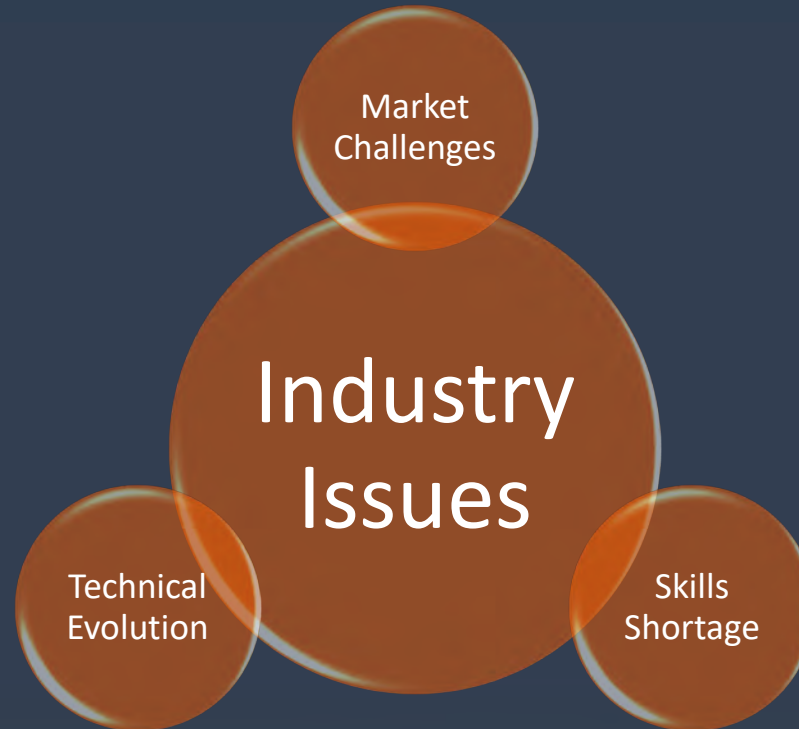
# Issues in the Industry – *Zain Babamia*





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# Challenges



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# Challenges

Lack of  
Reliability

Loss of  
Confidence

Need for  
Increased  
Interventions

Impacts  
construction  
programmes

Loss of  
productivity

Increases Cost

Impact overall  
delivery of  
projects

Impacts  
network level

Reputational  
loss (Industry)

# Technical Evolution

- Newer Test methods published
  - PG Binder
  - Manual 35
  - New product developments?
- Slow roll-out of publishing of SANS 3001 updates (improving)

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# Market Challenges

- Erratic Work packages roll-out
- Availability of Resources
  - Human Capital
  - Equipment
- “Predatory Pricing”
  - At *what* and *whose* cost?



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# Skills Shortage

- Materials and Quality not attractive enough?
  - Materials Testers
  - Laboratory Managers
  - Quality Assurance Managers
  - Materials Technicians
- Related to Technical Evolution
- Ongoing investments into development

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"Are you part of the problem, part of the solution,  
part of the problem with the solution or part of  
the solution to the problem with the solution?"



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# Introspection

- Business as Usual?
- Agility in a rapidly changing environment?
  - Import Binder Testing
  - Chemistry in Roads
  - Concrete Pavements resurgence
  - Cement Test?
  - “Nano Technology” applications



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# Client Initiatives – Technical Evolution

- Collaborate with industry for Knowledge transfer?
  - Make certain workshops compulsory to roleplayers?
  - Materials Testers
  - Laboratory Managers
  - Materials Technicians

## Mandatory?

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# Client Initiatives - Market

- Improved collaboration with BCCEI
- Ongoing investments into development (personnel)
  - SDL
  - CETA
  - SANRAL Contracts
  - Collaboration and Co-operation with Industry

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# Client Initiatives - Market

- Equipment
  - A need to explore additional models for Equipment procurement?
  - Prequalification on equipment availability?

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# Client Initiatives – Skills Shortage

- Eng 4.0 – Training Initiatives
  - Asphalt Academy involvement in Training and Certification Laboratory
  - Watch this space
- Tshwane University of Technology
  - Advance Materials Testers Higher Certificate from 2025
  - Materials Technician Qualification from 2026

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Knowing is not  
enough; we must  
apply. Willing is not  
enough; we must do.

Johann Wolfgang von Goethe

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