



# South African Pavement Design Method (SAPDM)

## Status Report

19<sup>th</sup> RPF Meeting

4 May 2010

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# Aka GODZILLA



# Historical Overview – SAPDM Revision

- Process initiated at RPF - **May 2005**
- R&R framework - **November 2005**
- Pavement Performance Information System (LTPP)
  - Material Classification Concept
  - Pavement Number Concept (PN)
  - 50 Projects Completed – **February 2008**
  - 15 Stabilized Projects Added – **February 2008**
- Mechanistic-Empirical Analysis System (MEAS)
  - Phase 1 – Develop Detailed Project Briefs – **November 2006**
  - Phase 2 - Inception Phase (22 Projects) – **July 2007**
  - Peer Review – Phase 2 Reports – **November 2007**
  - Additional SANRAL Requirements – **December 2007**
  - Appointment of Main Service Providers – **September 2008**
    - CSIR Built Environment
    - Pavement Modelling Corporation
    - SC Van As Traffic Engineering
- SAPDM Website ([www.sapdm.co.za](http://www.sapdm.co.za)) – **May 2009**



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## welcome to the South African Pavement Design Method Website...

### About the project

Mechanistic-empirical pavement design has been one of the primary pavement design tools in South Africa since the early 1970s. Although some improvements were made to the original method over the years, the main components of the current method are still based on research done during the 1970s and 1980s. The problems associated with the current method were highlighted at the Conference for Asphalt Pavements in Southern Africa held in 2004. These problems were again raised at the subsequent Roads Pavement Forum meeting held in May 2005 and a workgroup appointed to initiate the revision of the South African Mechanistic-Empirical Design Method.

### Project sponsors

Currently two sponsors have approved funding for the revision of the flexible pavement design method, the South African National Roads Agency Ltd (SANRAL) and the CSIR. CSIR funding covers mostly research activities to establish the foundation from which the development and implementation activities will be launched. SANRAL is the main sponsor and largest client body to implement the revised design method.

### NEWS

Sorry, no new news posted  
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### CALENDAR

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### PROJECT SPONSORS:



### CONTACT INFORMATION:

For any queries regarding the project please contact the project team at [info@sapdm.co.za](mailto:info@sapdm.co.za)

[www.sapdm.co.za](http://www.sapdm.co.za)

# Progress To Date

- Reports
  - November 2009 = 8 Reports
  - May 2010 = 21 Reports
- Field Trials – Ongoing
  - Environmental (3/50), Material Bulk Samples (3/12)
- Lab Testing – Ongoing
  - Complete 3 of 6 Mixes, busy with 4<sup>th</sup> and 5<sup>th</sup>
- Surface Seals
  - New Research Proposal Submitted April 2010
    - Mechanistic Empirical developed using TUDELFT FEM 2D/3D
- Concrete / Block
  - Research Proposal Submitted
    - Pumping of Base Material



# Thank You

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[www.sapdm.co.za](http://www.sapdm.co.za)

