

South African Pavement Design Method (SAPDM)

Revision Status Report

28th RPF Meeting

20 November 2014

L Kannemeyer



Aka GODZILLA







SAPDM Revision - Historical Overview

- 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
 - 11 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 (5 year)
 - CSIR Built Environment
 - Pavement Modelling Corporation
 - SC Van As Traffic Engineering
- SAPDM Website (www.sapdm.co.za) May 2009



SAPDM Revision - Progress To Date

Reports

- Nov 2009 = 8 Reports
- May 2010 = 21 Reports
- Nov 2010 = 30 Reports
- May 2011 = 43 Reports
- Nov 2011 = 56 Reports
- Nov 2012 = 77 Reports
- May 2013 = 88 Reports
- Nov 2013 = 102 Reports
- May 2014 = 112 Reports
- Nov 2014 = 114 Reports

Field Trials

- Environmental = 41 Sites Completed
- Experimental Sections
 - R35 Stabilisation = Oct 2012 Monitoring Ongoing
 - R104 Instrumented Typical Pavements = TSD Measurements

Surface Seals – In progress

Concrete / Block Integration — In Progress

Economic models/guideline — In Progress (HDM4)



SARDS Detail Feedback

Title	Presenter
SARDS Software Portal	L Kannemeyer
SARDS Asphalt Models	H Theyse
SARDS Recursive Simulation	H Theyse



South African Road Design System (SARDS)

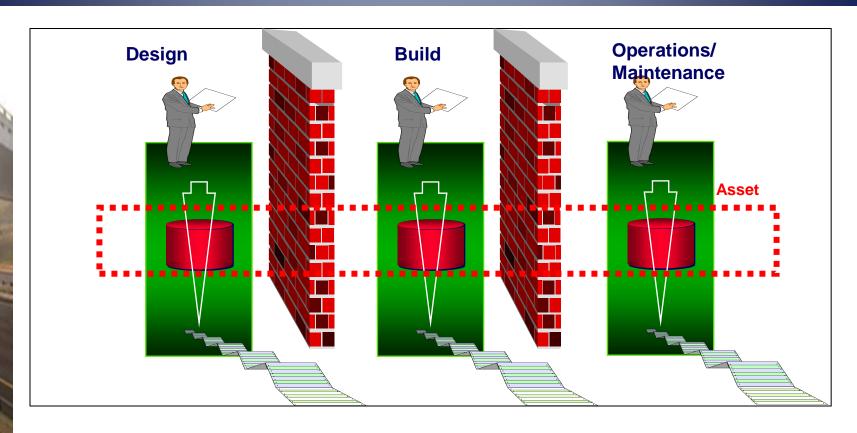
Portal

Why Name Change?

Software is not only doing pavement design, but capacity, safety, etc as well



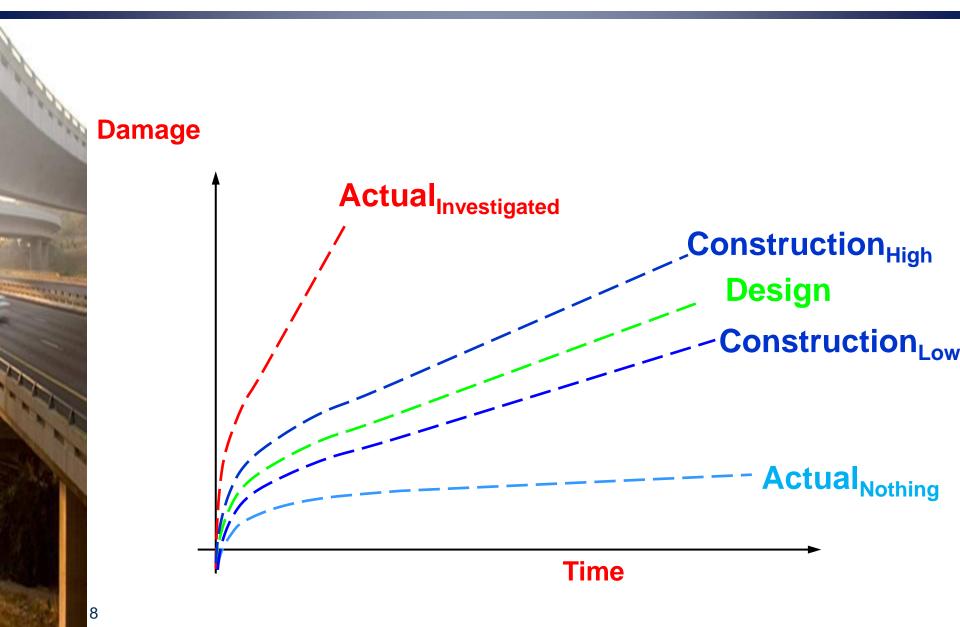
SARDS Software Portal – Why?



- Traditionally Road Authorities are organised according to vertical silos for administrative convenience, this results in vertical walls between silos resulting in authorities losing sight of the complete asset life cycle and focusing on delivery efficiency within each silo (doing the same thing quicker, cheaper).
- We need to ensure electronic flow of data through the life cycle

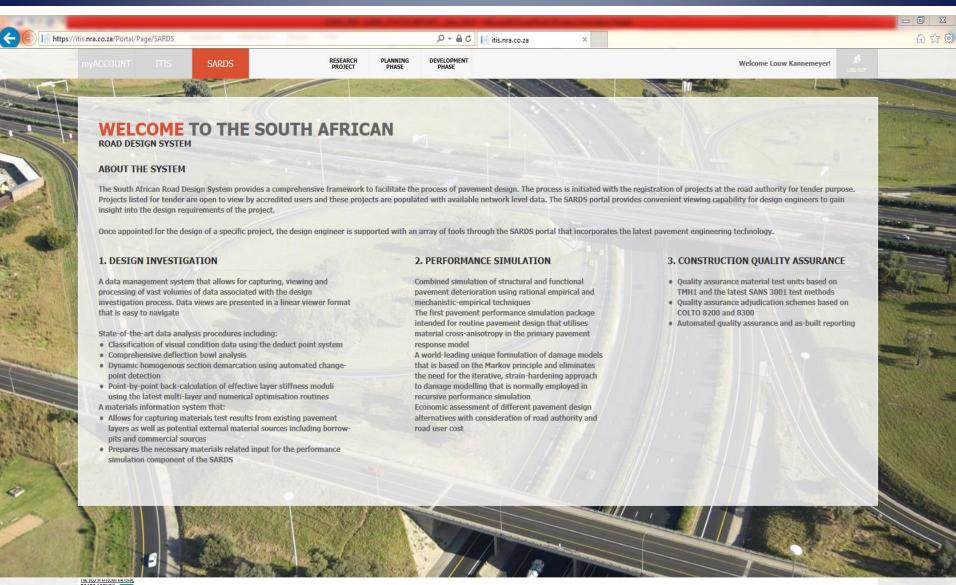


SARDS Portal – Why?





South African Road Design System - SARDS



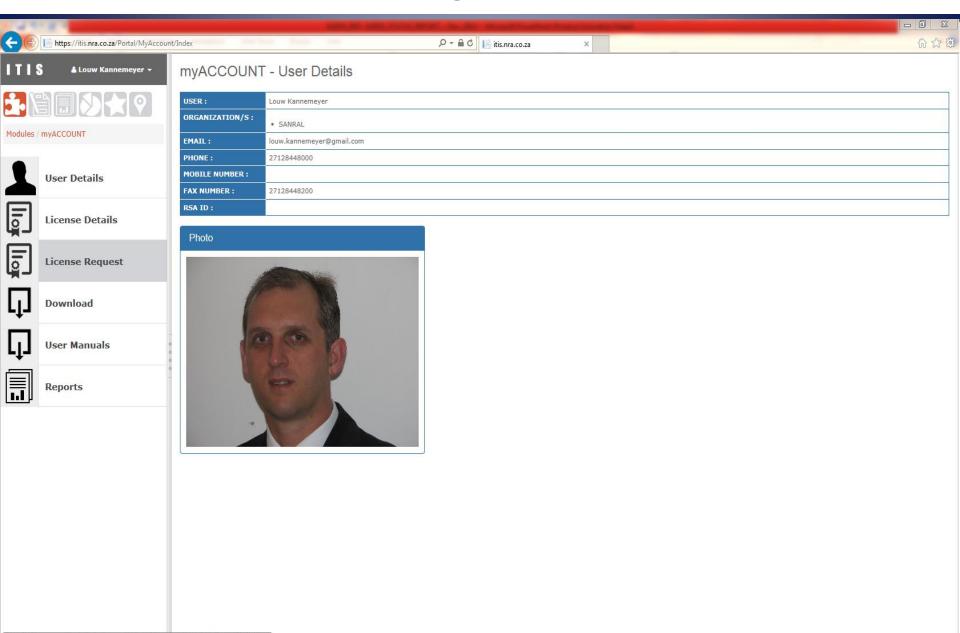


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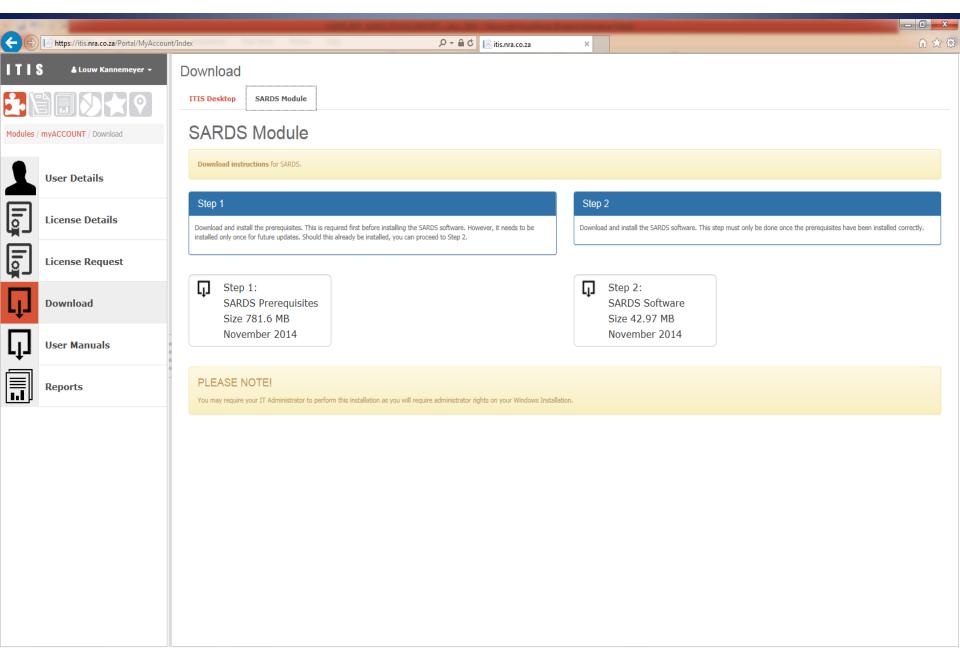
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SARDS – User Registration



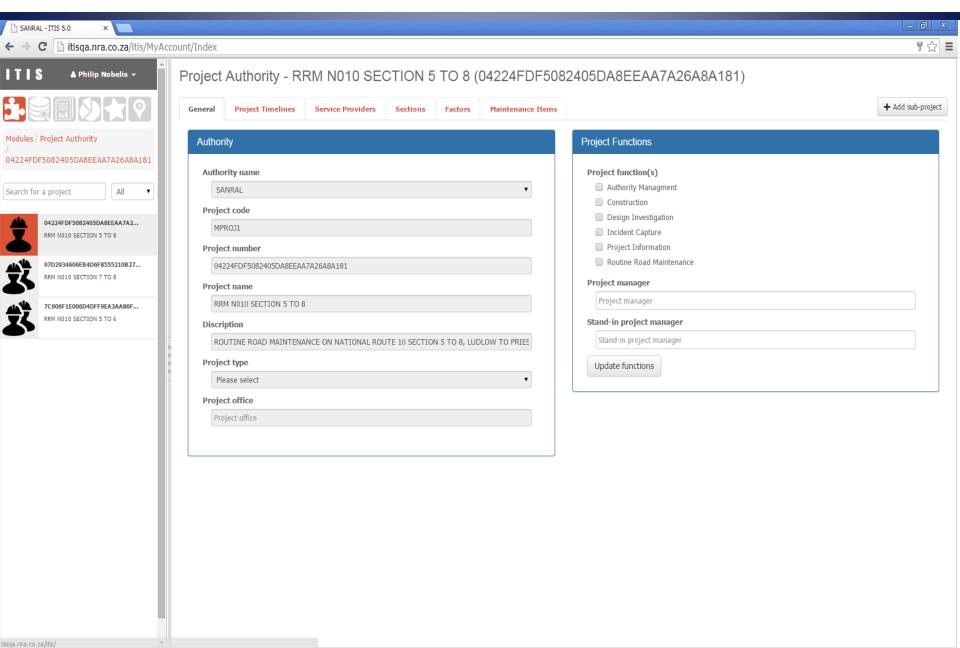


SARDS – Software Download



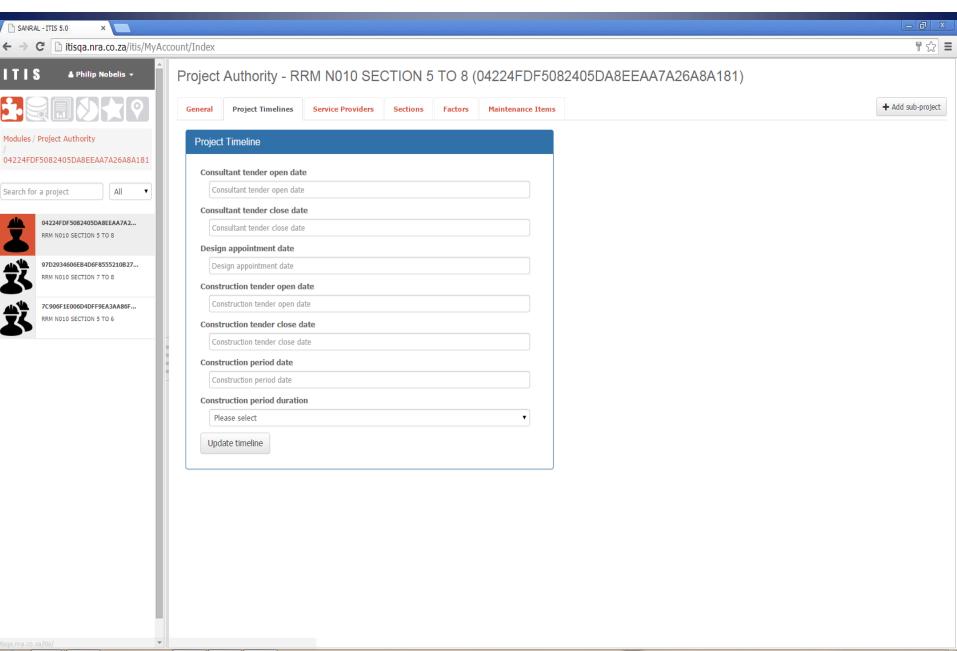


SARDS – Authority Page



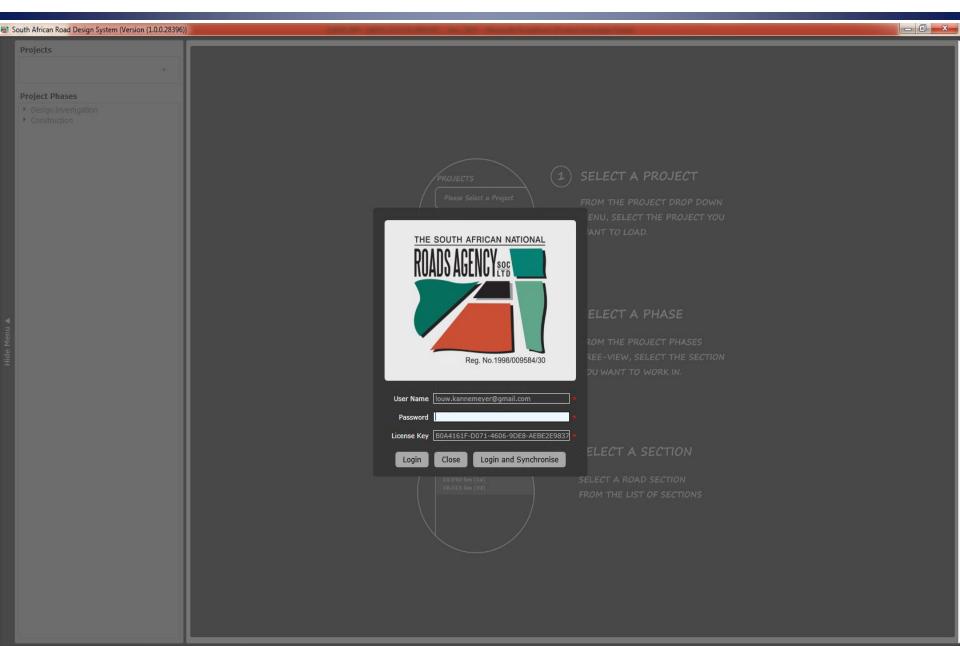


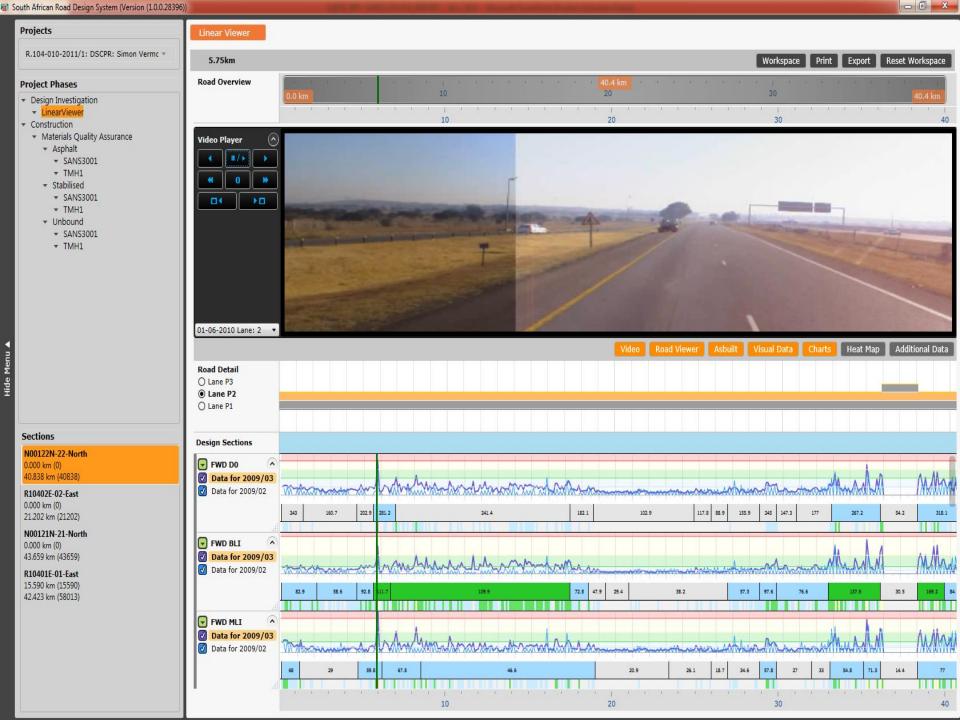
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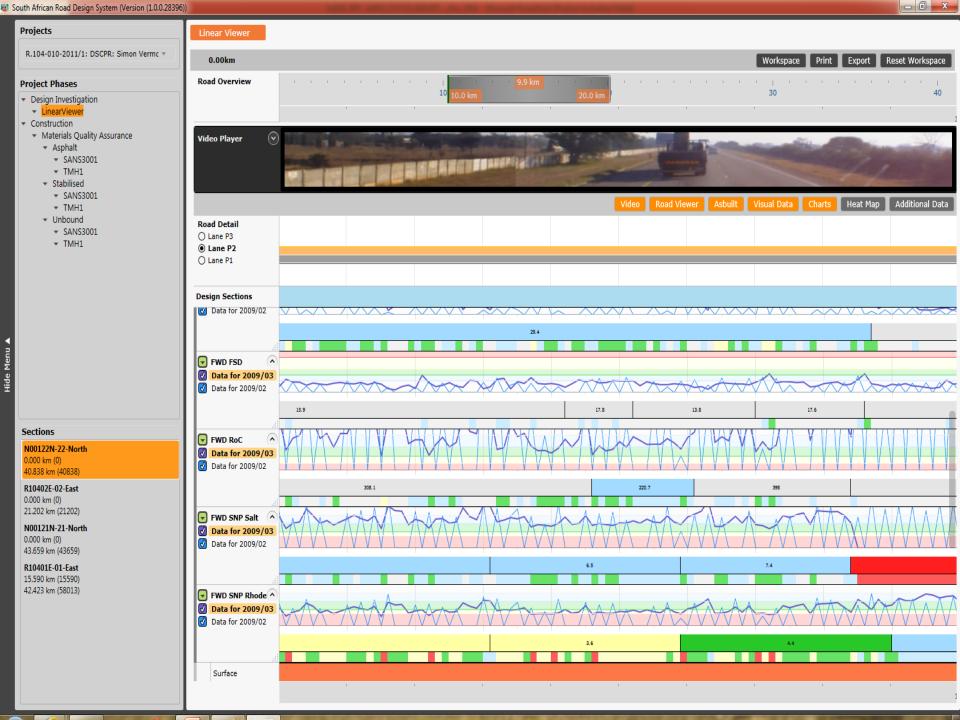


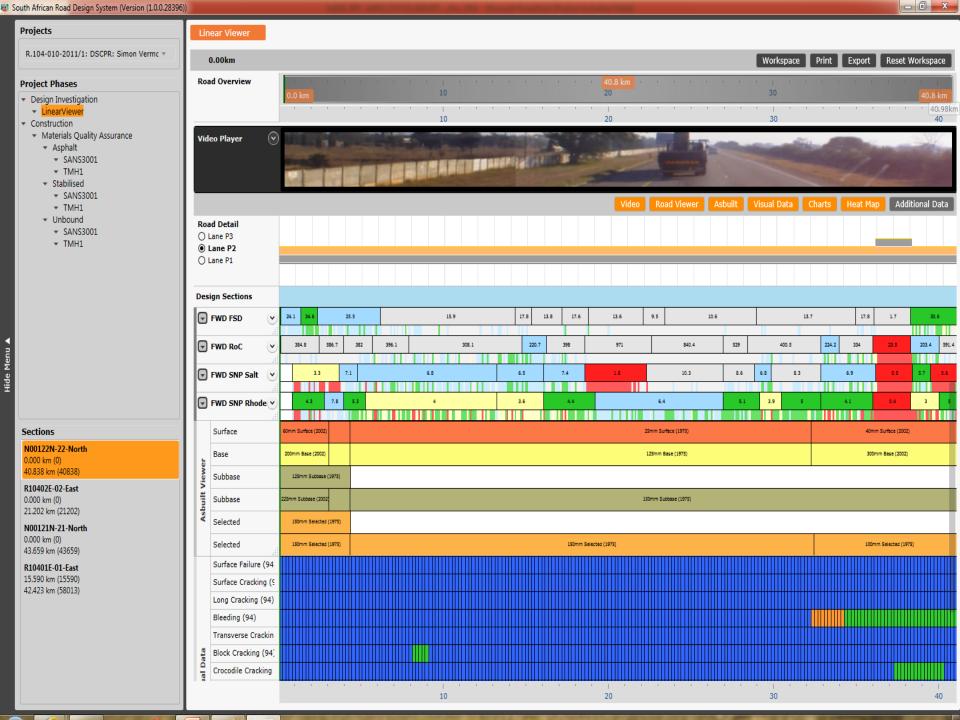


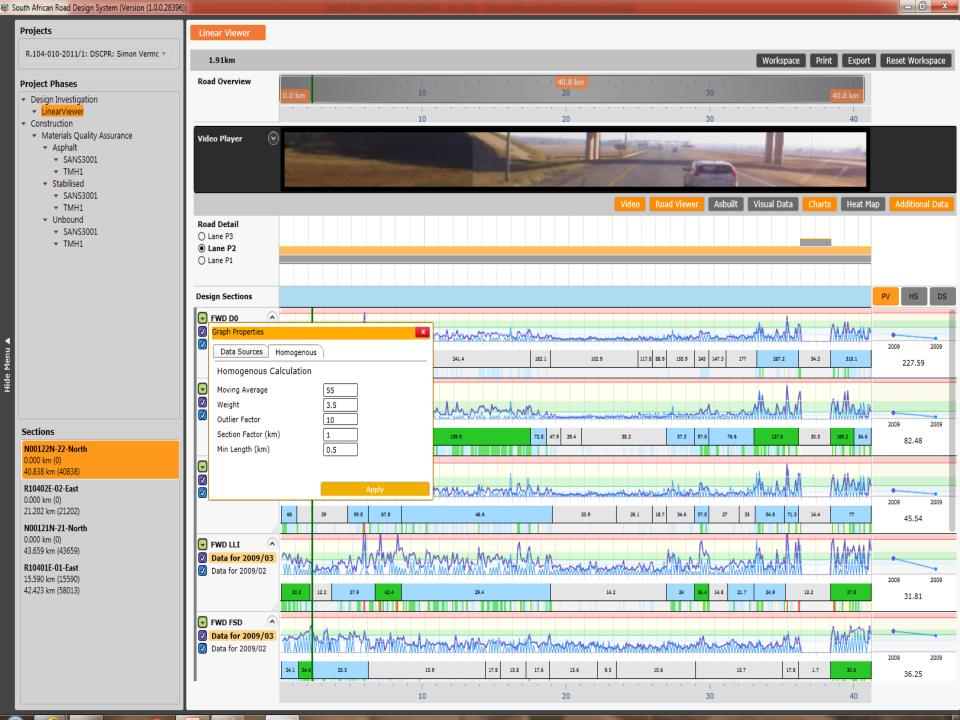
SARDS – Desktop

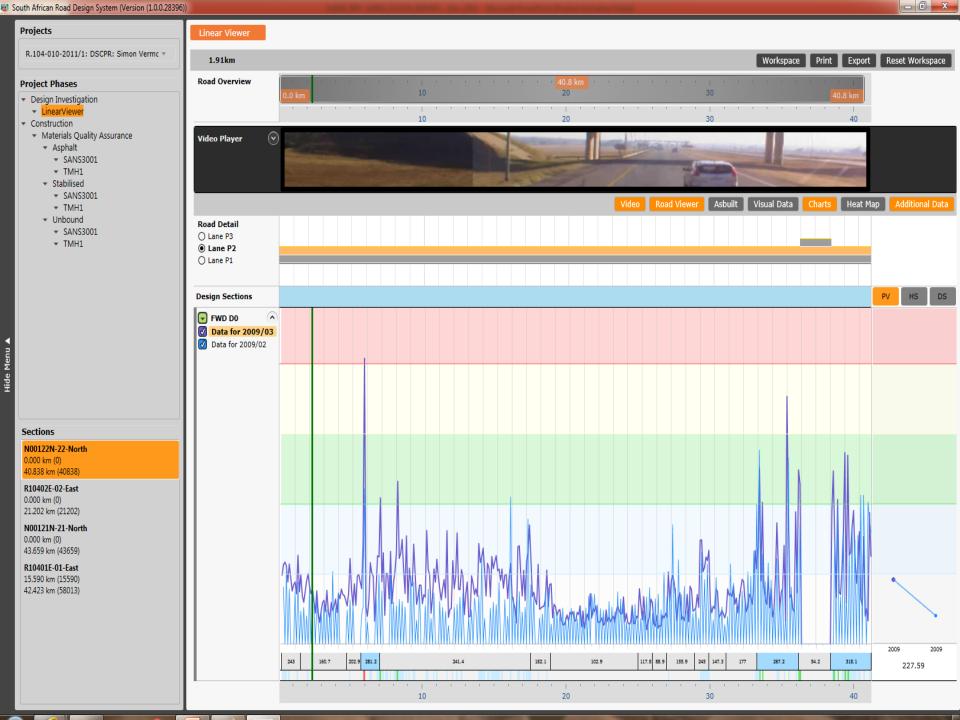


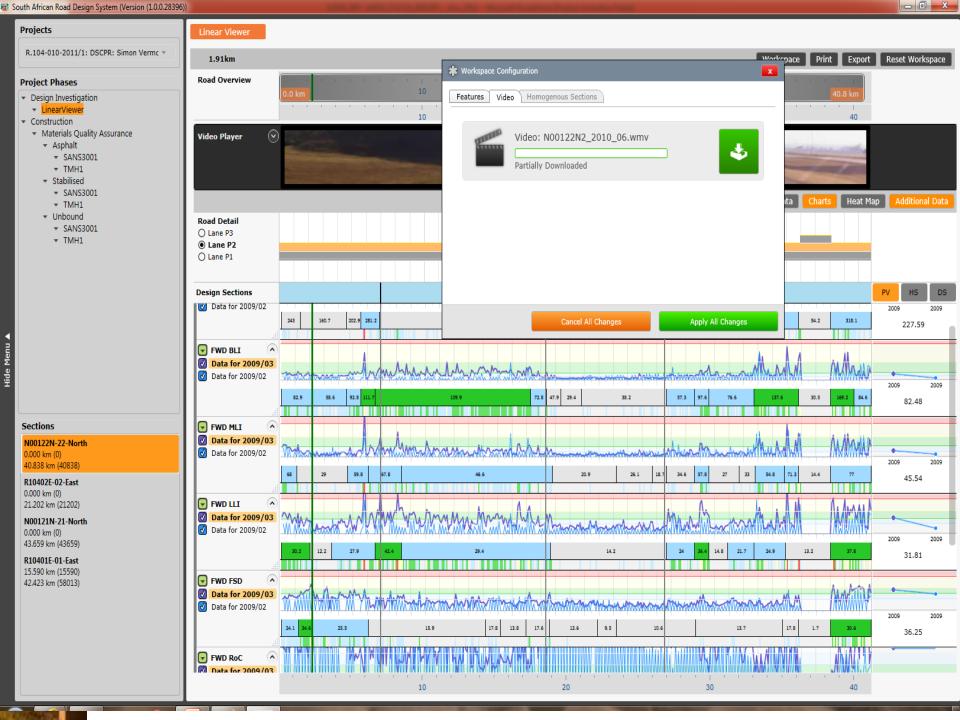


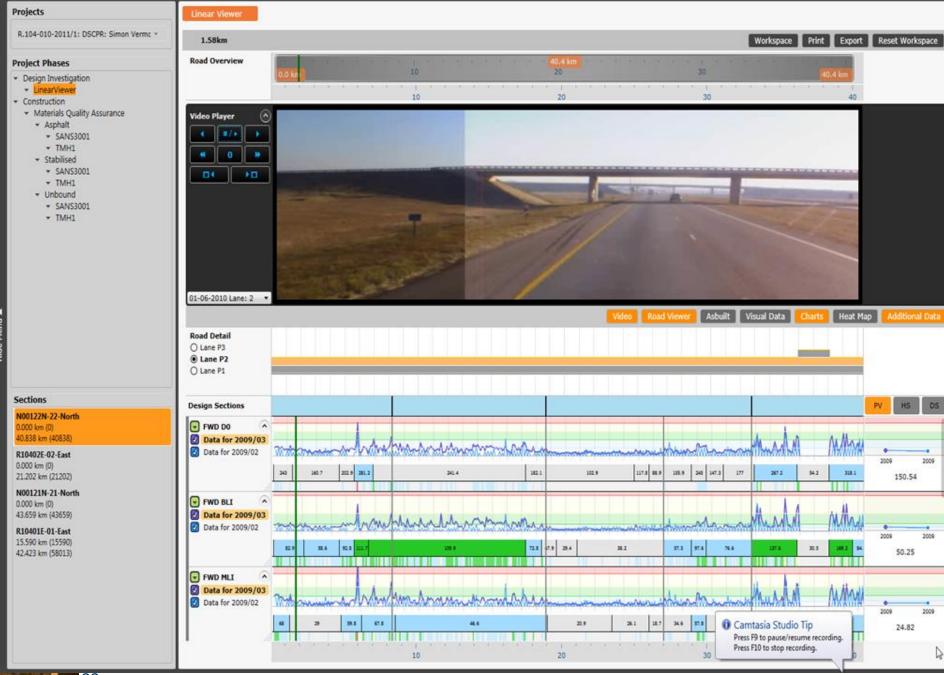














https://itis.nra.co.za/portal

