Asphalt Quality Initiatives by Sabita

RPF May 2011



Asphalt Quality



Performance requirements



Mix design procedure



National specification



Laboratory accuracy and precision

Four pillars expanded

- Pertinent structural performance characteristics (response and damage models) in the pavement design procedures
- 2. Up-to-date (multilevel) mix design procedure
- 3. Up-to date national specifications
 - In terms of mix requirements
 - Sound handling and construction techniques
- 4. National laboratory precision scheme

Presentation

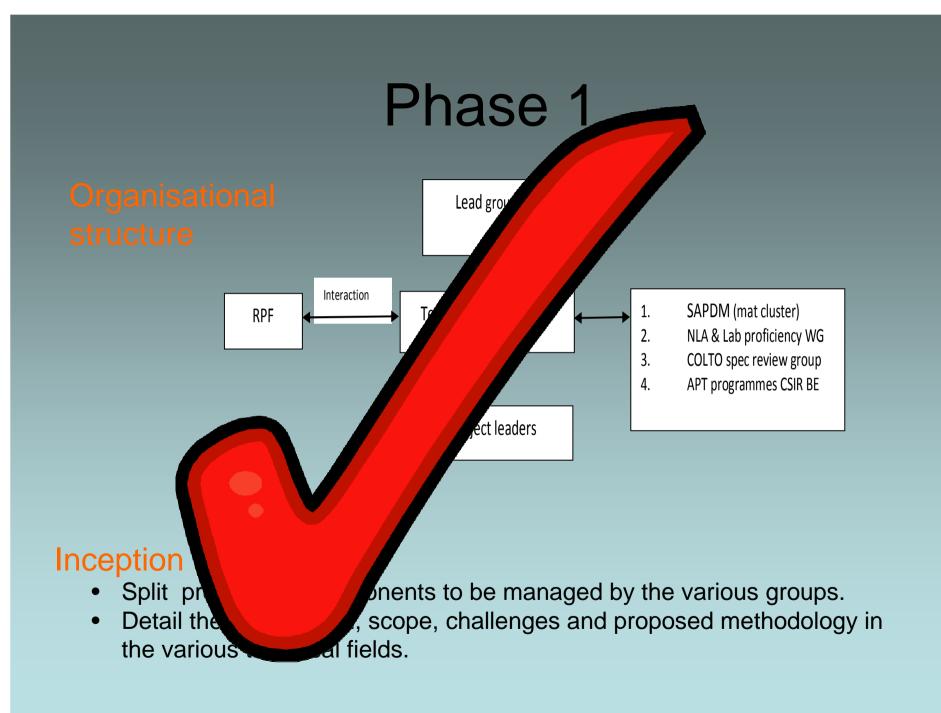
- Focus on Mix Design Procedure
- While noting that:
 - Linkages of procedure with revision of COLTO spec has been discussed with SANRAL
 - Contact with SAPDM is ongoing (CSIR)
 - National laboratory proficiency scheme has been reported on
 - Quality control process need still to be addressed.

Design method objectives

- Update procedures incorporating international and local advances,
- Include new mix types (e.g. HiMA, WMA, RA content), and
- Develop linkages with the structural design methods of SAPDM
- Identify specific specification requirements

Project Proposal Number: CSIR/BE/IE/EP/2010/0001/B

- Phase I: Establishment of a project management structure & Inception Report
- Phase II: State-of-the-art review, development of experimental programme
- Phase III: Experimental work and manual development and
- Phase IV: Dissemination and entrenchment into practice.



Phase II

- Literature study:
 - Current practice in South Africa,
 - Local trends,
 - International trends
- Interviews with stakeholders:
 - Producers (and other mix designers),
 - Consultants,
 - Clients,
 - Academics
- Development of experimental programme

Progress

- Phase II currently underway,
 - Interviews in progress,
 - Literature study in progress,
 - To be completed 31 July 2011
- Experimental work
 - Completion date 31 March 2012
- Draft manual to be complete 31 March 2012