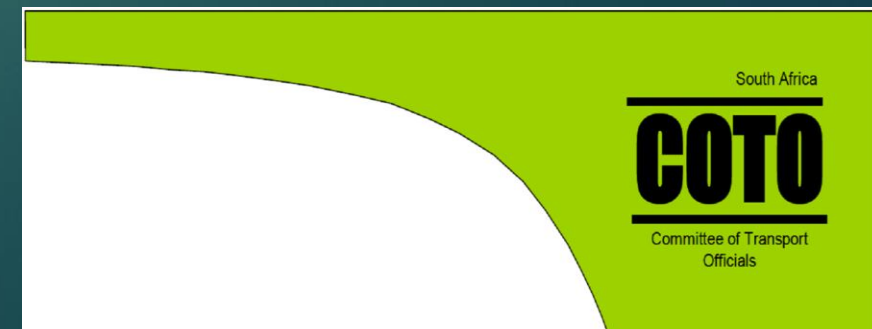


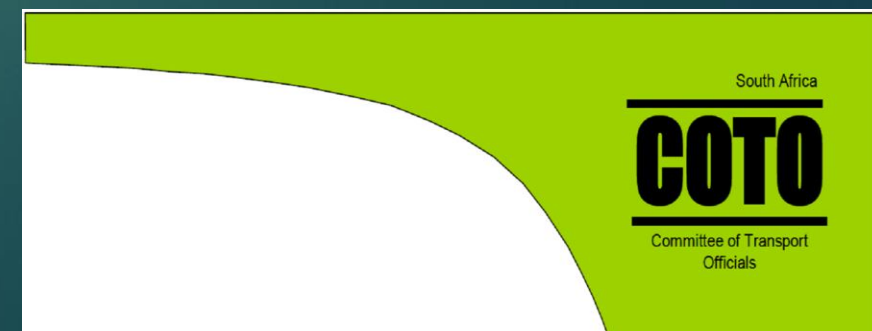
COTO: Road Materials Committee

ROAD PAVEMENT FORUM FEEDBACK
NOVEMBER 2019
PRETORIA



Last meeting

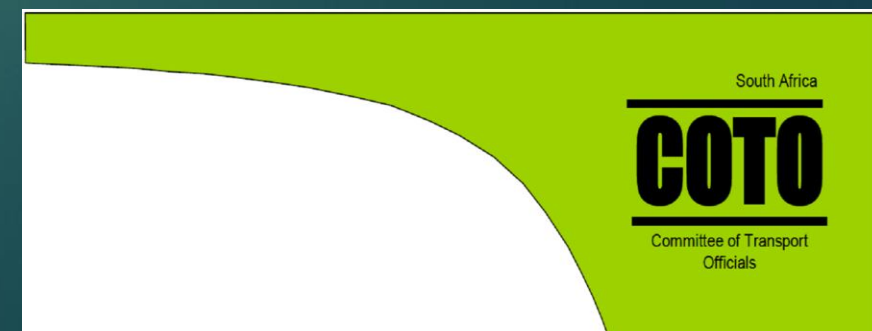
- ▶ 7 November 2019
- ▶ @ SANRAL Offices in Cape Town





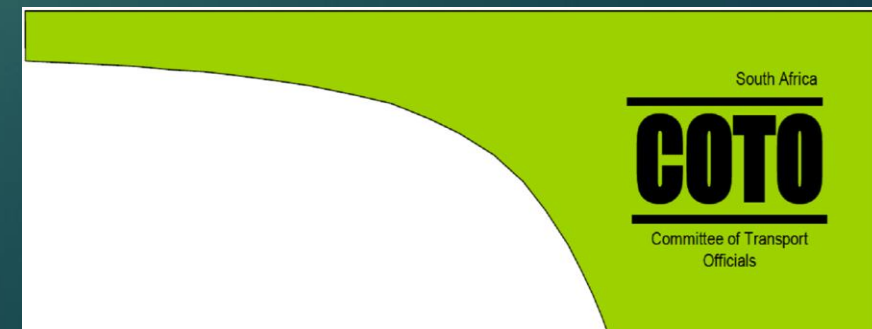
Some matters covered

- ▶ Document repository
- ▶ TRH Document Status
- ▶ New Documents
- ▶ Materials Design
- ▶ Materials availability and demand
- ▶ Water Demand Working Group
- ▶ Reclaimed Materials
- ▶ Routine Road Maintenance
- ▶ High Performance Emulsions
- ▶ PG Specification Implementation
- ▶ Pavement Design
- ▶ Materials Design
- ▶ Slurry – design vs use
- ▶ Quality management
- ▶ Materials Testing SubCommittee
- ▶ Nanotechnology WG
- ▶ Conferences and workshops
- ▶ Concrete Institute
- ▶ SABITA



Document Repository

- ▶ Currently SANRAL Website – www.nra.co.za
- ▶
- ▶ As COTO finalizes documents NDOT advises SANRAL for posting onto website

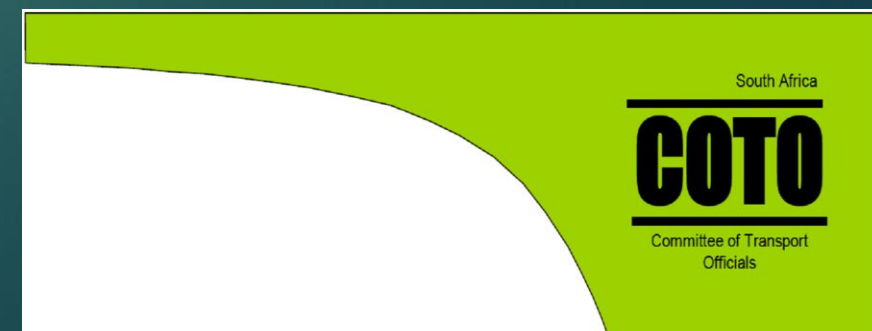


Some TRH Document Status

- ▶ TRH 3
 - ▶ SABITA busy with update
- ▶ TRH 9, 10 & 18 (Embankments and Cuttings)
 - ▶ Need for update has been agreed.
 - ▶ Client bodies are helping define the problem statement
 - ▶ Will then be proposed to SANRAL to utilize Research Panel to Update
- ▶ Slope Management Guideline
 - ▶ Good progress being made
- ▶ TRH13 (Stabilization)
 - ▶ RMC + Concrete Institute updating
- ▶ TRH7 (Emulsions)
 - ▶ Given recent work by HPEWG may be a case for updating

New documents

- ▶ Repairs and Maintenance of concrete pavement –
 - ▶ RMC + Concrete Institute compiling
 - ▶ Significant work done on draft
- ▶ Bond coats
 - ▶ SANRAL Research Desktop study shared with SABITA
 - ▶ SABITA considering a standalone section in appropriate document
 - ▶ May require more consideration
- ▶ EME Guideline Update (Manual 33)
 - ▶ RMC part of industry WG that updated the document
 - ▶ SANRAL APT is updating SARDS
- ▶ Bitumen Rubber Update (Manual 19)
 - ▶ RMC part of industry WG that updated the document
 - ▶ SANRAL Research Study used to update document.
- ▶ Manual 35 Implementation
 - ▶ Companion document completed
 - ▶ SAT is being used for national workshops
- ▶ COTO Standard Specification – now with RCB



Materials Design

- ▶ Maximizing sealwork –
 - ▶ SANRAL research work being included into TRH 3 update
- ▶ High performance emulsions
 - ▶ RMC is supporting further work as well improving emulsions technology in SA.

Materials availability and demand

- ▶ SANRAL N3/N2 Corridor Upgrade was discussed.

Water Demand

- ▶ RMC WG Formed
- ▶ Some early objective thoughts:
 - ▶ Water Demand measurement for each operation in roadworks
 - ▶ Reducing water demand
 - ▶ Alternative Technologies

South Africa

COTO

Committee of Transport
Officials

Reclaimed materials

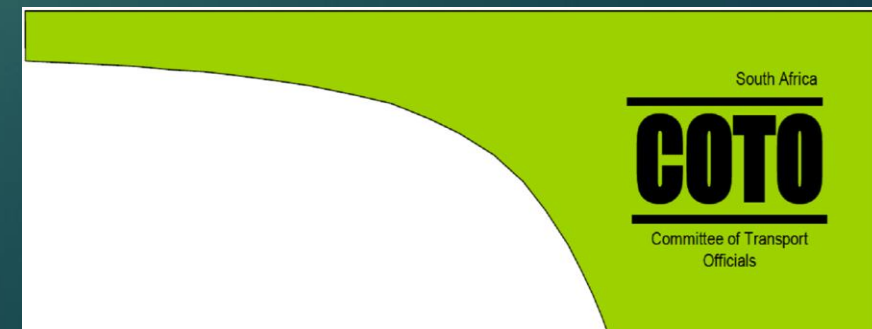
- ▶ Reclaimed concrete guideline
 - ▶ RMC supporting RECMAT
- ▶ Workshop late this year/early next N3 Corridor Upgrade focus on RCM use.
- ▶ Reclaimed Asphalt
 - ▶ TRH21 update now in progress.
 - ▶ Call for WG members.
- ▶ Bitumen Rejuvenation WG mooted –
 - ▶ Spray-on rejuvenators
- ▶ Plastic as a bitumen modifier
 - ▶ KZNDOT advised they have put down a trial in Cliffdale

Routine Road Maintenance WG

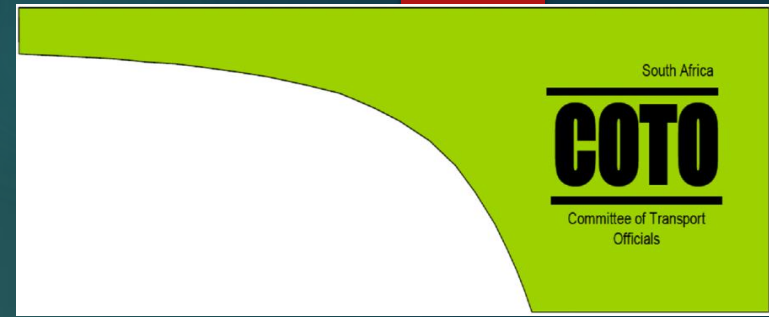
- ▶ CAPSA Workshop Feedback
- ▶ About 130 people attended parallel session, 1 of 4
- ▶ 4 presentations
- ▶ Outcomes
 - ▶ Engage with Treasury on contract mechanisms
 - ▶ Engage with NDOT on PRMG
 - ▶ RRM to feature as specialty session at next CAPSA

PG Specification Full Implementation

- ▶ RMC in discussions with SABITA for supporting and related documents to be changed.
- ▶ Pavement Design
 - ▶ SARDS Tender Module released
- ▶ SANS 1083 Rationalisation Progress
 - ▶ industry will be giving it more time.



Quality management



- ▶ Relatively little scientific effort going into better construction quality
 - ▶ CAPSA workshop – RMC support
- ▶ VA need to focus more of Lessons Learnt
- ▶ Calibration and certification of bitumen distributors / sprayers is a challenge
- ▶ Proficiency Testing Scheme
 - ▶ How are the actual results variability from PT being taken into practice

Thank you

