



**2011
STUDY TOUR**

FEEDBACK SEMINARS
Sydney & Perth
27 & 29 February 2012

AAPA 2011 Study Tour - Introduction

**2011
STUDY TOUR**

**Introduction to the
Study Tour
objectives**

AAPA 2011 Study Tour - Introduction

Itinerary

- 3rd to 19th September 2011
- Tour group 9 Australian roads people
- Five legs
 - Cape Town / Pretoria / Durban / CAPSA'11 / KNP
- Four key issues
 - Surface Treatments
 - Binders
 - Improving pavement performance
 - Sustainability

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AAPA 2011 Study Tour of South Africa and CAPSA'11

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Key Issues

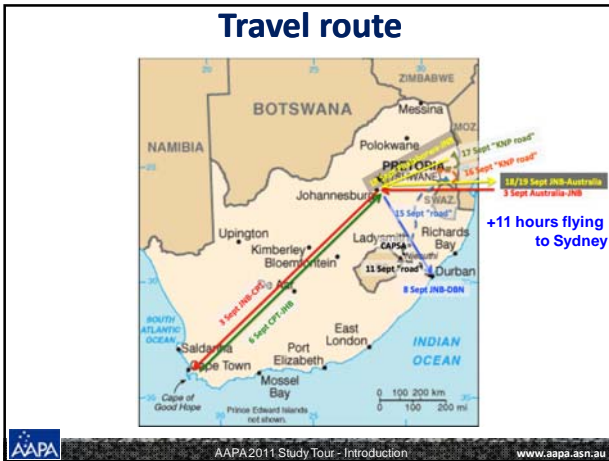
- A. Surface Treatments**
 - Sprayed seals | Slurry seals | Surface rejuvenation
- B. Binders**
 - use of bitumen rubber in sprayed seals and asphalt wearing courses, availability and specification requirements including quality control measure to ensure compliance.
- C. Improving pavement performance**
 - modelling, accelerated testing, design methods & models, foam bitumen stabilisation and bitumen treated base experience and transfer of high modulus asphalt technology to RSA
- D. Sustainability**
 - recycling, warm mix asphalt, efforts to reduce carbon footprint, carbon calculators and impacts for road asset management

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Process

- Visited research centres, state road authorities, municipal government, CAPSA conference, contractors, site & road inspections
- Presentations at Society for Asphalt Technology
- Provided detailed questions ahead of visit – answers provided and will be in report
- Contacts established and directions provided to participants on specific topics

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Comparisons

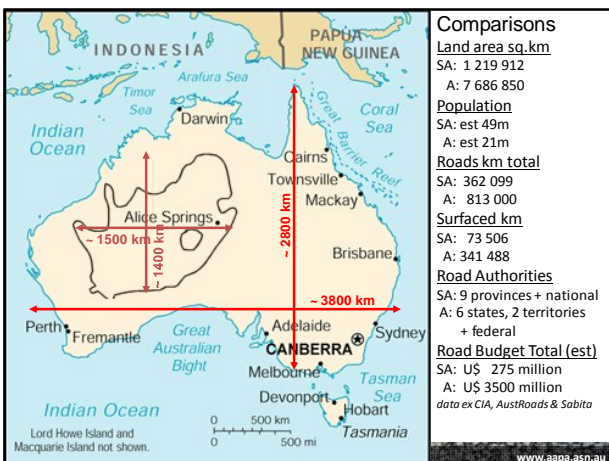
In Africa, man is still part of the food chain

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Statistics

	South Africa	Australia	ratio
Land area (km ²)	1 219 090	7 741 220	X 0.15
Population (June 2010 est)	49 004 031	21 766 711	X 2.2
Unemployment	24.9%	5.2%	-----
GDP US\$ purchasing power (b)	\$524	\$882	X 0.6
GDP / person	\$10 700	\$41 100	X 0.25
GDP growth rate (2009)	+2.8%	+2.7%	-----
Roads total length (km)	606 978	812 972	X 0.75
Roads paved (km)	153 719	341 448	X 0.45
Asphalt (million tonnes/annum)	4.5	9.5	X 0.47
Bitumen (tonnes/annum)	420,000	750,000	X 0.56

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COMPARISONS SUMMARY

Both: Southern Hemisphere
Different to Europe & North America

Similar: traffic, climate, technology
same suppliers, most road spray sealed

Different: funding, socio-political dynamic
"commercialised" agencies (SANRAL)
opportunities to innovate different
SAT, SANRAL University Chair, RPF
tyre pressure, user demands

Potentials: higher education, partnerships
sharing technology & experience

Sport: similar: rugby, cricket, professionalism

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AAPA 2011 Study Tour of South Africa

Introduction to tour objectives



Session Details	Start Time
Registration	10:00a
Introduction to tour objectives	10:30a
Binders	11:00a
Surface Treatments #1	11:30a
Surface Treatments #2	12:00p
Lunch (Tea in NSW)	12:30p
Improving pavement performance #1	1:00p
Improving pavement performance #2	1:30p
Sustainability	2:00p
CAPSA'11 & General	2:30p
Close and Wrap Up	2:50p

Australian Asphalt Pavement Association

Study Tour 2011

South Africa & CAPSA'11

Cape Town, Stellenbosch, Pretoria, Durban, KNP

3rd to 19th September 2011

GROUP REPORT

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