



CONTRIBUTING TOWARDS DEVELOPMENT *THAT IS SUSTAINABLE*

Presentation to:
Road Pavement Forum 9
November 2010

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Aspasa

ABOUT ASPASA

- ❑ Associations have been around since the beginning of time.
- ❑ Common interests are represented.
- ❑ Codes, ethics, self-regulation, lobbying are issues dealt with.
- ❑ In SA history started gradually.
- ❑ Family businesses amalgamated into larger companies.
- ❑ Need for professional body was needed.
- ❑ On 23 August 1990 ASPASA was formed.
- ❑ Membership is voluntary.
- ❑ ASPASA's aims are to encourage a sound & sustainable industry.
- ❑ ASPASA represents the majority of the formal quarry industry.
- ❑ The Construction industry is reliant on quarries to provide quality aggregates.

USE OF AGGREGATE

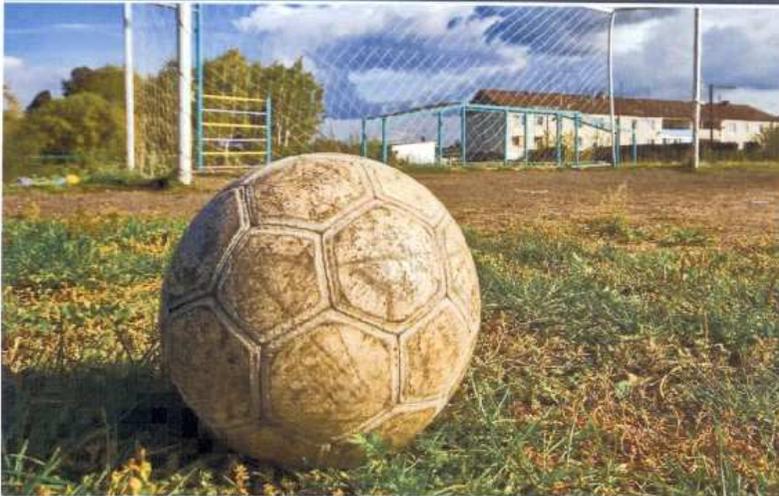


USE OF AGGREGATE



THE IMPORTANCE OF AGGREGATE & SAND

2010 Soccer – without Readymix concrete



SARMA OBJECTIVES:

- To advance industry technology through research and participation.
- To encourage the development of industry standards that promotes the use of readymix concrete.
- To disseminate information on current and prospective uses of readymix concrete to members.
- To interact with authorities, suppliers, customers, specifiers and regulators to make them aware of the products.

SARMA PLANT ACCREDITATION:

The manufacture of high quality concrete at the proper consistency is a process that requires the right mix proportions of quality materials. To achieve this, the batching plants have to be of a specific standard and regularly maintained.

Sarma is committed to maintaining an effective SHRED program which promotes and monitors safety, health, road transport, environment and quality as a fundamental component of the readymix concrete service package.

By contacting a SARMA member you can be assured that you are dealing with a credible readymix concrete supplier.

SARMA VISION:

To make readymix concrete the construction material of choice.



For more information on becoming a SARMA member or to find a SARMA accredited plant, call (011) 498-7265 or go to www.sarma.co.za

Example of Advertising Campaign used during the 2010 World Cup

THE IMPORTANCE OF AGGREGATE & SAND

From the beginning of time – aggregate and sand has been used in some or other form.



The technology's been around forever

– we just keep improving it.

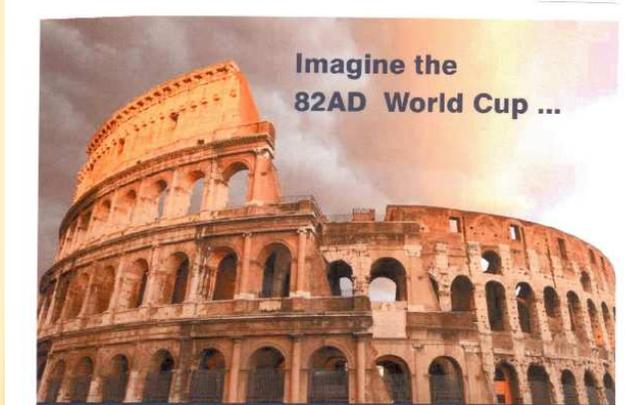
SARMA QUALITY CHECKS
The manufacture of high quality concrete at the proper consistency is a process that requires the right mix proportions of quality materials. To achieve this, the batching plants have to be of a specific standard and regularly maintained.

Sarma is committed to maintaining an effective SHREC program which promotes and monitors safety, health, road transport, environment and quality as a fundamental component of the readymix concrete service package. Our vision is to make readymix concrete the construction material of choice.

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Imagine the 82AD World Cup ...

... no Readymix concrete.

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SOME ISSUES ASPASA ADDRESSED

- ❑ Equitable & sound co-regulation of industry.
- ❑ Consistent application of National Legislation,
- ❑ Optimal resource recovery.
- ❑ Utilisation of sources that are licenced, conform to environmental requirements.
- ❑ ASPASA identifies illegal mining and reports to authorities.
- ❑ Aggregate and sand industry considered as small – but is one of top 5 revenue generators behind gold, platinum, diamond, coal.

ASPASA

“is committed to represent a healthy and sustainable aggregate industry”.

QUARRY



ASPASA

- ❑ *Represents the interests of the Aggregate Industry;*
- ❑ *Influence the legal framework for the industry and its application in the fields of mining licences, quarry rehabilitation, mine health and safety and product quality;*
- ❑ *Act as a forum for its members;*
- ❑ *Establish ASPASA members as aggregate suppliers of choice on the basis of the standards that its members have elected to adhere to.*

AGGREGATE USED IN SUSTAINABLE HOUSING



ASPASA ORGANOGRAM



ASPASA POLICIES & COMMITMENTS

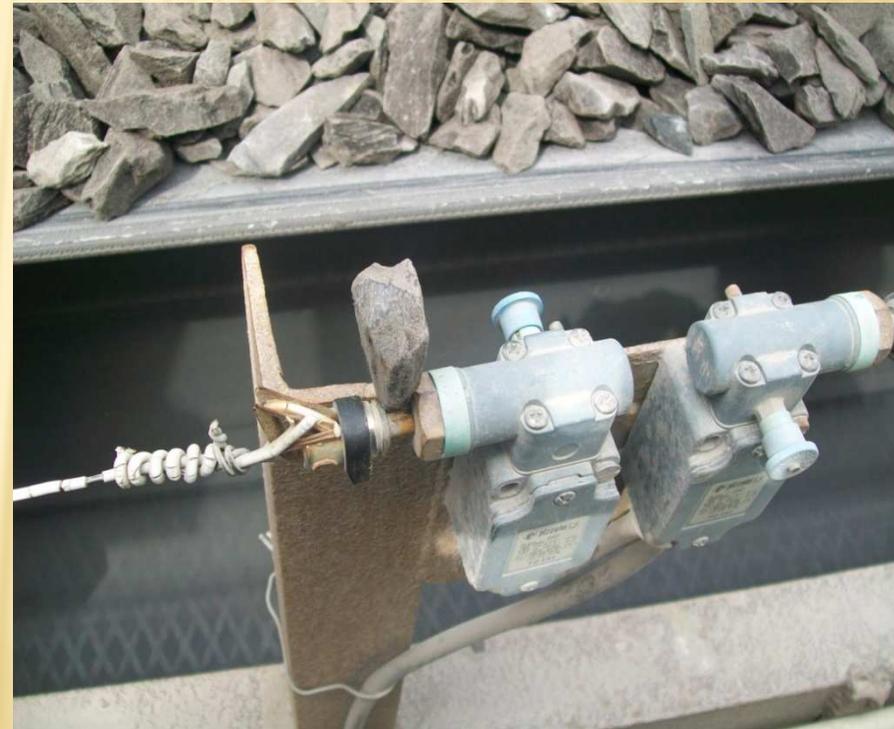
HEALTH & SAFETY

ENVIRONMENTAL

PROGRAMMES;

- ❑ *About Face Environmental Management
Incorporates ISO 14001 legislation*
- ❑ *ASPASA ISHE Audit (H & S)*

- ❑ *ASPASA ISHE Audit (H & S) – some of the ‘wrongs’ our auditor picks up.*



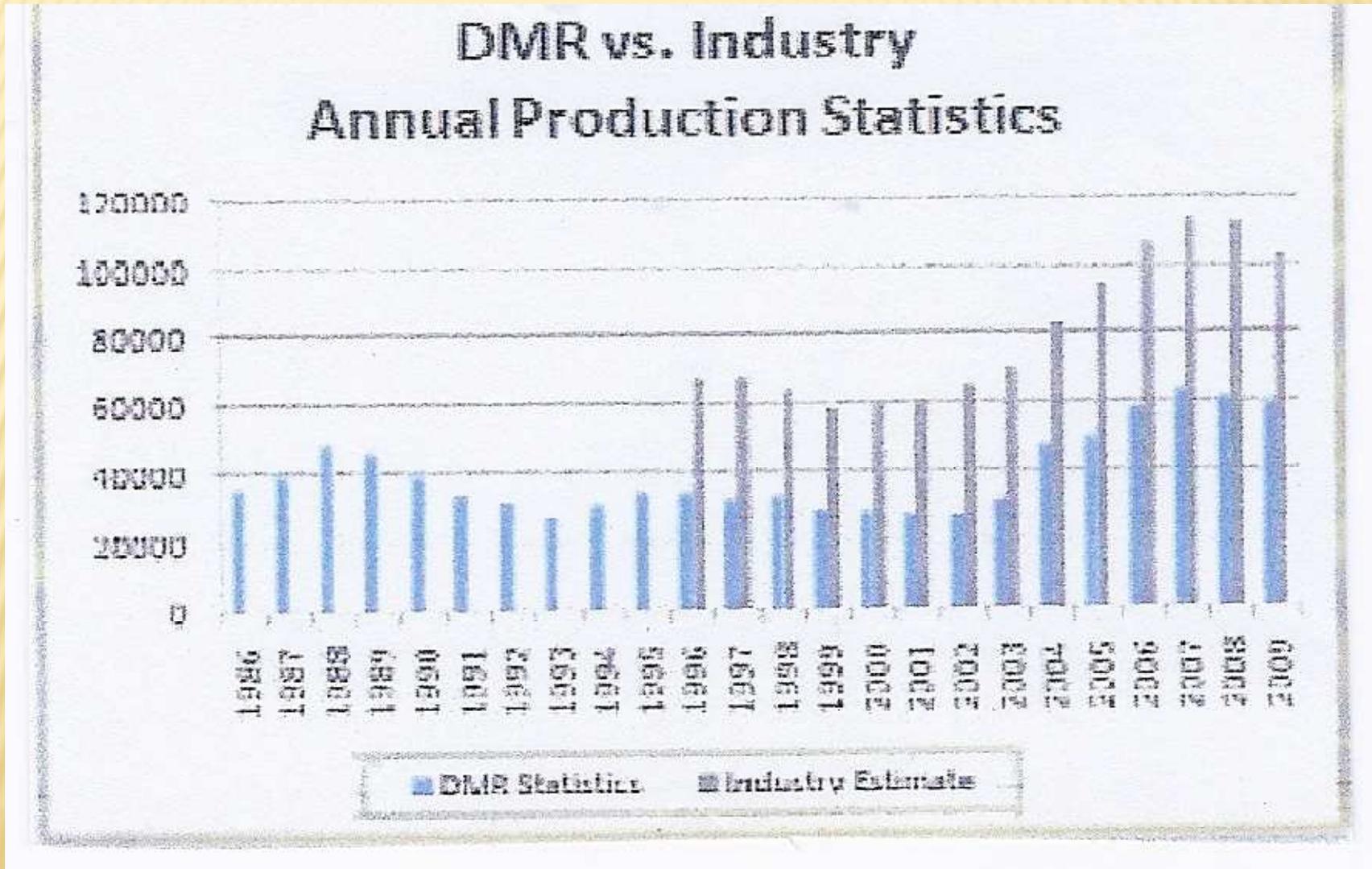
PRODUCTS & APPLICATIONS

- ❑ Produced near cities or projects.
- ❑ 70 – 80% of concrete = aggregates
- ❑ 90 – 95% of asphalt = aggregates
- ❑ Used for houses, roads, sidewalks, storm water, soccer stadiums , dams, roads, bridges, etc.
- ❑ Aggregate therefore forms the very foundation of society’s infrastructure.
- ❑ Value is low – weight is high, transport expensive.
- ❑ Quality of aggregates is a critical component to ensure infrastructure is sustainable.
- ❑ Durable structures require quality raw materials, aggregate and cement.

THE PROCESS OF AGGREGATE PRODUCTION

- ❑ Overburden removal
- ❑ Blasting
- ❑ Loading and hauling
- ❑ Conveyors
- ❑ Processing and logistics
- ❑ Fine crushing
- ❑ Grading / Screening
- ❑ Stockpiles
- ❑ Washing
- ❑ Water Recycling
- ❑ Logistics

ANNUAL PRODUCTION



PRODUCTS & APPLICATIONS COMMENTS

- ❑ All mining should submit production masses and safety stats to DMR Regional offices.
- ❑ DMR publish on website.
- ❑ Industry estimate much higher.
- ❑ DMR says +/- R60m tons
- ❑ Industry says +/- R150m tons
- ❑ Aggregate industry is underestimated.
- ❑ Problem with DMR not collecting figures properly.
 - H & S compromised
 - BEE not correctly calculated
 - Illegal mining stats not correct

MINING RIGHT CONVERSION

- ❑ MPRDA – 28/2002 tries to address previous prejudices.
- ❑ Old order rights – 50/1990 (Minerals Act) – to new order rights.
- ❑ The “use it or lose it” principal is implied.
- ❑ New requirements has strong social component.
- ❑ Mining Charter has been formulated.
 - HR Development and skills investment
 - Employment Equity
 - Community upliftment
 - Housing & Living Conditions
 - Preferential Procurement
 - Beneficiation

Some ASPASA members have had great success with conversions ... others not.

- ❑ Royalty on extraction of a mineral.
- ❑ “Any person who wins or recovers a mineral resource”
- ❑ All Operations must register with SARS.
- ❑ If not sure – contact

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CONTRIBUTING TOWARDS DEVELOPMENT THAT IS SUSTAINABLE

- ❑ ASPASA programmes contribute to more sustainable development.
- ❑ Optimal resource utilisation
 - Electrical Reductions
 - Max Demands
- ❑ Fuel awareness, upgrading fleets, improved maintenance.
- ❑ Reducing the Industry's dependence on fresh water.
- ❑ Reducing mining footprint through improved mine planning.
- ❑ Recycling returned load concrete.
- ❑ Improved blasting using less explosives.
- ❑ Mine rehabilitation and end-use training.
- ❑ Impact of illegal mining on sustainability.
- ❑ Community Forums.

THE FUTURE

- ❑ Industry is “hyper-competitive”.
- ❑ Still poor standard - not everybody are members.
- ❑ Potential for significant growth – more structure.
- ❑ Illegal operations to be legalised and keep to rules.
- ❑ Improved regulation by DMR.
- ❑ Measurement by DMR of industry to be upgraded.
- ❑ Industry benchmarking needed.
- ❑ Better improvement of working conditions, (H & S + Pay, etc.)
- ❑ Borrow pit control to be better managed.
- ❑ Responsible infrastructure development.
- ❑ Improved standards.
- ❑ Improved skill developments.
- ❑ Safer and healthier working conditions.
- ❑ Improved environmental performance.
- ❑ Responsible & meaningful self – and co-regulation.

ASPASA

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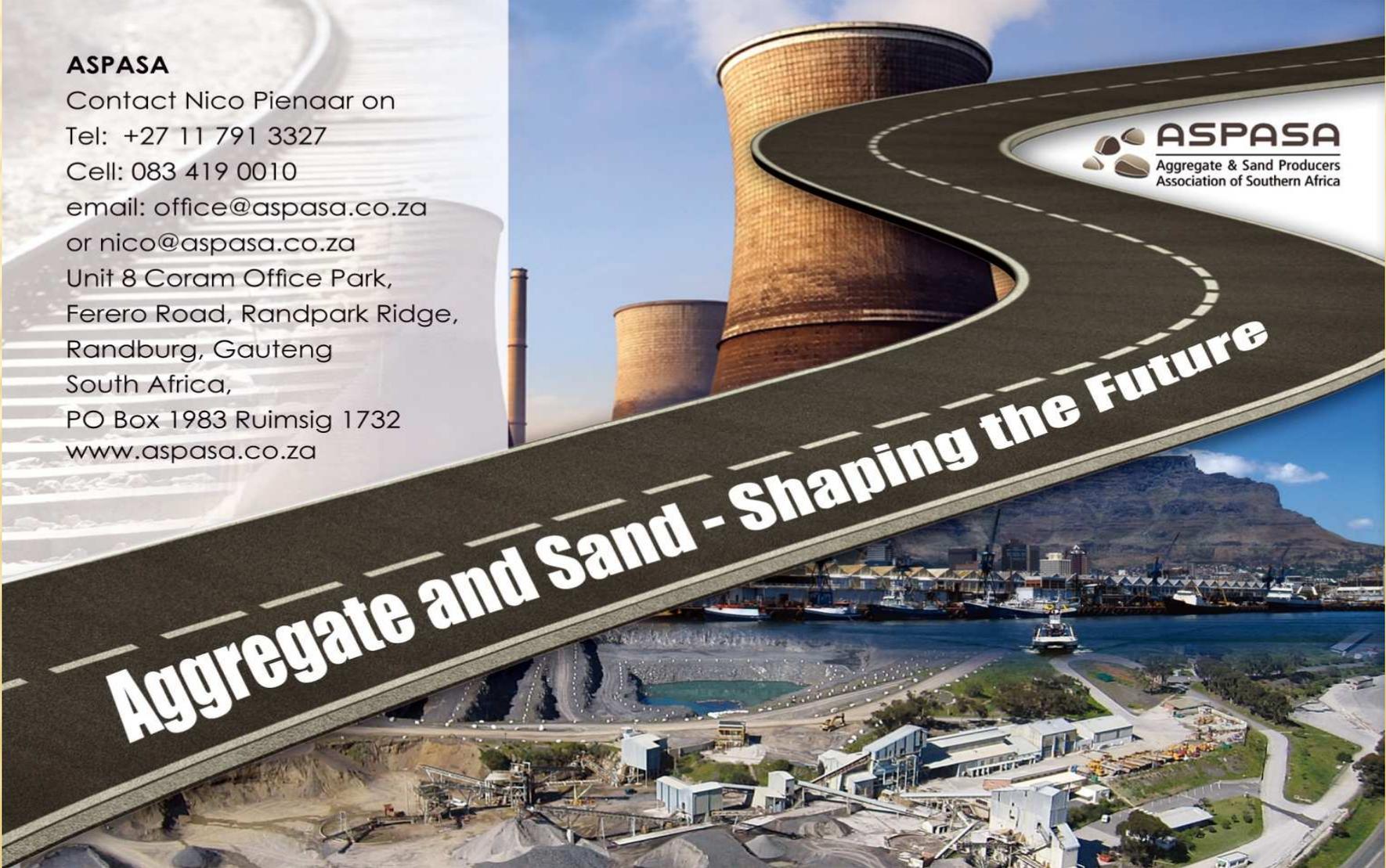
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Aggregate and Sand - Shaping the Future



THANKS

Thank you for your attention.

For a copy of Aspasa's

"Contributing Towards Development that is Sustainable"

Contact : office@aspasa.co.za