

SACAA



FLASHES

Issue 40 – March 2019

THE MEDIUM (since 2010) FOR QUICK ELECTRONIC COMMUNICATIONS WITH THE MEMBERS OF THE SACAA

INTRODUCTION

This issue addresses information and topics to ensure all members of SACAA remains informed.

- ❖ Membership news
- ❖ Introduction to Dirk Odendaal from Ash Resources and a member of SACAA Manco
- ❖ Unpacking the Risk management aspects of Phakisa

Kind regards

Mark Hunter

SACAA GM

MEMBERSHIP NEWS

Welcome - SACAA would like to say welcome to Mc Cain Foods (Adelaide Anthony) who operate four boilers out of their Delmas and Springs plants. Adelaide may you enjoy your interaction with the members and grow the ash beneficiation opportunities for a better South Africa.

Please book this date: 13 June 2019

SACAA together with ASPASA are planning to conduct a technical site visit to Kusile power station on 13 June 2019 as part of our regional visits. Please look out for the invitations closer to the time.



Introduction to Dirk Odendaal – SACAA Manco member

I started my career in the construction industry in 2002, working for a ready-mixed concrete transport company, contracted to Lafarge Ready-Mix. It was here where the love for concrete started. In the process of falling in love with concrete, I got to know a little bit about how it is produced, what the input materials are and how you can manipulate the formulations to give you pretty much any result you could imagine.

The years 2004 to 2008 I took a short break from concrete and joined a clay brick manufacturer called African Brick out on the West Rand of Johannesburg, but it was not long before I found my way back to the grey material. This time round, it was working for Lafarge, in the cement division. During this time, I got to play around with all sorts of input materials into a vast number of cementitious applications. It was in this period that I first got introduced to ash and its beneficiation applications. I immediately knew there was so much more to discover when it comes to the capabilities and possibilities of ash. In the years that passed my love for the grey product, and its capabilities grew stronger.

In 2015, I was fortunate to join Ash Resources, which is a subsidiary of Lafarge as Head of Commercial as well as becoming a member of SACAA. This appointment entailed that I was involved in export of ash throughout Africa, involved in R&D on new applications for the use of ash, as well as ensuring that ash utilisation is expanded in areas other than the conventional markets.

I was fortunate to be afforded the opportunity to serve on the SACAA Manco and hope to add value to the team, as well as the members of association and the greater South African use of ash.

At home I'm a family man and enjoy spending time with my wife of 15 years and our young son. I enjoy going to the gym, entertaining friends and family and having a fun filled life.

One of my passions is that I like to enjoy connecting with people and sharing ideas and knowledge and am committed to the outcome of the Phakisa Initiative.

Our Website is getting the desired results, based on the number of calls received - www.coalash.co.za

UNPACKING THE RISK MANAGEMENT ASPECTS OF PHAKISA

For any project to succeed, it is considered vital to identify a risk profile for the entire spectrum of risks and apply the normal “probability (impact) and possibility (likelihood)” scenario matrix to each facet. Some of the risks identified are in no sequence of importance listed as: Strategic Risk, Environmental Risk, Value Based Risk, People Based Risk, Compliance Risk, Information and Intellectual Based Risk, Process Based Risk, Financial Risk and of course the Execution and Capacity Building Risks.

Many of these risks emanate out of some of the critical business-related influencing and related governance requirements. Here we look at the Stakeholder expectations, Regulatory requirements, Governance requirements, Risk acceptability, Opportunities, Investments, Sustainability and Assurance that would be embedded into the scenarios.

Focus must also be on these risks within the project such as Change management, Internal and External risks, Business processes with the context of them all being unique enterprises, Enterprise Development, Capital and Value propositions and naturally Performance.

STRATEGY

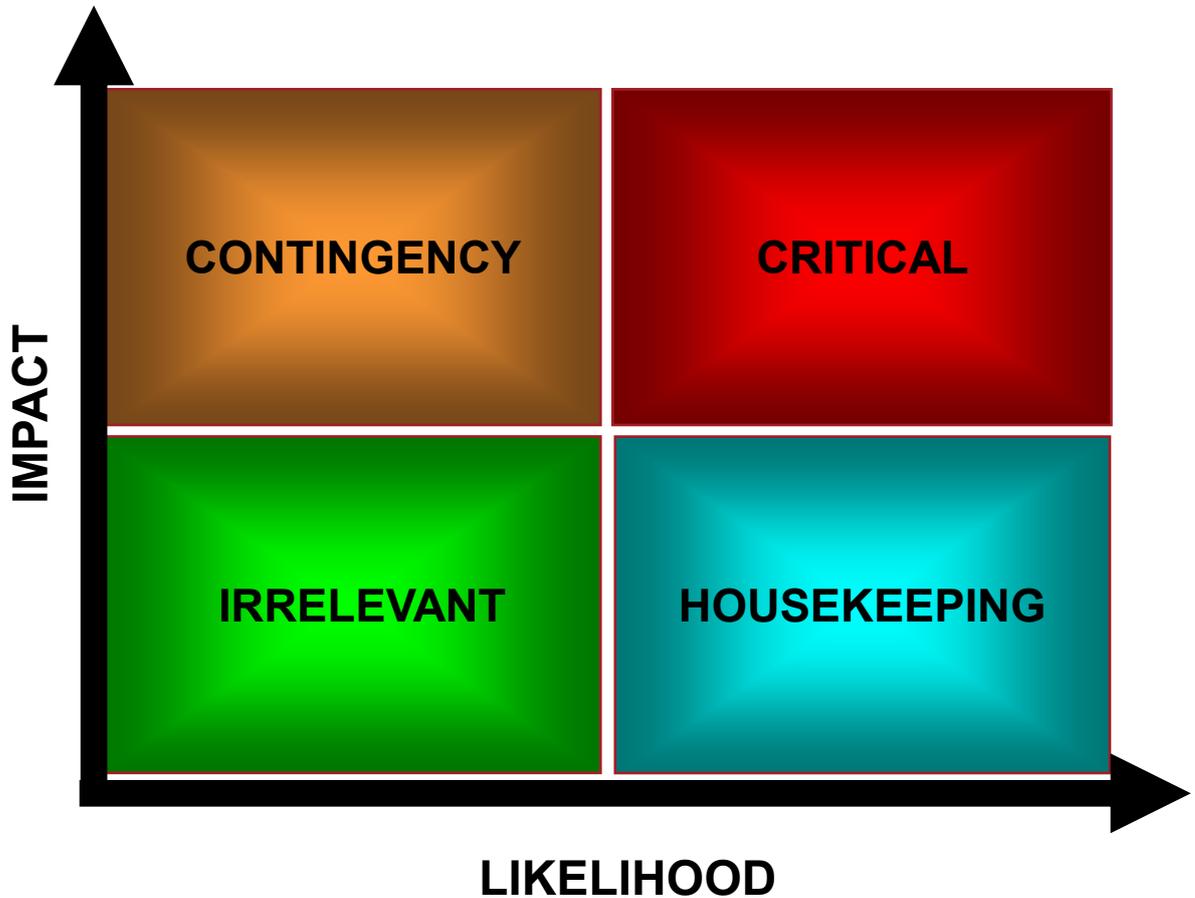
The South African Phakisa Initiative to develop an economy from waste was adopted from a similar programme from Malaysia where they increased the number of people employed and in turn saw that the crime rate dropped in the country as a result. The first Phakisa Initiative was the Oceans Economy that was commissioned by the South African President and has gained quite a lot of traction and achieving some good results. Based on the 2014 waste statistical information, behaviours and demographics the Waste Phakisa was commissioned, where government departments, industry, subject matter experts, academics and associations got together for a six-week intensive workshop to unpack all aspects that are current and futuristic that will enable the growth of an economy. The methodology adopted was to identify all the aspects from a broad perspective, where all points of view, opinions, research, opportunities, threats, risks and knowledge were documented and then started to narrow them down into the specific waste streams until they eventually could identify and documented what was described as a **three-foot plan**, where a more details plan was derived. Names, roles and activities were attached to the activities and process owners were identified and the Phakisa Initiative was then launched.

This formed the **Strategy** and the Department of Environmental Affairs (DEA) being the stakeholder, who in turn have three clear objectives and expectations to Create jobs, grow the GDP and reduce the Environmental footprint. The DEA then further delegated the **ash** component of the waste stream to the South African Coal Ash Association (SACAA) by means of a signed Terms of Reference (TOR) that covers the protocol, governance aspects and performance measures, to execute and facilitate the objectives.

COMPLETING THE RISKS RANKING

It is important to take each risk category for example “Environmental Risk” and create a random list of all environmental aspects related to the project and enter them into the risk matrix. From here the team should apply the Probability (impact) and the Possibility (likelihood) of each component with a score of between 1 to 10, where 1 is low and 10 is high for the short term (1 – 3 years), medium term (4 – 6 years) and long term up to 10 years, to rate and evaluate each risk component.

ENVIRONMENTAL RISKS	Risk Impact 1 - 3 year	Probability 1 - 3 year	Risk Impact 4 - 6 years	Probability 4 - 6 years	Risk Impact 10 years	Probability 10 years
<i>Phakisa environmental risk</i>						
Environmental regulations not being approved	5	5	8	5	10	5
Generators requirements to make the take-off process easier	5	8	5	6	5	2
Transportation of ash being restricted to 100kms only	3	1	1	1	1	1
Lack of takeoff capacity being increased	8	3	3	3	3	3
Lack of funding to make ash projects possible	10	6	6	4	4	5
Not enough new applications being developed	10	8	8	6	6	4



WHAT ARE SOME OF THE RISKS?

With the current political climate in South Africa being unpredictable with elections to take place on 8 May 2019, is very unstable however, the challenges remain the same no matter who comes into power and these are fundamentally the downturn in the economy, high unemployment and slowdown in the infrastructure development growth. This creates a massive opportunity for getting an economy established by the increased **ash** beneficiation and using innovation to develop new markets and applications. During this time, it is important to start putting processes in place to mitigate some of the project risks by being proactive and decisive, so that when things start to stabilise, we are well down the track.

Here are some suggestions:

- Complete the brick and block quality and standard;
- Develop the training material around the spec and facilitate training for the emerging market;
- Facilitate the issuing of the Gypsum tender by Eskom as it has a potential to reduce the waste stream by some 900 000 tons per annum notwithstanding the new jobs associated;
- Ensure that the Environmental exemption regulation are approved;
- Improve the ash communication drive to reach more than those involved;
- Host the research focussed Ash Conference and exhibition of products;
- Create an innovation hub for entrepreneurs and emerging entrants do some creation and ideas;
- Creating enough capacity of ash availability to support the growth in the market.

Each workgroup is going to have to develop their own risk matrix and set the milestones and activities and then prioritise them in short, medium and long term. Reporting of these milestones are critical in the light that it is a Presidential focused initiative to achieve the three objectives.

My thoughts – from:

Mark Hunter.

INTERNATIONAL CONFERENCE

Reminders

Early update on the **World of Coal Ash (WOCA)** 2019 conference:



13 – 16 May 2019
St Louis, Missouri USA

<http://worldofcoalash.org/register/>



Organisers:



University
of Dundee

Dundee & Angus
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The EuroCoalAsh2019 Team

Download the Abstract Submission Form from the Conference Website [here](#).

SACAA DIARY

DATES FOR 2019

15 May 2019 – Council meeting and Technical Talk

13 June 2019 – Kusile Site Visit together with ASPASA members

13 & 14 August 2019 – Research Forum (Dates and details to be finalised)

7 August 2019 – SACAA AGM

13 November 2019 – Council Meeting and Technical Talk

The next Council meeting will be held on 15 May 2019 at the Concrete Institute in Midrand. This meeting will be followed by a technical talk.

Please share any news, activities or articles that you feel will be interesting to the members.

ALL FOR NOW ...

Regards

SACAA GM