

## MEETING AGENDA

Meeting/Project Name:	<b>Public Hearings on The Waste Tyre Management Plans</b>		
Date of Meeting: (MM/DD/YYYY)	<b>18/05/2018</b>	Time:	<b>09h00</b>
Meeting Facilitator:	<b>Chairperson: Ms N Ngcaba,</b>	Location:	<b>Olive Convention Centre, Durban</b>

### Meeting Objective

- To give an overview of Extended Producer Responsibility in relation to Tyre Industry Plan
- To provide equal opportunity to all plan owners to present an overview of their submissions
- To provide equal opportunity to all interested and affected parties to engage on the submitted plans
- To provide a forum for open dialogue in order to clarify ambiguities and challenge plan owners on the sufficiency of the plan in line with overall national environmental strategy
- To provide an update from the Waste Bureau and information on the current network of tyre operations, infrastructure and participants, with due compliance to Promotion of Access to Information Act (PAIA) and Personal Information Act (POPI)

<b>Meeting Agenda</b>	
<b>Topic</b>	<b>Owner</b>
Opening and Welcome	Nosipho Ngcaba, Chairperson, Director General, DEA
Apologies	Nosipho Ngcaba, Chairperson, Director General, DEA
Purpose of the meeting	Nosipho Ngcaba, Chairperson, Director General, DEA
DEA Presentation on regulations and the S28 notice	Linda Garlipp, Chief Director, DEA
Presentation on litigation and liquidation: REDISA	Vanessa Bendeman, Chief Director, DEA
Presentation—EPR vision and outlook for the tyre industry	Mark Gordon, Deputy Director General, DEA
<b>Presentations on the proposed Waste Tyre Management Plans</b>	
SATRUCO	Hugh Mtshali, CEO
Question and answer session	Interested and affected parties, plan proponents
TWAMISA	Zuzana Hegerova, Plan Owner
Question and answer session	Interested and affected parties, plan proponents
JPC Energy	Not in attendance
Question and answer session	Not Applicable
Evergreen Pty (Ltd)	Ebrahim Patel, Director
Question and answer session	Interested and affected parties, plan proponents
Waste Management Bureau operations	Nolwazi Tetyana, Specialist Advisor
Discussions	Interested and affected parties, Waste Bureau
Way forward	Nosipho Ngcaba, Chairperson, Director General, DEA
Closure	Nosipho Ngcaba, Chairperson, Director General, DEA

## MEETING MINUTES

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		<b>Location:</b>	Olive Convention Centre, Durban
<b>Attendance at Meeting<sup>1</sup></b>			
<b>Name</b>	<b>Role</b>	<b>Department/Division</b>	
Nosipho Ngcaba	Director General	Department of Environmental Affairs	
Mark Gordon	Deputy Director General	Department of Environmental Affairs	
Linda Garlipp	Chief Director	Department of Environmental Affairs	
Vanessa Bendeman	Chief Director	Department of Environmental Affairs	
Nolwazi Tetyana	Specialist Advisor	Waste Management Bureau	
Andile Mvinjelwa	Senior Executive Manager	Waste Management Bureau	
T Mokoena	Role not given	Waste Management Bureau	
Hugh Mtshali	CEO	SATRUCO	
Nathi Gaisa	Chairperson	SATRUCO	
Nomathemba Khubeka	Board member	SATRUCO	
Johann Lehmann	COO	SATRUCO	
Zuzana Hegerova	Plan owner	TWAMISA	
Ebrahim Patel	Director	Evergreen	
George Mapuma	Director	Evergreen	
Ayub Patel	Engineer	Evergreen	

<sup>1</sup> Attendance register captured is not exhaustive. This list therefore only contains the names of the presenters and Department representatives

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		<b>Location:</b>	Olive Convention Centre, Durban
<b>Summary of presentations</b>			
<b>Topic</b>	<b>Owner</b>		
<p><b>Opening &amp; Welcome</b></p> <p>Purpose and background for an industry waste management plan:</p> <ul style="list-style-type: none"> <li>Minister made a call for Industry Tyre Waste Management Plans with a deadline of 31<sup>st</sup> December 2017, in terms of NEMA Waste Act, S28</li> <li>Minister received 4 plans from the following organisations: <ul style="list-style-type: none"> <li>SATRUCO, submitted on the 31<sup>st</sup> December 2017</li> <li>TWAMISA, submitted on the 30<sup>th</sup> December 2017</li> <li>JPC ENERGY, submitted on the 11<sup>th</sup> December 2017</li> <li>EVERGREEN ENERGY, submitted on the 16<sup>th</sup> November 2017</li> </ul> </li> <li>The Minister's notice, published 7 May 2018, called for public hearings; accordingly the 4 plans were made public</li> <li>Sessions have been arranged in 7 provinces within the period of 30 days, taking into account the geographic spread</li> <li>The Department is required to follow due process and thus the sessions are recorded</li> </ul> <p>Communicated purpose of the sessions:</p> <ul style="list-style-type: none"> <li>To give an overview of Extended Producer Responsibility in relation to Tyre Industry Plans</li> <li>To provide equal opportunity to all plan owners to present an overview of their submissions</li> <li>To provide equal opportunity to all interested and affected parties to engage on the submitted plans</li> <li>To provide a forum for open dialogue in order to clarify ambiguities and challenge plan owners on the sufficiency of the plan in line with overall national environmental strategy</li> <li>To provide an update from the Waste Bureau and information on the current network of tyre operations, infrastructure and participants with due compliance to PAIA and POPI</li> </ul>	<p>Nosipho Ngcaba, Chairperson, DG, DEA</p>		
<p>Facilitators introduced themselves and the house rules. They communicated that:</p> <ul style="list-style-type: none"> <li>Questions open to the floor shall be limited to ONE question per person per round, in order to allow as many participants as possible to voice their views</li> <li>When asking a question or presenting a statement, please state your name and organisation for the record</li> <li>Times allotted to tea breaks and lunch shall be respected to maintain all objectives of the programme</li> <li>Please respect speakers and plan owners as they speak – allow them to make their point</li> </ul>	<p>Lindiwe Gadd, Independent Facilitator</p>		

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<p><b>DEA Presentation on Regulations and the S28 Notice</b></p> <p>DEA presented an overview of regulations for an industry waste tyre management plan:</p> <ul style="list-style-type: none"> <li>• The National Environmental Management: Waste Act No. 59 of 2008 (NEMWA) regulates waste management in South Africa</li> <li>• S28(1) empowers the Minister to require a person or category of persons that generates waste to prepare and submit an industry waste tyre management plan</li> <li>• In terms of this section the Minister called on tyre producers, any other person, category of persons or industry that generates waste (and by implication persons who have the support base of waste generators) to submit waste tyre management plans</li> </ul> <p>DEA communicated the terms and process for the public consultations:</p> <ul style="list-style-type: none"> <li>• Based on section 32 (5A) of NEMWA, provisions are made for a consultation process</li> <li>• Section 31 (1) allows the Minister to: <ul style="list-style-type: none"> <li>○ approve a plan in writing on certain conditions and give directions on the implementation of the plan</li> <li>○ require additional information to be submitted</li> <li>○ require amendments to be made to the plan</li> <li>○ reject the plan with reasons or if it does not meet the requirements of the notice published in terms of section 28</li> </ul> </li> </ul> <p>DEA communicated regulatory provisions for a transitional plan:</p> <ul style="list-style-type: none"> <li>• Regulation 12 provides for transitional arrangements in the event that a waste tyre management plan expires, is withdrawn or is terminated and at the time there exists no other industry waste management plan.</li> <li>• In this case, the Waste Management Bureau shall be responsible to facilitate, supervise and control the management of waste tyres in the interim until a new industry waste tyre management plan is approved.</li> <li>• The Bureau may issue instructions for the management of waste tyres; such instructions must be complied with within the timeframe stated in the instruction.</li> <li>• All participants registered with the previous waste tyre management plan shall in the interim register with the Bureau.</li> <li>• All tyre producers must submit to the Bureau the same declarations they submit to SARS in respect of the quantity of tyres produced or imported, on a quarterly basis.</li> <li>• The Bureau must establish a waste tyre forum with all affected industry to deal with governance and operational matters pertaining to the management of waste tyres during the interim, until a new industry waste tyre management plan is approved.</li> </ul>			Linda Garlipp, Chief Director, DEA

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<p><b>Presentation on litigation and liquidation: REDISA</b></p> <p>DEA presented the series of events with regards to REDISA's liquidation and litigation status:</p> <ul style="list-style-type: none"> <li>On the 1<sup>st</sup> June 2017, Minister brought an application to provisionally liquidate REDISA</li> <li>On the 8<sup>th</sup> June 2017, Minister brought an application to liquidate Kusaga Taka Consulting (KTC)</li> <li>Both companies were placed under provisional liquidation on the respective dates</li> <li>On the 9<sup>th</sup> June 2017, Minister obtained a provisional liquidation order against the Product Testing Institute (PTI). The return date has been extended, by agreement, to 12 October 2018 pending the finalisation of the appeals lodged with the Supreme Court of Appeal (SCA) on REDISA and KTC</li> <li>On the 15<sup>th</sup> September 2017, High Court placed both REDISA and KTC under final liquidation</li> <li>REDISA and KTC applied for leave to appeal to the SCA against the entire judgement and order</li> <li>The SCA granted the leave to appeal on 14<sup>th</sup> February 2018. The matter has not yet been allocated a date for hearing by the SCA</li> </ul> <p>DEA communicated the performance of the plan between June and September 2017, under the care of the liquidators:</p> <ul style="list-style-type: none"> <li>Record of active participants as at June 2017 is as follows: <ul style="list-style-type: none"> <li>499 micro-collectors</li> <li>78 transporters</li> <li>20 depots</li> <li>15 processors</li> </ul> </li> <li>Total tonnages collected between June and September 2017: <ul style="list-style-type: none"> <li>29 203.50 tonnes</li> <li>16 886.66 tonnes</li> </ul> </li> <li>Cash resources of REDISA at date of provisional liquidation were R 178 547 943 (1<sup>st</sup> June 2017)</li> <li>Cash resources of REDISA at date of cessation of operations (30<sup>th</sup> September 2017) were R 82 451 332</li> </ul> <p>DEA communicated status of assets in line with the liquidation process:</p> <ul style="list-style-type: none"> <li>All REDISA's assets are securely stored, except those which are being used by the WMB as per the interim arrangement</li> <li>Provided the final liquidation order is upheld by the SCA, provisional liquidators can begin disposal of assets and finalising creditors' claims</li> <li>Provisional liquidators will lodge a liquidation and distribution account with the Master of the High Court in relation to the administration of REDISA</li> </ul>		<p>Vanessa Bendeman, Chief Director, DEA</p>	

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<p><b>Extended producer responsibility (EPR) vision and outlook</b></p> <p>DEA communicated summary of the vision:</p> <ul style="list-style-type: none"> <li>• Problem statement identified: <ul style="list-style-type: none"> <li>○ Opportunity cost of waste, missed opportunities due to poor infrastructure and skills and underfunding</li> <li>○ Unsafe and unhealthy outcomes imposed on society due to waste produced</li> <li>○ Pervasive underpricing in the waste economy</li> </ul> </li> <li>• Value statement introduced: <ul style="list-style-type: none"> <li>○ Introduced to begin concerted efforts in waste valorisation (extracting value from waste)</li> <li>○ Incentivising a recycling economy</li> <li>○ Creating and promoting jobs in the waste economy</li> <li>○ Diligence in service delivery</li> <li>○ Governance and revenues in the waste economy</li> </ul> </li> <li>• The desired outcome would be: <ul style="list-style-type: none"> <li>○ Less waste</li> <li>○ Diversion of waste</li> <li>○ Jobs created and sustained</li> <li>○ The existence of a circular economy</li> <li>○ Direct benefits to society</li> <li>○ Streamlined regulatory process</li> </ul> </li> <li>• What the circular economy would imply: <ul style="list-style-type: none"> <li>○ The need for sustainable growth in the context of the growing pressure of production and consumption on the world's resources and environment</li> <li>○ Resources kept within the economy when a product has reached the end of its life, so they can be productively re-used repeatedly to create further value</li> </ul> </li> <li>• Models for government, industry-managed EPR plans and revenue collection: <ul style="list-style-type: none"> <li>○ Financial instruments to pass on the burden of waste to producers and consumers, and incentivise waste management efforts by the same groups</li> <li>○ Instruments include incentives and fees for recycling, taxes on extraction of resources, product taxes for consumers, disposal taxes and EPR fees collected from producers</li> </ul> </li> <li>• Provided case studies of EPR policies globally: <ul style="list-style-type: none"> <li>○ European countries are early adopters and practices contributed to increased recycling rates</li> <li>○ EPR schemes contributed to reductions of public spending on waste management</li> </ul> </li> <li>• EPR role players include PROs, which are individual schemes mostly applied in business-to-business contexts that organise and finance collective producer responsibilities towards waste management</li> </ul>			<p>Mark Gordon, Deputy Director General, DEA</p>

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## SATRUCO

CEO introductions, overview of the company and the team:

- The South African Tyre Reuse Company (SATRUCO) was established as an NPC in 2016. Plan drafted is a response to regulation.
- Introduced members of the SATRUCO team present:
  - Nomathemba Kubheka (board member)
  - Johann Lehmann (COO)
  - Advocate Nathi Gaisa (Chairman)
  - Mr Thando Ngwenya (legal advisor)
- Since our first submission of the plan and ongoing consultation with local and international partners and subscribers, our plan has been amended to accommodate these inputs
- When call from the minister appeared on the newspapers in 2016, there was a process set out which we followed very accurately, including placing ads in two national newspapers.
- From that, there were more than 452 individuals from the tyre industry who received the original plan and made inputs and gave comments. Hence the plan submitted to the minister and the plan presented today aren't exactly the same. Some magazines and academic institutions gave some critique of the original plan.
- Vision: to achieve sustainable economic growth through the value chain, a clean and healthy environment, innovative solutions and global competitiveness through the efficient and effective management of waste tyres
- Mission – to make a critical contribution to waste management in SA by:
  - Encouraging a vibrant circular economy approach in the management of waste tyres
  - Ensuring a value chain model for the beneficiation of waste tyres within an EPR methodology
  - Making waste tyre management a national priority
  - Raising public awareness
  - Creating meaningful sustainable jobs through the fostering of SMMEs with a special focus on BBBEE
- This plan is about supporting, ensuring that the poorest of the poor in this country do get an opportunity. I am going to dwell on that, because it is an area that is very, very close to my heart and I will share some experiences in this regard – like a transporter in Tembisa whose business opportunity came to an end due to the inefficiencies of the previous plan
- Shared a story of the early 90's when companies all over the world were looking to come back to South Africa. In particular, Procter and Gamble (P&G) was looking for black companies to partner with. At the time, Mr Mtshali worked for Pepsi South Africa
- His partnership with P&G ended up being one of the first empowerment deals. The point is that at the time he had nothing. He has a few young friends, they had a vision and P&G had the resources. P&G invested, then he and his partners went into the communities. The venture was a success.
- What P&G did for him through the auspices of enterprise development, he'd like to do for the poor of South Africa and help in the creation of SMME's.
- SATRUCO addresses all types of tyres – a comprehensive integrated plan
- Plan aims to achieve the support and set-up of infrastructure and processes for reduction & reuse, recycling, energy and treatment & disposal

Governance model to implement plan:

- Includes lessons learnt from previous plan; the governance plan includes Treasury, WMB, DEA
- 7 board members with 2 ex officio members and 1 oversight member:
  - Legal, HR and Risk

Hugh Mtshali, CEO, SATRUCO

Nomathemba Khubeka, board member, SATRUCO

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<ul style="list-style-type: none"> <li>Provincial operations model to address the fact that the plan is a people-centred plan</li> <li>All provincial plans include the following types of participants: <ul style="list-style-type: none"> <li>Recyclers</li> <li>Transporters</li> <li>Marketing</li> <li>Awareness campaign planners</li> <li>Depot collection point owners</li> </ul> </li> </ul> <p>Cost allocation to different initiatives (budget):</p> <ul style="list-style-type: none"> <li>Have established a well-running call centre, with a planned allocation of 0.5% of the budget to grow and maintain call centre</li> <li>An enterprise development programme with an allocation of 2%</li> </ul> <p>How will we measure impact of plan:</p> <ul style="list-style-type: none"> <li>No. of recyclers, processors, no. of sustainable jobs, no. of sustainable downstream businesses (not specified if newly created business directly related to their efforts)</li> <li>Database of research and innovation conducted during its operational period</li> <li>Number of processors developed</li> <li>SATRUCO's annual reports</li> <li>SATRUCO's international conference wherein its achievements will be showcased</li> <li>SATRUCO's real-time data produced by its bespoke IT system</li> <li>Evidence of its engagement with public and private entities, namely, government departments and support services, business and industry, training institutes, the community development service providers, the civic movement and grass root communities involved in developing the tyre waste economy</li> </ul> <p>SATRUCO's readiness:</p> <ul style="list-style-type: none"> <li>SATRUCO has created a team with collective experience of 100 years in the industry</li> <li>The plan has seen an extensive consultation process <ul style="list-style-type: none"> <li>Academics</li> <li>International waste industry participants</li> <li>SETAs</li> </ul> </li> <li>Interest has been expressed by processors, recyclers and investors to establish new plants and create new opportunities, skills and technology transfer</li> <li>Has a legal team and a team of chartered accountants to ensure key governance/risk concerns around legal compliance and financial responsibility</li> <li>Social impact is a priority</li> <li>Has an enterprise development team driven from the office of the CEO to drive SMME development</li> <li>Has a bespoke IT plan developed and tested with international experts</li> <li>Has a plan to conduct imbizos in provinces to inform communities of the plan and the opportunities available to them</li> </ul>		<p>Hugh Mtshali, CEO, SATRUCO</p>	

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<p>Skills development:</p> <ul style="list-style-type: none"> <li>• People skills development includes creating certification for newly skilled trades/people in the value chain</li> </ul> <p>Overview of operational plan:</p> <ul style="list-style-type: none"> <li>• Process <ul style="list-style-type: none"> <li>○ Tyre dealers' waste sorted and tyres mutilated, manufacturers' reject tyres, community collection areas</li> <li>○ Pre-processing operations, tyre-derived fuel (TDF) manufacturing <ul style="list-style-type: none"> <li>▪ Historical stockpiles as inputs into pre-processing and TDF operations</li> <li>▪ Downsizing process before recycling/pyrolysis</li> </ul> </li> <li>○ Processing (includes pyrolysis ops and crumbing ops)</li> <li>○ Energy recovery</li> </ul> </li> </ul> <p>Intended outputs of processing activities:</p> <ul style="list-style-type: none"> <li>• Pyrolysis operations <ul style="list-style-type: none"> <li>○ HFO</li> <li>○ Carbon char</li> <li>○ Steel</li> </ul> </li> <li>• Crumbing <ul style="list-style-type: none"> <li>○ Value-added items such as bricks, tiles, inputs for tarred roads</li> </ul> </li> <li>• Intended offtake partners of pre-processing activities are energy recovery</li> <li>• Surplus from pre-processing exported as TDF commodity</li> <li>• Plan to abate mining and OTR tyres: <ul style="list-style-type: none"> <li>○ Address mines' historical stockpiles</li> <li>○ Address dealers'/mines' arising tyres</li> </ul> </li> </ul> <p>Targets for collections and processing:</p> <ul style="list-style-type: none"> <li>• Within 12 months of approval 50% at 69 600 tonnes</li> <li>• Within 24 months of approval 70% at 87 00 tonnes</li> <li>• Within 36 months of approval 80% at 121 800 tonnes</li> <li>• Within 48 months of approval 90% at 156 600 tonnes</li> <li>• Within 60 months of approval 100% at 174 000 tonnes</li> </ul> <p>Number of jobs and SMMEs to be created in the industry:</p> <ul style="list-style-type: none"> <li>• 160 micro-collection co-ops</li> <li>• 5632 new jobs created</li> </ul> <p>Conclusion:</p> <ul style="list-style-type: none"> <li>• Plan responds equitably and responsibly to legislation. It is a cost-effective, transparent model for recycling and a community-focused plan</li> <li>• Adopts all principles of the circular economy</li> <li>• Plan ensures social impact – with aspects of the plan requiring implementation at the community level</li> <li>• Encourages innovation through its partnerships with scientific bodies in a bid to making South Africa globally competitive</li> <li>• Promotes investment in the country</li> </ul>		<p>Johann Lehman, COO, SATRUCO</p>	

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Question		Owner	
<p><b>Question 1</b></p> <p>Please can you clarify who the industry participants in your operation are and provide an overview of their processes?</p> <p><b>Answer 1</b></p> <p>The processes are as follows:</p> <ul style="list-style-type: none"> <li>• Sorting through waste tyres vs. secondhand tyres at tyre dealerships</li> <li>• Mutilate waste tyres before taking to depots</li> <li>• Depots – pre-processing happens where tyres are broken down to a fuel and separated material</li> <li>• Transported to various operations – crumbing,</li> <li>• Pre-processing tyres will subsidise processing operations</li> </ul>		Musa, UKZN	
<p><b>Question 2</b></p> <p>Is your consultation with higher institutions on research &amp; development for SAQA-affiliated courses complete, or is there room to engage further?</p> <p><b>Answer 2</b></p> <p>SATRUCO is willing to respond and engage.</p>		Dr Thulani John Mbuli, Director, Worker's College	
<p><b>Question 3</b></p> <p>How does your plan attempt to absorb SMMEs that have been left in the cold with regards to the REDISA end of contract?</p> <p><b>Answer 3</b></p> <p>We aim to do the following to address previous contracts:</p> <ul style="list-style-type: none"> <li>• Have a discussion with WMB and get to know all the contracts and roles engaging</li> <li>• Conduct an audit to identify industry participants and encourage SMMEs to undergo registration with SATRUCO</li> <li>• The due diligence includes going back to basics and diagnosing participants' needs based on SATRUCO's SMME development framework</li> <li>• It is cost-effective to assist existing SMMEs as opposed to new entrants, so the onboarding of REDISA participants should not be an issue. It would be counter-intuitive to target new entrants solely</li> </ul>		Ncamiso Nhlambuli, UKZN	
<p><b>Question 4</b></p> <p>Does Satrucu have a management company, and if so, what are its reasons for including one considering the issues face by REDISA?</p> <p>Could you provide a paper trail of your consultations?</p> <p><b>Answer 4</b></p> <p>We do not have a management company. We reviewed our plan and will provide an update into the next version of the plan.</p> <p>We began industry consultations in March 2016. Our first consult was with RMI in Randburg and we have documents to prove our consultations.</p>		Riaz Haffajee, CEO of (own company)	

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<p><b>Question 5</b></p> <p>What new processing are you adding in terms of the end use of the tyre and is your plan bankable? Can you get funding, execute the plan and then claim R2000 per tonne of waste addressed?</p> <p><b>Answer 5</b></p> <p>The plan is bankable and this has been tested by investors expressing support for our operation.</p> <p>Waste is produced by the industry and that is what governments hold accountability for. Tariffs and costs passed onto industry are part of government's oversight (in response to the claim of R2 000 per tonne).</p>		<p>Cliff Naidoo, Natal Port Cement</p> <p>Nosipho Ngcaba, Chairperson, DG, DEA</p>	
<p><b>Question 6</b></p> <p>What type of support can processes expect with regard to penetrating the existing market with the material that is already recycled?</p> <p><b>Answer 6</b></p> <p>One of the fundamentals of our support is grants and funding against a submitted business plan. We've been speaking to SEFA to support with a soft loan. We plan on putting together financial and development packages for processors.</p>		<p>Thapelo Mapunga, organisation unspecified</p>	
<p><b>Question 7</b></p> <p>A. You stated engagement with stakeholders in the industry, yet you have not engaged with the Waste Tyre Forum, why is this so?</p> <p>B. Page 49 of your plan mentions the existence of a management company, please clarify SATRUCO's position on this?</p> <p>C. Please identify the discarded transporter if all industry participants were absorbed by the WMB?</p> <p>D. Are you an incubator or a waste tyre management authority?</p> <p>E. Can you provide proof of all your consultations?</p> <p>F. How do expect us to engage if you restrict the number of questions raised (at facilitators)</p> <p><b>Answer 7</b></p> <p>A. We had no awareness of your existence and are willing to engage on the forum's position hereafter.</p> <p>B. We do not have a management company. Updates to our plan will highlight this. SATRUCO will run all operations and have a provincial model of managers to undertake regional oversight of waste management.</p> <p>C. The tyre driver who is not employed is from Tembisa (no further detail given).</p> <p>D. Incubation is one of the key strategies for enablement and it is necessary for the industry to move forward.</p> <p>E. Proof of our consultations is tabled in the proposal annexures document.</p> <p>Comments from DG as chair of the session:</p> <ul style="list-style-type: none"> <li>Participants of REDISA's plans were not given to the new plan owners.</li> </ul>		<p>Motlatsi Thinyane, Waste Tyre Management Forum</p> <p>Hugh Mtshali, CEO, SATRUCO</p> <p>Nosipho Ngcaba, Chairperson, DG, DEA</p>	

<b>Meeting/Project Name:</b>	<b>Public Hearings on The Waste Tyre Management Plans</b>		
<b>Date of Meeting:</b> (MM/DD/YYYY)	18/05/2018	<b>Time:</b>	09h00
		<b>Location:</b>	Olive Convention Centre, Durban
<ul style="list-style-type: none"> <li>Any parties who were left out based on REDISA's failings should raise their grievances directly with DG as opposed to new plan owners and/or other parties. There is clear process communicated for this.</li> <li>Participants were urged to present on the facts in the proposals rather than speak to general waste management processes.</li> </ul>			
<p><b>Question 8</b></p> <p>If pre-processing activities will be done by SATRUCO, then what will happen to current processors?</p> <p><b>Answer 8</b></p> <p>Processing activities will not stop. Business development initiatives will be passed onto processors, in order to upskill on pre-processing. Pre-processed material will be passed onto existing processors.</p>			Personal details not provided
<p><b>Question 9</b></p> <p>What are you doing to address stockpiles? Current issue is that stockpiles aren't being addressed because of payment issues – current stockpiles are not moving.</p> <p><b>Answer 9</b></p> <p>We've added a micro-collectors list in each community identified in our plan, where people will be collecting tyres in communities – we anticipate that this will help address stockpile issues. The process is gradual because we need to account for transport and storage costs and address stockpiles not addressed by the previous industry waste plan.</p>			Personal details not provided

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		<b>Location:</b>	Olive Convention Centre, Durban
<p><b>TWAMISA</b></p> <ul style="list-style-type: none"> <li>• Introduction of TWAMISA, an initiative of Danubia and a plan focusing solely on OTR tyres</li> <li>• TWAMISA team's background is in high-impact projects in the mining industry around abatement – which informs focus of the proposal</li> </ul> <p>Background and rationale:</p> <ul style="list-style-type: none"> <li>• Cost of OTR tyres continues to increase as does cost of abatement – therefore a funding deficit exists</li> <li>• The plan's view is to bulk up on abatement activities now, which will create savings (externality) in the future on spend faced by industry/government</li> <li>• The plan for integrated depots implies a holistic solution for remote areas: <ul style="list-style-type: none"> <li>○ Fully compliant shared infrastructure for the region</li> <li>○ Close the loop locally</li> </ul> </li> <li>• What would these depots look like: <ul style="list-style-type: none"> <li>○ Start with large OTRs where service providers and infrastructure currently exists with OTRs 45"- 63" because complexity is implied in this segment operationally</li> <li>○ Room for a depot to accommodate non-OTRs e.g. 1000 square feet</li> </ul> </li> <li>• Value proposition is to produce a comprehensive service to the mines/DEA on tyre waste management in the industry</li> <li>• Collaboration with another tyre waste management company to handle other tyre waste categories</li> </ul> <p>Process overview:</p> <ul style="list-style-type: none"> <li>• Processing methods – two processes in South Africa: <ul style="list-style-type: none"> <li>○ Whole tyre is shredded to 50 x 50 pieces</li> <li>○ Shredding process separating steel and rubber</li> </ul> </li> <li>• Crumb (by-product) usage</li> <li>• Crumb into pyrolysis – to cascade into blended fuels</li> <li>• Overview of applications of processing by-product applications: <ul style="list-style-type: none"> <li>○ Tar roads</li> <li>○ Carpets</li> <li>○ Fashion</li> <li>○ Astro-turf</li> </ul> </li> </ul> <p>SMME and BEE impact:</p> <ul style="list-style-type: none"> <li>• Plan proposes sustainable SMEs at all levels of the value chain</li> <li>• A co-funding platform to pool economic development and social development spend of subscribers</li> <li>• SMEs would ideally be 51% black-owned, partnered with larger, existing specialised operations and provided with an equity ownership deal</li> <li>• Intent to impact formal sector with job creation through upskilling</li> <li>• Introduce employee share schemes</li> <li>• Provide access to black SMEs into capital-intensive spaces</li> <li>• Improve the empowerment credentials of current industry participants</li> </ul> <p>Collection and diversion targets:</p> <ul style="list-style-type: none"> <li>• Includes 6 years' worth of historical stockpiles</li> <li>• 27% of historical stockpiles addressed by Year 5</li> </ul>		<p>Zuzana Hegerova, Plan Owner, TWAMISA</p>	

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		<b>Location:</b>	Olive Convention Centre, Durban
<ul style="list-style-type: none"> <li>• 20% of the post-tyre levy backlog addressed by Year 5</li> <li>• 100% of the new arising tyres addressed by Year 5</li> </ul>			
<p>Recycling targets:</p> <ul style="list-style-type: none"> <li>• Increase recycling rates through: <ul style="list-style-type: none"> <li>○ Incentives and R&amp;D support to SMEs building local recycling capacity</li> <li>○ Work with the municipalities, SANRAL, etc. to stimulate demand</li> <li>○ Stimulate independent trading in the industry (i.e. those who generate new and compliant offtake to profit from sale of material)</li> </ul> </li> <li>• Year 1 targets: <ul style="list-style-type: none"> <li>○ 60% energy recovery, 0% re-use, 40% recycling</li> </ul> </li> <li>• Year 2 targets: <ul style="list-style-type: none"> <li>○ 50% energy recovery, 0% re-use, 50% recycling</li> </ul> </li> <li>• Year 3 targets: <ul style="list-style-type: none"> <li>○ 30% energy recovery, 10% re-use, 60% recycling</li> </ul> </li> <li>• Year 4 targets: <ul style="list-style-type: none"> <li>○ 20% energy recovery, 20% re-use, 60% recycling</li> </ul> </li> <li>• Year 5 targets: <ul style="list-style-type: none"> <li>○ 10% energy recovery, 30% re-use, 60% recycling</li> </ul> </li> </ul> <p>Local SMEs and jobs over the 5-year plan:</p> <ul style="list-style-type: none"> <li>• Decent jobs are sustainable jobs</li> <li>• Temporary jobs – in line with some short-term contracts</li> <li>• 242 decent jobs to be created based on submitted plan and 500 temporary jobs to be created in infrastructure development, plant construction, etc.</li> </ul> <p>Skills development plan:</p> <ul style="list-style-type: none"> <li>• A total of 75 people to be impacted:</li> <li>• Plan to target upskilling via the following initiatives: <ul style="list-style-type: none"> <li>○ 50 people due to ad hoc specialised training</li> <li>○ 10 people identified for a bursary programme</li> <li>○ 10 people for a post-university internship programme</li> <li>○ 5 people identified for a fast-track management programme</li> </ul> </li> </ul> <p>Prevention of pollution and ecological degradation:</p> <ul style="list-style-type: none"> <li>• Impact will be addressed through targets in the waste hierarchy</li> <li>• Competece training and oversight of industry participants by TWAMISA and with incubation partners</li> <li>• National awareness campaigns</li> </ul> <p>Administration:</p> <ul style="list-style-type: none"> <li>• Governance structure ensures that TWAMISA is a management company overseen by an NPC</li> <li>• Single system registration for industry participants</li> <li>• A contract award system and adjudication committee</li> <li>• Single perpetual NPC for the waste tyre stream</li> </ul>			

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		Location:	Olive Convention Centre, Durban
<ul style="list-style-type: none"> <li>• TWAMISA to create own NPC if preferred by the Minister, targeting level 3 BEE rating on specialised generic scorecard</li> </ul> <p>Planned revenue sources:</p> <ul style="list-style-type: none"> <li>• DEA Tyre Levy allocation for TWAMISA plan</li> <li>• Stockpile owners for historical stockpile abatement projects</li> <li>• Non-OTR Industry Manager for shared infrastructure</li> <li>• Sale of material to offtake</li> </ul>			
<p>Plan costs:</p> <ul style="list-style-type: none"> <li>• Communicated errors in submitted plans on: <ul style="list-style-type: none"> <li>○ Value of R&amp;D in year 5</li> <li>○ % allocation (environmental impact) service providers by year 5</li> <li>○ % allocated to set-up and administration costs in year 1</li> <li>○ Total value of spend by year 5</li> </ul> </li> <li>• Total spend in year 1 is projected at R109 500 736</li> <li>• Total spend in year 5 is projected at R 1 190 420 396</li> </ul> <p>Pros of multiple managers:</p> <ul style="list-style-type: none"> <li>• Accelerated roll-out and impact</li> <li>• Reduced costs in the long term</li> <li>• Healthy competitiveness</li> <li>• Reduced risk of monopolistic behaviour by a single PRO</li> <li>• Multiple knowledge contributors</li> <li>• Narrower and thus more achievable focus of each manager</li> <li>• Simplification of delivery and performance evaluation</li> <li>• Specialisation fosters innovation</li> </ul> <p>Regular reporting to stakeholders:</p> <ul style="list-style-type: none"> <li>• Monthly reporting – SMEs to Manco – service-level KPIs embedded into contract (environmental, financial, etc.)</li> <li>• Quarterly reporting <ul style="list-style-type: none"> <li>○ SMEs to Manco – job numbers and capacity review</li> <li>○ Manco to NPC – all KPIs in line with plan targets, authority levels and DEA/WB requirements</li> </ul> </li> <li>• Semi-annual reporting – SMEs' performance review against contract KPIs by Manco</li> <li>• Annual reporting <ul style="list-style-type: none"> <li>○ Independent external audit of NPC and Manco against plan (SME normal financial audits)</li> <li>○ SMEs – annual service provider review by Manco</li> <li>○ Manco to WB – details of agreements reached with regard to historical stockpiles</li> </ul> </li> <li>• Ad hoc – reporting <ul style="list-style-type: none"> <li>○ SMEs – inspections conducted by Manco at pre-agreed times at the registered sites</li> <li>○ Regular newsletter, awareness campaigns by Manco to stakeholders</li> </ul> </li> </ul>			

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		<b>Location:</b>	Olive Convention Centre, Durban
<p>Ability to collaborate with another plan:</p> <ul style="list-style-type: none"> <li>• This is the preferred method for TWAMISA</li> <li>• Upon mandate for OTR scope to be assigned to TWAMISA</li> </ul> <p>Advantages of TWAMISA plan:</p> <ul style="list-style-type: none"> <li>• Simple governance model for accountability, transparency and sustainability</li> <li>• Accelerated diversion of waste and recycling by the industry as a whole</li> <li>• Cost efficiencies from abating at scale and nationwide now vs. later for the benefit of both OTR and non-OTR segments</li> <li>• Accelerated transformation through reduced risk of SME failure</li> <li>• Localisation of jobs and procurement in some of the most vulnerable communities</li> </ul>			

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		Location:	Olive Convention Centre, Durban
Question		Owner	
<p><b>Question 1</b></p> <p>Who are the SMMEs and communities you have identified and the intended impact? Please don't provide generic answer.</p> <p><b>Answer 1</b></p> <p>TWAMISA cannot give names of specific parties, but will give an example of a party identified in the Northern Cape, of a community empowered by the activities of the surrounding industry.</p> <p>To address relevant beneficiaries, a proper impact/social assessment needs to be done. Mines tend to have their own identified community trusts – that are well connected to the local communities, TWAMISA plans to leverage off these existing community trusts.</p> <p>Our plan is to primarily focus on environmental impact. We believe that addressing something specific is more impactful than a broad target to expose ourselves to failure arising from complexity.</p>		Sizwe Nkambule, UKZN	
<p><b>Question 2</b></p> <p>What is the rationale behind your focus – why do you reduce rubber for the use of energy generation as opposed to recycling?</p> <p><b>Answer 2</b></p> <p>Since disposal in landfills is illegal, we decided to target the next level of the waste hierarchy.</p>		Timothy Fasha, organisation unspecified	
<p><b>Question 3</b></p> <p>A. Do any of your members have experience with OTR management?</p> <p>B. Why do you include historical OTRs when there is no levy on historical tyres – how do you manage that from a cost perspective?</p> <p><b>Answer 3</b></p> <p>A. We rely on input from industry and collaboration with experts; however we believe our industry exposure gives us the opportunity to address this niche opportunity.</p>		Victor Molefe, Waste Tyre Management Forum	
<p><b>Question 4</b></p> <p>What sort of capacity and accreditation do your skills development partners have to run said skills and development programmes?</p> <p><b>Answer 4</b></p> <p>We don't believe that accreditation is necessary – it adds to cost and the material advantages even to the individual are small (our costs are well above the tyre levy being collected, so we need to be cost-sensitive).</p>		Candace Webster, UKZN	
<p><b>Question 5</b></p> <p>A. Is the role of TWAMISA to manage participants on behalf of the NPC?</p> <p>B. Who appoints service providers between Twamisa and the NPC?</p> <p>C. Does a conflict of interest exist with TWAMISA plan owners who already</p>		Victor Molefe, Waste Tyre Management Forum	



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		<b>Location:</b>	Olive Convention Centre, Durban
<b>Answer 8</b> Our target is a BEE Level 3, which is what we can target and is still a qualifier for BBEEE.			
<b>Question 9</b> Has TWAMISA considered the application of OTR tyres in reefs as an option?		Personal details not provided	
<b>Answer 9</b> No, we have not. We will look into that recommendation.			



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		Location:	Olive Convention Centre, Durban
<ul style="list-style-type: none"> <li>○ 30-35% carbon black</li> <li>○ 10-15% steel wire</li> <li>○ 8-10% gas</li> </ul>			
<ul style="list-style-type: none"> <li>• We aim to address the historical and arising stockpiles, particularly as demand for products grows, by allocating 100% of tyres (stockpiles and arising) to pyrolysis</li> <li>• Key factor in driving demand is the presence of processors to refine product outputted from pyrolysis</li> <li>• Create new markets for products (SiC, bricks, fertiliser etc.)</li> </ul>			
<p>Social upliftment:</p> <ul style="list-style-type: none"> <li>• A portion of the revenue will be used to create and sustain various community upliftment initiatives (bursaries, STEM facilities, skills development programmes, innovation centres, etc.)</li> <li>• Refinement and processing to carbon black and produce a suitable burning fuel</li> </ul>			
<p>Business model – establish a single pilot from which others can model pyrolysis and downstream refinement processes:</p> <ul style="list-style-type: none"> <li>• Two 20T pyrolysis plant = recycle 14 400T per year</li> <li>• Plant 1 20T – OTR tyres</li> <li>• Plant 2 20T – passenger tyres</li> <li>• Plants in same area</li> <li>• Depot in proximity of plants</li> <li>• Delivery of OTR and normal vehicle tyres separate</li> </ul>			
<p>Supply of tyres – how we plan to acquire tyres:</p> <ul style="list-style-type: none"> <li>• Comply with the approved waste tyre management appointees for acquisitions and logistics of the waste tyres</li> <li>• Tyres at depot = 7 525 tonnes (REDISA stats)</li> <li>• Potential supply of tyres in Mpumalanga is 70 000 tonnes per annum, which is ideal for the pilot's target</li> <li>• The two plants will process 20% of estimated tonnage per annum</li> <li>• 80% capacity addressable by other initiatives: <ul style="list-style-type: none"> <li>○ Rubber tile production</li> <li>○ Rubber flooring</li> <li>○ Replication and learning opportunities of our business model by entrepreneurs</li> </ul> </li> </ul>			

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		<b>Location:</b>	Olive Convention Centre, Durban
<b>Question</b>			<b>Owner</b>
<b>Question 1</b> What is the offtake potential from your pyrolysis activities? <b>Answer 1</b> We are currently working on offtake agreements for our plant. There has to be a fair amount of post-processing after pyrolysis to make the product economically viable.			Personal details not provided
<b>Question 2</b> Are you willing to collaborate with other plans? <b>Answer 2</b> Upon approval of a plan from the Minister, we would be willing to work with any plan willing to provide tyres.			Personal details not provided

## Waste Bureau Presentation

### Overview of Network

There exist over 2000 collection points inherited from REDISA. WMB cannot service all collection points due to capacity constraints regarding collection, storage and processing. There is an ongoing process to register dealers.

The number of dealers totals 225 across the country. Additionally there are 213 active micro-collectors, 23 micro depots, 67 primary transporters and 10 secondary transporters.

### Operational Performance

We compared our performance to REDISA: between October 2017 and March 2018, the WMB collected 47 000 tonnes of waste tyres. When we annualised the figures (converted to show comparative performance over a year), the Waste Management Bureau collected just under 94 000 tonnes of tyres while REDISA collected just under 93 000 tonnes of tyres.

We achieved a 21.5% annualised recycling rate (as a percentage of waste tyres arising) versus REDISA's recycling rate of 14.9%.

### Waste Bureau Successes

We achieved the following over a six-month period:

- Ensured the continuation of waste tyre operations from June 2017
- Utilised a lower operational cost compared to its performance
- Outperformed REDISA in collections and recycling
- Operated with fewer human resources – 34 people vs. 178 people associated with REDISA
- Achieved collection and recycling targets despite full depots and the prohibition of exports
- Onboarded industry participants efficiently
- Ensured the fast activation of new depots

### Monitoring Framework

The framework we intend using when we change our role from operations to that of monitoring the plan, which is still a work in progress, is as follows:

- Baseline and target setting for 5 years
- Waste flow tracking
- Prioritisation of reuse and recycling
- Labour intensity assessment
- SMME development
- Effectiveness & impact assessment of the plan
- Measurement of cost efficiencies
- Adherence to levels of regulatory compliance for facilities / operations
- Skills development
- Projection of financial flows
- Production of externally audited financial statements
- Production of annual external performance audit
- Production of annual business plans
- Monthly & quarterly reporting

### Question

#### Question 1:

Given Mr Patel's pitch as a processor and being presented here as an abatement plan, is it possible to have a forum for other potential processors to also present? There are many participants who would love to have an opportunity to present their proposition.

I recommend that the Department use the lessons from the Waste Bureau, which has done a good job to measure the incoming plan against, given that this industry is new.

### Owner

Ileke Van Niekerk, Waste Tyre Management Forum

<p><b>Answer 1:</b> To reject a plan, the Minister must give comprehensive reasons. The decision to accept plans based on submission to the act was a decision undertaken by the Minister.</p> <p>The acceptance of all plans also give us opportunity to consider all possible solutions and innovations that could come to us as a mix of great value propositions.</p>	
<p><b>Question 2:</b> We didn't see depot plans for KZN in Waste Bureau's presentation.</p> <p><b>Answer 2:</b> We have four depots in KZN:</p> <ul style="list-style-type: none"> <li>• Richards Bay</li> <li>• Cato Ridge</li> <li>• Hammersdale</li> <li>• Ladysmith</li> </ul> <p>In terms of micro-collection, we contacted participants on REDISA's database who were not identified. We believe we need to change the model for micro-collectors before it gets rolled out into the new plan.</p>	<p>Personal details not provided</p>
<p><b>Question 3:</b> <i>Made a comment on the absence of plan participants at closing.</i></p> <p><i>Question directed at SATRUCO.</i></p> <p>Please clarify the R210 million on set-up costs and R647 million for year one of operations – to be answered on Monday.</p> <p><b>Answer 3:</b> <i>Comment that the above questions will be noted for the next session and communicated to the plan proponents.</i></p>	<p>Bongani Mthembu, Waste Tyre Management Forum</p>
<p><b>Question 4:</b></p> <p><i>Comment</i></p> <p>I'd like to congratulate the efforts of the Waste Bureau. If it were up to us, we would continue with the direction of the Waste Bureau.</p> <p><b>Answer 4:</b> N/A</p>	<p>Motlatsi Thinyane, Waste Tyre Management Forum</p>
<p><b>Question 5:</b> Is the R210 million allocated to the current operations sufficient for the ITWMP? Was it taken from REDISA's ending point and used as a yardstick?</p> <p><b>Answer 5:</b> The value was derived on the basis of our evaluation of REDISA's end point under guidance from Treasury and we were already preparing for the expiration of the REDISA plan. Thus budgetary considerations were underway at that point. We assessed the financial statements at that time and we recognise that the allocation is not sufficient, having had oversight of the operations.</p>	<p>Victor Molefe, Waste Tyre Management Forum</p>
<p><b>Question 6:</b> I still do not see KZN for micro-collection and storage in your presentation. I guess that is what the gentleman was referring to.</p>	<p>Sibongiseni Mkhize</p>

<p><b>Answer 6:</b> Question was already answered – it was left out of the slides, but to reiterate we have:</p> <ul style="list-style-type: none"><li>• Richards Bay</li><li>• Cato Ridge</li><li>• Hammersdale</li><li>• Ladysmith</li></ul>	
<p><b>Question 7</b> <i>Comment</i></p> <p>I want to commend the government on hosting such hearings. Maybe these hearings should extend beyond waste tyre collection.</p> <p>Additionally, maybe it's worth it to add a beneficiation process to the requirements for processing activities.</p> <p><b>Answer 7:</b> Yes, it is the desire of the Department to look at all other waste streams and to prioritise plans to address those waste streams accordingly.</p>	<p>Timothy Fasha, organisation unspecified</p>

**Announcements:**

- Reminder of the legislation that allows for the Minister to put in an interim ITWM, which is the Waste Bureau (transition).
- We could not just take over contracts from REDISA. We had to secure approval from Treasury under certain conditions.
- Contract existing participants for existing operations without going out to tender for a limited period of 6 – 12 months.
- Anything beyond 12 months had to be procured (equipment, technologies, storage) – which is the reason there are tenders going out from the Bureau due to the fact that we cannot risk sinking achievements currently undertaken by the Bureau.
- There exists a procurement plan with the Department to show plans for the operation of the plan and we are not competing with participants.

**Next Steps:**

**Requests for clarity from Proponents:**

- Requests for clarity by plan owners must be made in writing to the Department
- Written requests will also be received and reviewed by the Department
- Please send an email to Mr Anben Pillay [APillay@environment.gov.za](mailto:APillay@environment.gov.za) for such requests

**Written comments from interested and affected parties:**

- Written comments on the plans should be submitted to Ms Mamogala Musekene [MMusekene@environment.gov.za](mailto:MMusekene@environment.gov.za), Environment House, 473 Steve Biko Street, Arcadia, Pretoria or Department of Environment Affairs, Private Bag X 447, Pretoria, 0001

**The deadline for all written commentary is 7<sup>th</sup> June 2018**

- The DEA, Waste Bureau and other relevant government departments (DTI, Treasury, etc.) will convene a special meeting to interact with the plan owners for purposes of clarity after the last public hearing
- Special meeting will be held between the 5<sup>th</sup> and 7<sup>th</sup> June 2018
- After receiving written comments by the closing date (7<sup>th</sup> June 2018), the Department will consolidate all written comments, which will then be sent to the plan owners
- Comments received will also be published on the DEA website
- Plan owners will be expected to respond to comments by addressing, upgrading or re-adjusting their plans within a specified timeframe
- Once plans are re-submitted to the Minister, the Department will analyse the responses and compile a register against written comments
  - A final adjudication/review of the plans will be undertaken
  - Based on all above inputs and processes, the Minister will make a decision and publish a notice in a gazette

Nosipho Ngcaba, Chairperson,  
DG, DEA