

### Chemical and Waste Management Delivery Lab

CONTEXT AND APPROACH – JULY 2017

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www.operationphakisa.gov.za



OPERATION PHAKISA

CHEMICALS AND WASTE ECONOMY









The objective of Operation Phakisa on chemical and waste management is to increase the GDP growth and job creation of the chemical and waste economy



- The 10-year Waste Research, Development and Innovation Roadmap has set the goal of growing the current contribution of the waste sector from 0.51% to 1-1.5% of GDP
- The waste sector is recognised by Government as one that provides opportunities for value recovery, job creation and economic development
- Significant opportunity exists to maximise the recycling of waste and expand the value of the chemical and waste management sector, while sustainably minimizing the environmental and health impact by eliminating chemical and waste as early as possible in the value chain
- Accelerating waste recycling, waste-to-energy and scrap metal processing and beneficiation will be key to unlocking the possible economic opportunities in the waste sector.

#### Our initial "Problem Statement"

How can the chemicals and waste economy contribute to GDP and job creation, while reducing the negative environmental and health impact of chemicals and waste?







#### Operation Phakisa follows the delivery lab methodology

What is the purpose of a lab?	<ul> <li>Labs are set up to create transparency, debottleneck and help resolve the most critical challenges facing a sector, and hence achieve key milestones faster than in a "business as usual" context</li> </ul>	
		TEN
Who participates in a lab?	<ul> <li>The lab includes key stakeholders (~20 people per workstream) relevant to solve the defined problem, and are selected from the public, private and social sectors</li> </ul>	
What happens in a lab?	<ul> <li>The invited cross-organizational team works full- time in one location. The lab involves intense problem solving, supported by a facilitator team</li> </ul>	
How is commitment secured?	<ul> <li>High-level syndication meeting at the end of the week</li> </ul>	
		to the second se
What are the end products?	<ul> <li>Initiative charters</li> <li>Draft budget and impact per initiative</li> <li>Very detailed 3ft level implementation plans</li> </ul>	



## Examples of impact achieved with Labs in government transformation programmes

Sector	The Challenge	Complications	Impact achieved
Education in Asian country	<ul> <li>Achieve 100% literacy and numeracy for all Grade 3 children in 3 years</li> <li>Raise pre-school enrolment rate from 65% to ~90%</li> <li>Upgrade 200+ schools to top international standards</li> </ul>	<ul> <li>Massive scale and bureaucracy with 10,000 public schools, 400,000 civil servants</li> <li>Poor and declining student performance – 30% do not even meet minimum benchmarks</li> </ul>	<ul> <li>10,000 schools nationwide ranked by performance in 4wks</li> <li>Large-scale literacy and numeracy remedial intervention program designed and rolled o nationwide within 4mths</li> <li>Designed new performance mos system for principals, approved under 6 wks</li> </ul>
Waste management in a EU-15 country	<ul> <li>Develop overall waste management strategy and related initiatives</li> <li>Complete detailed implementation plans for initiatives identified</li> </ul>	<ul> <li>Under-performance in waste management end-to-end (e.g. ~80% municipal waste landfilling vs ~25%)</li> <li>Consistent delay in implementing new processes to improve waste management</li> </ul>	., ~650M EUR, driving net positiv returns ~30M EUR per year, through cost savings and new revenue sources
Conservation in South Africa	<ul> <li>Secure the population of rhino through effective reduction in the number of rhino killed through poaching by 11.1%, resulting in increasing the population at 2% p.a. through 2020</li> </ul>	<ul> <li>Dramatic increase in poaching from 13 rhinos poached in 2007 to 1,215 in 2014</li> <li>Wide range of stakeholders; NGOs, range states, demand countries (e.g. Vietnam), academia, private owners &amp; multiple Govt. departments</li> </ul>	<ul> <li>Reversed the trend and achieved a &gt;10% decrease in rhino poaching in the first year after the Lab</li> <li>Increased arrests and sentencing by &gt;100%</li> <li>Improved ongoing strategic dialogue between stakeholders including international partners</li> </ul>



#### Vision for the end of the lab

- True ownership by the entire team (including SteerCo., lab participants and stakeholders) regarding targets, developed initiatives and detailed plan behind it
- Shared understanding across the various stakeholders, of the contexts and objectives of other stakeholders and players to catalyze collaboration across the sector
- Ambitious targets that are accepted by the team
- Practical solutions co-created with participants who are key stakeholders (e.g. informal sector, private sector) and can touch and feel the impact
- Stakeholder sign-off (by Minister, D.G. and lab participants)
- Excited stakeholders saying "the lab helped me to share my ideas and make them real – this is my baby" vs. "the lab did a great job, very interesting ideas but not sure they will work here"
- Implementation set to start for a couple of big ideas / initiatives
- Completed suite of end products (e.g., business case template, lab report) and initiatives funded



#### Overview of the logistics and Lab timeline

Phakisa C	hemical and Was	te Management La	b timeline			
	Week 0: Preparation and onboarding	Week 1: Aspirations and challenges	Week 2: Initiatives	Week 3: Milestones	Week 4: Implementa- tion plans	Week 5: Official sign off
Timing	20-22 July	23-29 July	30 July – 5 Aug	6-12 August	13-19 August	20-24 August
Venue <sup>1</sup>	Protea Hotel Fire & Ice! Pretoria Menlyn	Legends Golf & Safari Club	Legends Golf & Safari Club	Legends Golf & Safari Club	African Pride Mount Grace Country House	African Pride Mount Grace Country House
Key meetings	<ul> <li>Fact packs sent to participants (19/7)</li> <li>Participants onboarding (20/7)</li> </ul>	<ul> <li>Official kick- off and participant arrival (23/7)</li> <li>Field trip (28/7)</li> </ul>	<ul> <li>Field trip (2/8)</li> <li>Steering Committee (4/8)</li> </ul>	<ul> <li>Investor day (8/8)</li> </ul>	<ul> <li>Steering Committee (18/8)</li> </ul>	<ul> <li>Official sign- off and participant departure (24/8)</li> </ul>

#### Phakisa Chemical and Waste Management Lab participant information

<ul> <li>Participants' attendance</li> <li>If participants confirm attendance, they are expected to</li> </ul>	<ul> <li>Other important information</li> <li>2 field trips are mandatory part of the Lab in Week 1 and</li> </ul>
<ul> <li>come for the full 5 week duration of the lab (Monday-Friday)</li> <li>Official kick-off of the Lab happens on Sunday 23/7 6pm. Please arrive beforehand to register</li> </ul>	<ul> <li>Week 2. Please pack accordingly</li> <li>Participants' organizations are expected to cover costs of transport, accommodation, breakfast and dinners. DEA will cover costs of lunches, official dinners and field trips</li> <li>Participants are required to sign an NDA to attend the Lab</li> </ul>





# APPENDIX



9 – 23 J	ULY		Session type		PRELIMINA
Veek (	): On boarding	g all	Working Capability on output building	Expert input Syndication Steerco	with Networking Home of
	Wednesday 19/07	Thursday 20/07	Friday 21/07	Saturday 22/07	Sunday 23/07
08:00 – 09:00am				Weekend	Weekend
9:00am – 12.30pm		<ul> <li>Why we are here</li> <li>The approach we will use</li> <li>Delivery lab aspiration and work streams</li> <li>Introducing the fact pack</li> </ul>			
12.30pm – 1.30pm		<ul> <li>Gallery walk presentation of work stream highlights</li> </ul>			
1.30pm –		Lunch			
5.00pm		<ul> <li>What is expected from you</li> <li>What a lab feels like - role play</li> </ul>			
5.00pm – 5.30pm		]			Kick off dinner:
5.30pm –	Publish fact pack				<ul> <li>Official opening</li> </ul>
6.00pm 6.00pm	<u> </u>	1			<ul><li>Purpose of the labs</li><li>Stakeholder</li></ul>
onwards Homework				l I	commitments
End-of-day deliverable	Participants with fact pack	Participants feedback	Roles for kickoff		I I ■ Dinner
				DG leader	ship present

24 – 28 J	ULY		Session type		PRELIMINARY
Week	I: Aspirations	& challenges	Working Capability on output building	Expert input Syndication Steerco	with 📕 Networking 📙 Theme day
	Monday 24/07	Tuesday 25/07	Wednesday 26/07	Thursday 27/07	Friday 28/07
08:00 – 09:00am					
9:00am – 12.30pm	<ul> <li>Plenary introduction</li> <li>Setting lab context</li> <li>What excites you about the lab</li> <li>Team norms</li> </ul>	Aspirations and Lab charter • Build Lab charter P	<ul> <li>Sharing findings from pre-lab phase</li> <li>Presenting methodology and rationale behind focus areas to the WS</li> </ul>	<ul> <li>Refined issue tree</li> <li>Split WS along branches</li> <li>Define analyses and experts required</li> </ul>	<ul> <li>Field visits and best practices</li> <li>Round table reflection at the site</li> <li>Key learnings?</li> </ul>
	In-lab training <ul> <li>Problem Solving</li> <li>Lab output</li> </ul>	<ul> <li>WS charter</li> <li>What is our aspiration for our workstream?</li> </ul>	Narrowing deep dive Feedback incorporation	Initial initiative list <ul> <li>Hypothesized initiatives</li> </ul>	
12.30pm – 1.30pm	Lunch				
	<ul> <li>Scoping WS</li> <li>Recap of Scoping WS</li> <li>Refine WS problem statement</li> </ul>	WS aspiration presentation	Our issue tree: Refine issue tree Prioritize issues Hypothesis of root	Environmental Sustainability Day – Expert presentations – Round table	<ul> <li>Field visit debrief</li> <li>Key observations</li> <li>Implications for issues</li> </ul>
1.30pm – 5.00pm	WS Team learning Working together	<ul> <li>Challenge session</li> <li>Who is missing in the stakeholders</li> </ul>	causes and opportunities	discussion – Discuss implications for challenges	Lab check out P Feedback & Reflection
	Visioning • Chemical & waste visioning exercise	<ul> <li>In-lab training</li> <li>Giving and receiving feedback</li> </ul>	WS present priority areas and root causes	Р	<ul> <li>with core team</li> <li>One-on-one coaching</li> <li>Individual Learning Log</li> </ul>
5.00pm – 5.30pm	Lab check out	Lab check out	Lab check out	Lab check out	
5.30pm – 6.00pm					Vision, Lab charter, Key
6.00pm onwards	Dinner Connectivity dinner		Dinner		Issues, first draft initiatives, Week 1 Word
Homework		Aspiration analyses	Root causes analyses	Issue analyses	Exec Summary
End-of-day deliverable	Vision statement	Lab charter with WS charters	Issue tree with root causes	First draft Initiative list	

Icon legend





31 JULY -	– 4 AUG		Session type		PRELIMINAR	
Neek 2	2: Initiatives		Working Capability on output building	Expert input Syndicatio Steerco	n with 📕 Networking 📙 Theme da	
	Monday 31/07	Tuesday 01/08	Wednesday 02/08	Thursday 03/08	Friday 04/08	
08:00 – 09:00am						
	Introduce goals for the week	Job creation day By work stream	Fleshing out initiatives (2/4)	Fleshing Storylining out (LF+WSL <sup>1</sup> )	<ul><li>Plenary training</li><li>Costing initiatives</li></ul>	
9:00am – 12.30pm	In-lab training <ul> <li>Priotization matrix</li> </ul>	<ul> <li>Presentations</li> <li>Round table discussions on</li> </ul>	<ul> <li>Impact</li> <li>Owner</li> <li>Key stakeholders</li> <li>Implementation time</li> </ul>	(3/4) • Develop Steerco storyline	Budget + Legislation (1/4)	
	Develop initiatives for each area (10,000ft) Refine 5-15 initiaitves Quantify prelim. impact	opportunities – Discuss implications for initiatives	frame	Experts in Work Stream	<ul> <li>Define budget and legislative need by initiative</li> </ul>	
12.30pm – 1.30pm	Lunch					
1.30pm –	<ul> <li>Challenge session</li> <li>Test feasibility of initiatives with expert (minimum 1 expert per WS)</li> </ul>	Fleshing out initiatives (1/4) Impact Owner Key stakeholders	Field visits and best practices Round table reflection at the site	Fleshing out     Storylining       initiatives (4/4)     (LF+WSL1)	<ul> <li>Budget + Legislation (2/4)</li> <li>Define budget and legislative need by initiative</li> </ul>	
5.00pm	Prioritization	<ul> <li>Implementation time frame</li> </ul>	<ul> <li>Key learnings?</li> </ul>	Simulation "real-play" - Dry run for SteerCo	Lab check out	
	<ul> <li>Prioritize initiatives based on feasibility and impact to &lt;10 initiatives</li> </ul>		Presentation to plenary: Key learnings		<ul> <li>Feedback &amp; Reflection</li> <li>One-on-one feedback</li> <li>Individual Learning Log</li> </ul>	
5.00pm – 5.30pm	Lab check out	Lab check out	Lab check out	Lab check out		
5.30pm – 6.00pm						
6.00pm onwards	Dinner Connectivity dinner		Dinner		Initiative charters & week 2 storyline, Week 2 Word	
Homework	Initiative impact analyses		Initiative impact analyses	Finalize SteerCo presentation	Exec Summary	
End-of-day deliverable	Prioritized initiatives	Land initiatives	Initiative charters	SteerCo presentation		

1 Lead facilitator + Work Stream Leader only Icon legend





7 – 11 AL	JG			Session ty	ире		PRELIMINARY
	3: Miles	tones		Workin on outp		Expert input Syndication Steerco	with 📕 Networking 📙 Theme day
	Monday 07/08	8	Tuesday 08/08	Wednesda	y 09/08	Thursday 10/08	Friday 11/08
08:00 – 09:00am			WC proceptation on				Women's Day
9:00am – 12.30pm	<ul><li>SteerCo sign</li><li>Aspirations</li><li>Challenges</li><li>Initiatives</li></ul>		WS presentation on budget & legislative P	Plenary tra ■ Implem plannin	entation	Investor Day <ul> <li>Plenary presentation</li> <li>Q&amp;A</li> <li>By work stream</li> </ul>	(Move from Wednesday to be confirmed
			<ul> <li>Challenge session</li> <li>Treasury to challenge initial costing/budget</li> </ul>	From 10,00 feet (1/3) Develop initiative	o milestones per	discussions on how to make initiatives financially viable	based on participants feedback)
12.30pm – 1.30pm	Lunch						
	Post SteerCos debrief & final		Incorporate feedback	Experts in	Work Stream	Investor Day debrief: <ul> <li>Key take aways</li> </ul>	
1.30pm –	<ul> <li>Discuss and feedback</li> </ul>	incorporate			Simulation	<ul> <li>Implications for initiatives</li> </ul>	
5.00pm	Budget + Legislation	Storylining (LF+WSL <sup>1</sup> )	Budget + Legislation (4/3)	From 10,000 to 100	"real-play" : Preparation for Investors	Lab check out	
	(3/4)	Investors		feet (2/3)		<ul> <li>One-on-one feedback</li> <li>Individual Learning Log</li> </ul>	
5.00pm – 5.30pm	Lab check ou	it 🕑	Lab check out	Lab check	out P		1: :
5.30pm – 6.00pm						Milestones & initiative	
6.00pm onwards	Dinner					costing & legislative changes, Week 3 Word	
Homework	Costing analys	ses	Milestone analyses	Milestone analyses Exec Summ		Exec Summary	
End-of-day deliverable	Initial initiativ	ve costing	Budgets by initiative	Budgets ar changes pe	nd legislative er initiative		

1 Lead Facilitator + Work stream Leader only Icon legend

P

Plenary



14 – 18 A	UG			Session typ	e		PRELIMINA
	1: Implementa	tion pla	ns	Working on outpu		Expert input Syndication Steerco	with 📕 Networking 📕 Theme c
	Monday 14/08	Tuesday 15/	08	Wednesday	16/08	Thursday 17/08	Friday 18/08
08:00 – 09:00am							
	Introduce goals for the P	From 100ft to	o 3ft, create	Create 3 ft pl		SteerCo Sign off Initiatives	Plenary training ▪ Change
9:00am – 12.30pm	<ul> <li>Implementation KPIs</li> <li>Set KPIs for each milestone</li> <li>Must be measurable</li> </ul>	<ul> <li>From 100ft to 3ft, create 3ft plan (1/3)</li> <li>Develop activities per milestone</li> <li>Include Owners, Start and end dates and KPIs</li> <li>Refine actions, responsibles, sta end date per mile</li> </ul>		les, start and	<ul> <li>Milestones</li> <li>Budgets</li> <li>Legislative changes</li> <li>KPIs</li> </ul>	<ul> <li>management</li> <li>Complete 3 ft plan (3/3)</li> <li>Refine actions, responsibles, start and end date per milestone</li> </ul>	
12.30pm – 1.30pm	Lunch						
1.30pm –	From 10,000 to 100 feet (3/3) Develop milestones per initiative	Create 3 ft plan (2/3)	Storylining (LF+WSL <sup>1</sup> ) Develop Steerco storyline	Complete 3ft plans Ensure quality	Simulation "real-play" ■ Dry run for SteerCo	Reflection and incorporate feedback	<ul> <li>Governance structure for initiatives</li> <li>Define governance structures required in initiative</li> </ul>
5.00pm	<ul> <li>Include KPIs</li> </ul>			Complete 3 f	• • •	<ul> <li>Complete 3 ft plan (2/3)</li> <li>Refine actions,</li> </ul>	Lab check out
	Present milestones and KPIs to plenary				tions, bles, start and per milestone	responsibles, start and end date per milestone	<ul> <li>Feedback &amp; Reflection</li> <li>One-on-one feedback</li> <li>Individual Learning Log</li> </ul>
5.00pm – 5.30pm	Lab check out	Lab check or	ıt	Lab check of	ut	Lab check out	
5.30pm – 6.00pm							
6.00pm onwards	Dinner	Connectivity	dinner				Final 3 feet plans + final budget + week 4 storyline,
Homework	Milestone analyses 3 feet plan analyses		Finalize Steer presentation	rCo	3 feet plans	Week 5 Word Exec Summary	
End-of-day deliverable				3 feet plans,	SteerCo doc	3 feet plans	
Lead Facilitato	r + Work stream Leader only Icon lege	nd					
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#### On boarding session (20th July, Protea Fire and Ice! Pretoria Menlyn)

Time	Activity	Lead
09:00 – 09:10	Official opening overview	Mr. Mark Gordon, DDG, DEA
09:10 – 09:20	Why we are here	• DPME
09:20 – 10:50	The Approach we will use	<ul> <li>Wambui Waiganjo, McKinsey</li> </ul>
	The Power of Labs	Ms. Wadzi Madivenyi, Biodiversity
	iTrack	<ul> <li>Mr. Simon Malete, Biodiversity</li> </ul>
10:50 – 11:00	Delivery lab aspirations and work streams	<ul> <li>Ms. Mamogala Musekene, Project Manager, DEA</li> </ul>
11:00 – 11:20	Tea Break	
11:20 – 11:50	Introducing the Fact Pack	Tebogo Skwambane, McKinsey
11:50 – 13:00	Gallery Walk	<ul> <li>Work stream leads, DEA &amp; McKinsey</li> </ul>
13:00 – 14:00	Lunch Break	
14:00 – 14:30	Plenary questions	<ul> <li>Mr. Obed Baloyi, Project Manager, DEA</li> </ul>
14:30 – 15:40	What a lab feels like – role play	<ul> <li>Facilitators</li> </ul>
15:40 – 15:55	What is expected from you	<ul> <li>Ms. Mamogala Musekene, Project Manager, DEA</li> </ul>
15:55 – 16:10	Vote of thanks and closure	Mr. Mark Gordon, DDG, DEA
16:10 – onwards	Tea and Departure	

