

Chemical and Waste Management Delivery Lab

CONTEXT AND APPROACH - JULY 2017

Call Centre: 086 222 2468 www.environment.gov.za

www.operationphakisa.gov.za









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?

 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

Who participates in a lab?

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

What happens in a lab?

 The invited cross-organizational team works fulltime in one location. The lab involves intense problem solving, supported by a facilitator team

How is commitment secured?

 High-level syndication meeting at the end of the week

What are the end products?

- Initiative charters
- Draft budget and impact per initiative
- Very detailed 3ft level implementation plans



Examples of impact achieved with Labs in government transformation programmes

Sector

Education in Asian country



The Challenge

- Achieve 100% literacy and numeracy for all Grade 3 children in 3 years
- Raise pre-school enrolment rate from 65% to ~90%
- Upgrade 200+ schools to top international standards

Complications

- Massive scale and bureaucracy with 10,000 public schools, 400,000 civil servants
- Poor and declining student performance – 30% do not even meet minimum benchmarks

Impact achieved

- 10,000 schools nationwide ranked by performance in 4wks
- Large-scale literacy and numeracy remedial intervention program designed and rolled out nationwide within 4mths
- Designed new performance mgt system for principals, approved under 6 wks

Waste management in a EU-15 country



 Develop overall waste management strategy and related initiatives

- Complete detailed implementation plans for initiatives identified
- 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

- Under-performance in waste management end-to-end (e.g., ~80% municipal waste landfilling vs ~25%)
- Consistent delay in implementing new processes to improve waste management
- Dramatic increase in poaching from 13 rhinos poached in 2007 to 1,215 in 2014
- Wide range of stakeholders; NGOs, range states, demand countries (e.g. Vietnam), academia, private owners & multiple Govt. departments

- Identified investment needs of ~650M EUR, driving net positive returns ~30M EUR per year, through cost savings and new revenue sources
- Developed plan for citizen education, including promotional initiatives
- Reversed the trend and achieved a >10% decrease in rhino poaching in the first year after the Lab
- Increased arrests and sentencing by >100%
- Improved ongoing strategic dialogue between stakeholders including international partners

Conservation in South Africa





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 Chemical and Waste Management Lab 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 ¹	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	 Fact packs sent to participants (19/7) Participants onboarding (20/7) 	 Official kick- off and participant arrival (23/7) Field trip (28/7) 	Field trip (2/8)Steering Committee (4/8)	Investor day (8/8)	Steering Committee (18/8)	 Official sign- off and participant departure (24/8)

Phakisa Chemical and Waste Management Lab participant information

Participants' attendance

- If participants confirm attendance, they are expected to come for the full 5 week duration of the lab (Monday-Friday)
- Official kick-off of the Lab happens on Sunday 23/7 6pm.
 Please arrive beforehand to register

Other important information

- 2 field trips are mandatory part of the Lab in Week 1 and Week 2. Please pack accordingly
- Participants' organizations are expected to cover costs of transport, accommodation, breakfast and dinners. DEA will cover costs of lunches, official dinners and field trips
- Participants are required to sign an NDA to attend the Lab

OPERATION PHAKISA CHEMICALS AND WASTE ECONOMY

APPENDIX

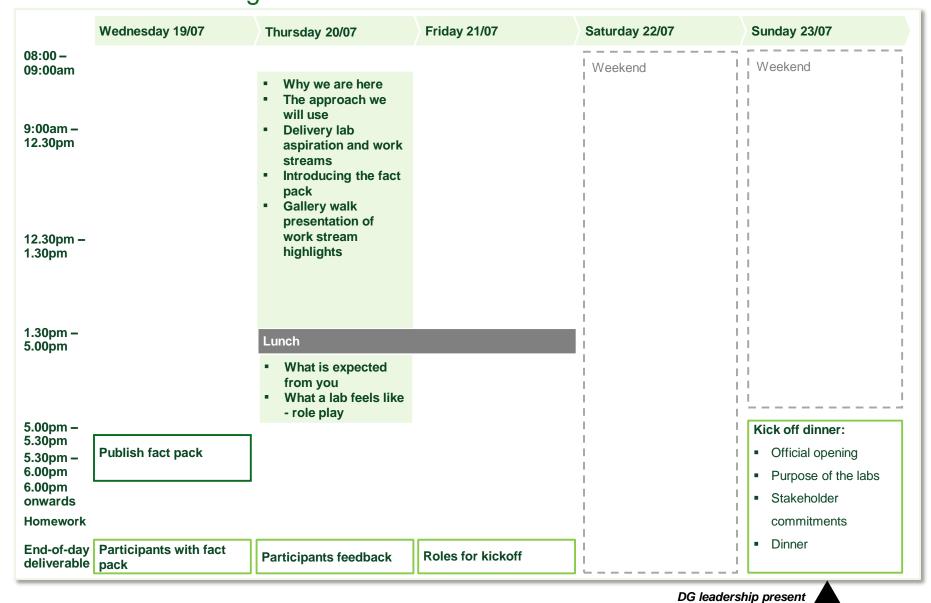
19 - 23 JULY

Session type

PRELIMINARY

Week 0: On boarding all

Capability Syndication with Networking Working Expert input Theme day building Steerco on output



Session type

PRELIMINARY

Week 1: Aspirations & challenges

Working Capability on output building

Expert input

Syndication with Steerco

Networking

Theme day

P

Monday 24/07 Thursday 27/07 Friday 28/07 Tuesday 25/07 Wednesday 26/07 08:00 -09:00am Plenary introduction **Aspirations and Lab** Sharing findings from Field visits and best Refined issue tree Setting lab context pre-lab phase Split WS along branches practices charter 9:00am - What excites you about Presenting methodology Build Lab charter Define analyses Round table reflection at 12.30pm the lab and rationale behind and experts required the site P P Team norms focus areas to the WS Key learnings? **WS** charter In-lab training Narrowing deep dive Initial initiative list Problem Solving What is our aspiration Feedback incorporation Hypothesized initiatives P Lab output for our workstream? 12.30pm -Lunch 1.30pm **Scoping WS Environmental** WS aspiration Our issue tree: Field visit debrief Recap of Scoping WS Key observations Refine issue tree **Sustainability Day** presentation Refine WS problem Implications for issues Prioritize issues Expert presentations statement Hypothesis of root Round table Challenge session Lab check out causes and discussion 1.30pm -**WS Team learning** Who is missing in the Discuss implications opportunities 5.00pm Working together P stakeholders Feedback & Reflection for challenges with core team Visioning In-lab training WS present priority areas One-on-one coaching Chemical & waste Giving and receiving and root causes (P) Individual Learning Log P P visioning exercise feedback 5.00pm -P Lab check out Lab check out Lab check out Lab check out 5.30pm 5.30pm -6.00pm Vision, Lab charter, Key 6.00pm Issues, first draft Dinner

Root causes analyses

Issue tree with root

causes

Icon legend

Dinner

Vision statement

onwards

Homework

End-of-day

deliverable



Connectivity dinner

Aspiration analyses

charters

Lab charter with WS



Issue analyses

First draft Initiative list

Exec Summary

initiatives, Week 1 Word

31 JULY - 4 AUG

Week 2: Initiatives

PRELIMINARY Session type Working Capability Expert input Syndication with Networking Theme day

building Steerco on output

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

¹ Lead facilitator + Work Stream Leader only Icon legend





7 – 11 AUG

Session type

PRELIMINARY

Working on output

Capability buildina

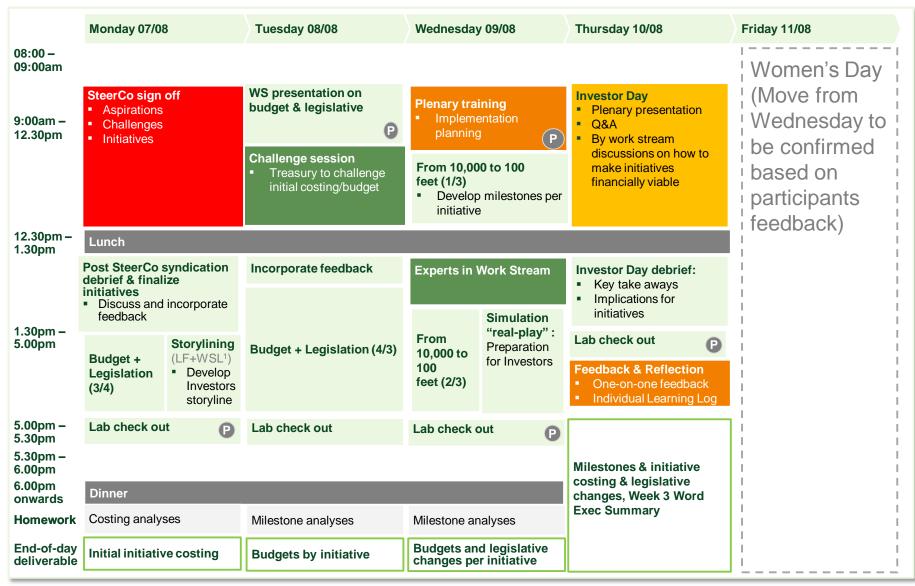
Expert input

Syndication with Steerco

Networking

Theme day

Week 3: Milestones



¹ Lead Facilitator + Work stream Leader only Icon legend





Session type PRELIMINARY

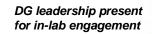
Week 4: Implementation plans

Working Capability Expert input Syndication with Networking on output building

Monday 14/08 Tuesday 15/08 Thursday 17/08 Friday 18/08 Wednesday 16/08 08:00 -09:00am Introduce goals for the SteerCo Sign off Plenary training Create 3 ft plan (3/3) week From 100ft to 3ft, create Change Initiatives Refine actions, 9:00am -3ft plan (1/3) Milestones responsibles, start and Implementation KPIs 12.30pm Develop activities per end date per milestone **Budgets** Set KPIs for each milestone Legislative changes milestone Complete 3 ft plan (3/3) Include Owners, Start **KPIs** Must be measurable Refine actions, and end dates and responsibles, start and **KPIs** end date per milestone 12.30pm -Lunch 1.30pm Simulation Governance structure for Storylining Create 3 ft Complete Reflection and From 10.000 to 100 feet "real-play" (LF+WSL1) initiatives plan (2/3) incorporate feedback 3ft plans (3/3)Dry run Define governance Develop Ensure Develop milestones per Steerco structures required in quality SteerCo initiative storyline initiative 1.30pm -Complete 3 ft plan (2/3) Include KPIs 5.00pm Lab check out P Refine actions. Complete 3 ft plan (1/3) Refine actions, responsibles, start and Present milestones and Feedback & Reflection end date per milestone responsibles, start and KPIs to plenary One-on-one feedback end date per milestone P Individual Learning Log 5.00pm -Lab check out Lab check out Lab check out Lab check out 5.30pm 5.30pm -6.00pm Final 3 feet plans + final 6.00pm **Connectivity dinner** budget + week 4 storyline, Dinner onwards Week 5 Word Exec Finalize SteerCo Milestone analyses 3 feet plans Homework 3 feet plan analyses Summarv presentation End-of-day Milestones by initiatives 3 feet plans, SteerCo doc 3 feet plans 3 feet plans deliverable

1 Lead Facilitator + Work stream Leader only lcon legend







Theme day

PRELIMINARY Session type 21 - 25 AUG

Working

on output

Capability

building

Expert input

Week 5: Official Sign off

Monday 21/08 Tuesday 22/08 Thursday 24/08 Friday 25/08 Wednesday 23/08 08:00 -09:00am "Say it with charts" "Presenting with Final stakeholders sign iTrack on boarding training by work impact" training by off 9:00am -**Prepare Final** stream work stream **Final product** Post-Lab - Facilitators + 12.30pm stakeholder Write Lab presentation Lab leaders only (2/3) **Prepare** presentation Exec Lab closing ceremony Quality assurance of 3 Final (3/4)Simulation "real-play" Write Lab Summary feet plans stakeholder Presenta-Dry run for Final Exec Standardization of presentation tion stakeholders sign off **Summary** final report (1/4) Finalize Exec Summary Charts 12.30pm -Lunch 1.30pm Final stakeholder Post-Lab - Facilitators + Post-Lab - Facilitators + **Prepare Final** presentation Lab leaders only (1/3) Lab leaders only (3/3) stakeholder Gallery walk Quality Assurance of Quality assurance of **Prepare** Write Lab presentation Stakeholder sign off 3feet plans 3feet plans Final Exec Write Lab (4/4)chart Standardization of final Codifying Lab work stakeholder 1.30pm -Summary Exec Presenta-Standardization of final report 5.00pm presentation Lab check out Summary tion Finalize Exec Summary report (2/4)Finalize Exec Summary Charts Feedback & Reflection WS presentation of their One-on-one feedback initiative charts to plenary Individual Learning Log 5.00pm -Lab check out Lab check out P 5.30pm 5.30pm -**Final Lab report** 6.00pm (Initiatives storyline, 6.00pm **Celebration dinner** Dinner Dinner budgets, Milestones, onwards 3-Feet plans), Post lab Post Lab governance Finalise output Homework Finalise output governance structure, structure ~30 Page Word Executive Initiative charts and End-of-day

Stakeholders sign off

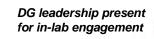
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deliverable

presenter notes



SteerCo presentation



SteerCo sign off

Summary

Networking

Theme day

Syndication with

Steerco

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	■ Wambui Waiganjo, McKinsey
	The Power of Labs	Ms. Wadzi Madivenyi, Biodiversity
	iTrack	Mr. Simon Malete, Biodiversity
10:50 – 11:00	Delivery lab aspirations and work streams	 Ms. Mamogala Musekene, Project Manager, DEA
11:00 – 11:20	Tea Break	
11:20 – 11:50	Introducing the Fact Pack	■ Tebogo Skwambane, McKinsey
11:50 – 13:00	Gallery Walk	Work stream leads, DEA & McKinsey
13:00 – 14:00	Lunch Break	
14:00 – 14:30	Plenary questions	Mr. Obed Baloyi, Project Manager, DEA
14:30 – 15:40	What a lab feels like – role play	Facilitators
15:40 – 15:55	What is expected from you	 Ms. Mamogala Musekene, Project Manager, DEA
15:55 – 16:10	Vote of thanks and closure	Mr. Mark Gordon, DDG, DEA
16:10 – onwards	Tea and Departure	