



REPUBLIC OF SOUTH AFRICA



Unlocking the economic potential of South Africa's Oceans

Offshore Oil and Gas Lab

Initiative B3: Exploiting the Broader Research Opportunities Presented by Offshore Oil And Gas Exploration

Thursday 23 July 2015

4 BFR METHODOLOGY

1

Strategic
Direction

Multiple Cabinet retreats to ascertain the direction needed

2

Labs

Establish in detail what needs to be done

3

Open
Day

Share lab output with people and seek their feedback

4

GTP/ETP
Roadmap

Tell the people what we are going to do

5

KPI
Targets

Setting KPIs for the whole Cabinet

6

Imple-
mentation

Problem solving, on the ground implementation

7

IRP Audit

External validation on results achieved

8

Annual
Report

Tell the people what we have delivered

What are the end products?

- A detailed “3-feet” level implementation plan, including:
 - ❖ Agreed solutions.
 - ❖ Detailed execution plans with responsible owners (across organisations).
 - ❖ Timelines.
 - ❖ Clear targets.

What would make Phakisa work?

- Strong commitment (time and effort) from top leadership.
- Setting “impossible targets” to drive transformation.
- Labs represent a new radical way of working.
- Implementation in consultation with the public.
- Discipline in Monitoring and Execution.
- Clear governance structures and weekly reporting.

Overview of Lab

What is a Lab?

An **intense** problem-solving environment within a **dedicated physical workspace** with a **full time team** working in **iterative manner** towards delivering **Big Fast Results**

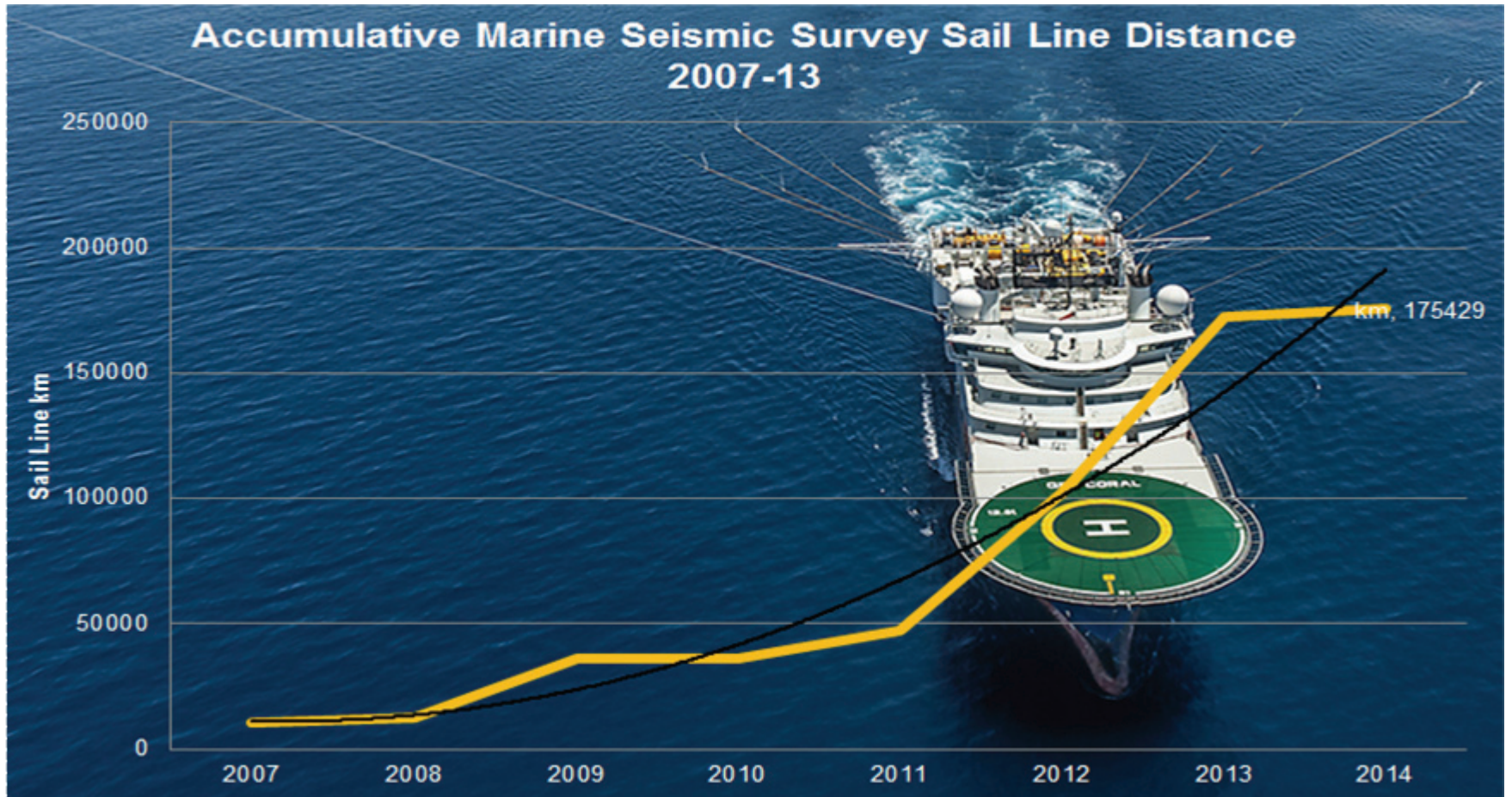
When do we use lab?

- ✓ **Solve** complex problems/issues
- ✓ **Develop a programme** to deliver big fast results
- ✓ Secure **alignment** within organisation
- ✓ Obtain **firm mandate** from senior leadership, backed by masses
- ✓ **Break silo** → Intensify cross-functional interaction



The Oceans Phakisa B3 context

- There is steadily increasing oil and gas exploration activity within South Africa's marine Exclusive Economic Zone



The context (Cont.)

- South Africa has recognised, potentially significant, exploitable marine energy resources, but...

“Although there are a number of different data sources and data sets available at this time, there are still many gaps and a lack of coordination between the different stakeholders. It will be very useful if a process can be initiated to bring the different stakeholders together to discuss cooperation and sharing of resources and data.”

(Meyer, *et.al.* 2013. *Assessment of the Ocean Energy Resources off the South African Coast*)



Assessment of the Ocean Energy Resources off the South African Coast

April 2013

Ms. I. Meyer

Mr. J. Reinecke

Prof. M. Roberts

Prof. J. L. Van Niekerk



Centre for Renewable and Sustainable Energy Studies



Faculty of Engineering • Fakulteit Ingenieurswese

Private Bag 1, Ploersak Sak X1, Matieland, 7602 • South Africa / Suid-Afrika

Tel: +27 (0) 21 808 4000 Fax: +27 (0) 21 808 4177

crses@sun.ac.za

<http://www.sun.ac.za/crses>

The context (Cont.)

- The running cost for a research vessel, like the SA Agulhas II, is around R400,000/day



Completing the puzzle

- The cost of ocean-going research vessels is one of the primary barriers to South Africa having a complete, accurate and current picture of its marine environment and ecosystems and its marine natural and energy resources
- Offshore oil and gas exploration activities (e.g. seismic surveys) provide a unique and timely opportunity to fill gaps in South Africa's marine environment knowledge
- Should exploration operators make space available on their vessels to researchers:
 - Marine research & energy research could be greatly facilitated at a much larger scale and relatively low cost



The idea

- Exploiting the Broader Research Opportunities Presented by Offshore Oil And Gas Exploration

Desired outcome:

South Africa's knowledge of its marine living natural resources, marine environment and ocean-related renewable energy resources is greatly enhanced through collaborative research with oil and gas exploration activities



Addressing the policy conflict?

The marine renewable energy data collected as part of offshore oil and gas exploration activities will contribute to South Africa's transition to a low-carbon economy and society

Desired outcome:

Data collected as part of oil and gas exploration activities is used to create, say, the "South African Marine Renewable Energy Resource Atlas"



Implementation Plan

- **Step 1:** Secure the services of a suitable service provider to facilitate and manage the development and finalisation of various norms, standards, protocols, agreements, etc.

Desired outcome:

Service level agreement signed with a suitable service provider following a standard procurement process



- **Result 1:** The NRF appointed to manage the process:
 - KFD to provide the secretariat services
 - SAEON to manage the process of the establishment of SAMREF

Implementation Plan (Cont.)

- **Step 2:** Carry out a detailed stakeholder analyses and compile and maintain a comprehensive stakeholder database.



Desired outcome:

South Africa has a complete, accurate and current understanding of who is doing what in the broad area of ocean-related research

Implementation Plan (Cont.)

- **Step 3:** Establish and maintain a multi-stakeholder project management team (PMT) to inform the development and implementation of the project



Desired outcome:

High level of multi-stakeholder buy-in as a result of participatory project development, implementation, management and co-ownership

Implementation Plan (Cont.)

- **Step 4:** Kickstart workshop (**Today**) with key stakeholders that informs the compilation of a research catalogue & gap analysis report.



Desired outcome:

Broad stakeholder agreement on what data could be collected during oil and gas exploration voyages, what data we need, what data is missing, etc.

Implementation Plan (Cont.)

- **Step 5:** Negotiate what can be done and agreements on how it will be done

Desired outcome:

Broad stakeholder agreement on what data will be collected during oil and gas exploration voyages and how that data will be collected, managed and used

Implementation Plan (Cont.)

- **Step 6:** High profile project launch and agreement signing ceremony, December 2015 / January 2016

Desired outcome:

Broad stakeholder buy-in and signed agreements that will efficiently and effectively exploit the broader research opportunities presented by offshore oil and gas exploration



**Thank you for your kind
attention**