

REPUBLIC OF SOUTH AFRICA



OCEANS ECONOMY

REVIEW WORKSHOP

Cape Town, 15 October 2015



Operation Phakisa: Oceans Economy

Operation Phakisa: Unlocking the Economic Potential of South Africa's Oceans focuses on four priority potential growth areas (marine transport and manufacturing, offshore oil and gas exploration, aquaculture and marine protection services and ocean governance) that have **significant GDP growth and job creation potential**

Operation Phakisa will deliver on some of the aspirations of the National Development Plan 2030 which have been championed at every level of government and society

Operation Phakisa represents a **fundamental change** in how we accelerate delivery – it is the **first of many 'business unusual' initiatives** that government will implement

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Operation Phakisa engaged 656 participants from 68 institutions in government, private sector, civil society, labour, and academia and developed 47 detailed initiatives, translating into >400 key performance indicators (KPIs), and 2 900+ specific activities

Together, these 47 initiatives are expected to increase the Ocean Economy's GDP contribution by >R20 bn, and lead to the creation of 22 000 direct new jobs by 2019

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Delivery of these initiatives will be supported by multiple leaders including the President and Cabinet, the Minister in the Presidency, Department of Planning, Monitoring and Evaluation's Operation Phakisa Delivery Unit, Lead Ministers for each lab, and specific initiative owners identified in detailed 3-ft delivery plans.





Marine Transport and Manufacturing



Offshore Oil and Gas Exploration



Aquaculture



Marine Protection Services and Ocean Governance



Small Harbours Development





Coastal and Marine Tourism





Marine Transport and Manufacturing





Port Nolloth

Marine Transport and Manufacturing - BACKGROUND

 \bigcirc

Richards Bay

Durban

- ~30 000 vessels passing by South Africa's waters every year
- ~13 000 vessels dock in South Africa ports every year and we only do maintenance on ~5% of them
- 80 rigs estimated to be in range of the Western Cape, only 4 (~5%) are serviced per year – offering significant potential for growth
- 300 million tonnes of cargo on foreign owned and crewed vessels shipped
- 1.2 million tonnes of liquid fuel passing along coast







Lab Outputs and impact

- >50 representatives from 20+ public, private, and civil society organisations engaged in the lab
- The lab developed 18 initiatives across 3 categories (infrastructure and operations, skills and capacity building, and market growth) to accelerate sector growth
- These 18 initiatives will create >15 000 direct jobs, 40 000 additional jobs and additional R18.8 bn in GDP by 2019. They will also expand South African port capacity for repair work by 12X for oil ships and 4.5X for oil rigs.
- An estimated government expenditure of R14.5 bn in CAPEX and R6.6 bn in OPEX will be required to fund this growth.







- South Africa's strategic advantages (i.e., location, infrastructure, and skills base) have not been fully exploited to drive growth in the marine transport and manufacturing sector
- 2 high potential elements of the sector remain in infancy stage:
- Marine manufacturing (ship repair and refurbishment, and boat-building):
 South Africa captures ~1% of global repair / refurbishment market
- A national registry for local ownership of shipping vessels: South Africa has no registered ships although 300 million tons of cargo moves through our ports and 1.2 million tons of liquid fuel moves along our coast .





Marine Transport and Manufacturing - INITIATIVES

Infrastructure and operations

- 1 Create supportive funding and revenue model
- 2 Establish purpose-built oil and gas port infrastructure by appointing facility operators – Saldanha Bay
- 3 Align on implementation of government policy
- Prioritise Transnet and TNPA funding allocation towards marine manufacturing
- 5 Maintain and refurbish existing facilities
- 6 Unlock investment in new and existing port facilities
- Implement a Strategic Prioritised Project – Richards Bay
- 8 Implement a Strategic Prioritised Project – East London
- i. TNPA Transnet National Ports Authority

ii.ESSA – Employment Services of South Africa

iii.TVET - Technical and Vocational Education and Training

B Skills and capacity building

- 9 Train 2,550 TVET College graduates on an 18-month workplace-based experiential learner programme in scarce and critical trades over the next 5 years
- Create dedicated OTs for the MTM sector (professional, trades, operators and seafarers)
- Establish trade RPL, CBMT or centres of specialisation in Saldanha Bay and Richards Bay
- 12 Train 18,172 learners as artisans, semi-skilled workers and professionals over the next 5 years
- 13 Increase usage of ESSA system and targeted career awareness services as a high-value recruitment tool for MTM
- Increase capacity to develop skills for ~1,200 ratings and ~720 officers per year

Market growth

- Create and implement a public procurement and localisation programme
- Develop a strategic marketing campaign and value proposition for target markets
- Propose inclusion of a preferential procurement clause in the African Maritime Charter
- Support local registry of vessels through incentives and legislation of using SA-flagged ships for cargo and coastal operations (based on UN Conference on Trade and Development and African Maritime Charter guidelines)

iv. RPL - Recognition of Prior Learning

v. CBMT - Competency-based Modular Training





- Transnet National Ports Authority (TNPA) and Transnet SOC Limited have adopted a Public-Private- Partnership (PPP) model to finance new Operation Phakisa infrastructure at the Ports of Saldanha Bay, Richards bay and East London.
- PPP opportunity of approximately R7 billions investment in new facilities.
- Establishment of Saldanha bay as an oil and gas hub :
- Total investment (public and private) estimated at R9.2 billion. 3 Projects
- Offshore Supply Base- work has commenced, approximately 30 initial jobs currently being created)
- 2. Berth 205 (construction of new rig repair facility)
- 3. Mossgas Jetty (extension of existing quay)

- Transnet National Ports Authority (TNPA) and Transnet SOC Limited will fund and execute the refurbishment and upgrade of existing Ship Repair Facilities at South African commercial ports.
- Transnet investment in new port infrastructure (Saldanha Bay, East London, Richards Bay) :
- Transaction Advisors to facilitate initiative unlocking investment in new port facilities appointed.
- Business cases delivery (October 2015 to January 2016) Scope of analysis and stakeholder engagement local and international
- Development of funding model at an advanced stage.





- Refurbishment of existing ship repair facilities :
- Shareholder has approved the operating model for existing ship repair facilities

-Scope of works completed for all projects. Projects at various different stages of planning and execution. Highlights include ;

- Refurbishment of outer dry dock caisson and procurement of equipment in Durban; refurbishment of Lead in Jetty in Port Elizabeth and
- Upgrade of Offshore Supply Base in Saldanha in execution phase.
- A total of 177 construction related jobs have been created through initiative 5 within the last 12 months
- A Section 79 application for a port lease at the Port of Port Elizabeth in support of the Composites Cluster and boat building has been

Granted by the Minister of Transport. This will be implemented in accordance with any necessary and suspensive conditions (e.g. transformation and local content requirements)

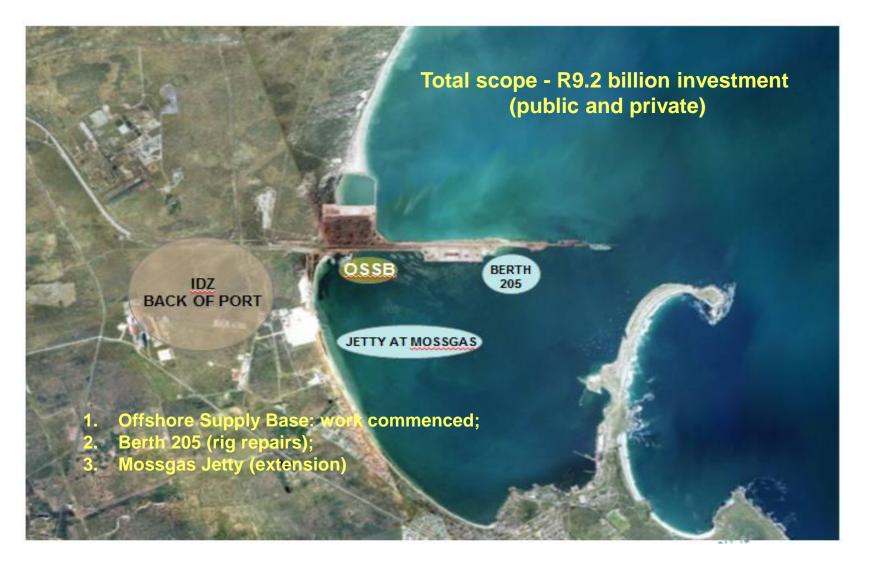
- This unlocks R1.25 billion in investment contracts over the next 5 years in respect of the building of catamarans.
- DTI has designated working vessels for local procurement (60% local content).
 National Treasury issued Instruction Note.







MTM: Saldanha Bay as an oil and gas hub







Saldanha : Rig Repair Berth 205 (Artist Impression)







Saldanha : Mossgas Jetty (Artist Impression)







Saldanha : Oil and Gas Supply Base (Artist Impression)







Richards Bay : Ship Repair (Artist Impression)







Offshore Oil and Gas Exploration





Background and aspiration

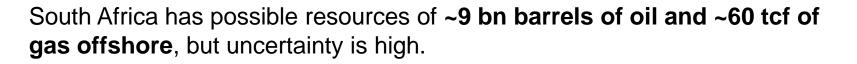
- South Africa's offshore oil and gas sector is in early development phase
- Developing an oil and gas industry takes decades

Lab Output and impact

- >10 Government departments and Senior Managers of major energy companies engaged in the lab
- The lab identified 11 initiatives in total:
 - 10 to be implemented by 2019
 - 1 to be implemented with first
 results by 2025 (development of phased gas pipeline network)







The aspiration is to create an environment that *promotes exploration* ...

... in order to *drill 30 exploration wells* in the next 10 years ...

... while simultaneously *maximising the benefits for South Africa*





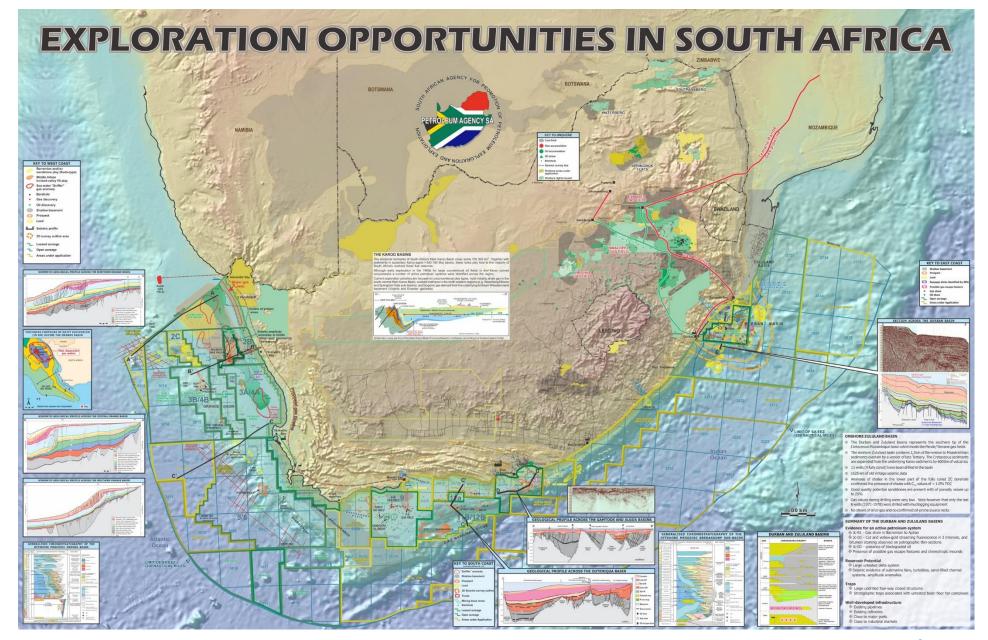
Background and aspiration

- South Africa's coast and adjoining waters have possible resources of 9
 bbl of oil (40 years of SA consumption) and 11 bbl of natural gas (375 years of SA consumption)
- This will require significant investment in SA deep water offshore environment (~US\$ 150 million per well) and time commitment (2-3 decades).

Output and impact

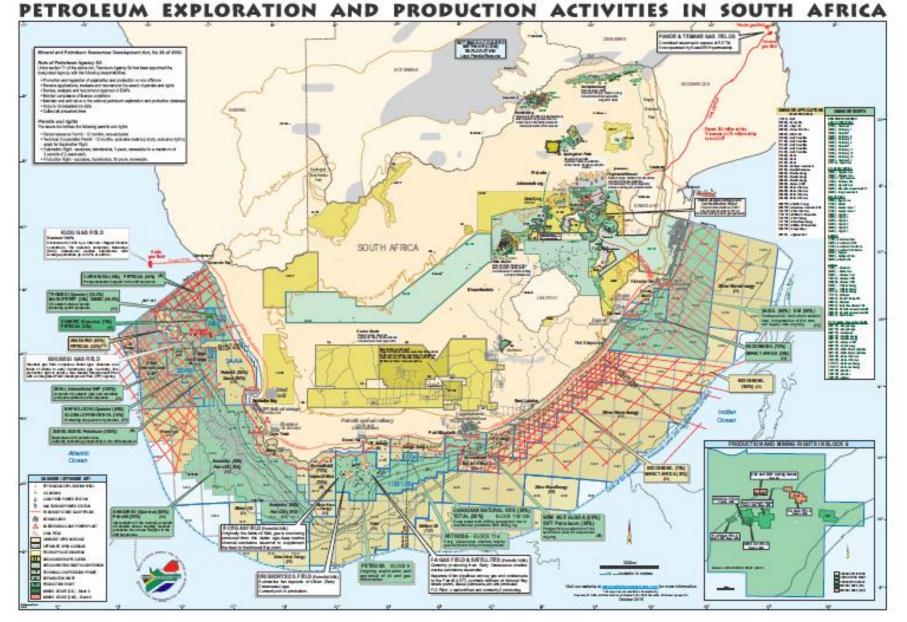
- Over the next 20 years, this could lead to production of 370 000 barrels of oil and gas per day (~80% of current oil and gas imports), creating 130 000 jobs and contribute US \$2.2 bn to GDP
- An estimated US \$3-5 bn investment would be required to achieve the lab's aspiration of 30 exploration wells in 10 years.





Source: http://www.petroleumagencysa.com/



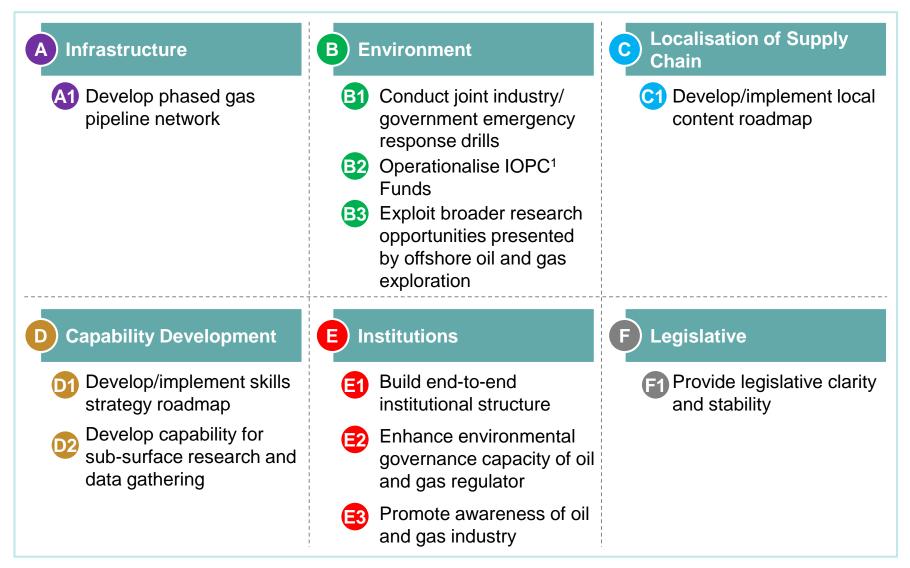


Source: http://www.petroleumagencysa.com/





Offshore Oil and Gas - INITIATIVES







Offshore Oil and Gas - INITIATIVES

The initiatives identified have been evaluated for implementation timing

- **Phase I: Initial short term** *First results by Mar 2016*
- B1 Conduct joint industry/ government emergency response drills
 - 2 Operationalise IOPC fund
- Exploiting the broader research opportunities presented by offshore oil and gas exploration
- Build end-to-end institutional structure
- Provide legislative clarity and stability

- **Phase II: Medium term** *First results by Mar 2019*
- C1 Develop/implement local content roadmap (2016)
- Develop/implement skills strategy roadmap (2016)
- Develop capability for subsurface research and data gathering
- E2 Enhance environmental governance capacity of the Oil and Gas regulator
- E3 Promote awareness of the Oil and Gas industry

Phase III: Long term First results by Mar 2025



Develop phased gas pipeline network







A Infrastructure

A1: PHASED GAS PIPELINE

- Indicative pipeline costs have been established
- Securing servitudes/reserves for the pipeline is in progress. CSIR has been appointed as service provider for SEA, whose timeframes have been aligned to OP timeframes:

B) Environment

B1: JOINT GOVERNMENT INDUSTRY RESPONSE DRILLS

- Formalise IOP participation has been done
- Gap analysis of existing capacity, stakeholders and entities complete
- Setting oil spill response team purpose and scope is in progress
- Pre-emergency planning is complete.
- Emergency Response is in progress





B Environment

B2: OPERATIONALISE THE IOPC FUND

- Agreement on disputed payment of arrears is complete
- Fully operational IOPC Fund is 95% complete

B3: EXPLOITING BROADER RESEARCH OPPORTUNITIES PRESENTED BY OFFSHORE OIL &GAS EXPLORATION

- Project design complete
- Stakeholders analysis and database complete:
- Formalise IOP participation has been done
- Establish and maintain multistakeholders project management team (PMT) has been done





B Environment

B3: EXPLOITING BROADER RESEARCH OPPORTUNITIES PRESENTED BY OFFSHORE OIL &GAS EXPLORATION

- NRF has been contracted
- Kick start workshop Research Exploration Forum has been held.
- Research opportunity exploitation reports and agreements is almost complete
- Data management structures and systems agreement is in progress

C Localisation of Supply Chain

C1 : DEVELOP LOCAL CONTENT ROADMAP

- Financial analysis of SA offshore oil & gas sector procurement has been conducted and complete.
- Setting targets for minimum local production and supply in proportion to total domestic upstream O&G value spend is in progress





Capability Development

D1 : DEVELOP COLLABORATIVE SKILLS STRATEGY ROADMAP

- Formation of skills development workgroup has been done
- Development of a skills strategy roadmap is at advanced stages due for completion in December 2015

D2: DEVELOP CAPABILITY FOR SUBSURFACE RESEARCH AND DATA GATHERING

- Technical capability built programmes for subsurface information activities have been identified
- Reviewing and assessment of Mechanism to formalise reservoir technical capability is 92 percent complete







D2: DEVELOP CAPABILITY FOR SUBSURFACE RESEARCH AND DATA GATHERING

- Development of subsurface information acquisition hard infrastructure is 50 percent complete
- Confirming utilisation arrangements is in progress

Institutions

E1: ACHIEVE A STREAMLINED AND EFFICIENT E2E INSTITUTIONAL STRUCTURE FOR REGULATION OF O&G EXPLORATION AND PRODUCTION

 Final decision on optimal structure is 50 percent completeMigration of PASA for CEF to DMR in progress but much slower than previously anticipated





E Institutions

E2: ENHANCE ENVIRONMENTAL GOVERNANCE CAPACITY OF O&G REGULATOR

- Multi-stakeholder WG has been established
- Skills need analysis has been done
- Services providers have been appointed
- International Benchmarking has been done

E2: ENHANCE ENVIRONMENTAL GOVERNANCE CAPACITY OF O&G REGULATOR

- Status quo report is complete
- Stakeholder engagement has been done
- Final scoping is complete
- Performance monitoring and reporting is in progress







E3: PROMOTE AWARENES OF THE O&G INDUSTRY

- Designing the outreach component of the Regulator is 70 percent complete
- This is due for completion in December 2015

F1: FISCAL TERMS CLARITY

- MPRD Amendment Bill has been referred back to parliament
- Multi-stakeholder WG has been established
- Bilateral discussions between DMR, ONPASA and OPASA have yielded convergence on major issues identified



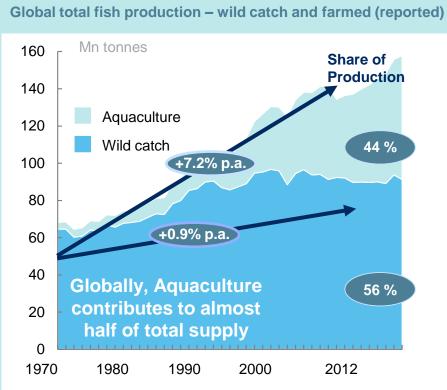


Aquaculture

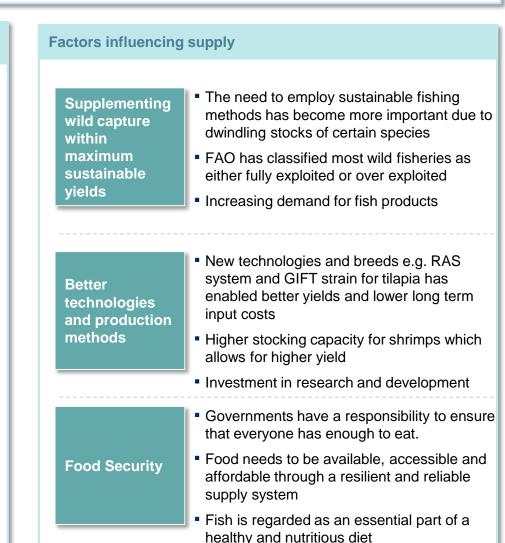




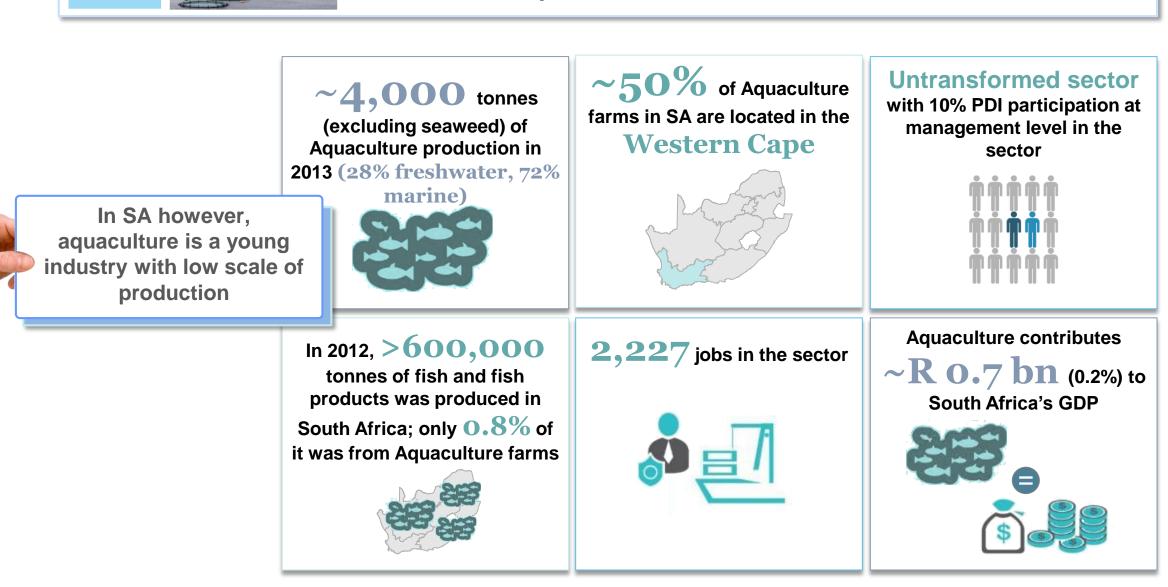
Aquaculture - BACKGROUND



- Aquaculture production has shown strong growth of 7.2% p.a. from 1970 to 2012.
- Of the 141 million tonnes of fish consumed, over 70 million tonnes come from aquaculture which about 50%
- An additional 50 million tonnes of fish is required to feed the world population by 2030 and this production will come mainly from aquaculture







Aquaculture - BACKGROUND

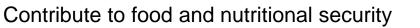




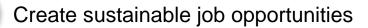












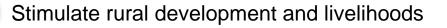






Capitalise on export opportunities







Attract foreign direct investment



Safeguard sustainable environmental integrity



Create SMMEs and wealth generating opportunities through Aquaculture

Aquaculture is a sector that presents a good opportunity to diversify fish production



The Aquaculture sector in South Africa has incredible potential and yet remains at a small-scale leading to many challenges for producers

"...We don't have the economies of scale to be commercially viable ...

"...It's taken 28 months to get a single permit to expand my farm..."

"...we should be supplying salmon and trout instead of importing 1000s of tonnes..."

"...our R&D should focus on meeting market demand in South Africa..."



"... The way the banks price risk is crazy... few people really understand the nature of our business..."

"...PDIs only make up less than 10% of the sector..."

"...I lost all my fish since there was no fish vet..."

"...High set-up costs are a huge barrier to entry in this sector..."

"...We don't have the economies of scale to get quality feed from suppliers..."





HEADLINES 2019: SA economy reaps the rewards of Operation Phakisa

"...to Aquaculture in South African has shown strong growth in 5 years, with production from 2014 up 5 fold to 20,000 tonnes..."

"...experts estimate the **revenue contributed by Aquaculture** to South Africa's economy **to be as much as R 3 Bn**..."

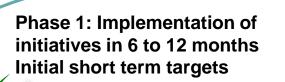
""...exciting momentum built in Operation Phakisa evidenced by Aquaculture's inclusive growth..." "...The Aquaculture sector in South Africa now **employs 15,000 people in direct and full time jobs.....** "

"Jobs in Aquaculture sector seen as quality jobs, improving livelihoods in rural communities...."



35

Aquaculture - PROGRESS



- Implementation of 9 initial projects
- Establishment of an Inter-Departmental Authorisations Committee



- Establishment of an Aquaculture Development Fund
- Coordination of industrywide marketing efforts

Phase 2: Implementation of initiatives in 12 to 24 months







- Implementation of 6 readyto-operate projects and selection of additional
- projects Legislative reform to promote Aquaculture development



Establishment of a globally recognised monitoring and certification system



Capacity building for support services



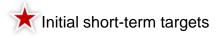
Preferential Procurement of Aquaculture products

Phase 3: Implementation of initiatives in 2 to 4 years

Implementation of 12 readyto-operate projects and selection of additional projects



Capacity building for entire sector





Collaboration, information sharing, implementation plans developed



- ✓ Lab aspiration and 9 key issues identified
- ✓ 8 initiatives developed
- ✓ 30 implementation plans (19 projects and 11 initiatives)
- ✓ Budget and Key Performance Indicators for 30 plans
 ✓ Lab report







PHAKISA

Solutions developed focuses on priority initiatives that support the implementation of the 24 catalytic projects

Selection and Implementation of 24 Projects

Select and implement 24 aquaculture projects over 3 phases in order to increase the scale of the aquaculture sector; projects comprise both new farms and the expansion of existing farms





Legislative reform

Amend legislation to harmonise the assortment of existing regulations and promote aquaculture sector growth

Inter-departmental authorisations committee

Establish a committee that will streamline and coordinate applications and approvals in the aquaculture sector



Regulations



Establish a recognised monitoring and certification system to boost exports of South African aquaculture products

Globally recognised monitoring and

certification system

Fundina



3

Aquaculture development fund

Establish an integrated pool of existing funds in order to finance all phases of aquaculture projects (including pre-production) and encourage new entrants to participate in the aquaculture sector



Capacity building and skills development for support services

Increase and up-skill technical resources (e.g., extension officers) available to support aquaculture sector growth



RAND



Coordinated industry-wide marketing efforts Launch coordinated industry-wide marketing efforts to increase local consumption of aquaculture products, and encourage the growth of small-scale farmers / new entrants



Preferential Procurement

Partner with government institutions to procure aquaculture products, thereby increasing local consumption and improving nutritional levels in South Africa





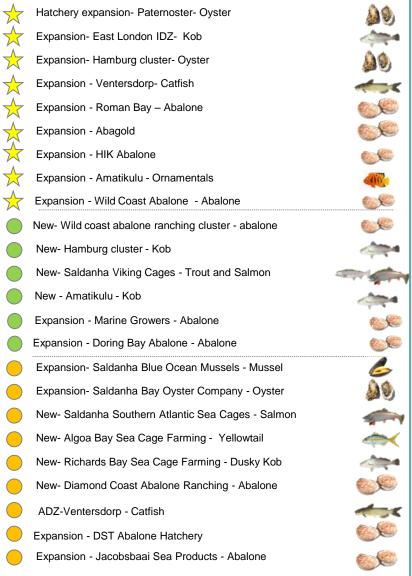




24 projects have been selected and sequenced for implementation across 3 phases



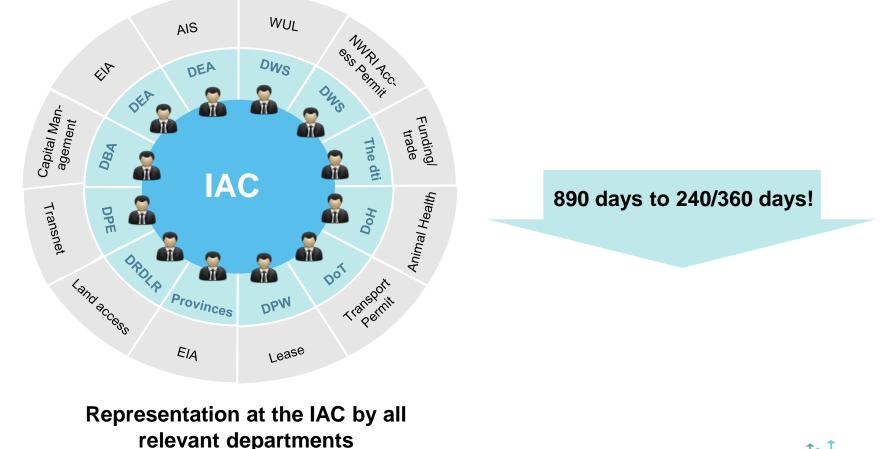
Project/enterprise





3 Establishment of an Inter-Departmental Authorisations Committee

Currently, there is an uncoordinated approach to processing of applications for Aquaculture, approvals of which can take up to **830 days**. The establishment of the Inter-Departmental Authorisations Committee ("IAC") aims to co-ordinate applications and approvals, with the expectation of reducing processing time to **240 -360 days**.







The Aquaculture sector faces difficulty in accessing finance as the sector is small and not well understood by financing institutions.

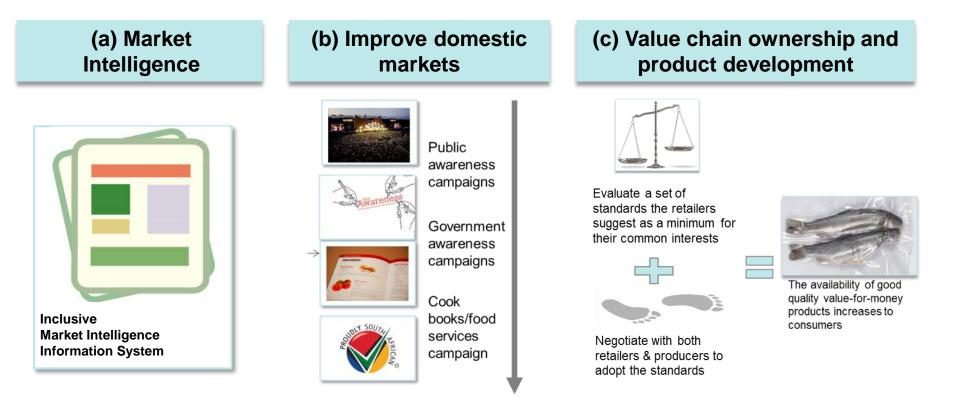
ADF aims to fast-track growth, while meeting transformation objectives

- Funding pool to assist end-to-end Aquaculture projects
- Coordinates funding from various government departments and DFIs through an MoC
- Initial proposal for ADF to be managed by Land Bank/DFI
- Key focus of ADF to drive transformation / inclusivity by providing new entrants with access to funding in pre-production phase





The players in the Aquaculture sector have limited access and awareness of markets



(d) Promote responsible, fair regulation and environmental certification





Progress

 Nine projects are on schedule or ahead of schedule (jobs, production, GDP and transformation) *Six expansion projects and three new projects:

Doringbaai, Hamburg Oyster & Kob, HIK, Abagold, Blue Oceans Mussels, Saldanah Bay Oyster, Molapong, Richard's Bay, Diamond Coast Abalone

Leases

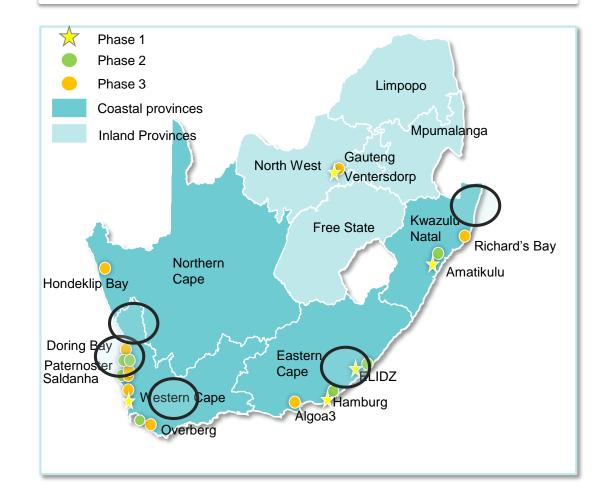
- DPW task team first six leases approved
- TNPA advertised & approved three leases

New projects

Oystercatcher Aquaculture Saldanha Bivalve Farm (new); Hermanus Salmon Blue Sapphire Pearls (expansion) Southern Atlantic (revised-new); West Coast Oyster Growers (expansion); Imbaza Mussels (expansion); African Olive (expansion).

Challenges for other 15

- Market access (funding available for initiative 7)
- Access to land/water (DPW/TNPA working groups)
- Infrastructure (assistance from NAMC, SIP 11)
- Funding and investment (funding working group)





Total fish farms supported (ADEP, CASP, WFFP) Total leases from DPW approved Total water lease space from TNPA approved Total committed industry investment Total committed government investment Total new jobs (realised and committed)

The Aquaculture initiative has achieved <u>36% completion</u> of the <u>909 activities</u> planned to date (report of the 07/08/2015). *Change management process underway, therefore latest progress not reflected in report

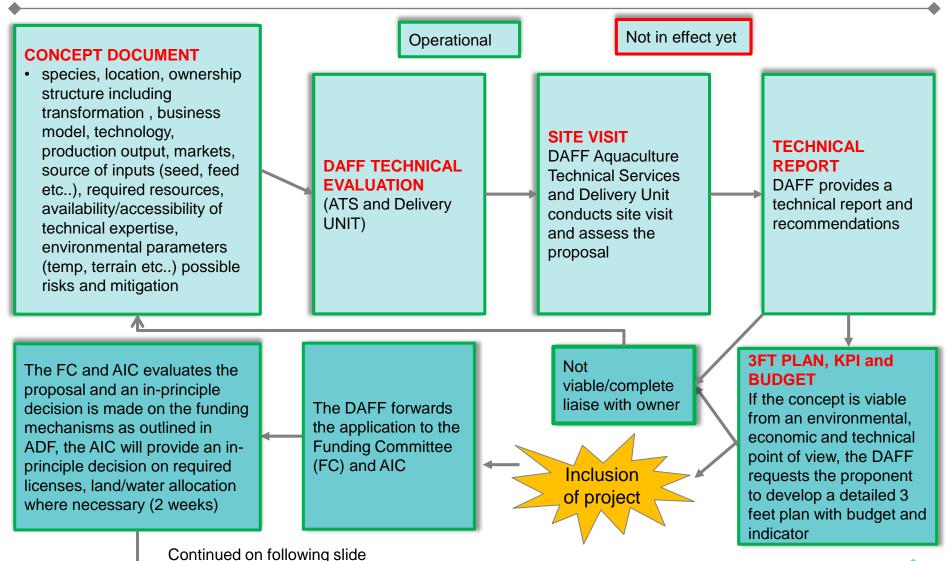






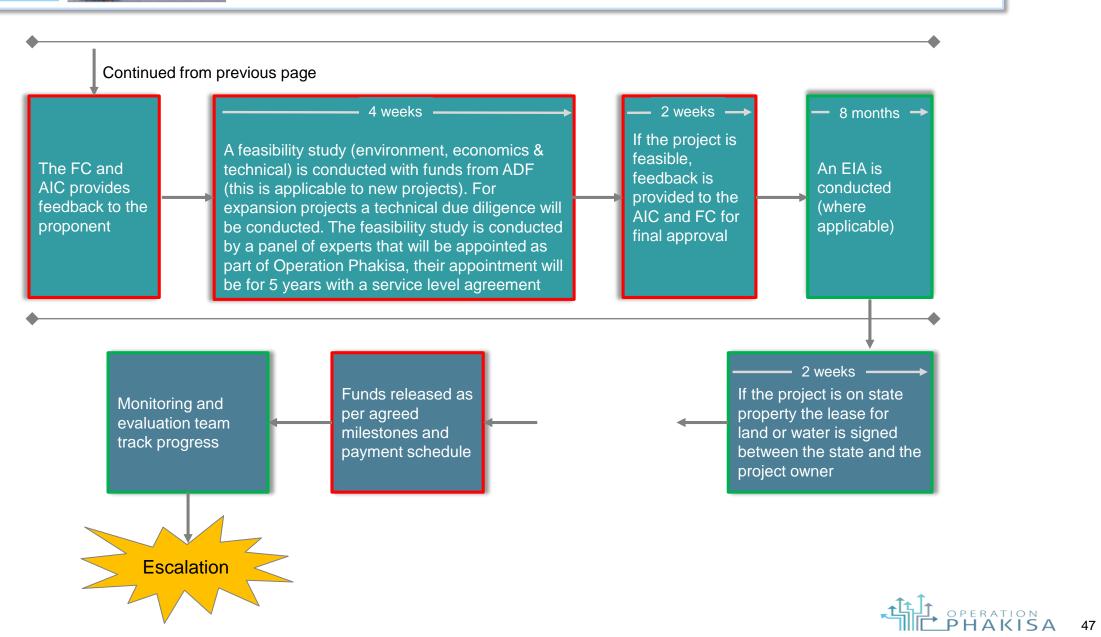


Aquaculture - PROJECTS SUBMISSION PROCESS (1/2)



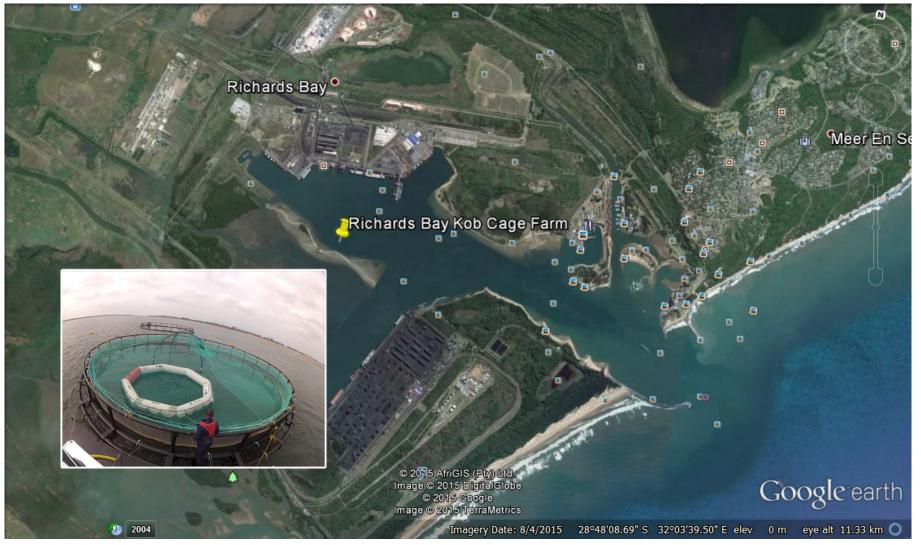


Aquaculture - PROJECTS SUBMISSION PROCESS (2/2)





Aquaculture - SUCCESSES





Aquaculture - SUCCESSES









How to Register New and Potential Aquaculture Projects

- The Department of Agriculture, Forestry and Fisheries hereby invite potential and new aquaculture project owners to register their projects to become part of Operation Phakisa: *Unlocking the Economic Potential of South Africa's Oceans*.
- Projects may be submitted any time however evaluations for inclusion will be conducted on a quarterly basis. For evaluation criteria please refer to the Aquaculture Lab report on the link below.
- Interested parties must refer to the New Projects folder available on the Operation Phakisa website:
 www.operationphakisa.gov.za/operations/oel/aquaculture/
- All applications and enquiries can be forwarded to: <u>Aquaculturephakisa@daff.gov.za</u>





Marine Protection Services and Ocean Governance







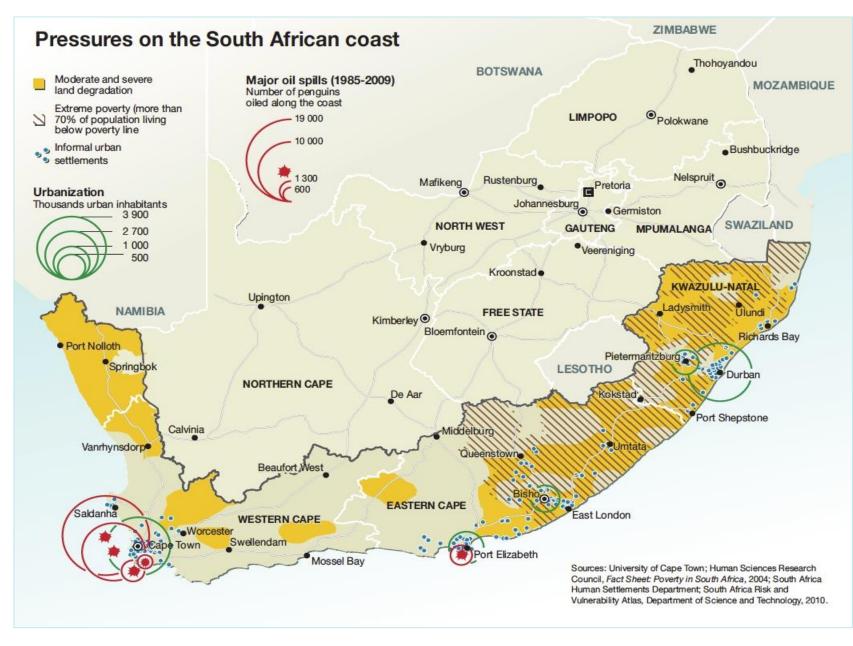
Background and aspiration

- South Africa has jurisdiction over a very large Exclusive Economic Zone (EEZ), with an extent of 1.5 million square kilometres
- South Africa needs to continuously balance the economic opportunities which our ocean space affords while maintaining its environmental integrity
- Given the size and complexity of our oceans, there is a growing recognition that a sectoral approach does not allow for maximising economic opportunities, ensuring environmental protection or increasing our understanding of the ocean
- To implement an overarching, integrated ocean governance framework for sustainable growth of the ocean economy to maximise socio-economic benefits whilst ensuring adequate ocean environmental protection within the next 5 years

Outputs and impact

- The Marine Protection Services and Governance (MPG) Delivery Unit (DU) has been established for facilitation, coordinating and implementing of the initiatives. The lab identified 10 initiatives to be implemented by 2019 that will facilitate:
 - The development and implementation of an overarching, integrated ocean governance framework by a way of a Marine Spatial Planning Legislation.
 - The protection of the ocean environment from all illegal activities and promote its multiple socio-economic benefits with results by 2017
 - The delivery of a National Marine Spatial Planning Framework in order to enable a sustainable ocean economy
- All the 10 MPG initiatives are lead by initiatives owners and driven by workings groups responsible for continuous implementations, monitoring and reporting on progress.









Marine Protection Services and Ocean

Governance

Integrated Ocean Governance and Protection

Integrated framework and governance



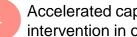


Ministerial Committee and Secretariat to govern activities

Enhancement of legislation for the Integrated Coastal and Oceans Management Act or Oceans Act



Review of ocean-related legislation



Accelerated capacity-building intervention in ocean governance



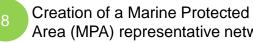


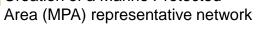
Enhanced and coordinated enforcement programme

National ocean and coastal information system and extending earth observation capacity



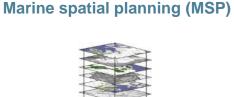
National ocean and coastal water quality monitoring programme







MPA/MSP discovery, research and monitoring programme





Marine Spatial Planning (MSP) process





Short Term Initiatives

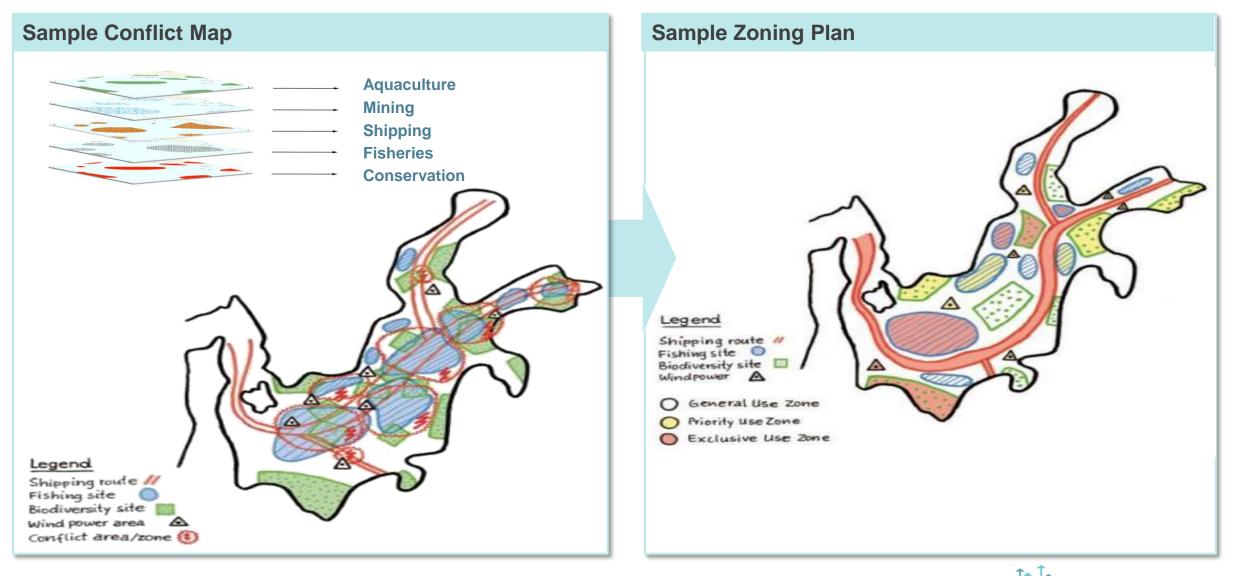
 The Marine Protection Service and Governance seeks to achieve an enabling environment for sustainable oceans development.

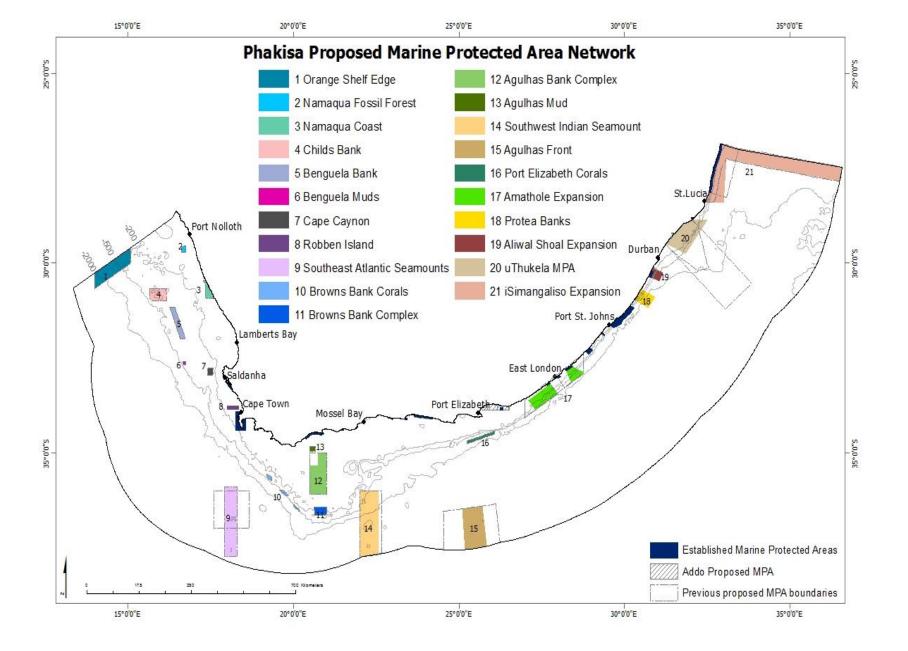
Short Term Initiatives by 2019:

- The establishment of working groups for the coordinated ocean sector implementation of the MPG lab initiatives.
- The development of the Marine Spatial Planning legislation for allocation of space and resources.
- Council for Scientific and Industrial Research / Meraka Institute appointed. Agreement reached for a period of 5 year project.
- The Gazetting of proposed 21 Marine Protected Area's representative network for public comments
- The technical and financial support from Benguela Current Commission (BCC) through the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH on the regional project "Marine Spatial Management and Governance" MARISMA for the development of the National Framework for Marine Spatial Planning.



By identifying Conflict Zones, the Marine Spatial Planning (MSP) process will then be able to determine the appropriate zoning and usages









Small Harbours Development





Ensure territorial integrity through the revitalisation of the Small Harbours







Access to government maritime infrastructure







Ensure inclusive economic growth through the empowerment of **emerging fishing communities**







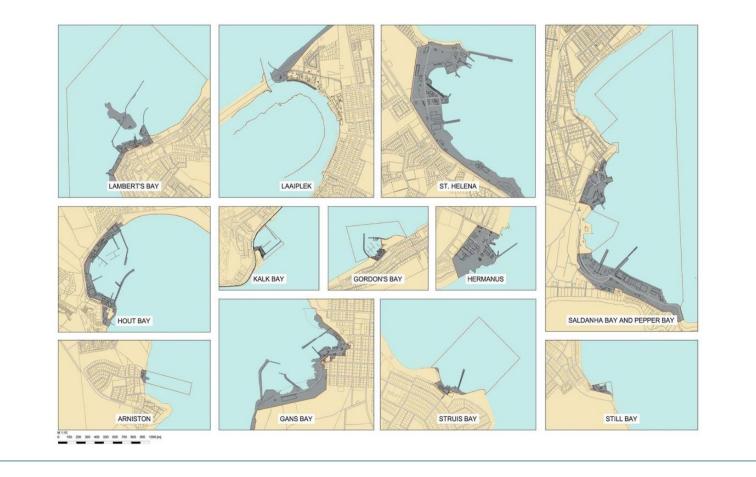
Empower coastal communities in skill development, education and enterprise development







Energise the growth of coastal infrastructure







Small Harbours Development - INITIATIVES







Critical infrastructure projects identified by DPW and DAFF to be undertaken within the 13 Proclaimed Fishing Harbours during 2015/16, followed up by preventative maintenance for the same over the next three (3) years:

- Repairs and upgrade of slipways;
- Shore crane replacements;
- Dredging of harbour basins;
- Repairs to wooden jetty's;
- Removal of sunken vessels;
- Security installation and operations; and
- Infrastructure repairs.





The following un-proclaimed small harbours have been identified and have potential for both harbour infrastructure, marine and offshore aquaculture, small town precinct development, tourism, and EPWP job creation:

Harbour name	Harbour name
Port Nolloth	Port Alfred
Boegoebaai	Cape St Francis
Hondeklipbaai	Hibberdene
Port St Johns	Port Shepstone
Port Grosvenor	Port Edward





Operation Phakisa and Small Harbour Leases streamlined and aligned with the development principles associated with the Spatial Economic Development Framework (SEDF) projects.

Aquaculture leases awarded:

- Saldanha Bay Oyster Company, Pepper Bay Harbour, Saldanha
- West Coast Oyster Growers, Pepper Bay Harbour, Saldanha
- Emakulema Mussels, Sapphire Pearls and Southern Atlantic Sea Farms (Joint Venture), Saldanha Bay Harbour, Saldanha
- Imbaza Mussels Pty Ltd, Blue Ocean Mussels and African Olive (Joint Venture), Pepper Bay Harbour, Saldanha
- Doring Bay Development Trust, Doring Bay
- Department of Science and Technology (DST)/Stellenbosch University, Hondeklip Bay





Coastal and Marine Tourism





Coastal and Marine Tourism

An analysis is required to determine the current and potential future contribution of Coastal and Marine Tourism to the tourism economy.





- Promotion of blue flags as a tourist attraction (marketing).
- Boat launching facilities and recreational fishing (licenced).
- Mini retail facilities (food, beverage, curio etc.) within the beach precinct.
- Provision of visitor information services.
- Provision of coastal tourism infrastructure i.e. ablutions facilities, parking, recreational facilities (braai areas, pools etc.) – operated in partnership with the private sector.











OPERATION PHAKISA

Moving the Oceans Economy Forward...