MARITIME BORDER SAFEGUARDING: DEBRIEF SALDANHA EXP

Aim

 To give feedback on the Maritime Exp conducted at Saldanha Bay over period 28 Oct to 7 Nov 14 to the AOC

Scope

- Background
- Objectives
- Participants
- Assets
- Incidents
- General Remarks
- Current Situation
- Recommendations
- Way Forward

Experimentation/Simulation

• "If I do this, what will happen?" The key to an experiment can be defined as a process "to explore the effects of manipulating a variable." [Shadish et al. 2002: p. 507]

Background

- Third Experiment
 - Ladybrandt
 - Musina
 - Macadamia
 - Some new developments
 - BMA timeline to develop a border guard and a coast guard
 - Cab Memo
 - In process with MOD to decide
 - NSS

Objectives

- Objective 1: Joint, Interagency, Intergovernmental Participation (PA) This aspect can only be addressed through government interdepartmental forums and structures.
- Objective 2: Create and Operate a Maritime Operations
 Centre (PA) The insights gained from the field experiment
 need to be applied to define and the requirements for
 maritime Domain Awareness Centre/s (MDAC) and the
 interface to other government organisations.
- Objective 3: Situation Awareness Synthesis (PA) As there is no other department monitoring the RSA maritime area, the MDAC should be for the benefit of other departments too, not only for the SAN.

Objectives

- Objective 4: Joint Preparation of the Operations Space (NA) This process can only be achieved once the quality and level of collaboration between government departments is achieved, preferably in a formalised structure.
- Objective 5: Perform Whole of Government C2 (NA)
 There was no departmental interaction except for the individuals deployed at the PECC.
- Tech Obj: (PA) The process of data fusion, from multiple sensors, to produce usable information from which situation awareness at various levels i.e strategic, operational and tactical can be obtained needs more formally researched and implemented as this aspect is important to critical decision making wrt to border safeguarding functions and the effective execution thereof.

Participants

SANDF Participants

- J Ops Div
- SA Army
- SAN
- CDI
- 4SFR
- CMIS (IDE)

External Participants: Personnel consisting of 85 engineers and scientists from the following organisations:

- Armscor
- DTD
- IMT
- CSIR (DPSS)
- SAAB
- Reutech Radar Systems (RRS)
- GEW
- Peralex
- Paramount Group
- Port of Entry Control Centre (PECC) Cape Town

Maritime Border Safeguarding 2014 Participants

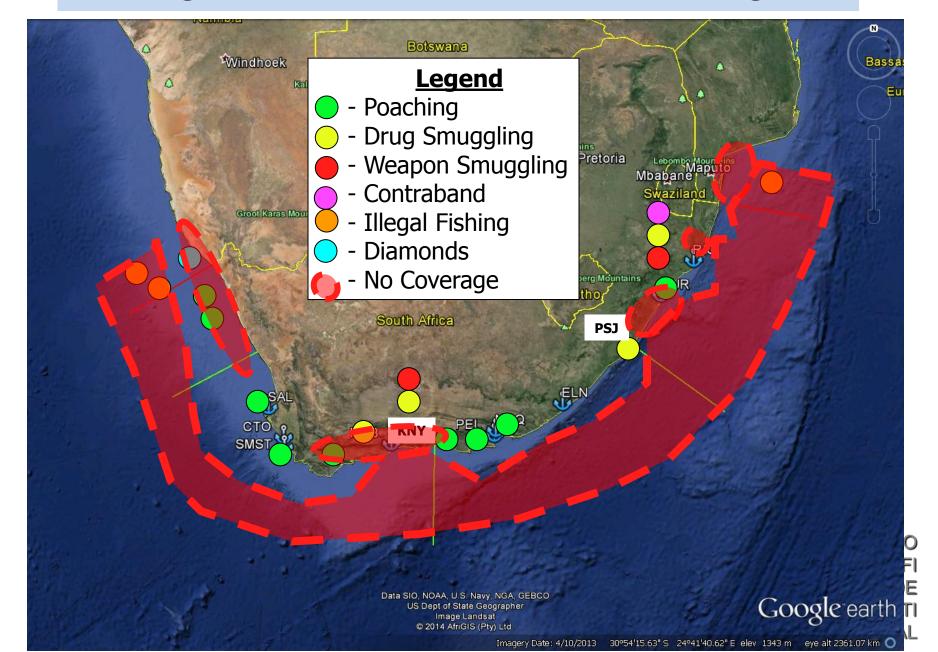


15/05/2015

Assets

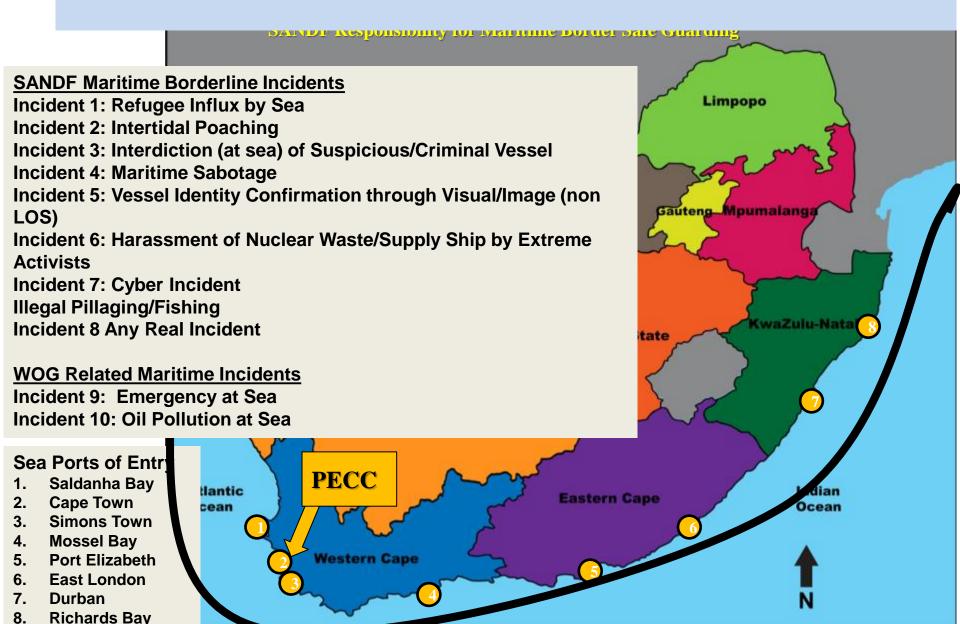
- SAAF Air Picture Display System (APDS)
- SAAF Tactical Mobile Radar (TMR)
- SAAF KOILER system
- SA Army Thutwla Radar
- SAN vessels x 3
- SAN MDAC
- JOPS Staff and 4SFR vessels
- CSIR (DPSS) CMORE technology demonstrator, Electro-Optic systems, EW equipment, Carmenta, radar information tool, Indiza UAV
- RRS Spider Radar
- IMT MREA, MDA systems, AUV and laboratory vessel,
- GEW EW equipment
- Paramount Civet UAV system
- Command and Control Data Model demonstrator

Illegal Activities and Areas of No Coverage

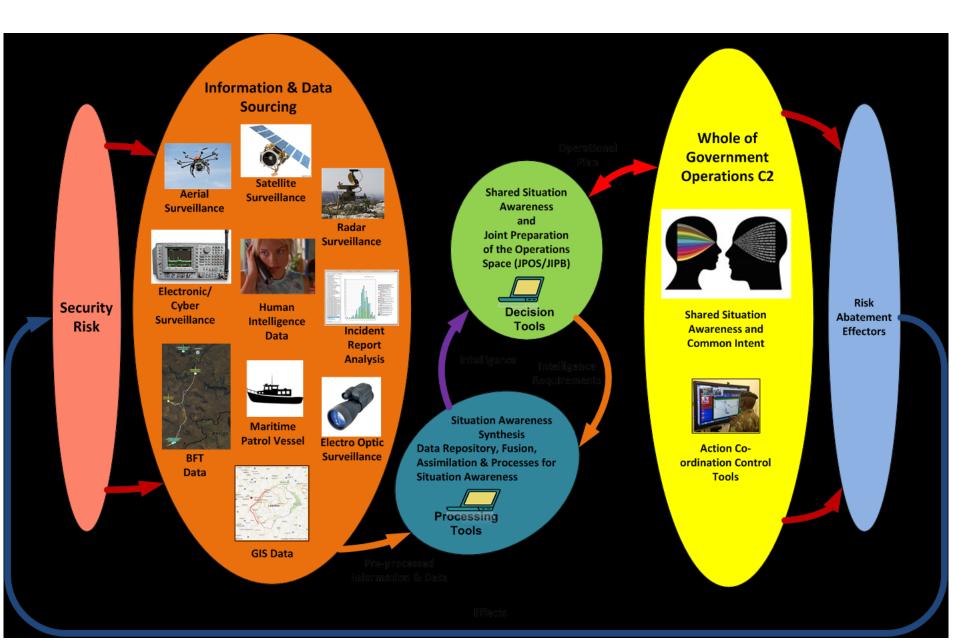




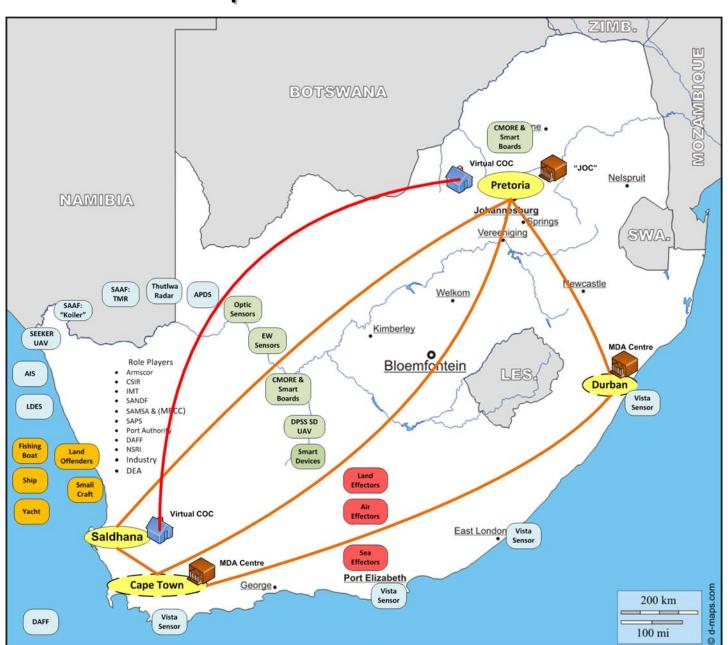
Experiment Incidents



Maritime Experiment C2 & Coordination



Maritime Experiment C2 & Coordination



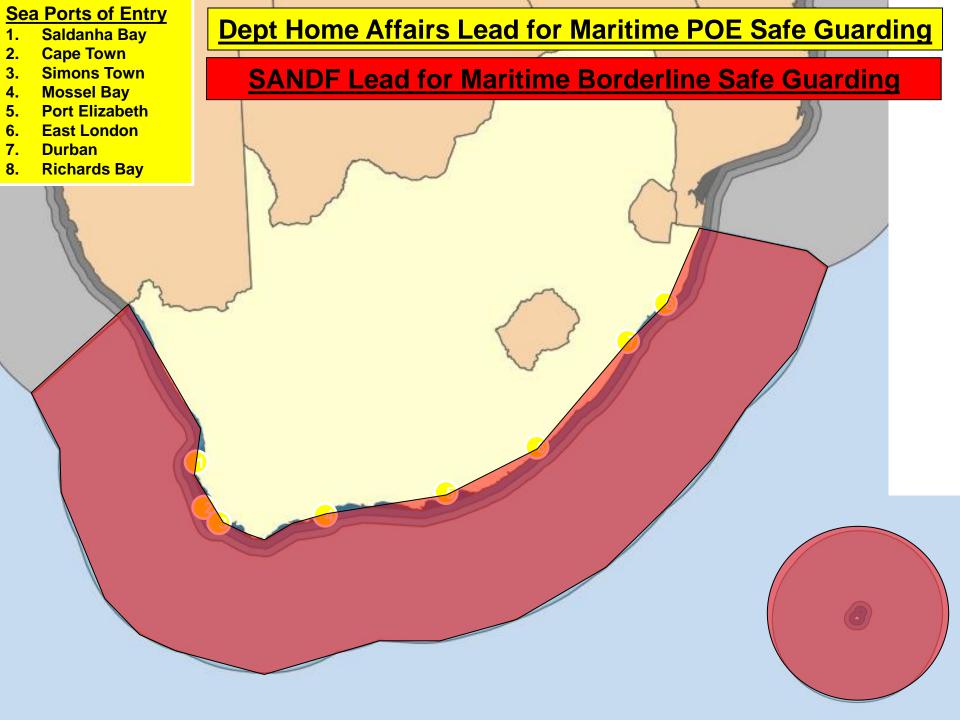


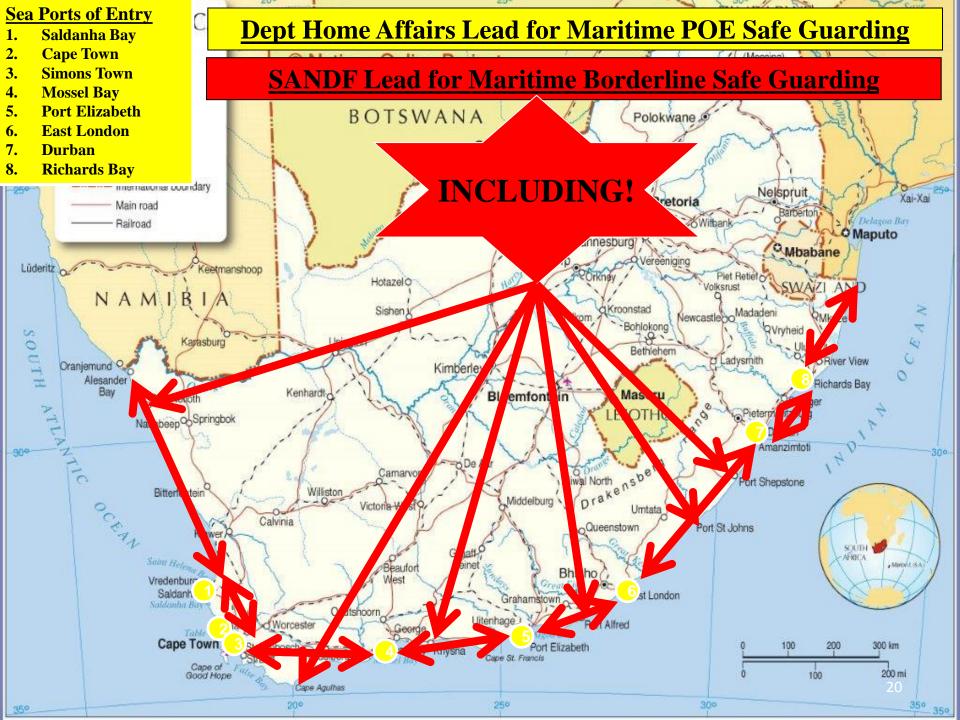
General Remarks

- DENEL UAV
- Inter Dept Complexities
 - Dept Tpt vs Dept PE vs Def Int
 - SAPS Border Police vs PECC vs Tac HQ WC
 - Inter Dept communication
 - Port Captain
 - MCM
- Record all inputs for doctrinal/policy development
- Test CC for development of Ops rooms

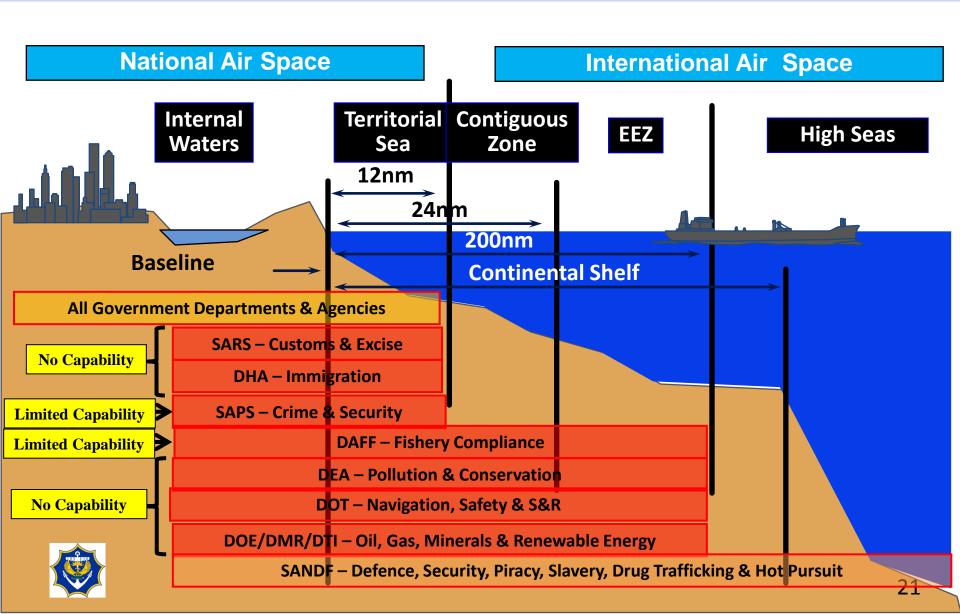
Insights Gained

Capt (SAN) J. Sinovich





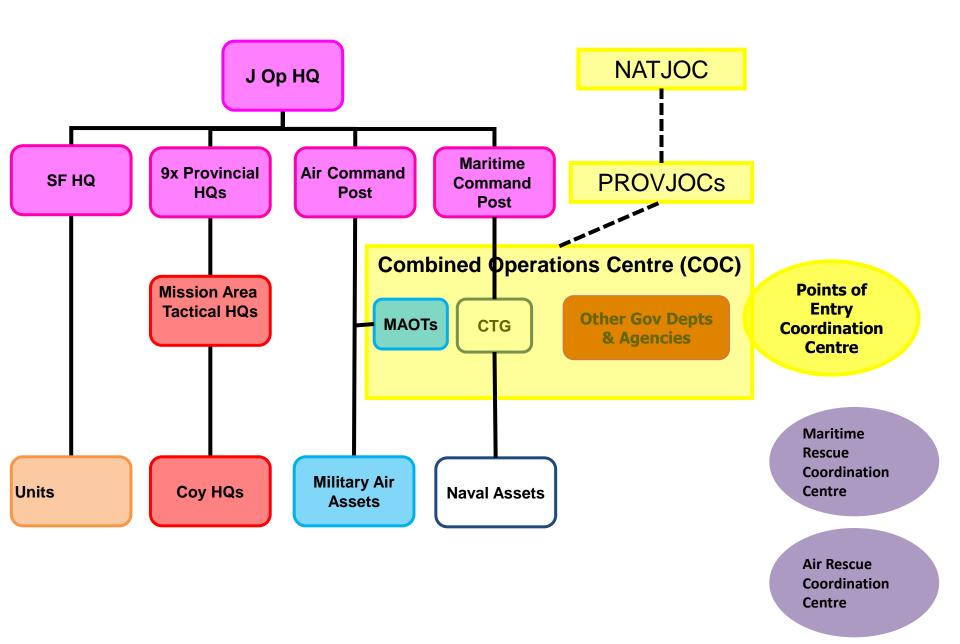
Maritime Security Framework



Way Forward Proposal

- Focus to implement C2 in the Maritime environment (MDACs & Maritime Command Post)
- Utilise 2015 to consolidate all inputs and technologies utilised and implement where possible
- Propose 2015 to focus on C2 through C2 Board

Maritime Experiment C2 & Coordination





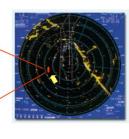
Maritime C2 Process

MDA Centres

Maritime Command Post

Vessel A
Characteristics
History
Crew
Passengers
Cargo





COLLECT

- Sensors
- Operators & Observers
- Intelligence Agencies
- Open Source
- Private Sector Data
- Government Departments & Agencies

FUSE

- Tracks with Tracks
- Tracks with Data
- Data with Data
- Ect.

ANALYSE

- Anomaly Detection
- Pattern
 Recognition
 & Analysi
- Research & Analysis
 Tools
- Intel ence
 Preparation

OF THE OF





Actions

Displays

Sense-Making Decision-Making

Tasking

Fuse

Analyse

Disseminate

Collect

PLAN - TASK - CONTROL

Levels of Maritime Command



Maritime Command Post Concept

Coastal	Pict Plan	N2 Int		N3 Ops		N	N5 Plans	
Sit Awareness	Task Control	Sit Awareness	Plan Task	Sit Awareness	Plan Task	Sit Awaren	Plan Task	
Air Picture		7 tival on occ	Control	COP – Maritime Cmdr		dr	Control	
Sit Awareness	Plan Task			Sit Awareness	Plan Task	iur		
Surface Pict Control Control								
Sit Awareness	Plan Task Control	Government Departments & Agencies						
Sub-Sur	Pict							
Sit Awareness	Plan Task Control							
Mission 1		N4	N1	N6	N7 Trg &	N8 Fin	N9 Legal	
Sit Awareness	Plan Task Control	Log	Pers	Comms	Doctrine		& PRO	
Mission	_	Sit Awareness	Sit Awareness	Sit Awareness	Sit Awareness	Sit Awareness	Sit Awareness	
Sit Awareness	Plan Task Control	Plan Task Control	Plan Task Control	Plan Task Control	Plan Task Control	Plan Task Control	Plan Task Control	

Questions/Discussion