ARMSCOR
Armaments Corporation of South Africa SOC Ltd

EASTERN AFRICA: BEYOND PIRACY

SEPTEMBER 2013

Good Order at Sea and Technology
Dar Es Salaam

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INTRODUCTION

The African Continent is becoming hot property on the planet.

So are the oceans surrounding it.

The health and resources of our oceans are becoming vital to our planet.

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SCOPE

This paper/presentation is aimed at
- good order at sea
- the utility of technology to attain, maintain and sustain that and
- a broad attempt at the cost involved.

Will not address:
- war fighting
- terrorism
- piracy

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GOOD ORDER AT SEA

- **Legislative / regulatory frameworks**

  - **International (ILO, IMO, IHO)**
  - **National (customised maritime legislation)**
  - **Fragmentation of authority at national and International level.**

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GOOD ORDER AT SEA

At a basic level:

- **Rule of the Road / Vessel traffic schemes**
- **Certification/licencing of crew and masters**
- **Seaworthiness of vessels**
- **Accurate weather prediction (tropical cyclones off the East Coast of Africa)**

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GOOD ORDER AT SEA

- **Safe Navigation**
  - **Rule of the Road**
  - **Seaworthiness**
  - **Pollution control**
  - **Weather prediction**
  - **Collision avoidance**
  - **Marine/Fisheries research**

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LAW ENFORCEMENT

- Vessel compliance
- Personnel compliance
- Rogue "compliance" (pirates?)
- Persistent surveillance to monitor behaviour.
- Capacity to respond appropriately (SAR, pollution control, SOLAS).

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GOOD ORDER AT SEA

End to be achieved

- Good maritime governance
- Compliance
- Efficient, clean ocean transport

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MANY DO NOT DO'S

- Do not pollute (including toxic waste)
- Do no smuggle (people, drugs, arms)
- Do not plunder fish
- Do not ground!
- Do not collide
- Do not ruin the environment in the quest for fossil fuel (oil, gas)
- Do not be "ungreen" in the technology that you utilise

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TECHNOLOGY

What is technology?

- Creating things (artefacts, machines, tools) and knowledge/science to make things better, quicker, faster, more efficient)
- Whilst at the same time protecting the environment, the oceans, our resources, out planet.

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TECHNOLOGY: What is available?

- **Satellites (Sensors/AIS)**
- **Maritime Patrol Aircraft (MPA)**
- **Unmanned Aerial Vehicles (UAVs)**
- **Land-based systems and sensors (Radar, AIS, OTH)**
- **Patrol vessels**
- **Underwater capabilities**

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WHAT DO WE DO WITH IT?

- Integrating all this information into a composite picture.

- Providing information required in the format wanted by every stakeholder.

- Sharing this information in the region, over the continent, worldwide.

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COST

- **What does it cost not to know?**

- **Benchmark?**

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