



Strength Through Unity



SMART TECHNOLOGIES: LEVERAGING TECHNOLOGY TO ENHANCE PHYSICAL PORT SECURITY

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Presentation Outline

- **SITUATING PORT OPERATIONS WITHIN THE WIDER MARITIME SECURITY ENVIRONMENT**
 - **An Overview of the Digital Footprint on the Criminogenic Environment of the Caribbean**
 - Opportunities and Risks to Security in Caribbean Port and Maritime Environments
- **TOWARDS INCREASED EFFECTIVENESS OF PORT AND MARITIME OPERATIONS: THE CASE OF AI**
- **RECOMMENDED COLLABORATION WITH THE RSS**



PURPOSE & FUNCTION

- PREVENTION AND INTERDICTION OF TRAFFIC IN ILLEGAL NARCOTIC DRUGS
- RESPONSE TO NATIONAL EMERGENCIES / DISASTERS
- REGIONAL SEARCH AND RESCUE
- IMMIGRATION CONTROL | CUSTOMS AND EXCISE CONTROL
- MARITIME POLICING DUTIES | FISHERIES PROTECTION
- NATURAL AND OTHER DISASTERS
- POLLUTION CONTROL
- COMBATING THREATS TO NATIONAL SECURITY
- PREVENTION OF SMUGGLING
- PROTECTION OF OFF-SHORE INSTALLATIONS AND EXCLUSIVE ECONOMIC ZONES



WHAT DOES THE RSS DO?

Assess, design & execute collaborative tailor-made solutions to predominant security concerns

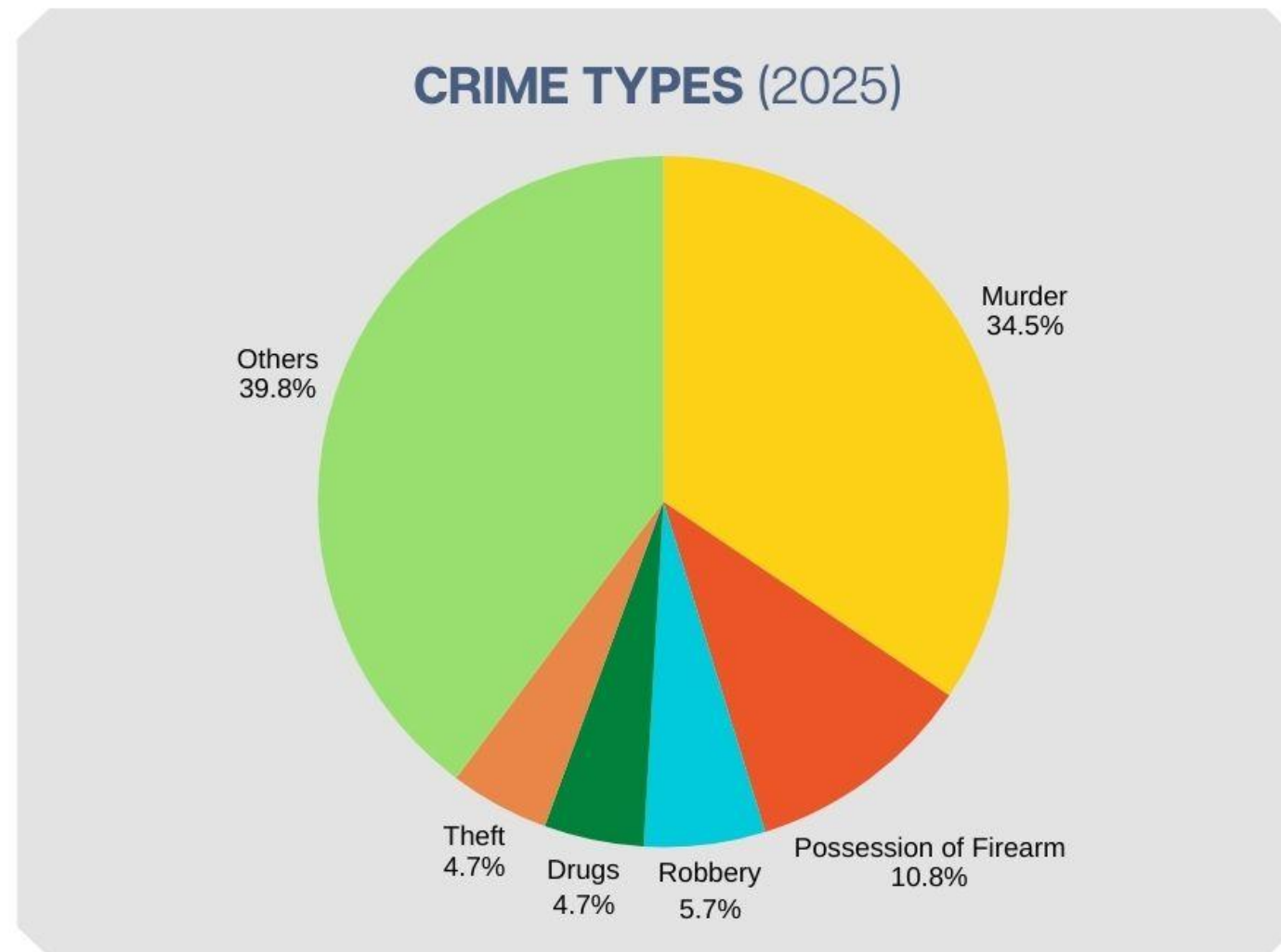
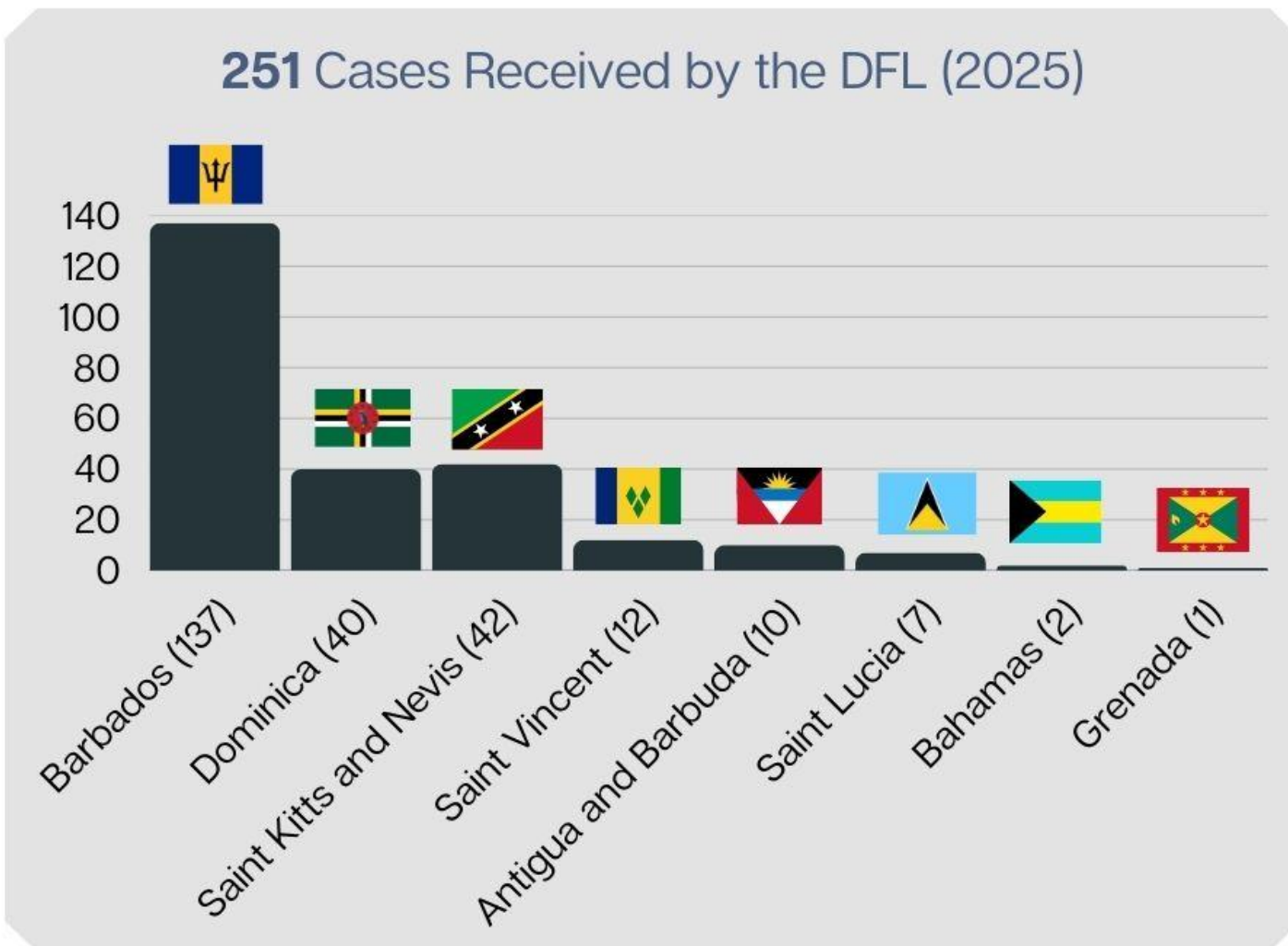
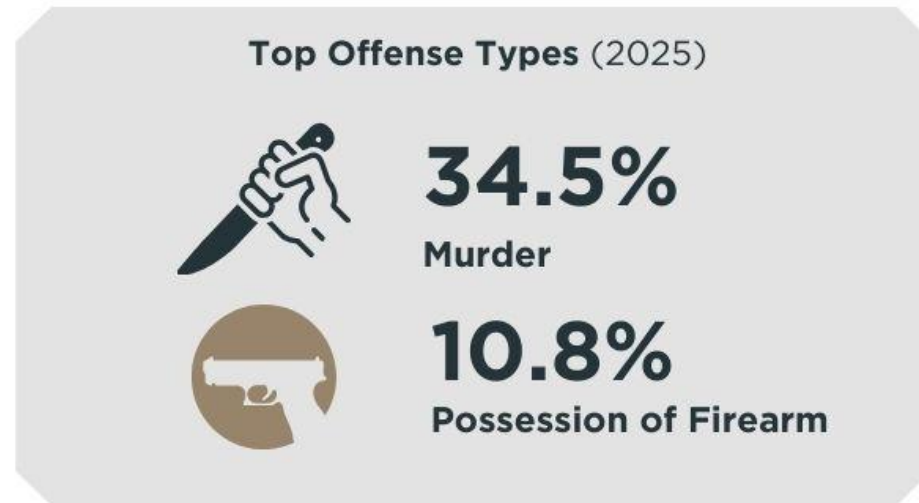
- A coordinated approach to research/ domain awareness
- A coordinated approach to enhancing legislative frameworks
- A coordinated approach to enhancing and leveraging national and joint operational frameworks



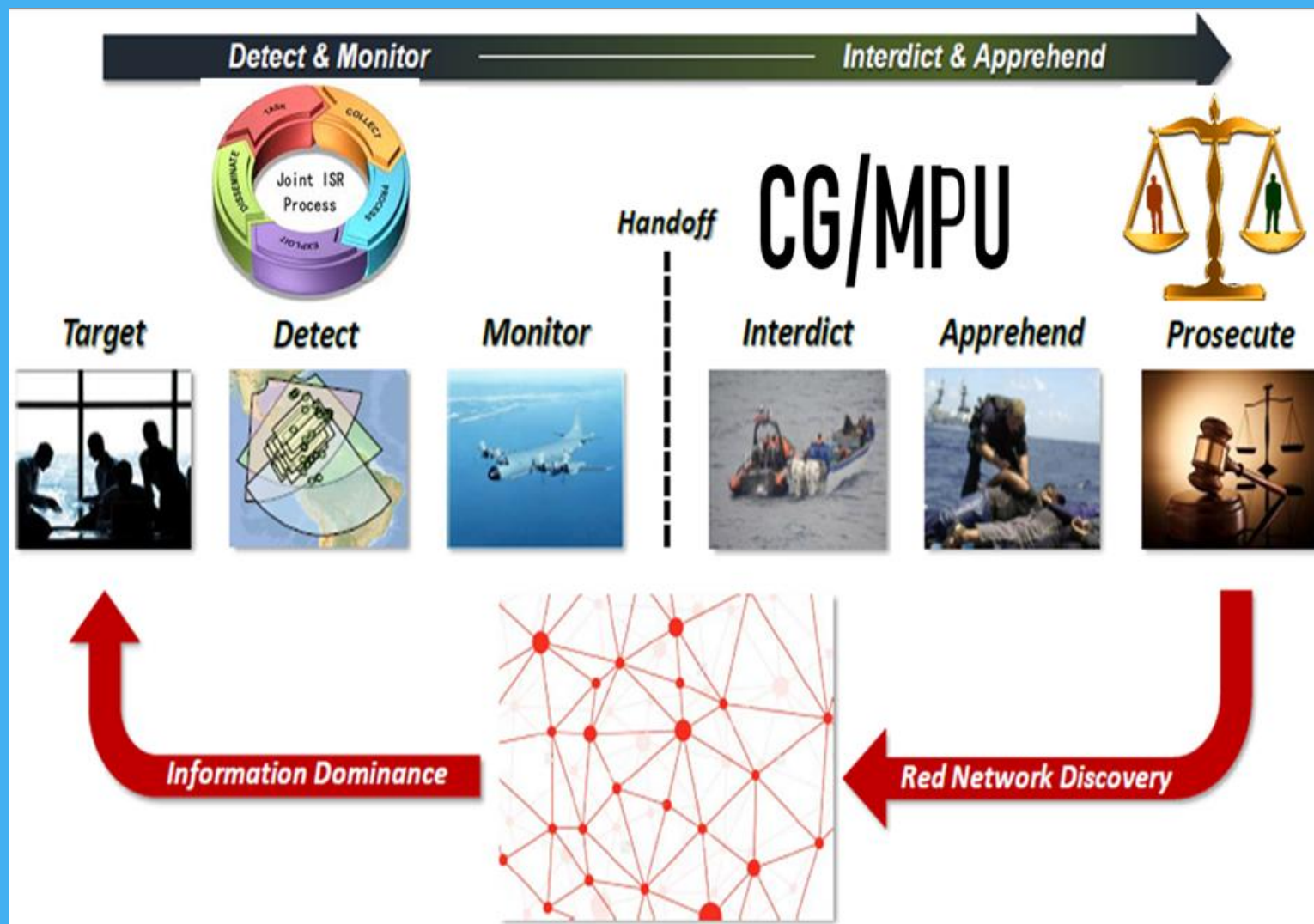
THREATS IN THE RSS AOR



ACHIEVEMENTS OF DFL (Jan- Dec 2025)



What is Required for Effective Port Operations?



AWARENESS & DETECTION

Patrols (Surface & Air Assets)

COLLABORATION/INTEGRATION

Integrate within wider info gathering and operations framework

JOINT OPERATIONS

Operations involving various competent authorities across jurisdictions based on the nature of the case being investigated.



Leveraging AI for Improved Port and Maritime Security

Complex Environments

Ports are no longer merely a physical gateways but complex security environments, handling the movement of people, commodities and vessels.

Scale of Trade

With the increase in the volume of regional and international trade traditional surveillance methods are no longer feasible.

National Security

A poorly secured port is a national vulnerability, risking the safety and integrity of the entire nation.

LEVERAGING AI SYSTEMS: KEY BENEFITS

Surveillance and Detection

- Mining large volumes of data (cameras for faster detection of suspicious activity, illicit substances etc)
- Profiling against known patterns/indicators of illicit activity
- Incorporation of AV and drones etc to support patrol of port and maritime zones
- Integrated intelligence collation system across port and maritime agencies for national risk profiling

Predictive Analytics for Improved Risk Assessment

- Mining large volumes of historical data from several sources (pattern recognition and risk rating)
- Proactive threat management, mitigation against potential future security breaches

Enhanced CyberSecurity Planning nad Foresight

- Monitoring network traffic etc for anomalies
- Detection of malware or other unauthorized attempts
- Rapid response to cyber incidents etc.

Improved Target Hardening/Protection of Critical Spaces/Classified Information

- Prevention of unauthorized entry to sensitive zones
- Enhanced personnel tracking with fusion of biometric data and real time monitoring from cameras



SUSTAINABLE PATHWAY TO ONBOARDING AI SYSTEMS: SYNERGIES WITH RSS HQ AI Programme to Support RSS MS

Setting the Foundation: Effective Governance Framework for AI Use

Strengthening Capacity: Training & Workforce Development

Technology and Infrastructure



Discussion

Let's talk about it!



Get in Touch

We'd love to hear your thoughts

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REGIONAL SECURITY SYSTEM STRENGTH THROUGH UNITY

