TECHNOLOGY FOR MARINE PROTECTED AREAS (*MPA*) & FISHERIES ENFORCEMENT PRESENTATION

COMPREHENSIVE SECURITY SOLUTIONS INC.

COMPANY PROFILE

- Comprehensive Security Solutions Inc. was formed in 2008 with the aim of providing a trusted security name in the business community. We specialize in providing professional effective security services.

- At Comprehensive Security Solutions Inc. (C.S.S.I) we recognize that security is an integral part of our clients' life; therefore we are determined to provide our clients with quality reliable services and products. We also offer consultancy on security matters and provide customized services to suit our client's individual needs.

COMPANY PROFILE

MISSION STATEMENT

- To provide effective security services that reduces loss and increase profitability.

VISION STATEMENT

- To partner with local and regional law enforcement agencies to protect and provide safer communities through the merger of people and technology.

FEATURES OF THE AP3 FOR MPA'S & FISHERIES ENFORCEMENT

Our system was designed to enable the following;

- Allow vessel owners to monitor the location of their vessels anywhere at sea.

- Monitor the device battery level and temperature and provides a panic button for assistance.

- Enables the Fisheries and Law Enforcement Departments to monitor MPA's to ensure prolong livelihood for the industry by reducing overfishing in key areas.

- Provide pin-point location for Search & Rescue (SAR) operations.

FEATURES OF THE AP3 FOR MPA'S & FISHERIES ENFORCEMENT

- Provides easy access to vessel, crew information and photographs.

- Geo-fencing of the Harbour and Ports of Entry to receive notifications of vessels activity.

- Receive report of tampering of units installed on vessels via email and platform.

- Receive report of attempt to interrupt the vessel's Satellite signal.

- Vessel owners & Fisheries can receive automated reminders of fishing license expiration.

FEATURES OF THE AP3 FOR MPA'S & FISHERIES ENFORCEMENT

- **These photographs display some of the various types of vessels our solar powered, waterproof satellite tracking unit has been installed. The system is used as a standalone or integrated with panic button for emergency notification**

- **A perfect solution for vessels with or without a battery from the onboard engine.**

FEATURES OF THE AP3 FOR MPA'S & FISHERIES ENFORCEMENT

- The photographs displays the AP3 installed on a vessel and with its low profile is perfect for unobstructed installations.

- The option of using an electrical power line is available.

EXPERIENCE ROBUST FLEXIBILITY
DEVICE DESIGNED TO TRACK AND MONITOR ANY REMOTE ASSET

Benefits of the AP3 as Your Solution

- **Track and monitor any remote asset.**

- **Configurable reporting schedules –transmit location only when needed.**

- **Ensure continuous equipment operation with global connectivity and 10 year battery life even on low sunlight and frequent reporting.**

- **Multiple communication options –select from 100% truly global pole to pole Iridium satellite coverage or from cellular network based on your business requirements.**

- **Receive immediate alerts upon entry and exit of locations.**

- **Real-time sensor processing features for advanced analytics.**

- **Receive alerts, alarms and quickly identify problems as they occur; when device is removed, when asset is stolen and many more.**

- **One device for multiple market applications .**

2/13/2020

THE IMPORTANCE OF THE APPLICATION

SECURITY OF BORDERS

- As the world's fishing population continues to decline, government bodies are increasingly adopting Vessel Monitoring Systems (VMS) to protect the stock and regulate the industry. VMS also helps to monitor the activities of foreign flagged vessels fishing under bilateral, multilateral agreements, by assisting the Coast Guard with vessel identification, deterrence and apprehension.
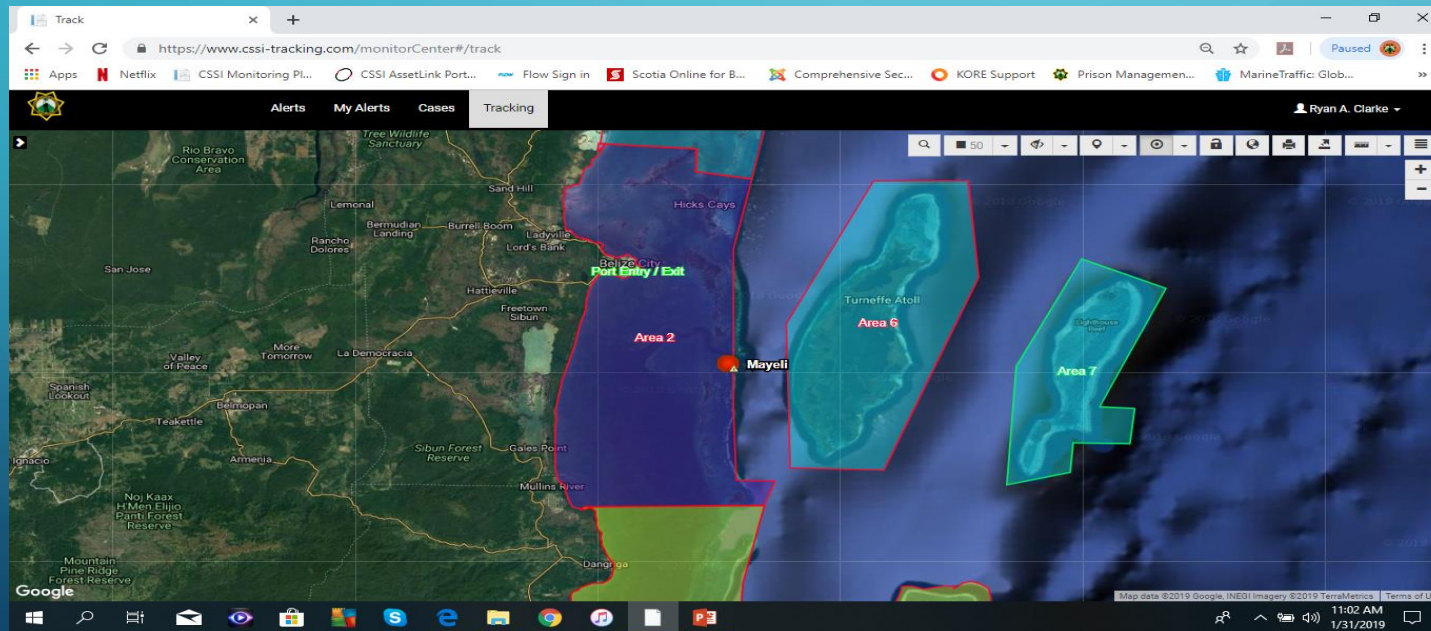
THE IMPORTANCE OF APPLICATION

SECURITY OF BORDERS

- To ensure compliance with the notification of vessel owners submitting scheduled "Trip Reports" VMS allows for the creation of unlimited geofences to alert law enforcement authorities via email notification when vessels leaving or arriving "home" without going through correct "departure procedures."

- Our solution assist with keeping track of inspection of vessels, enforcement of licenses and much more.

THE IMPORTANCE OF APPLICATION

SECURITY OF BORDERS

Geofencing Zones (red highlighted circle or any other shape) are points of interest identified to send alerts to authorized recipients.

Geofencing shows:

1. **Vessel has entered territorial waters.**
2. **Vessel has left or entered port of entry**
3. **The red circle represents Geofenced zone.**
4. **Unlimited quantity of zones can be created by the administrator.**

THE IMPORTANCE OF APPLICATION

MONITORING OF VESSELS AT SEA

- The tracking page view shows the exact location of all your assets at sea and can be viewed in MAP or Satellite view.

- There is also an information box that displays vessel identification, start and time of last activity, time the device last reported to the platform, speed, position in Longitude and Latitude, DMS co-ordinates, estimated distance traveled, ignition status, points of interest and battery level.

THE IMPORTANCE OF APPLICATION
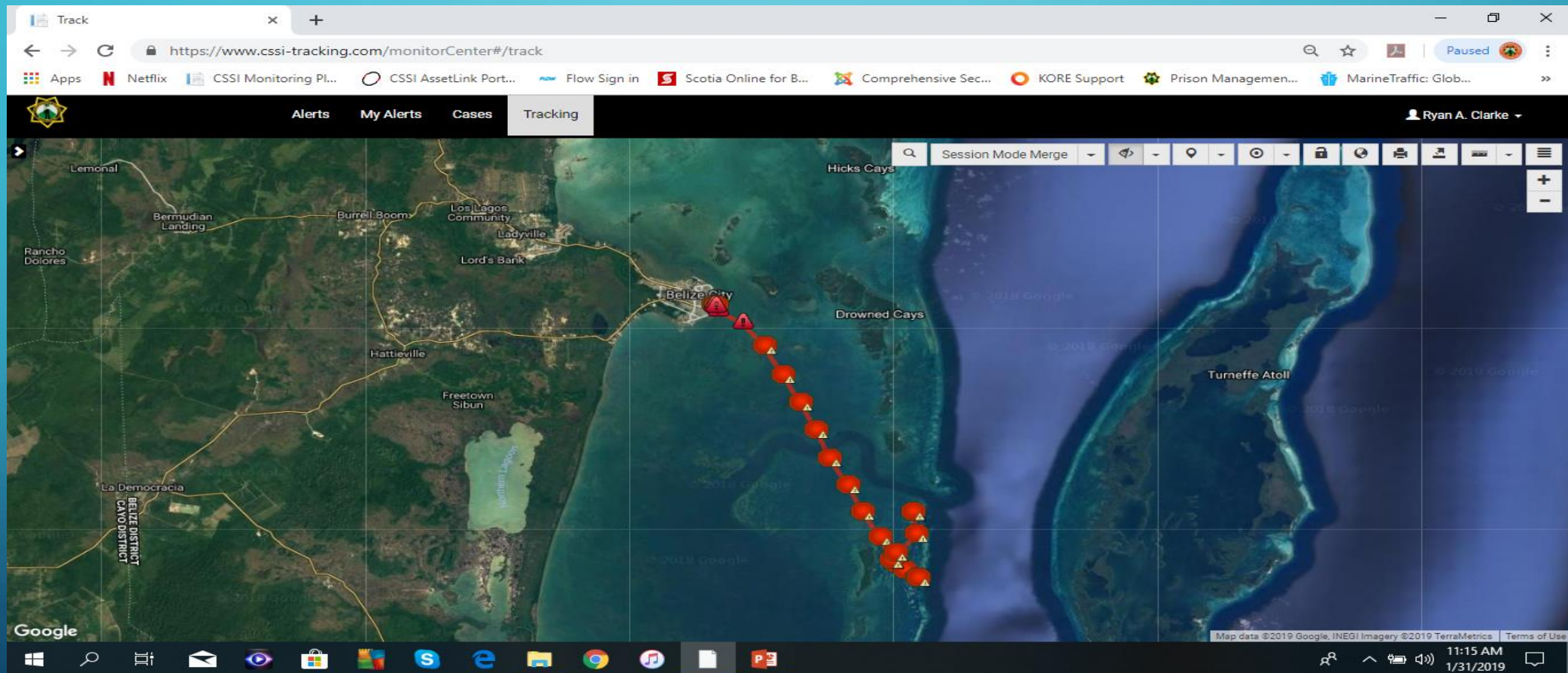
MONITORING OF VESSELS AT SEA

THE IMPORTANCE OF APPLICATION
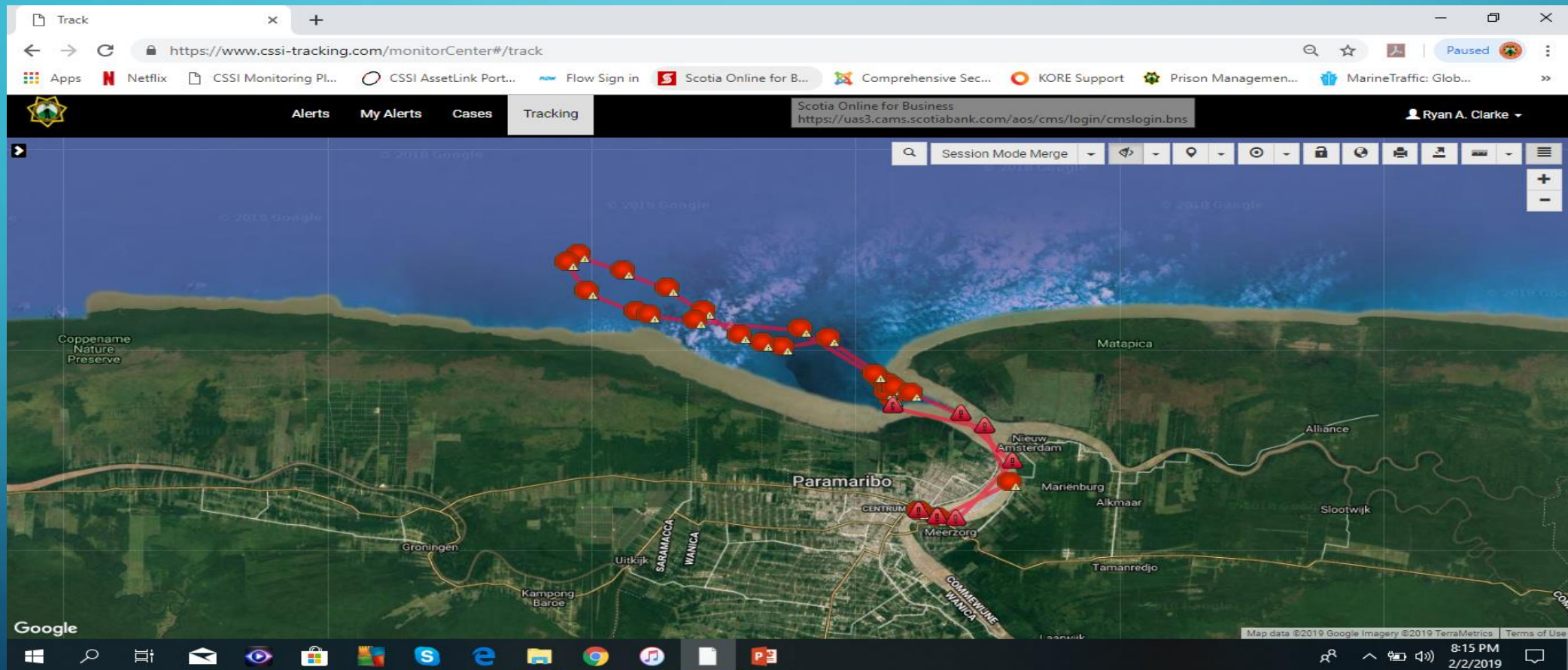
MONITORING OF VESSELS AT SEA

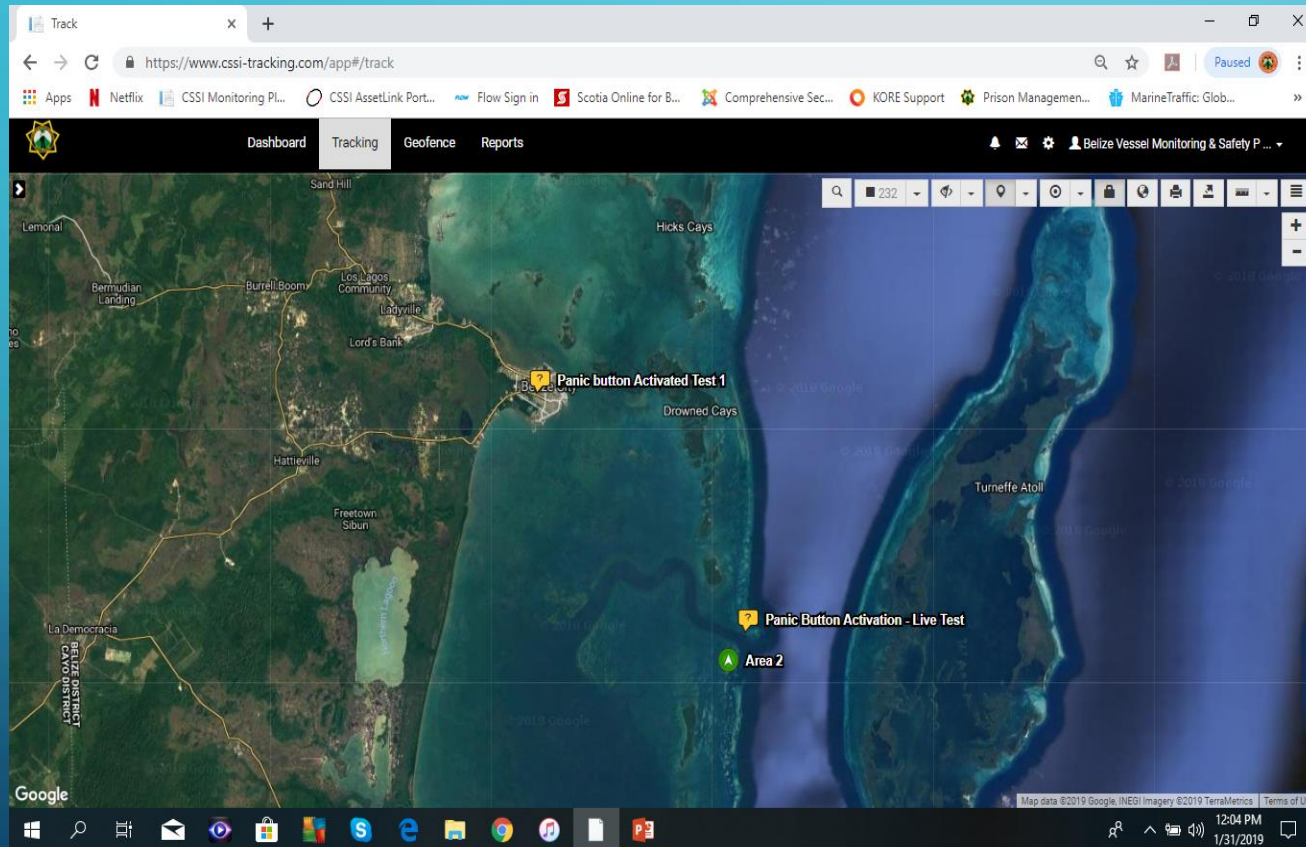# THE IMPORTANCE OF APPLICATION

MONITORING OF VESSELS AT SEA – POINT OF INTEREST (POI)

- The use of Points of Interest (POI) can vary as tagging locations when panic alerts or received.

- To notify agencies when the POI's buffer has been entered or exited.

- POI's can be a great tool for analytical data.

THE IMPORTANCE OF APPLICATION

VESSEL ACTIVITY REPORTS

- Vessel Activity Reports enable users to generate reports that can be extracted for detailed review. Reports can also be used for historical data to review "catch areas" during specific periods. Likewise our reports are tangible proof and can be exported to be presented as evidence.

- Reports can be customized to extract geofence, tampering or panic button reports only for precise reports.

- After the user has downloaded the report options are available to save directly to the platform, download to computer or memory drive, save and send to email recipients.

- Reports can be programmed to be automatically generated and sent to dedicated recipients.

THE IMPORTANCE OF APPLICATION

VESSEL ACTIVITY REPORTS

SUMMARY – BENEFITS OF THE SOLAR POWERED AP3

- Monitor and manage fishing fleets for reliable ship-to-shore communications

- Enhance security by protecting crew members and guide rescue operations

- 10 year service life with zero maintenance, Solar-rechargeable battery with power save modes, Easy installation in minutes, IP67 Rugged enclosure, Intrinsically Safe for HAZLOC and HAZMAT, True two-way 100% global connectivity, On-board geofencing for immediate arrival and departure alerts, On-board memory for advanced sensor based applications, Over-the-air and local programming. Built-in motion sensor, Built-in temperature sensor and Optional AES 256 Encryption.

SUMMARY – BENEFITS OF THE SOLAR POWERED AP3 FOR VMS

- **Sensitization of Vessel owners and crew to the benefits of VMS for safety at sea, reporting illegal activities and safe guarding their livelihood.**

- **Use of POI's for immediate analytical data to enhance safety and security.**

- **The AP3 has many usages as a solar powered unit but a power line is optional and has global coverage.**

- **The sea is a community without easy accessible law enforcement presence where fishermen must be encouraged to adopt the slogan, "SEE SOMETHING SAY SOMETHING."**

THANK YOU!

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