

# The Coastal First Nations' Regional Monitoring System



*Presentation For:*  
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# Outline of talk

- Coastal First Nations – Coastal Stewardship Network
- History of the Regional Monitoring System (RMS)
- Who uses the RMS?
- What is the RMS?
  - Components
  - What is being monitored
  - How it is being monitored - CoastTracker
- Data Management System (DMS)
- Key Strengths of the RMS



# Coastal First Nations and the Coastal Stewardship Network

- Coastal First Nations is an alliance of Nations on BC's North and Central Coasts and Haida Gwaii
- The Coastal Stewardship Network (CSN) is a program of Coastal First Nations – Great Bear Initiative
  - Networking, collaboration, and communications
  - Training and professional development
  - Guardian Watchmen authority
  - Regional Monitoring System

# RMS Context and Beginning

- Guardian Watchmen and Stewardship Offices asked Network to develop RMS
- They wanted to:
  - Know more about what is happening in their territories
  - Be in control of their own data
  - Learn about what other Nations are doing
  - Work together to monitor issues and indicators they are all concerned about

# History and development of the RMS

- The system was launched in 2010
- Paper field cards to CoastTrackers in 2011
- Relational database developed in 2014
- RMS Coordinator hired in 2015
- Redevelopment currently underway

## GOALS



REGIONAL  
STANDARDIZED DATA  
COLLECTION



COLLABORATION  
BETWEEN NATIONS



GUARDIAN WATCHMEN  
CAPACITY, LEGITIMACY,  
AUTHORITY



ENGAGEMENT  
WITH RESOURCE  
USERS

EDUCATION  
& OUTREACH

COMPLIANCE  
MONITORING

# Who uses the RMS?

- First Nations on the Central Coast, North Coast and Haida Gwaii. Within those nations:
  - Integrated Resource Departments and Stewardship Offices
  - Guardian Watchmen, field crews, fisheries technicians and fisheries guardians

# What is it? - RMS components

- Standard methods for collecting data
- Field cards and CoastTracker Tablet
- Online Data Management System (DMS)
  - Input online or upload from CoastTracker
  - View data online (maps, tables)
  - Export raw data (KML, Excel)
  - Data access and permissions control
- Data for planning and decision-making
- Support in data collection & use from RMS Coordinator

# What is currently being monitored?

- Patrol effort
- Sightings of wildlife, boats, prawn and crab traps
- Tourists & their activities
- Impacts to cultural and ecological sites
- Suspicious activities
- Spawning salmon
- Tsunami debris
- Stream habitat



# How ? - CoastTracker Tablets



Wildlife sighting details (2/2)

Condition:

Healthy	Poor
Dead	Don't know

Behaviour(s)?  
Check any, and add description below if needed:

<input type="checkbox"/> Travelling	<input type="checkbox"/> Breaching	<input type="checkbox"/> Feeding
<input type="checkbox"/> Resting	<input type="checkbox"/> Mating	<input type="checkbox"/> Nesting
<input type="checkbox"/> Spawning	<input type="checkbox"/> Playing	<input type="checkbox"/> Vocalizing
<input type="checkbox"/> Other	<input type="checkbox"/> Don't know	

Tap to edit

Direction of travel, if any:

North-west	North	North-east
West	Don't know	East
South-west	South	South-east

Photos: 0. Add another photo.

# Web access to data

## My Nation - RMS Summary Statistics

### Patrol Report date

From date:

2012 May 30

To date:

2013 May 30

Filter this form

Type	Total
Cultural and Ecological Site Description and/or Site Visit	22
Suspicious Activity/Enforcement Incident	3
Enforcement Incident - Follow Up	1
Boat Sighting	39
Boats - Commercial Fishing	15
Other Boat(s), Vehicle or Aircraft	5
Boats - Sport Fishing	16
Boats - Tourist	3
Approached Tourists	1
Lodge Visit	1
Crab and Prawn Trap Sightings	12
Crab and Prawn Traps - Trap Details	12
Wildlife Sighting	17
Other Observations	10
Patrol Report	57
Stream Assessment	2

### • My Nation's RMS Data

#### • Patrol Reports

- [All Patrol Reports for Your Nation](#)
- [Download an Excel Spreadsheet of Patrol Reports](#)

#### • Enforcement Incidents

- [Table - Number of Enforcement Incidents Reported by Agency and Type - Your Nation](#)
- [Table - Summary of Enforcement Incidents Reported](#)
- [Map - Location of Occurrence of Enforcement Incidents in your Territory](#)
- [Download an Excel Spreadsheet of Raw Data](#)

#### • Ecological and Cultural Site Visits

- [Table -Summary of Concerns Reported During Cultural and Ecological Site Visits](#)
- [Map - Locations of Cultural and Ecological Sites Visits](#)
- [Download an Excel Spreadsheet of Raw Data](#)

## My Nation's RMS Data

Only Show Me:

<Any>

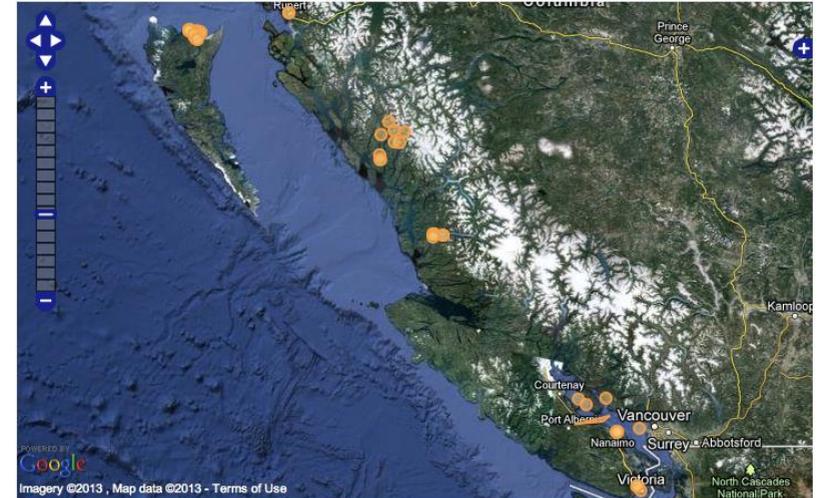
From date:

2012 May 30

To date:

2013 May 30

Filter this form

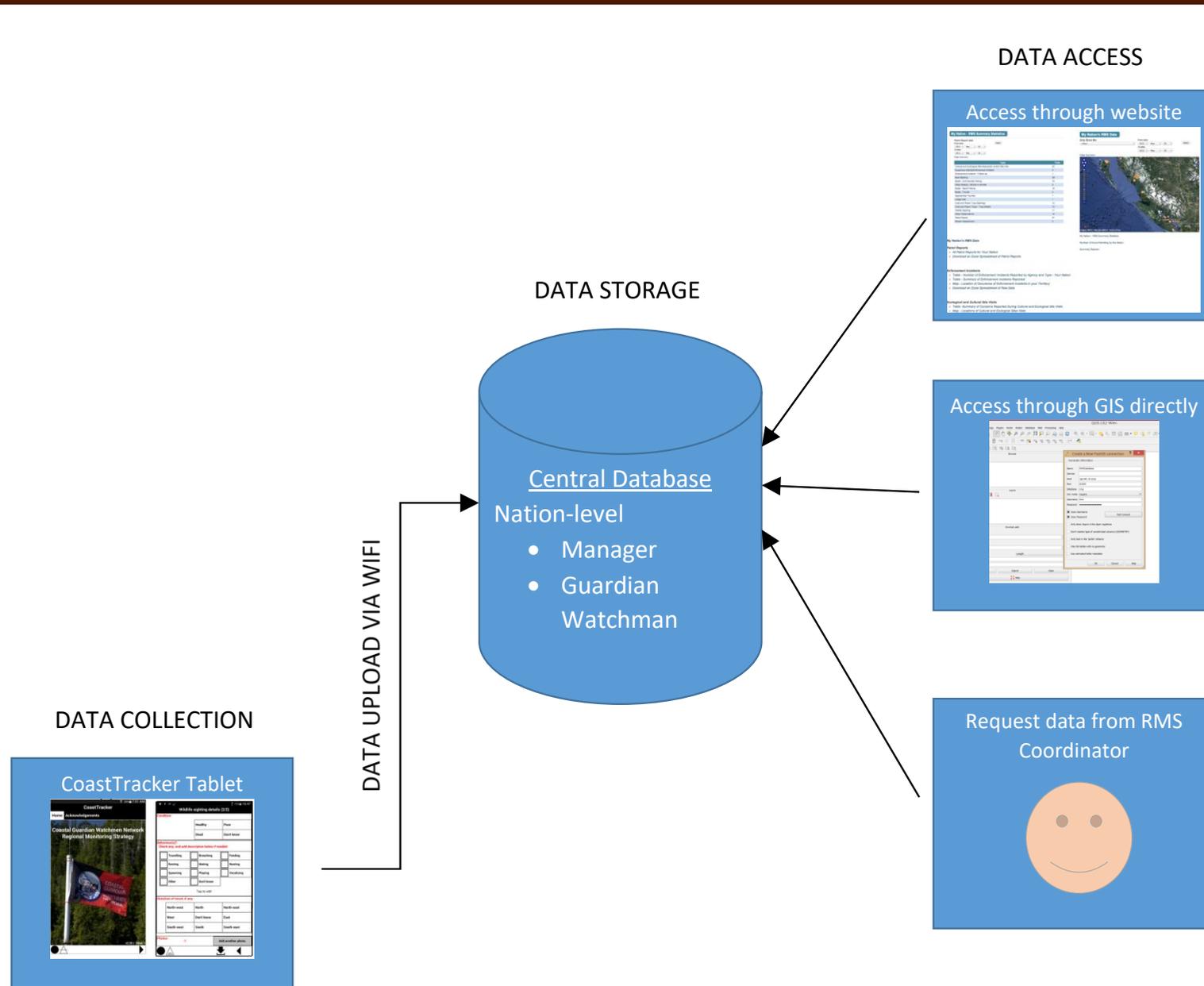


My Nation - RMS Summary Statistics

Number of Hours Patrolling by this Nation

Summary Reports

# RMS data flow model



# RMS Data Use

- Marine use plan implementation, assessment, revision
- Land use plan implementation and review
- Fisheries management
- Referral responses
- Support conservation of wildlife species
- Reports to community, Chief and Council, funders
- Offers a platform to come together for regional strategies, analyses, or projects

# Key Strengths of the RMS

## *Technological:*

- Can collect data '**offline**'
- **Easy to adapt** field forms
- Data online and in useful formats (**csv, shp, kml**)
- Data stored in **centralized relational database** in Richmond BC
- Take **photos** and voice memos

## *Other:*

- **Training, support and data QA/QC** available from CSN staff
- **Regular reporting** to Stewardship offices
- **Adaptable** to changing needs
- Fosters **collaboration** through sharing agreements

# Thank you! Questions?

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