The Coastal First Nations’ Regional Monitoring System

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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
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
Web access to data

My Nation - RMS Summary Statistics

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<th>Type</th>
<th>Total</th>
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<td>Other Observations</td>
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<td>Patrol Report</td>
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<td>Stream Assessment</td>
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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 Site Visits
  - Download an Excel Spreadsheet of Raw Data
RMS data flow model

DATA COLLECTION
Central Database
- Nation-level
- Manager
- Guardian
- Watchman

DATA STORAGE

DATA ACCESS
- Access through website
- Access through GIS directly
- Request data from RMS Coordinator

DATA UPLOAD VIA WIFI

CoastTracker Tablet
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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