FIRST NATIONS LAND MANAGEMENT RESOURCE CENTRE

Training, Mentorship & Professional Development

VIRTUAL WEBINAR

GIS Needs Assessment

Thu, July 2nd 2020

9:30 AM (PDT) – 60 minutes

Angie Derrickson

Manager, Training, Mentorship & Professional Development

TMPD Virtual Webinar Welcome

FIRST NATIONS
LAND MANAGEMENT
RESOURCE CENTRE

2020 Virtual Webinar Schedule

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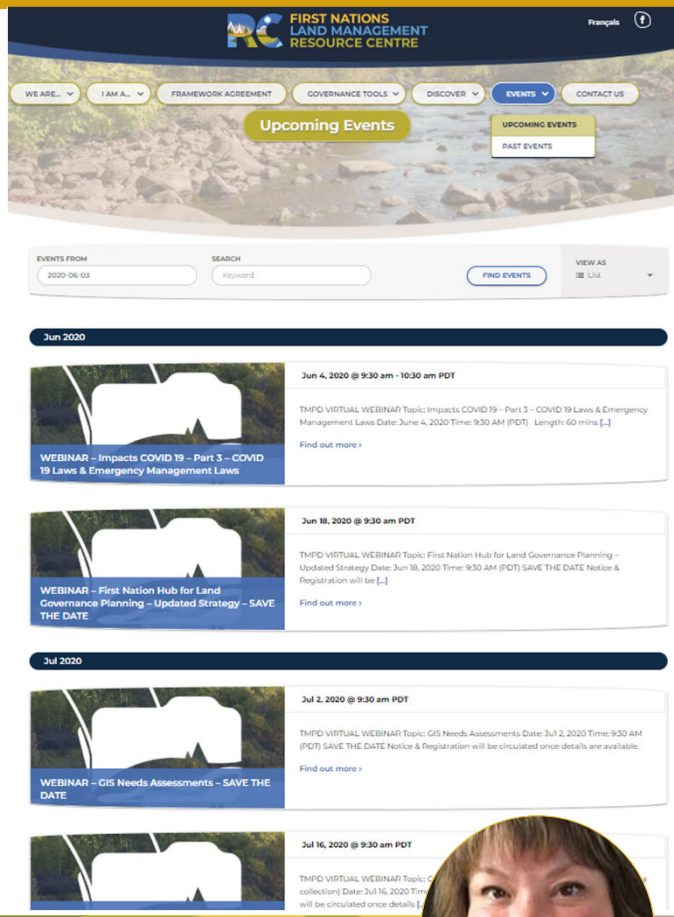
Training, Mentorship & Professional Development

TMPD Virtual Webinar & Workshop

2020 Schedule

6.	GIS Needs Assessments	Jul 2
7.	Community Engagement (techniques, online tools, data collection)	Jul 16
8.	Impacts COVID 19 – Part 4 – TBD	Jul 30
9.	Framework Agreement Background	Aug 13
10.	Matrimonial Real Property Laws under Land Code, NALMA-COEMRP Partnership	Aug 27
11.	Mines and Minerals, Oil and Gas, Surface Access – Title & OIC	Sep 10
12.	Planning, Planning Types and Integrated Planning	Sep 24
13.	Property Transfer Tax, TULO Partnership (Tzeachten Case Study)	Oct 8
14.	Impacts COVID 19 – Part 5 – TBD	Oct 22
15.	Lands Advisory Board – Annual General Meeting	Oct 27-28
16.	Different meanings of Consultation & Engagement across Canada	Nov 5
17.	ATR/TLE, TULO Partnership (Brokenhead Case Study)	Nov 19
18.	Individual Agreement – Roles, Responsibilities & Expectations	Dec 3
19.	Historical Treaties	Dec 17



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https://labrc.com/events/

TMPD Virtual Webinar Guidelines

Some administrative details to enhance the Webinar session:

1. Mute all your devices
2. Recording in Progress
3. SLIDO Questions, Comments, Closing Poll

TMPD Virtual Webinar Tools

sli.do

Virtual Webinar Questions & Poll

Connect laptop & mobile device to:

Website-App **www.sli.do**
Event Code **#TMPD-JUL-02**

SLIDO.com
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Presentation & Materials

are available online: **www.labrc.com/event**

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Agenda & Objectives

9:30	Welcome & Introduction
9:35	Defining GIS
9:40	GIS A Tool for Land Management under the FA
9:50	GIS Support Survey Results
10:00	GIS Needs Assessment
10:10	GIS Support Services & Future Tools
10:20	SLIDO Poll & Virtual Networking
10:30	Closing

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TMPD Virtual Webinar Presenters

Leeanna Rhodes

Specialist, Geographic Information Systems

Stephen McGlenn

Specialist, Land Use Planning & Curriculum Delivery

Zara Contin

Specialist, Traditional Knowledge

Framework Agreement

Signatory Support

Signatory Assistance

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TMPD Training, Mentorship & Professional Development

"Supporting First Nations to exercise their Inherent Right to govern their Lands and Resources."

What does GIS stand for? What is GIS?

G = Geographic = Geo referenced spatial representation used for mapping

I = Information = Data and Information that is linked to each feature in the map

S = System = Hardware that stores, prints, backs up, gathers and communicates

Tool for problem solving & aide in the decision-making processes

Presenting data results visually in a spatial environment. (Maps)

A GIS can do more than measure distance

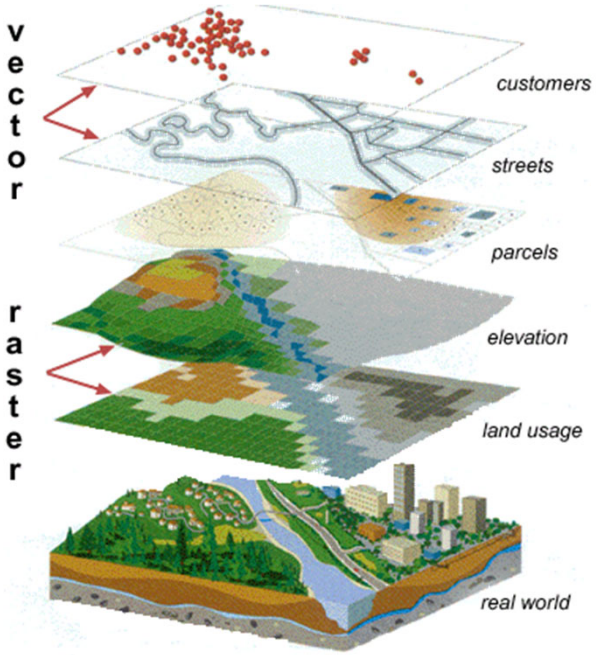
Geo-spatial data can be analyzed with GIS to determine:

- shared area relationships between features, e.g. soils and plants
- where the most and/or least of some feature exists and why e.g. Invasive Plants vs Native Plants near Primary right of ways
- the density of features in each space, e.g. Forest Species and Age Stands

Leeanna Rhodes
Specialist, Geographic Information Systems

GIS as a tool for Land Management under the FA

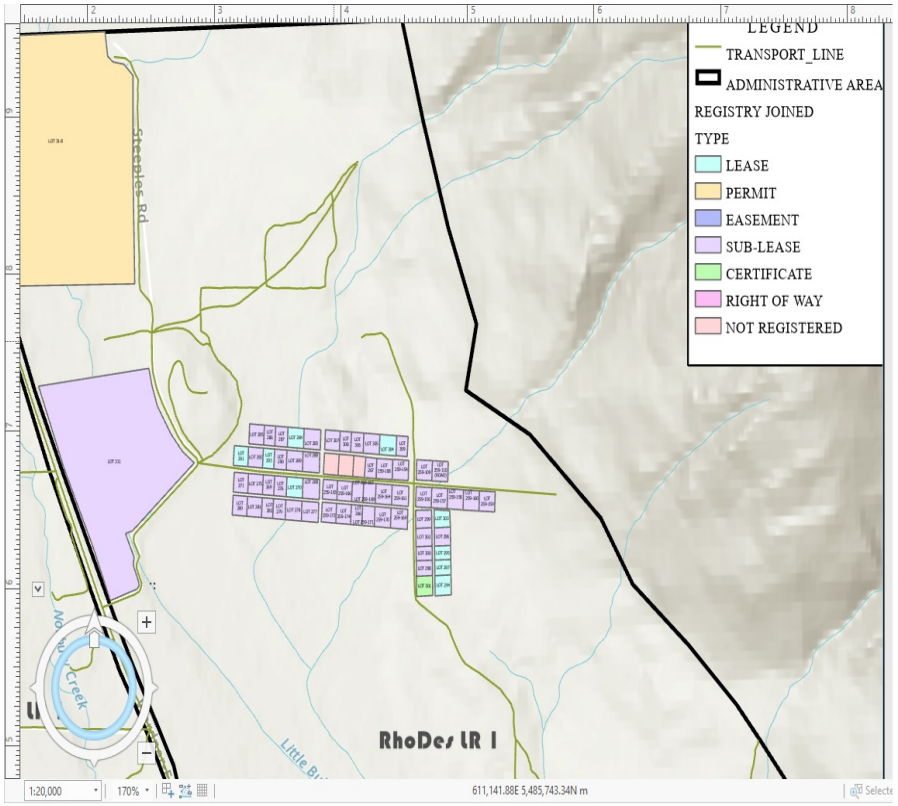
FRAMEWORK AGREEMENT sections 12, 18 and 23



Section 12 - Land Management Powers

- Authority to grant interests in relation to your land to manage its natural resources
- LUP, EMP, CCP
- GIS Ensures all your planning efforts are in sync

GIS as a tool for Land Management under the FA



GIS Applications

Section 18 Law Making Powers

Community Planning

- Build your own data
- FNLRS with NRCan as one file on one map
- Beneficial to see land designations

Asset Management

- Infrastructure mapping
- Housing inventory
- Housing & infrastructure related data

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GIS Applications

Land Development and Land Use Planning

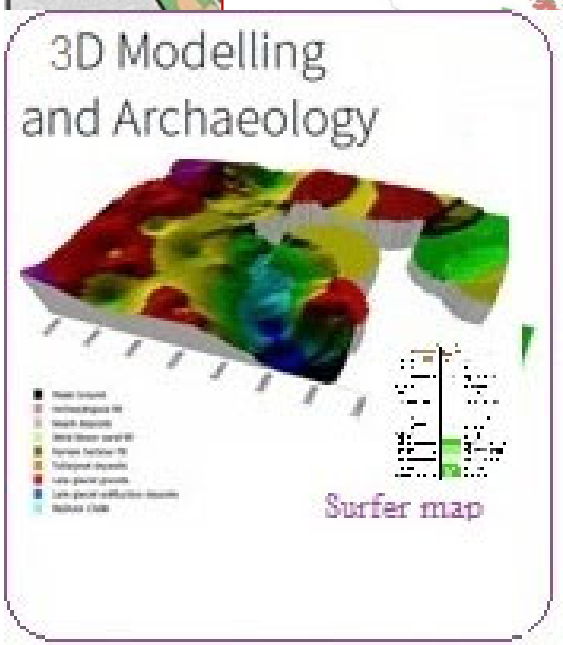
- Visioning, Development Concepts
- Land Use & Zoning
- Subdivisions
- Development Permitting
- Compliance Monitoring

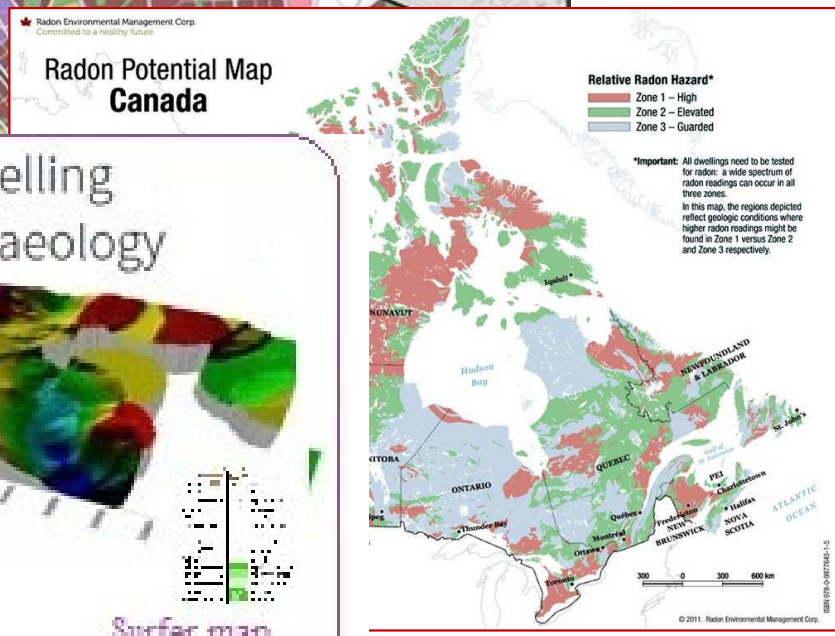
Environmental Management Planning

- Natural Areas & Parks
- Good Water quality (surface water & ground water)
- Reduce Contamination
- Plan for Climate Change
- Start with your Environmental Site Assessments

Heritage Management Plan

- Cultural mapping, use and occupancy
- Traditional Place names
- Best measure in the protection of these sites





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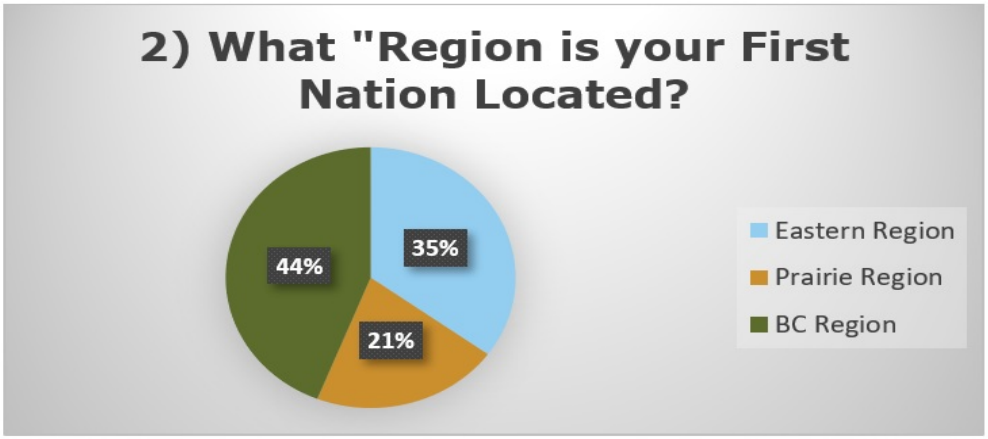
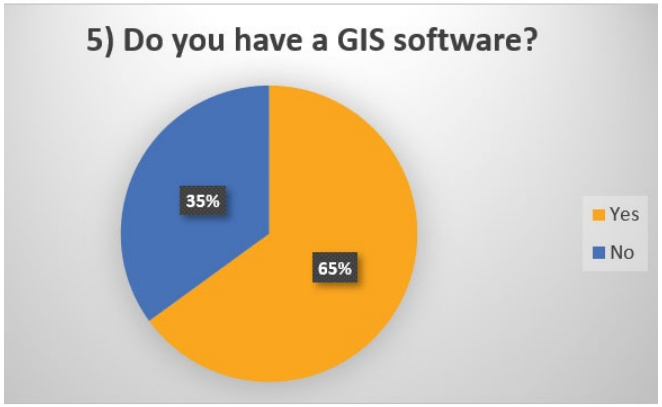
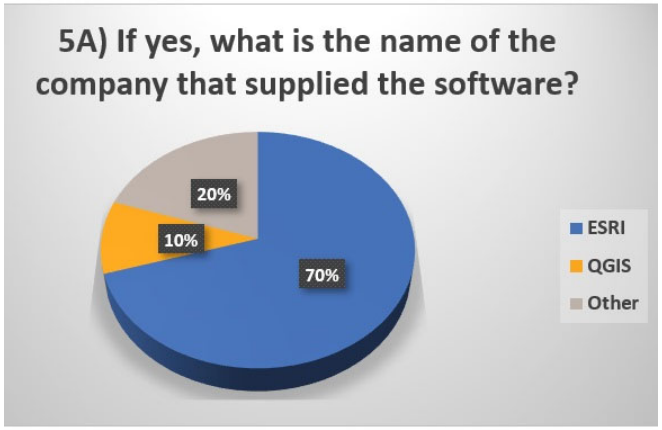
GIS SUPPORT SURVEY RESULTS

1) State your name, title, community and contact information.







- 58 Survey monkey, 22 phone survey totaling 80 participants
- 52 said yes to GIS
- Out of those 37 communities are using ArcGIS

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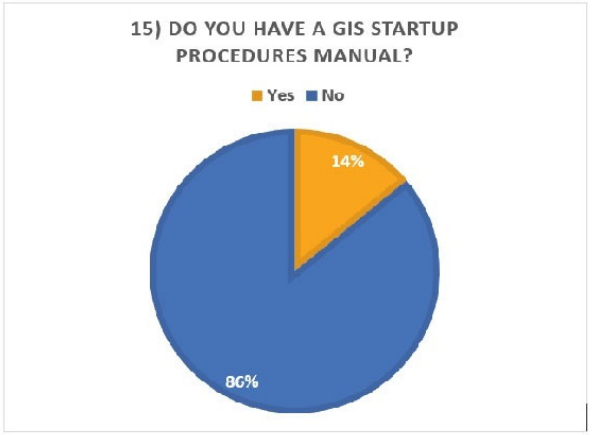
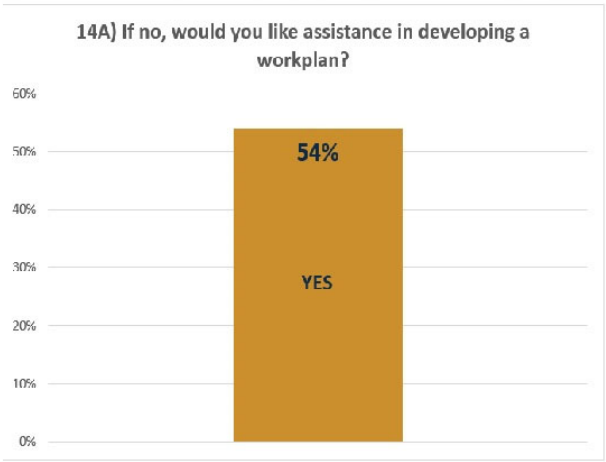
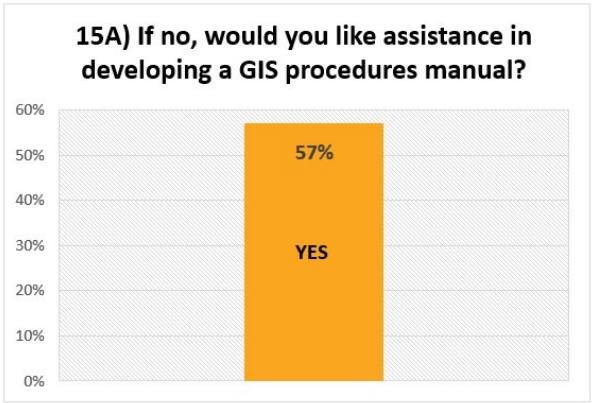
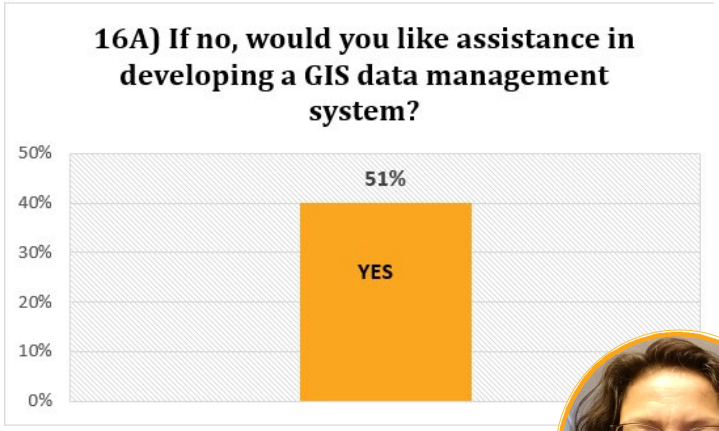
GIS SUPPORT SURVEY RESULTS









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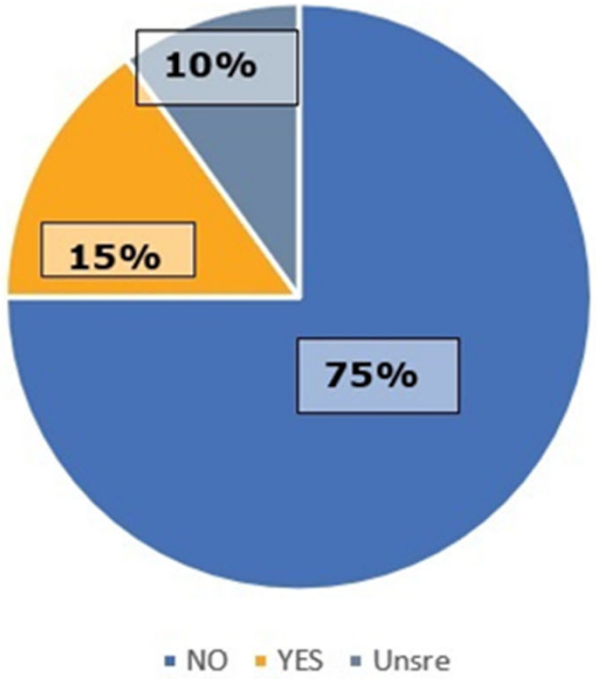
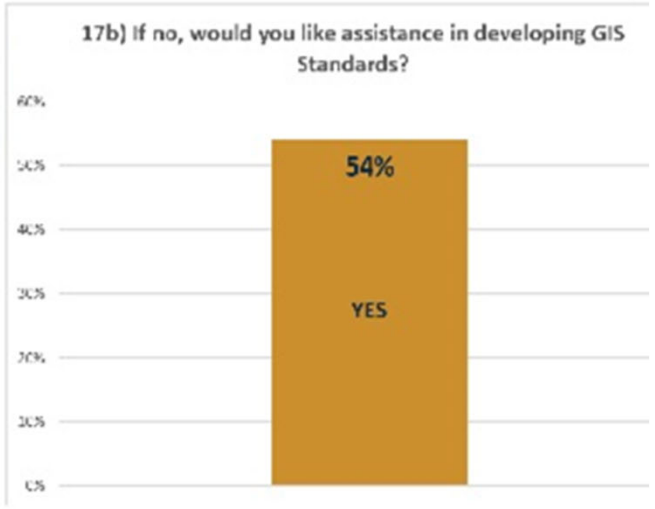
GIS SUPPORT SURVEY RESULTS

17) Do you have GIS standards setup?
Includes methodology, projections, symbology, scale etc.





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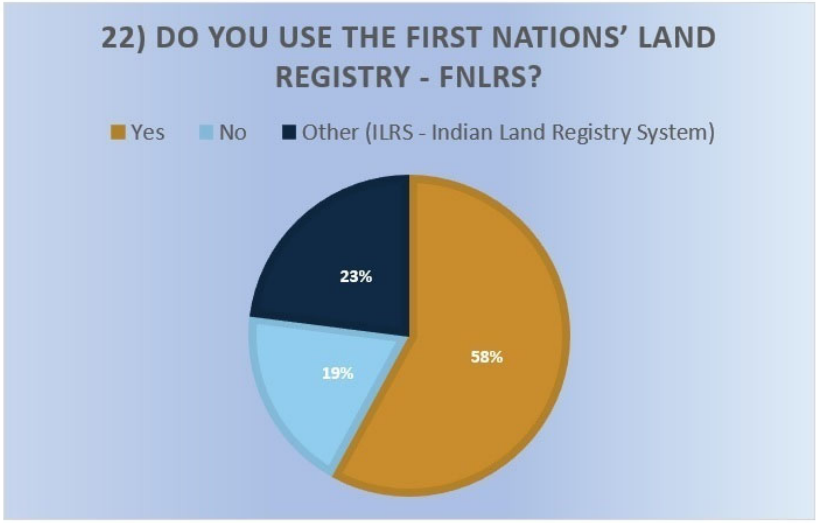
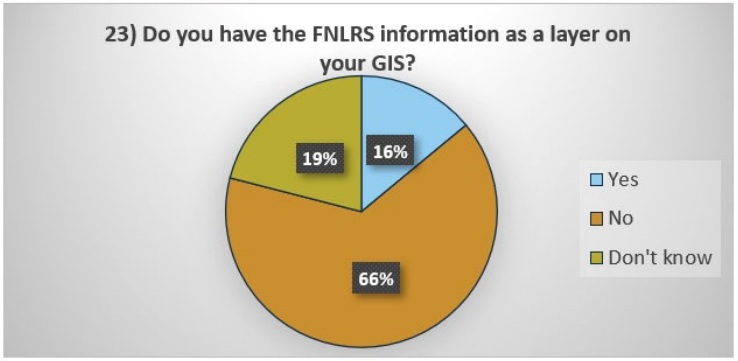
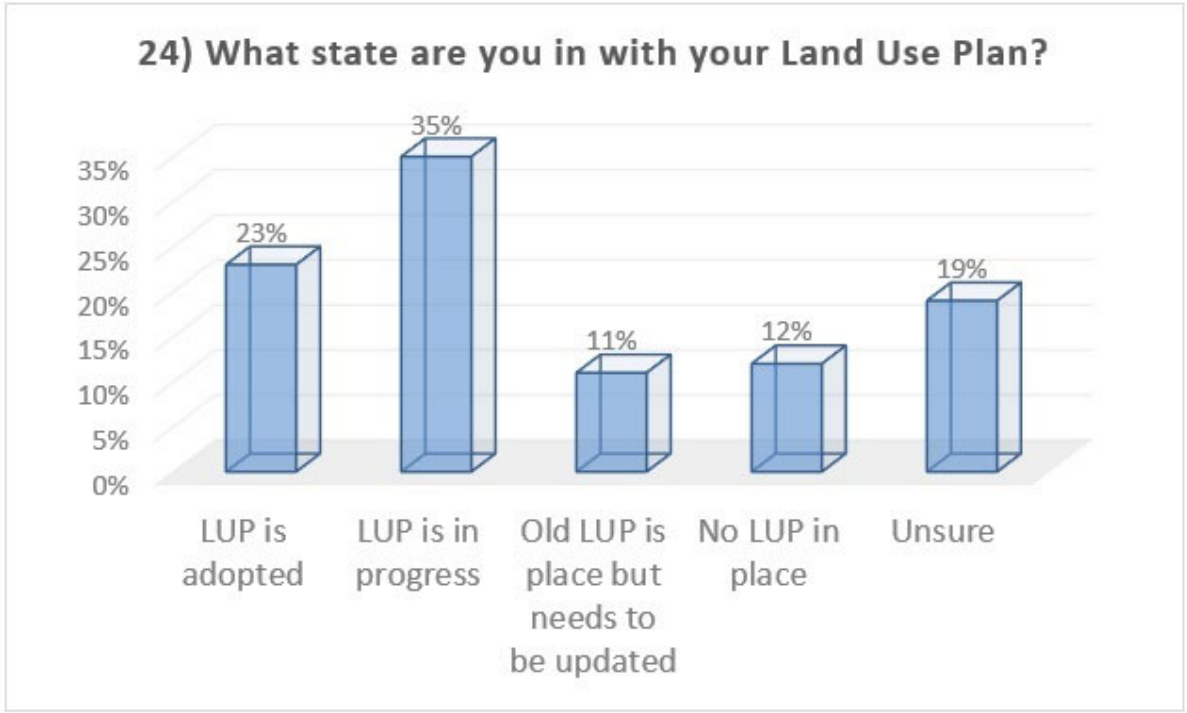
GIS SUPPORT SURVEY RESULTS







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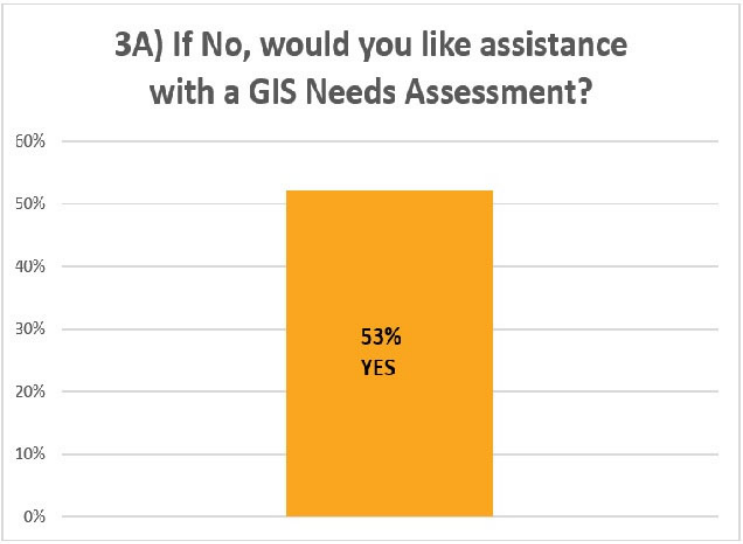
GIS NEEDS ASSESSMENT



- Building Tools and Templates from the results of the Survey
- 21 Yes, 58 No
- 31 of the 58 who said NO said Sure!
- My first tool, YAY!

GIS NEEDS ASSESSMENT

Assists in the Decision – Is GIS right for you?

Determine goals and objectives

1. **Building Capacity**
   Determine what components will need to be budgeted for

2. **Where will the GIS Office be?**
   Value, effectiveness and consider that department's budget

3. **Who will govern the GIS?**
   Conversations with Leadership to Land's committee

GIS NEEDS ASSESSMENT

Personnel

- Knowledgeable GIS User, 2 years experience
- maintain digital data, software updates

Hardware

- Computer, refer to the software requirements
- GPS, printer, plotter and more

Software – Requires research!

- Georeferencing, Editing, DB Connect and 3D Analysis
- Spatial Data requires a specific software for analysis

GIS Needs Assessment

Data

- Inventory of all data
- Digital or hardcopy maps
- Where to find existing data

Applications

- Agricultural, Oil & Gas, Mining
- Fire Assessment, Floods, Climate Change

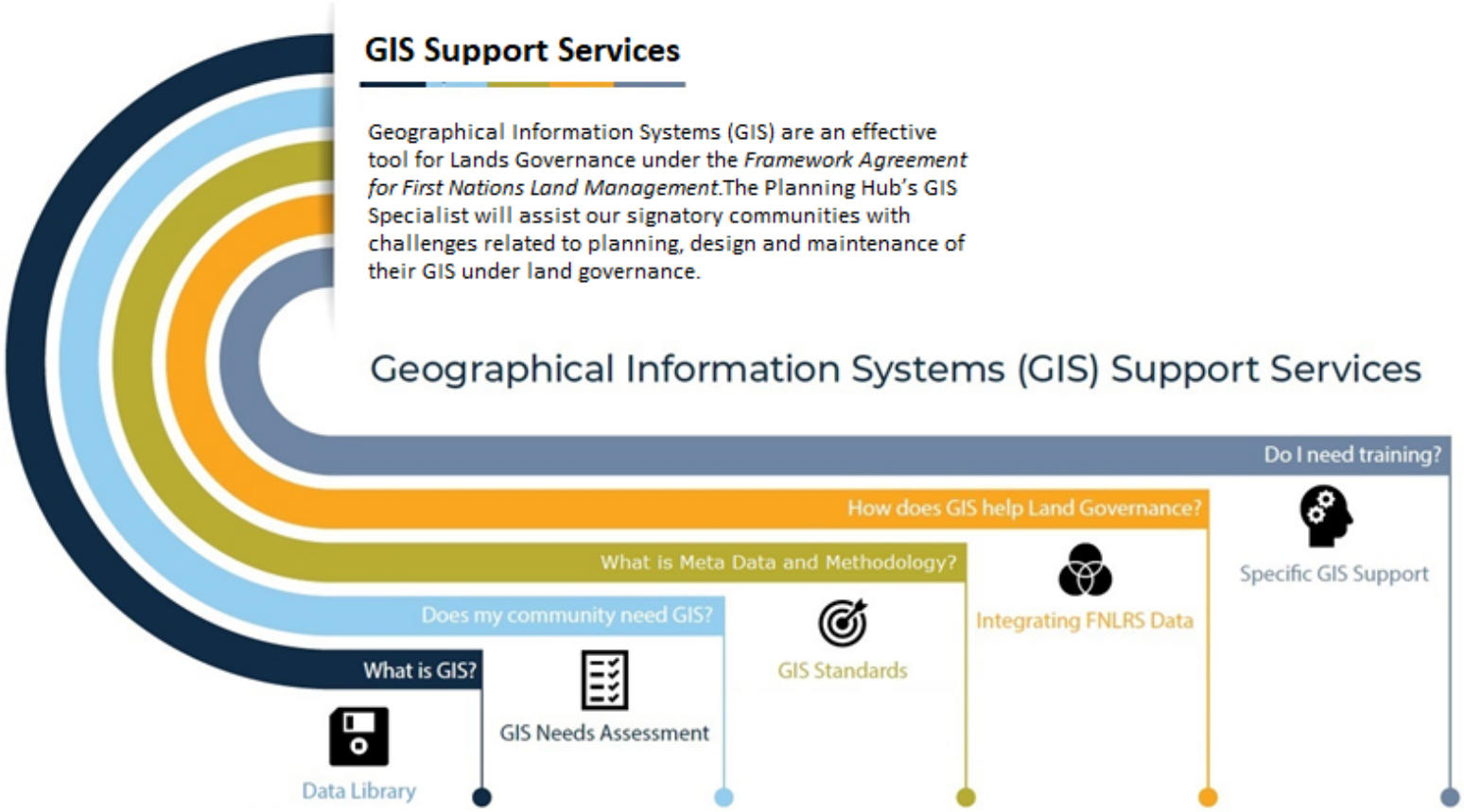
When completed

- Achieve your mapping goals
- Beware of software proprietors
- Needs assessments clear and precise goals
- Confidence in what you want in a GIS system !

GIS SUPPORT AND TOOLS!

GIS Support Services

Geographical Information Systems (GIS) are an effective tool for Lands Governance under the *Framework Agreement for First Nations Land Management*.The Planning Hub's GIS Specialist will assist our signatory communities with challenges related to planning, design and maintenance of their GIS under land governance.



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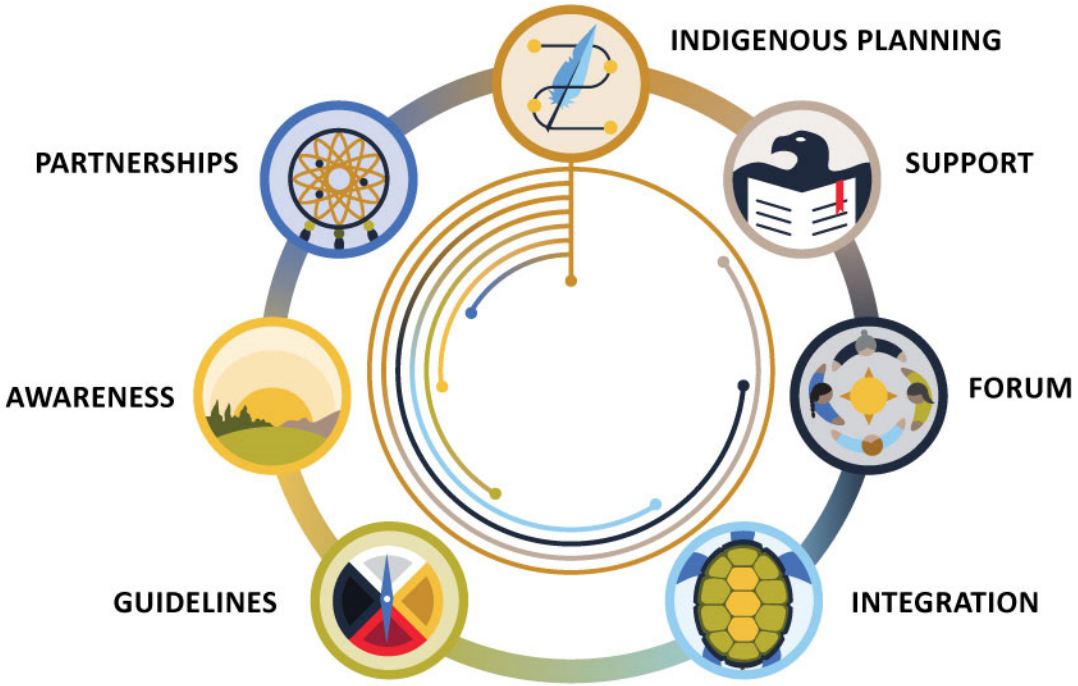
First Nations Hub for Lands Governance Planning



LAND GOVERNANCE PLANNING HUB

Helping Communities move away from the Indian Act by:

- Elevating and Re-establishing Traditional Indigenous Planning Practices
- Promoting Cohesive and Holistic Environmental Planning informed by Climate Change
- Bringing awareness

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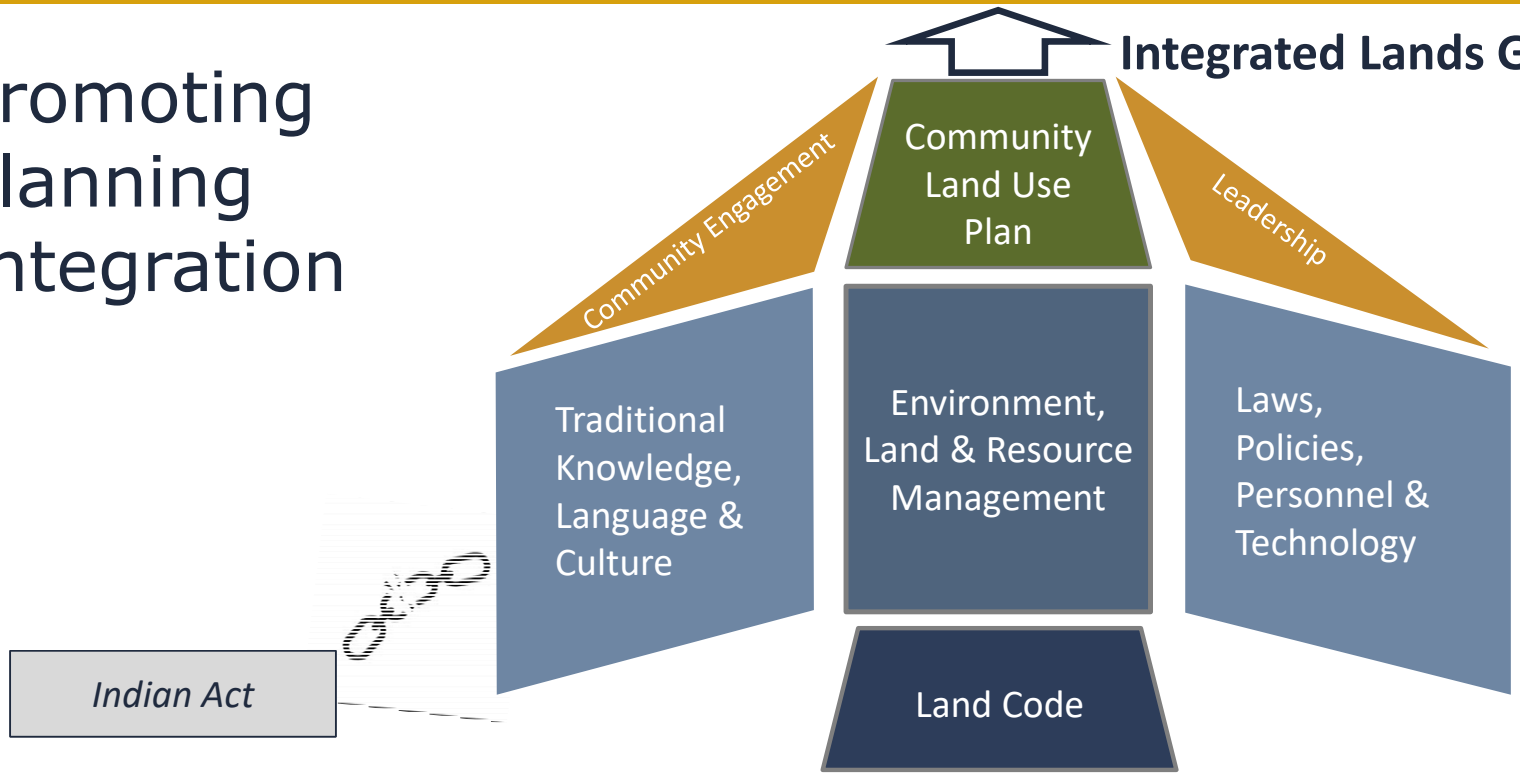
Stephen McGlenn
Specialist, Land Use Planning & Curriculum Delivery

Hub Approach: Elevating Indigenous Planning Values, Approaches, Outcomes

Promoting Planning Integration



Framework Agreement on First Nations Land Management

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Hub Approach: Incorporating Traditional Values with Existing Plans

- Incorporating Traditional Knowledge into Lands Governance Planning
- Reviewing Lands Governance Planning documents from a traditional knowledge perspective
- Promoting holistic approach, planning integration
- Creating/updating TMPD resource content (courses, webinars, etc.)

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Zara Contin
Traditional Knowledge Specialist

SLIDO – Live Poll

GIS Needs Assessment

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Q&A - Open Discussion

Virtual Networking

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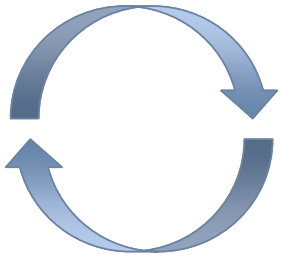

Raise you hand

Unmute Yourself

Turn Video On

Session Recorded

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THANK YOU

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TMPD Manager

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