Vermont GIS Strategic Plan

2023-2027

Authored by VCGI and EGC

September 2023

v.1.2

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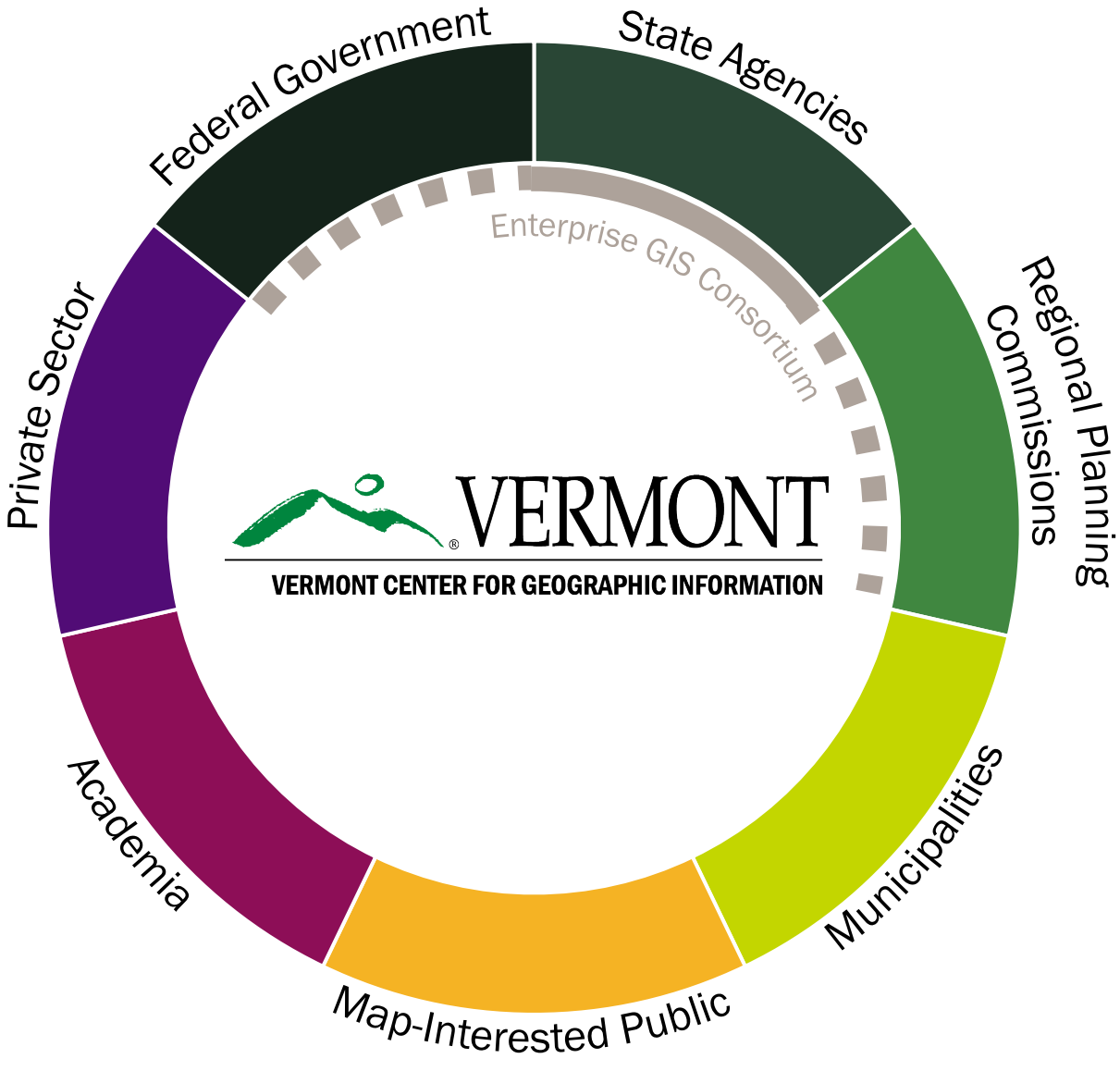
Purpose

[10 V.S.A. Chapter 8: Geographic Information]

The Vermont Center for Geographic Information (VCGI) was created to develop and implement a “comprehensive strategy for the development and use of a geographic information system.” The intent of this plan is to meet the statutorily required plan and strategy, providing guidance from 2023 through 2027.



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Past

(2018 – 2022)

A look at some things we've accomplished in the last five years to help gauge what is next.

2017-2020

GIC PLAN - ADOPTED 11/15/

- Availability of statewide, uniform grand-list joined municipal parcel data representing over 330,000 parcels with ongoing upkeep
- Availability of statewide, high-resolution QL2 lidar-derived elevation products
- Availability of 1,000+ open datasets by multiple publishers at the VT Open Geodata Portal that served 50,000+ unique users last year
- Availability of 30cm and 15cm orthoimagery for multiple locations
- Availability of key public data and applications such as COVID-19 tools that have been viewed millions of times
- Ongoing support of key applications such as the ANR Atlas and e911 viewer
- Availability of weekly-updated key datasets such as address points and road centerlines
- Availability of statewide high-resolution land cover products, including impervious surfaces
- Availability of digital copies of land surveys statewide
- Availability of municipal zoning boundaries statewide, and more.

Process

2017-2020 Strategic Plan

Review of the most recent EGC Strategic Plan, evaluation of efforts (see Appendices)

Customer Inquiries

Review of common questions and requests from public for VT GIS products and services

VT GIS User Survey 2023

191 responses to Winter 2023 survey about who is using VT GIS, how, what for, and ways to improve (see Appendices)

Related Plans & Initiatives

Review of State of Vermont Strategic Plan 2018-2023, Agency of Digital Services Strategic Plan 2023-2027, ANR/ACCD GIS Strategic Plan 2022-2025, and FGDC NSDI Strategic Plan 2021-2024

EGC Retreat 2022

Fall 2022 in-person retreat for EGC members to partake in VT GIS visioning work, 30 participants

This Plan

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Process: Key Findings

01

From Collect to Improve

Now data rich, we're in a stage of improving and curating the content we've collected over the years

02

More Data, Easy

Still, clear demand for more map info, clearly presented and easier to access: key datasets, historical resources, improved geodata portal

03

Wide Range

While improved access and understanding are universal requests, what they mean varies widely depending on group and skills. Meet them where the are.

04

Unseen Work

Hidden work of partnerships, oversight and integration are not explicit, yet underlie ability to meet growing demands

Vision 2027

Geospatial professionals will have played an important role in helping the State of Vermont meet its goals, offering open spatial data that is among the best of its kind in the nation.

ECONOMY
Forest Management
Broadband
Outdoor Recreation
Renewable Energy

VULNERABILITY
Flood Hazards
Emergency Response
Water Quality
Landslide & Ice Jams

AFFORDABILITY
Real Estate Development
Medicare/FMAP
Infrastructure
Small Business

MODERNIZATION
Streamline Permitting
Reduced Field Work
Machine Learning
Process Automation

State of Vermont Goals and example GIS applications.

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Mission

The Enterprise GIS Consortium (EGC) coordinates the investment, management, and application of open geospatial data and resources for the State of Vermont, improving the quality of government services and providing value to the broader mapping community.

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Strategic Outcomes

Improved Spatial Data Infrastructure

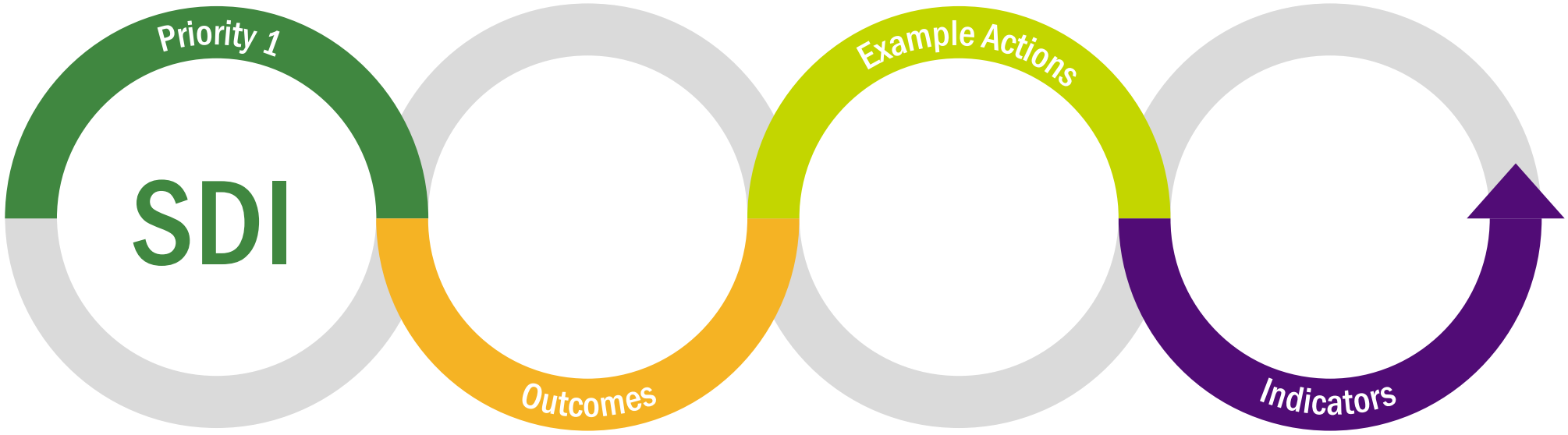
We will advance the state's foundational spatial data framework layers and build on NSDI work at the national level.

Developed Access and Understanding

We will ease access to and improve understanding of the state's rich spatial data resources among a growing user base.

Strong Partnerships and Governance

We will steward the relationships required to provide and maintain high quality spatial data resources across organizations.



Improve Spatial Data Infrastructure Framework Layers

We will advance the state's foundational spatial data resources that are widely applicable, building on NDSI work at the national level.

Read about the NSDI.

Example foundational data include parcels, imagery, elevation, land cover, hydrography, addresses, and more

Desired Outcomes

- Improved Geospatial Maturity Assessment Grades
- Improved Data Recency, Quality and Accuracy
- Improved Data Relevance
- Strengthened Foundational Data & Resources
- Spatial Data that Meet Multiple and More Public Administration Needs

Example Actions

- Capture of statewide QL1 lidar and improved derivatives
- Publish annual imagery updates and expand coverage
- Obtain support for frequent boundary updates and improvements
- Update dedicated applications, including data status tools
- Leverage new tools and technologies to deliver this information

Indicators

- Biannual NSGIC Geospatial Maturity Grades
- Published Portal Item / Data Updated Metrics
- Recency and Count of Data Submittals
- Boundary Datasets Integration
- Uniform, Usable Metadata Completion
- Targeted, Widely Used Map Applications

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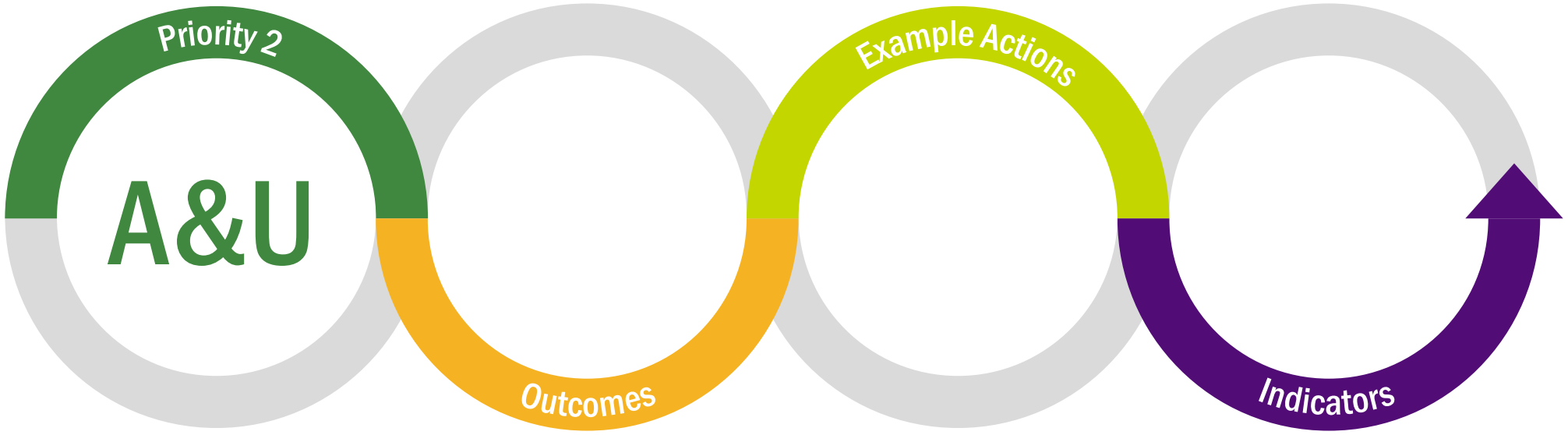
Data Theme Grades and Goals

[NSGIC Geospatial Maturity Assessment]
Modified and Adjusted to VSDI

Theme	Actions	2023 Grade	2027 Goal
Addresses & Housing	Building footprint LOD 2 complete with year built and units per structure	B+	A+
Boundaries	Governance structure created and investment made into improving accuracy	D-	C+
Elevation	Statewide QL1 Lidar	B+	A+
Geodetic	New coordinate system implemented	B+	A+
Imagery	Statewide 15cm imagery with 2 year refresh cycle	A-	A+
Land Cover	Statewide 0.5m update and change mapped	B+	A+
Parcels	Intergration with land records management and property transfers	B	A
Transportation	Work Zone Data Exchange (WZDx) implemented	A	A+
Utilities/Energy	Statewide transmission line, water line, and municipal sewer line	D+	B+
Water	Statewide DFIRM (lidar derived) and elevation derived hydrography	D+	A
Zoning & Land Use	Municipal Zoning district maps integrated and maintain in Zoning Atlas	D	A-



Develop Access and Understanding

We will ease access to and improve understanding of the state's rich spatial data resources among a growing user base.

Desired Outcomes

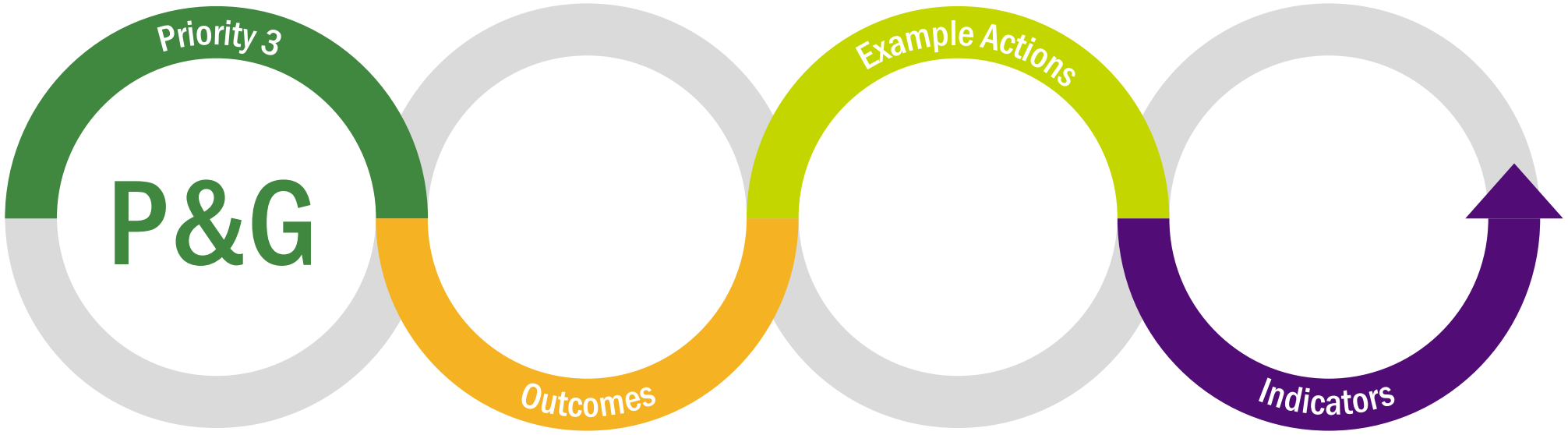
- Broadened scope of spatial applications, uses, and users
- Majority of common challenges and questions addressed
- Evolution and advancement of the kinds of inquiries, feedback, and tools used for tasks
- Coherent display and discovery of relevant spatial data products and services

Example Actions

- Leverage advances in the ArcGIS Online / Portal environment to redesign for clear item display, access, and documentation
- Build task-dedicated applications using latest tools and technology
- Provide regular communication of updates, status, and key info via multiple channels
- Devote resources to meet varied audiences where they are given needs and skills

Indicators

- Ongoing customer interactions & engagement reveal advancing understanding and use
- Reduction of repeat, basic questions
- Periodic formal surveys of users display positive trends
- GIS and spatial data used for key public issues
- Issue and usage reporting tools reveal positive trends



Strengthen Partnerships and Governance

We will steward the relationships required to provide and maintain high quality spatial data resources across organizations.

Desired Outcomes

- Existing spatial resources are leveraged in new ways for new purposes among new groups
- Common understanding of shared goals and means to achieve them across different groups
- Improved mundane yet necessary aspects of spatial work: documentation, descriptions, standards and guidelines
- Non-GIS shops have needs met by EGC tools and expertise

Example Actions

- Create accessible spatialized forms, applications and/or guidance for common or repeat tasks (e.g., Geocoding, Town Names)
- Reduced duplication of effort by stewarding resources that meet the needs of many (e.g., Grand List)
- Create standards and guidelines that aren't a chore to follow and have clear benefit

Indicators

- New policies and initiatives are serviced by GIS data, products and services
- Reduction in common data maintenance challenges across organizations
- Uptake of data standards
- Continued and expanded participation in open data sharing efforts
- Expanded participation in data integration efforts

Near-Term Actions Underway

Improved Spatial Data Infrastructure

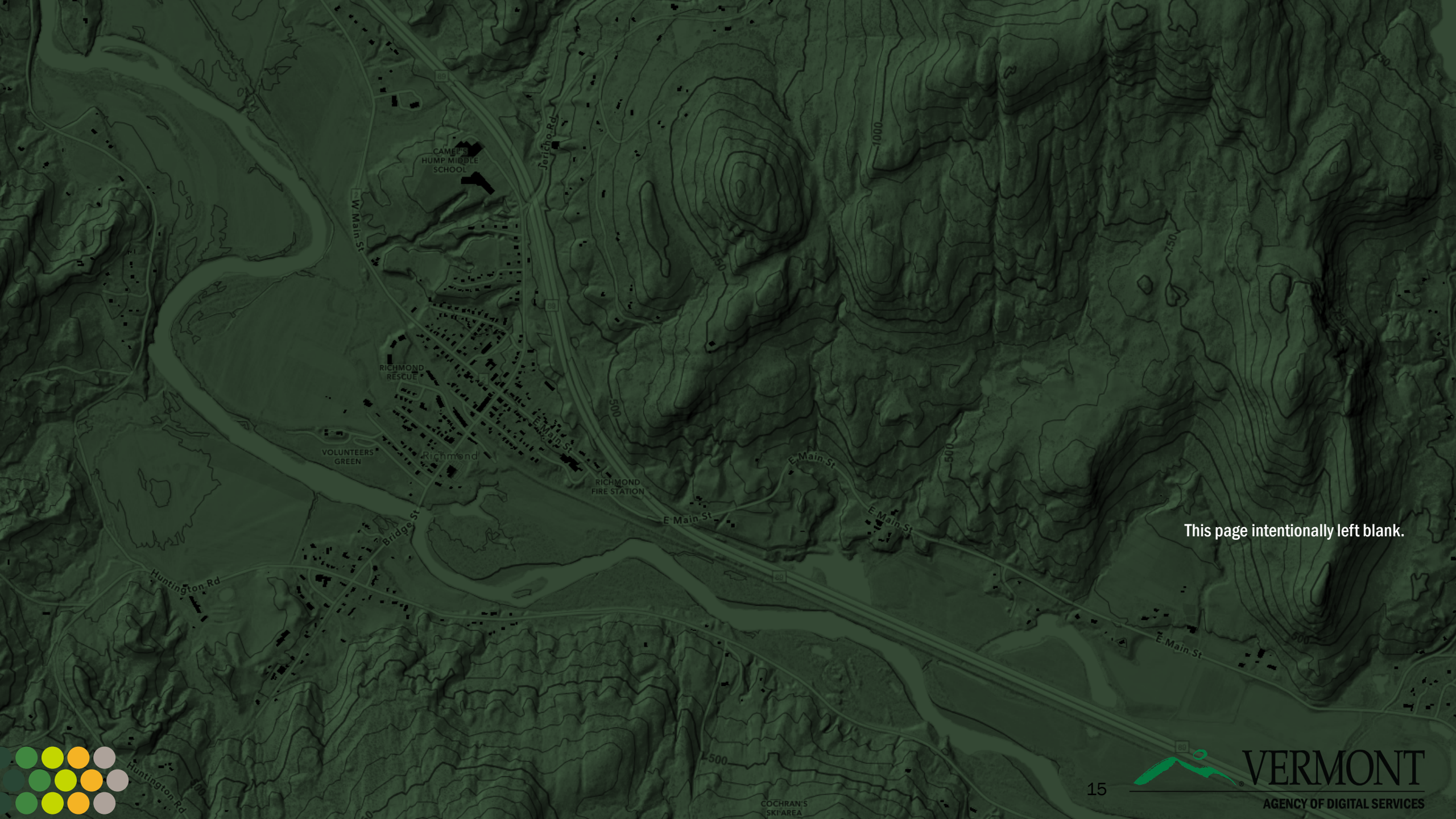
- Capture of statewide QL1 lidar complete in 2023; processing of derived products underway
- Updated geocoding service for improved accuracy in 2023

Developed Access and Understanding

- Map and Data visualization accessibility guidelines development underway in 2023
- 2023 Flood response mapping to aid response and recovery

Strong Partnerships and Governance

- Parcel program aiding Tax with recommendations for executing H.480 (Act 68) (2023)
- VCGI aiding ANR/VHCB in executing H.126 (Act 59) (2023)



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Appendices

2017-2020 VT GIS Strategic Plan: Progress Evaluation

2023 VT GIS User Survey Summary

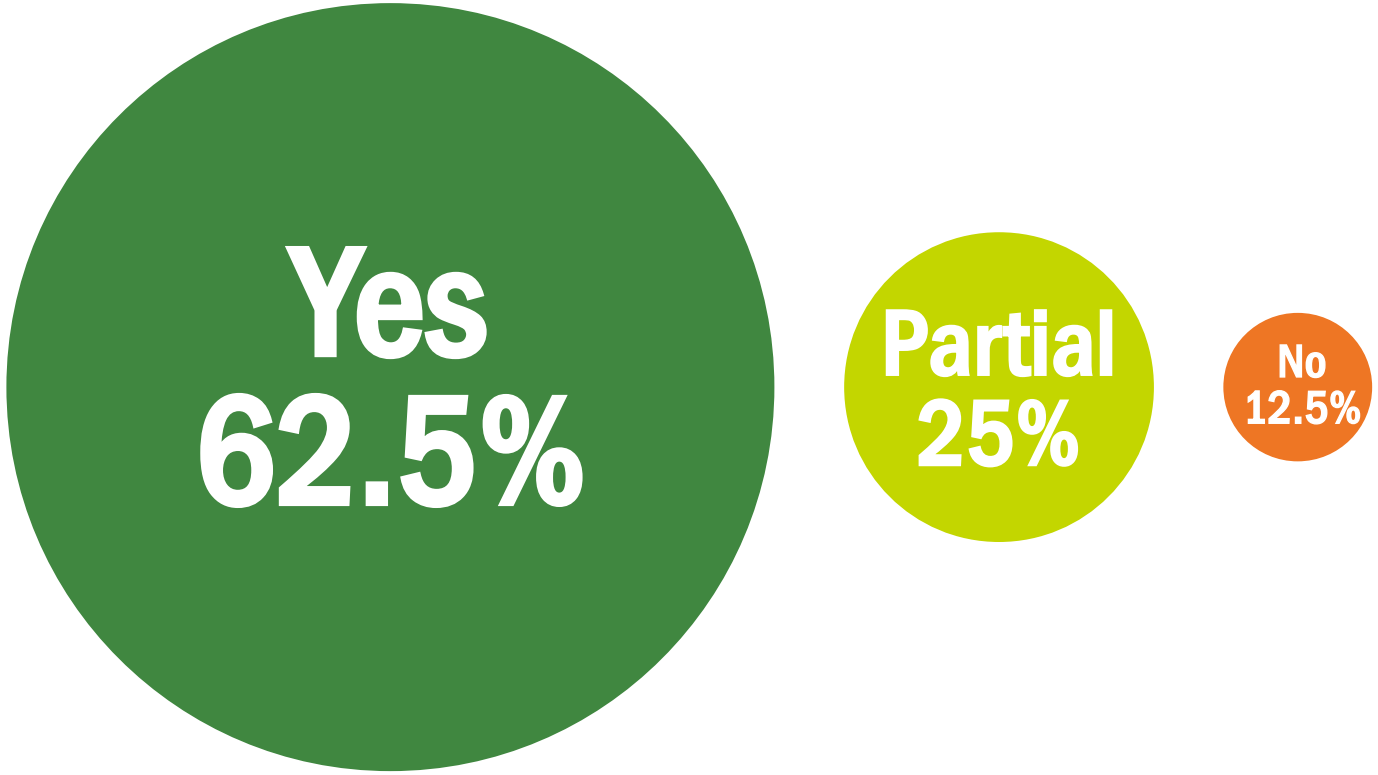
EGC Charter

EGC Members

Actions Meeting Goals?

Internal review of actions taken towards goals established in the 2017-2020 VT GIS Strategic Plan

32 actions reviewed. Goals categorized in 4 themes: Partnerships, Data, Technology, People



2017-2020 Goal Category	Goal Action	Action Taken	Meeting Goal?	Comments
Partnerships	PTNR-Establish GIS Advisory Council to advise EGC and VCGI	Establish Parcel Advisory Board to Oversee Parcel Program	Yes	Board provided oversight of successful statewide parcel project from 2017-2019 and ongoing parcel program from 2020 onward
Partnerships	PTNR-Establish GIS Advisory Council to advise EGC and VCGI	Establish VT Lidar Partnership to Oversee 2023 Lidar Acquisition Update	Yes	Group established for input on QL1 statewide collection effort potentially beginning in 2023
Partnerships	PTNR-Establish GIS Advisory Council to advise EGC and VCGI	Advise Imagery Program "Vintage 5" Collection by polling VT GIS users prior to collect	Yes	VT GIS and non-GIS ortho-users polled in advance of Vintage 5 to guide ideal collection process
Partnerships	PTNR-Establish GIS Advisory Council to advise EGC and VCGI	Establish Protected Lands Database Contributing Technical Partner Role	Yes	7 participating organizations collectively submitting data
Partnerships	PTNR-Establish GIS Advisory Council to advise EGC and VCGI	Establish EGC-wide oversight body comprised of VT GIS community members	No	Unclear on necessity and benefits of this vs. program-level guidance that has been implemented
Partnerships	PTNR-Increase Visibility of EGC and work with non-GIS Professionals	Establish regular GeoEnlightenment Sessions open to broader VT GIS and non-GIS parties	Yes	Sessions span range of topics and are free and open to GIS and non-GIS professionals alike; could potentially be expanded in advertisement
Partnerships	PTNR-Increase Visibility of EGC and work with non-GIS Professionals	Create web presence for EGC roles and members (at vcgi.vermont.gov)	Yes	Implemented at vcgi.vermont.gov/
Partnerships	PTNR-Increase Visibility of EGC and work with non-GIS Professionals	Increase opportunities for non-GIS groups in VT State Gov to spatialize data: e.g., Tax, Education	Partial	Provided guidance to help programs at Tax, Public Service, Education, Agency of Administration but all remain at varying stages of development and not fully autonomous or in production
Partnerships	PTNR-Increase Visibility of EGC and work with non-GIS Professionals	Establish and oversee public 2020 pandemic data reporting and access	Yes	Examples: COVID-19 Dashboard and related open data items viewed 11+ million times
Partnerships	PTNR-Increase Visibility of EGC and work with non-GIS Professionals	Establish statewide parcel viewer and status reporting using municipal parcel data	Yes	Enables easy access for non-GIS professionals to VT GIS data; most used spatial data in the state
Partnerships	PTNR-Increase Visibility of EGC and work with non-GIS Professionals	Increase understanding across SoV departmental GIS users of existence and roles of EGC	Partial	EGC ranks have increased, however challenge remains to clarify roles, tasks and opportunities given the nature of decentralized GIS across agencies/departments

2017-2020 Goal Category	Goal Action	Action Taken	Meeting Goal?	Comments
Data	DATA-Develop VSDI Plan	Review of VSDI content and details across stewards	Yes	Individual themes and stewards consulted to document VSDI content and beyond
Data	DATA-Develop VSDI Plan	Create List of VSDI Content Pages for Portal and Implement	Partial	VCGI owned items met, most non-VCGI items the challenge due to no master librarian role and capabilities
Data	DATA-Develop VSDI Plan	Develop and Implement Content Categories Portal-wide	Partial	Some VCGI owned items met, most non-VSDI content a challenge due to no master librarian role and capabilities
Data	DATA-Best Practices and Standards	Implement new/updated standards, guidelines, and best practices	Yes	Examples: Parcel Data Standard, Protected Lands Database Standard, Building Data Standard, Telecom/Pole Data Standard, Geographic Area Names and Codes Standard
Data	DATA-Best Practices and Standards	Sunset or revise old and outdated GIS standards, guidelines	No	Unclear on the benefit of revising old / outdated documentation; can poll EGC / users on current and future validity

2017-2020 Goal Category	Goal Action	Action Taken	Meeting Goal?	Comments
Technology	TECH-Evolve Geodata Portal	Implement and Maintain Portal Pages for VSDI/Popular Themes	Partial	Implemented for VCGI-maintained items, yet lack of master librarian access and capabilities makes this difficult in a federated publishing model
Technology	TECH-Evolve Geodata Portal	Support federated publishers in maintaining their own content	Partial	Most VT GIS publishers set up with federated publishing capabilities and have been using them; however quality and consistency of content documentation varies and can be improved
Technology	TECH-Evolve Geodata Portal	Portal Redesign to Better Reflect Content, Uses, Ease of Access, Item Details, Dynamic Data	No	Prerequisites (universal content categories, master librarian capabilities) not in place
Technology	TECH-Identify and Capitalize on Acquisition and Use of GIS Software/Infrastructure	Support administration of GeoCortex/VertiGIS licensing and use for public-facing map applications across agencies	Yes	Licenses renewed, maintenance kept, and sites/tools continue to function (for now)
Technology	TECH-Identify and Capitalize on Acquisition and Use of GIS Software/Infrastructure	Streamline GIS software licensing across SoV to ease existing operations and more easily enable access for those without	No	Attempts to procure enterprise GIS at SoV level not successful; although not clear how uniformly necessary/beneficial
Technology	TECH-Identify and Capitalize on Acquisition and Use of GIS Software/Infrastructure	Develop opportunities for sustained acquisition of VSDI-level data sources	Yes	Parcels, Lidar, Orthos, Transportation, for example, all with supported acquisition plans, staffing, and tech
Technology	TECH-Explore New Geospatial Tech to Modernize State Gov	Develop and support access to grand list-joined statewide municipal parcel data	Yes	Established by end of 2019 and in ongoing program support since Jan 2020
Technology	TECH-Explore New Geospatial Tech to Modernize State Gov	Utilize modern reporting tools for public awareness of key public events/issues	Yes	Examples: operations dashboards, theme-specific web applications (e.g., Parcel Viewer, Flood Ready Atlas)
Technology	TECH-Explore New Geospatial Tech to Modernize State Gov	Implement tools that leverage spatial intelligence to ease public interactions with state gov	Yes	Examples: SPAN finder, Permit Finder, Vaccine-location information, Public Health applications
Technology	TECH-Explore New Geospatial Tech to Modernize State Gov	Implement tools to aid digitization of records of public interest	Yes	Examples: Land Survey Library and associated legislation

2017-2020 Goal Category	Goal Action	Action Taken	Meeting Goal?	Comments
People	PPL-Expand Capabilities by Making More GIS Explainer Content Available	Implement and maintain FAQ's for commonly asked VT GIS questions and tasks	Yes	FAQ's implemented for major VSDI programs and datsets as well as common VT GIS questions
People	PPL-Expand Capabilities by Making More GIS Explainer Content Available	Offer frequent in person and virtual sessions on VT GIS access, tools, uses, and specifics to related professional groups and organizations	Yes	Examples: VSLS, VALA, Municipal Day, Individual Towns per Parcel Program, Developer's Conferences, Planning Groups
People	PPL-Expand Capabilities by Making More GIS Explainer Content Available	Document specific GIS tasks and workflows in accessible online formats	Partial	Some how-to content documented in write-ups and videos; however both the opportunity for a single repository/tech and much more content of the kind is possible
People	PPL-Serve as Community for Helping Address GIS Problems	Respond to public inquiries with spirit of helping and solving GIS problems, no matter the kind	Yes	Tough to gauge at EGC-wide level, but most GIS divisions and certainly VCGI likely take this on regularly
People	PPL-Serve as Community for Helping Address GIS Problems	Create specific focus areas within EGC sessions that address internal SoV issues, themes, and/or practices as needed	Yes	Examples: cartography and web map content, SoV graphic standards, workflows/tool focus sessions
People	PPL-Expand Capabilities of Culture of Info Sharing Via Small Projects	Establish small projects as needed across SoV groups with GIS specific components and emphasize benefits of knowledge sharing	Partial	Success depends on project type and details

Vermont GIS User Survey Response

Assessment

VT GIS User Survey, Feb. 1 – 28, 2023.

191 Respondents.

Review Summary

- We’re now in a stage of explaining and improving the content we’ve collected and created over the years
- While improved accessibility and understanding are universal requests, what they mean varies widely depending on user group and can be tailored accordingly
- Hidden component of partnerships and oversight not explicitly mentioned, but we know its importance to meet other demands

Why, Who was asked, and How?

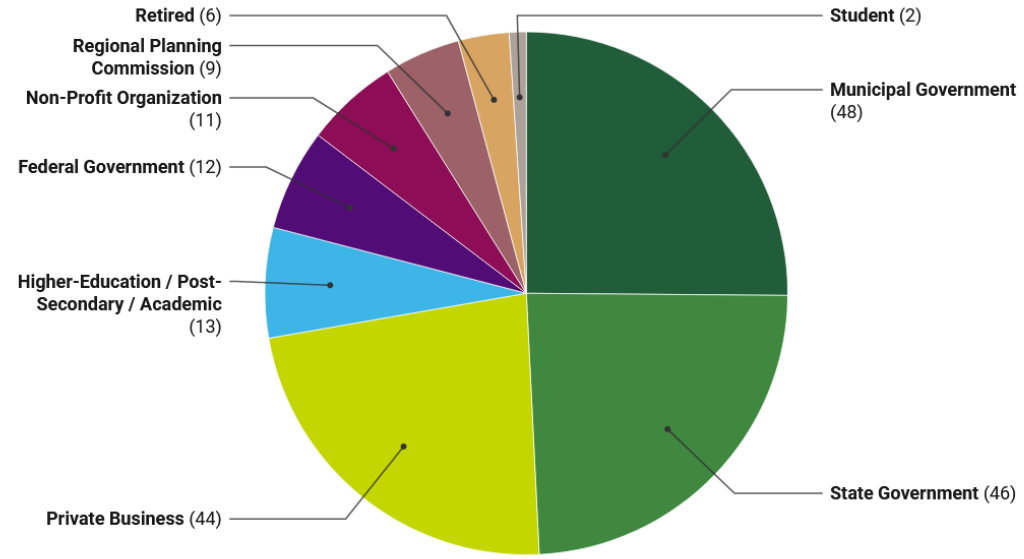
- Insight for 5yr strategic plan
- Input from lesser-known users
- Check assumptions
- Guide priorities

- ~2000 professionals directly asked (est. 9.5% response rate)
- Open to public on portal, VCGI website for 1 month
- 20+ professional groups engaged

Who responded?

Which Best Describes Your Workplace?

Vermont GIS User Survey, Feb. 1 - 28, 2023. 191 Respondents.



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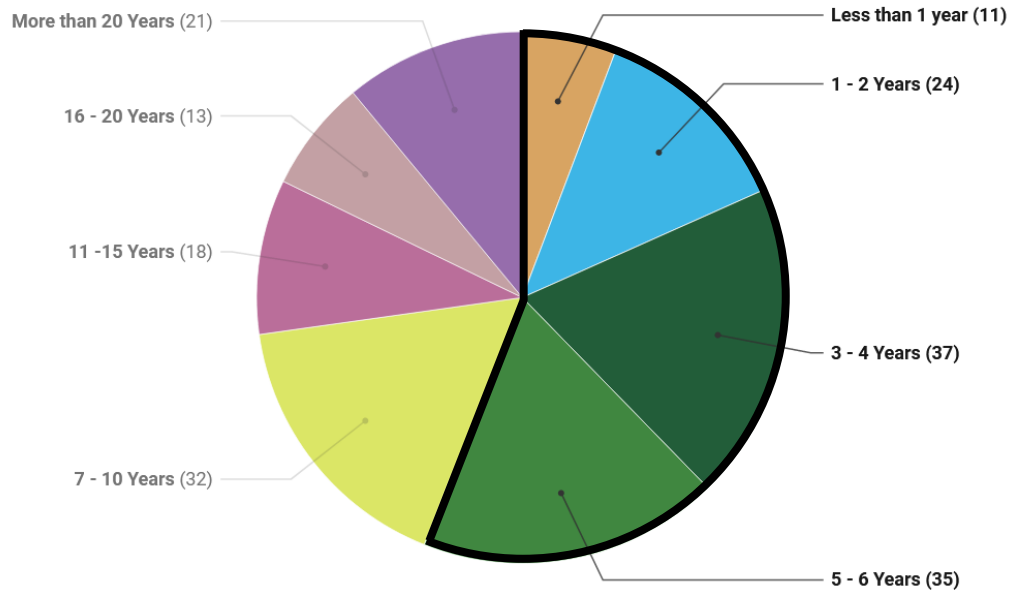
Nearly 75% Muni Gov., State Gov, or Private Business, each ~25%

How Long Have You Been Using VT GIS Resources?

Vermont GIS User Survey, Feb. 1 - 28, 2023. 191 Respondents.



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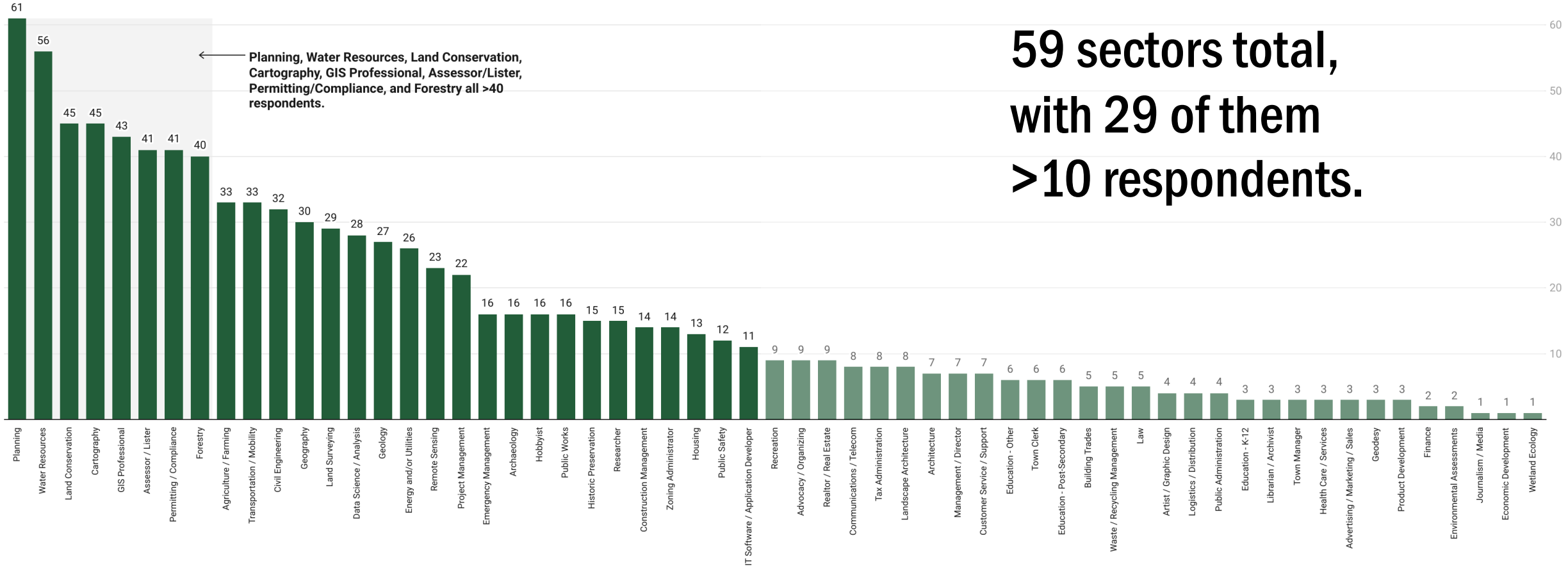
>50% “new”-ish users (<6 years)

Who responded?

Which sectors does your use of Vermont's GIS pertain to?



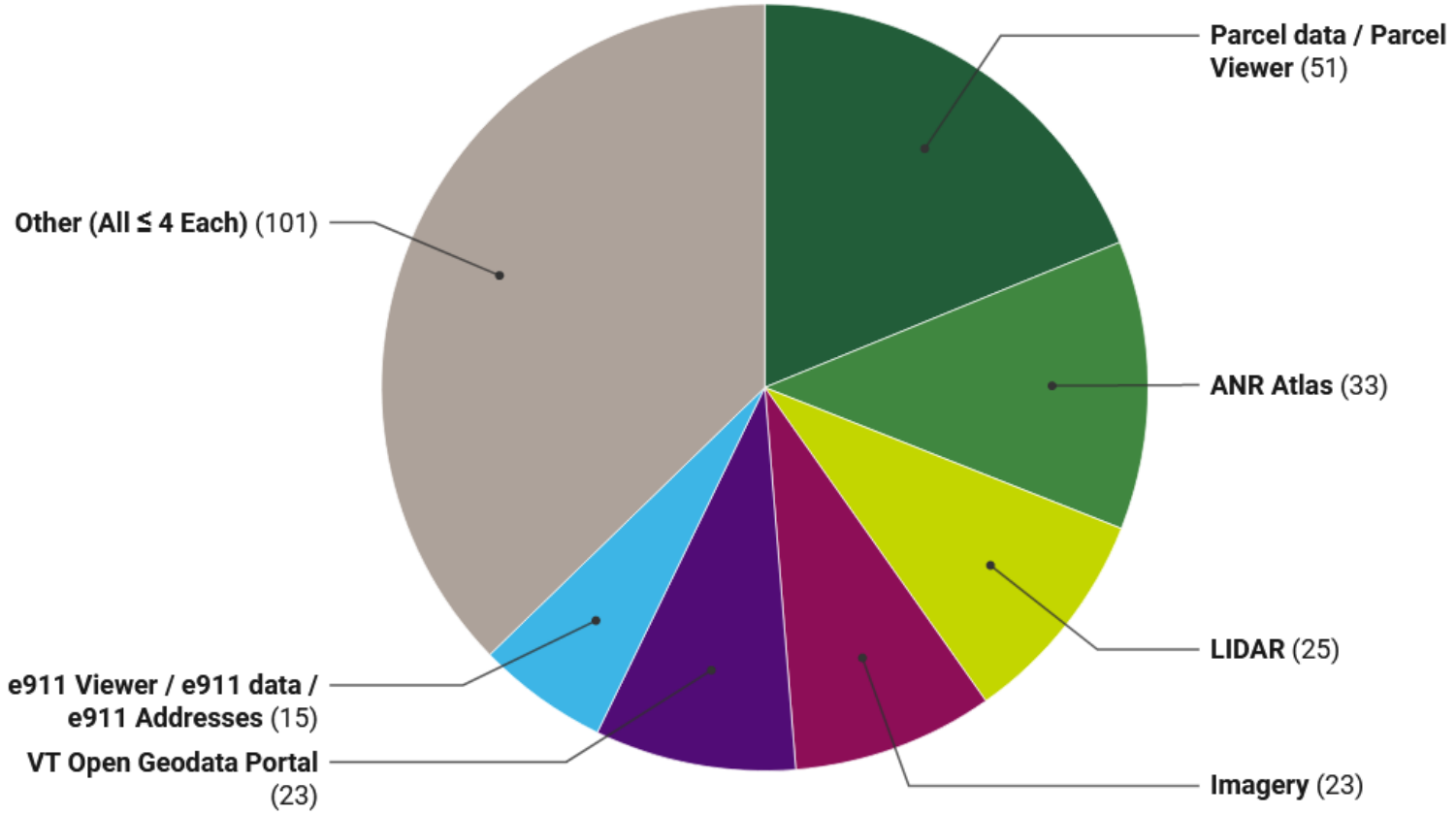
59 sectors total, with 29 of them >10 respondents.

Vermont GIS User Survey, Feb. 1 - 28, 2023. 191 Respondents.

Chart: VCGI • Created with Datawrapper

What is your most frequently used Vermont GIS resource?

Vermont GIS User Survey, Feb. 1 - 28, 2023. 191 Respondents.



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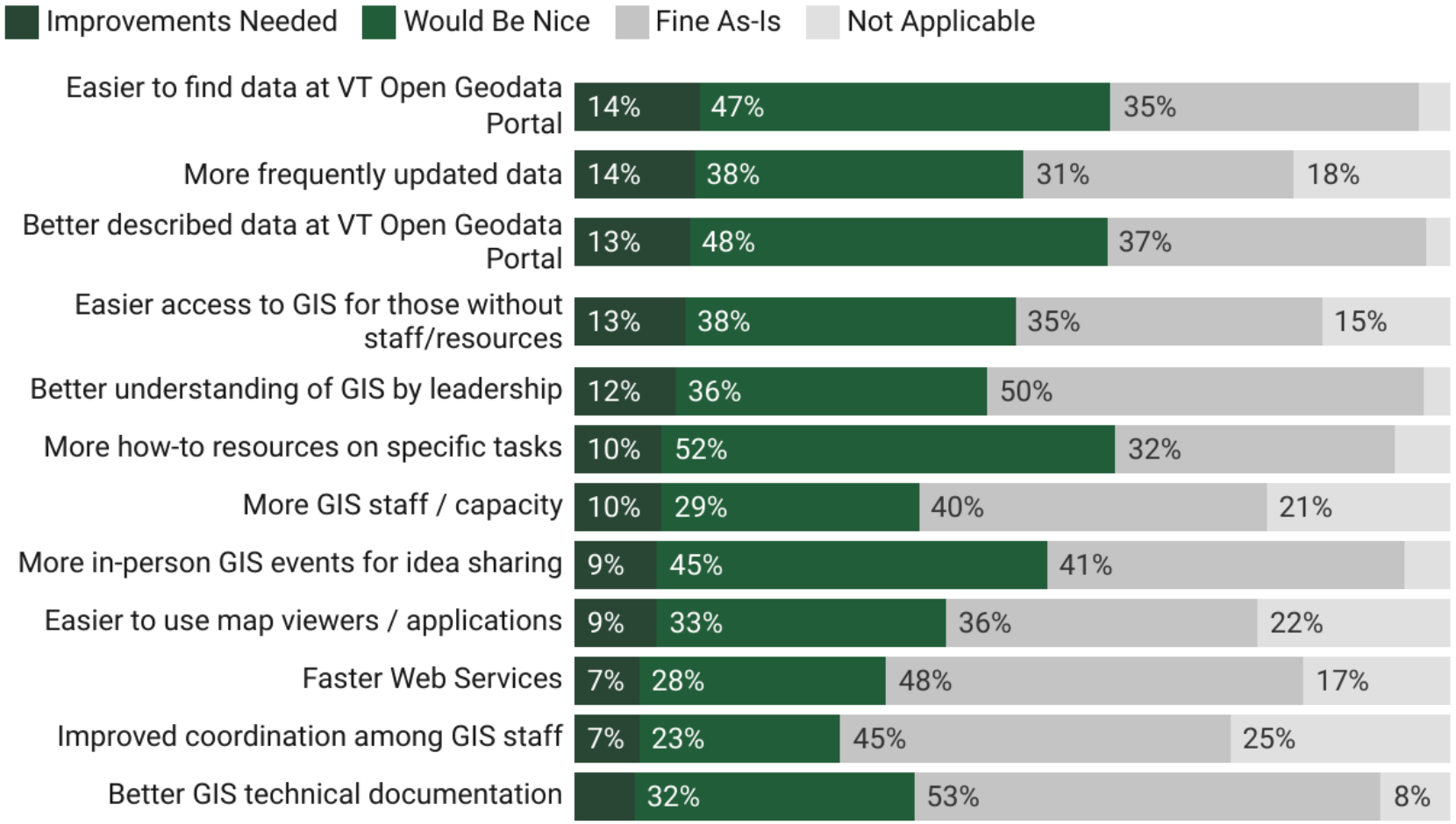
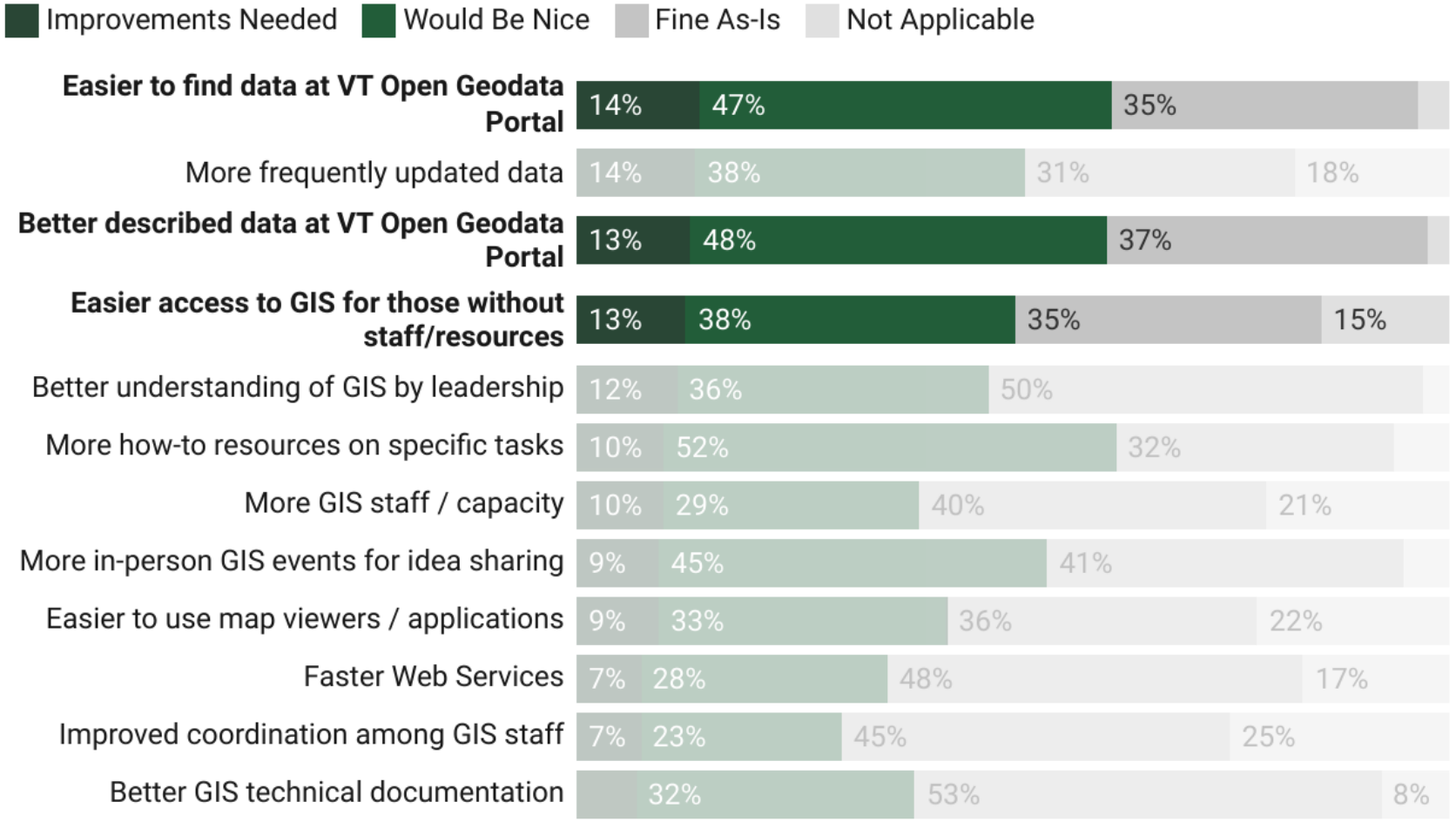
Rank the following potential improvements to Vermont's GIS given your work



Vermont GIS User Survey, Feb. 1 - 28, 2023. 191 Respondents

Chart: VCGI • Created with Datawrapper

Most people would like it to be easier to find data they are searching for.



Vermont GIS User Survey, Feb. 1 - 28, 2023. 191 Respondents

Chart: VCGI • Created with Datawrapper

Three "Make It Easier" Responses

Easier to find data at VT Open Geodata Portal

Rank the following potential improvements to Vermont's GIS given your work. Sorted by Workplace.

	Not Applicable	Fine As-Is	Would Be Nice	Improvements Needed
Municipal Government	2	14	19	13
State Government	1	19	22	4
Private Business	3	19	18	4
Higher Education	1	3	6	3
Regional Planning Commission	0	4	4	1
Non-Profit Organization	0	1	9	1
Federal Government	0	3	8	1
Student	0	2	0	0
Retired	0	2	4	0

Vermont GIS User Survey, Feb. 1 - 28, 2023. 191 Respondents

Chart: VCGI • Get the data • Download image • Created with Datawrapper

Easier access to GIS for those without staff/resources

Rank the following potential improvements to Vermont's GIS given your work. Sorted by Workplace.

	Not Applicable	Fine As-Is	Would Be Nice	Improvements Needed
Municipal Government	5	13	20	10
State Government	8	16	15	7
Private Business	8	17	15	4
Higher Education	2	2	7	2
Non-Profit Organization	5	3	2	1
Federal Government	3	2	6	1
Retired	0	3	2	1
Regional Planning Commission	2	2	5	0
Student	1	1	0	0

Vermont GIS User Survey, Feb. 1 - 28, 2023. 191 Respondents

Chart: VCGI • Get the data • Download image • Created with Datawrapper

Easier to use map viewers / applications

Rank the following potential improvements to Vermont's GIS given your work. Sorted by Workplace.

	Not Applicable	Fine As-Is	Would Be Nice	Improvements Needed
Municipal Government	2	17	19	10
Private Business	2	23	14	5
State Government	1	24	17	4
Higher Education	1	7	3	2
Retired	0	2	3	1
Regional Planning Commission	0	6	3	0
Non-Profit Organization	0	6	5	0
Federal Government	0	8	4	0
Student	0	2	0	0

Vermont GIS User Survey, Feb. 1 - 28, 2023. 191 Respondents

Chart: VCGI • Get the data • Download image • Created with Datawrapper

...Municipal Gov. in particular.

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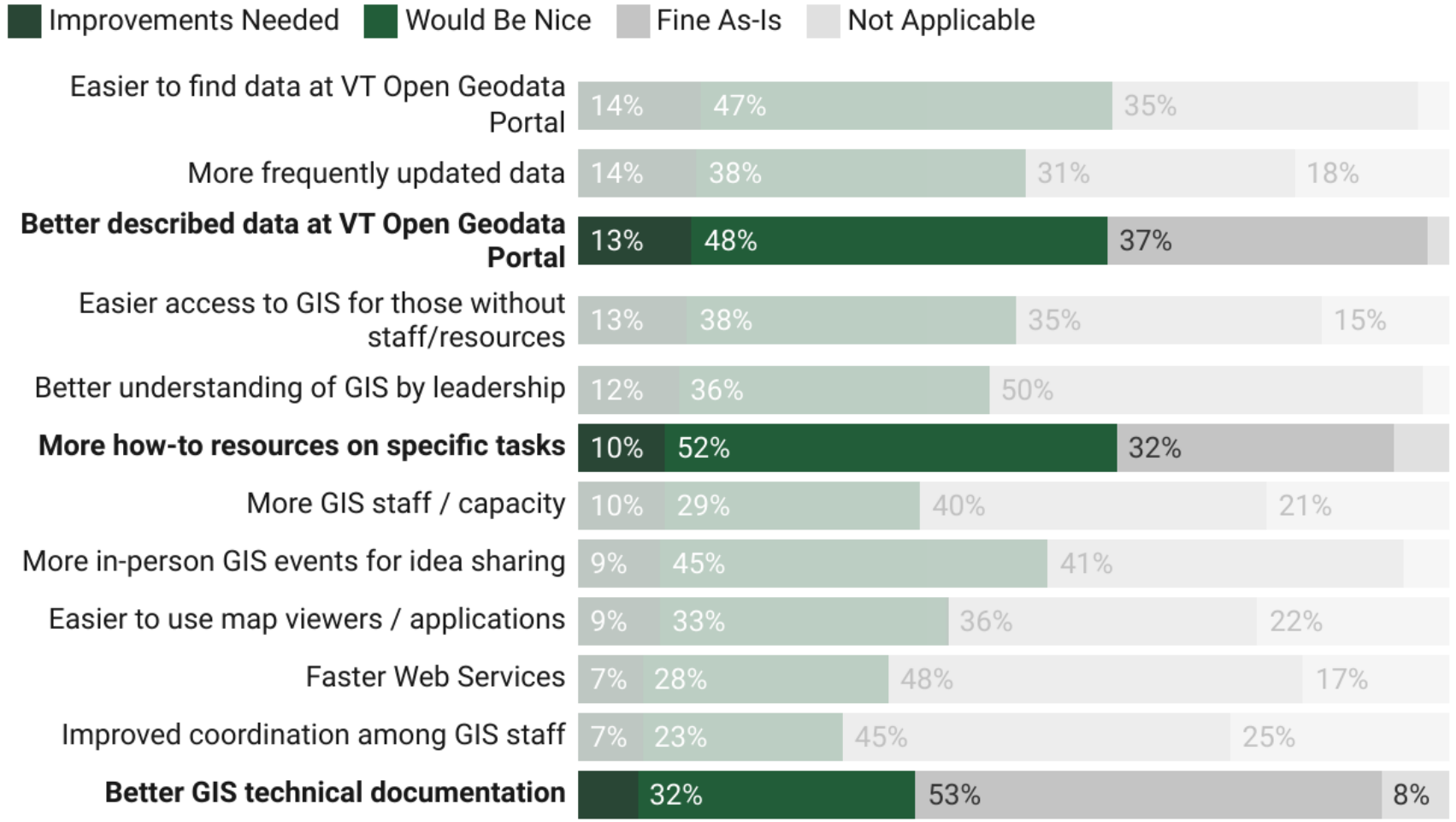
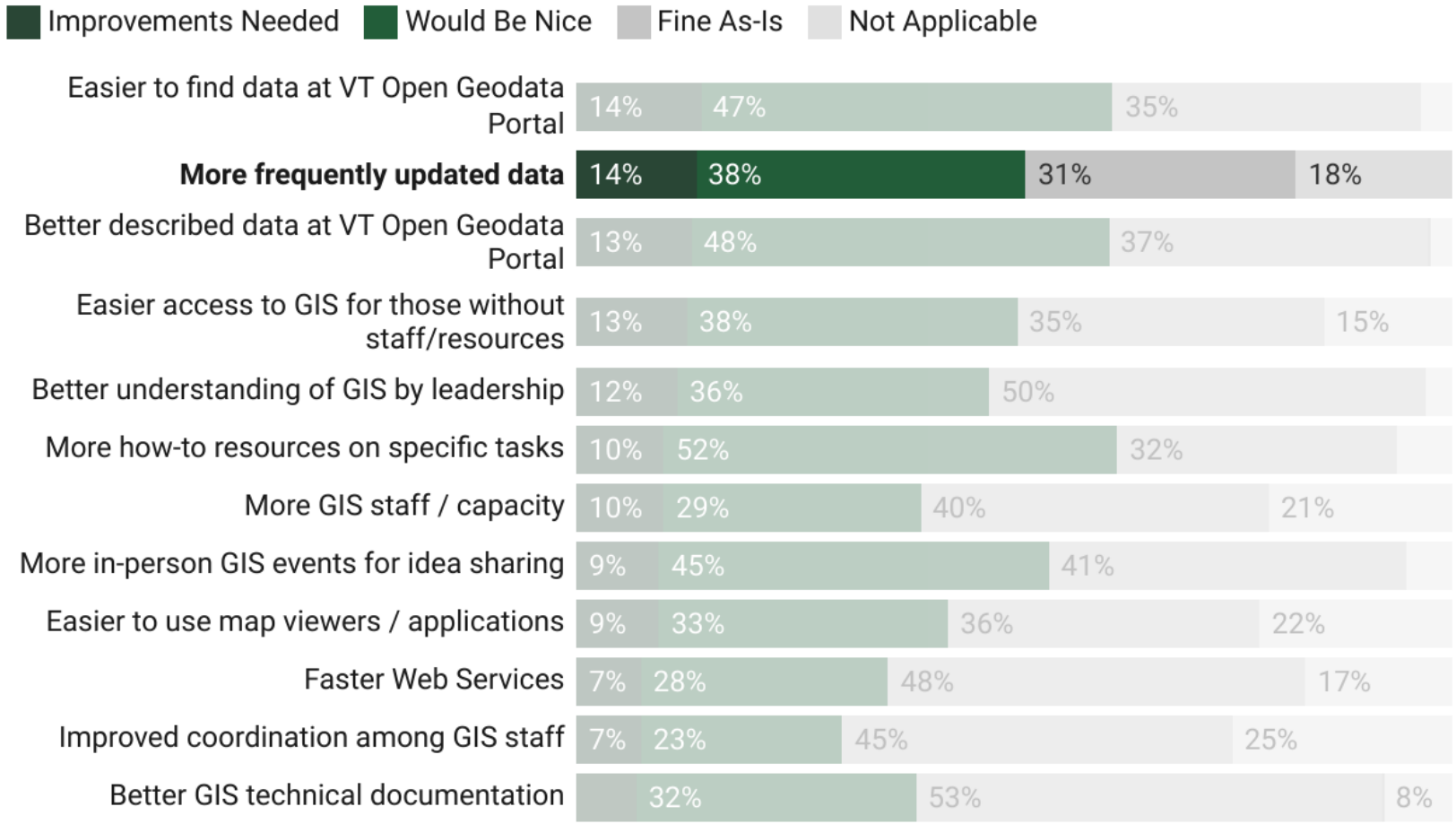
Improvements in 'Non-Technical' Documentation Needed?



Vermont GIS User Survey, Feb. 1 - 28, 2023. 191 Respondents

Chart: VCGI • Created with Datawrapper

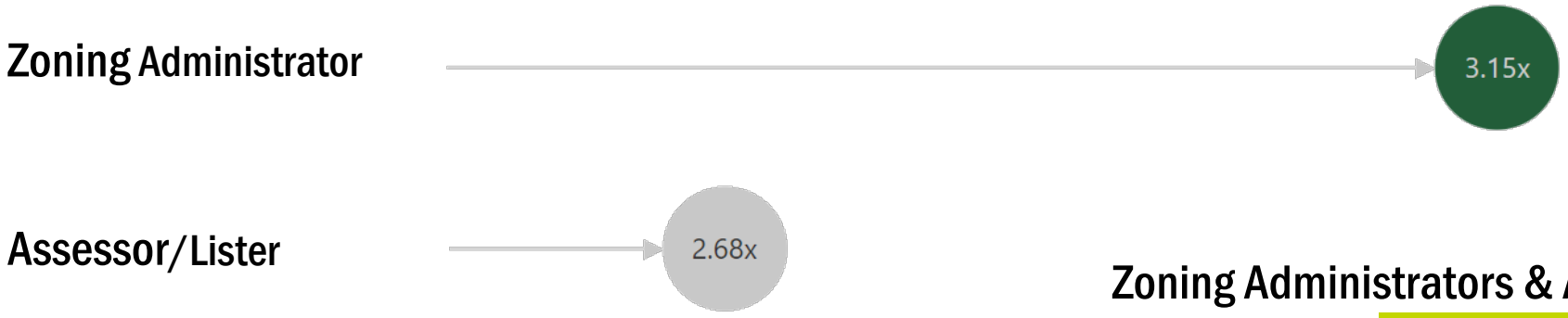
Only 31% found the frequency of data updates 'fine as-is'.



Vermont GIS User Survey, Feb. 1 - 28, 2023. 191 Respondents

Chart: VCGI • Created with Datawrapper

Who is having challenges finding what they need in the Geodata Portal?

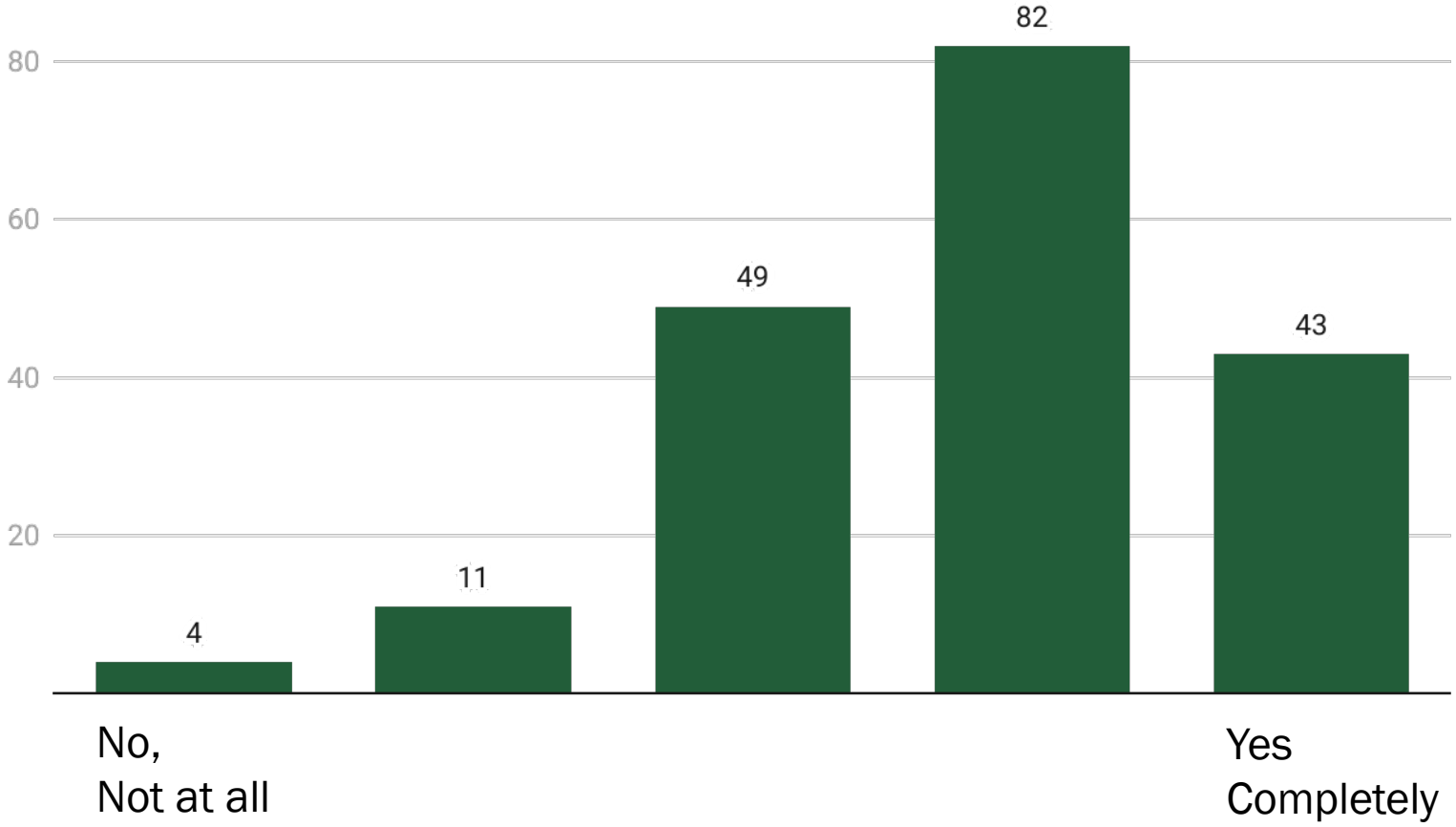


Zoning Administrators & Assessor/Listers were approximately 3x as likely as others to respond that improvements are needed to make it easier to find items in the Geodata portal. These sectors also were most likely to indicate the need for more frequent updates and better descriptions.

Other Concerns by Sector

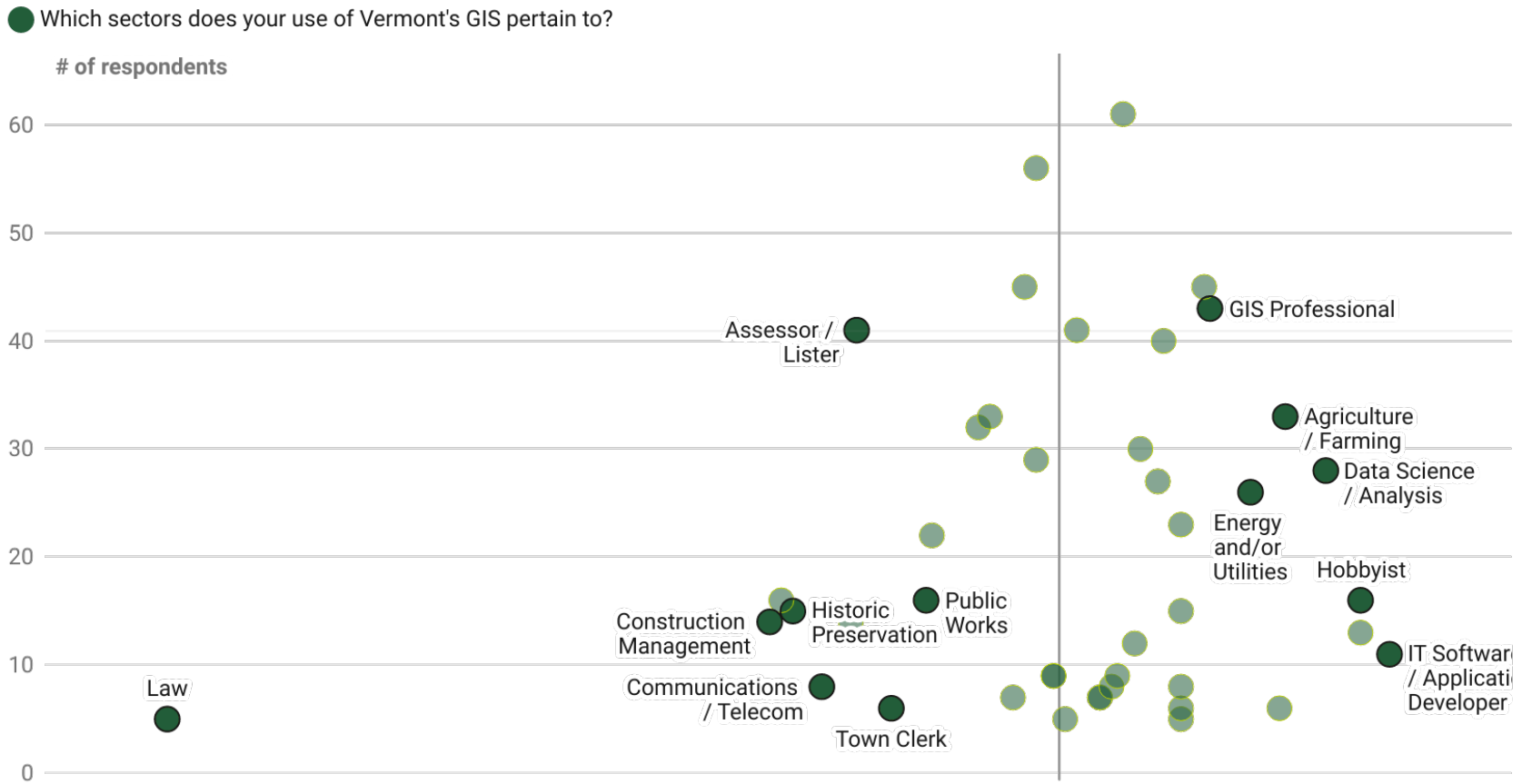
1. **Easier to use map viewers:** **Town Clerks & Legal Profession**
2. **GIS Staff Capacity:** **Tax Administration, Town Clerks**
3. **How-to Resources:** **Telecom, Lister/Assessors**
4. **In-person Events:** **Remote Sensing Professionals**

The Vermont Open Geodata Portal is meeting my data access needs?



How well is the Geodata Portal meeting people's needs?

Average score grouped by sector.



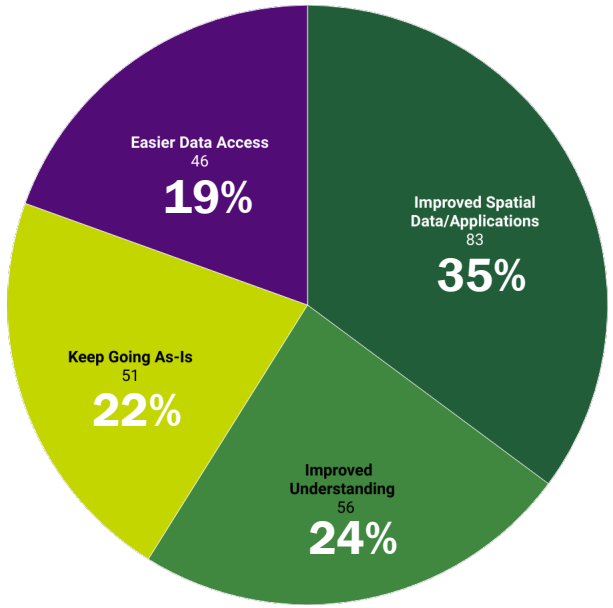
Minimum of 5 sector respondents

How can Vermont's GIS be improved to help your work?

- “I’ll stick with the enterprise license! More dedicated GIS staff at the agency level.”
- “Q0 or Q1 Level of Detail LiDAR coverage”
- “Share information about the Rest services directories”
- “it is annoying that we STILL cannot move the popup information box around to get it off of the desired property”
- “Tell Listers how to update information on your site”
- “More frequent maintenance/updating of municipal data”

One group of responses is not like the others.

How To Improve?



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VT GIS User Survey
191 Respondents. Feb. 2023.
Number of Statements

How to Improve?

Improved Spatial Data/Applications

(23)

- ◆ Improved / More Accurate Parcel Data 10
- Updated / More Recent Data Overall 8
- ANR Atlas Improvements 7
- ◆ Updated / More Recent Parcel Data 7
- Improved Performance / Speed of Web Services 6
- ◆ Improved Applications Parcel Viewer 6
- Combine Multiple GIS Systems / Datasets 5
- Improved Imagery 4
- Improved Current Use Data / Access 3
- More Data in Catalogue 3
- More Recent Imagery 3
- Offline Data Access / Sync
- VT IMV Improvements
- Improved Data Accuracy Overall
- Updated Protected Lands Database
- Higher Resolution Imagery
- Improved Applications Overall
- Updated / More Recent Land Cover
- Improved Reliability of Web Services
- Improved Stormwater Datasets
- Clean Data from Partners
- Improved / Accurate Town Boundaries
- Analog / Print Map Handbook
- Templates for Maps / Applications
- Improved Applications ROW Spatial Data Hub
- Improved Soils Data
- Improved e911 Addresses

Keep Going As-Is

- No Suggestions 44
- Keep Doing What You're Doing 7

Improved Understanding

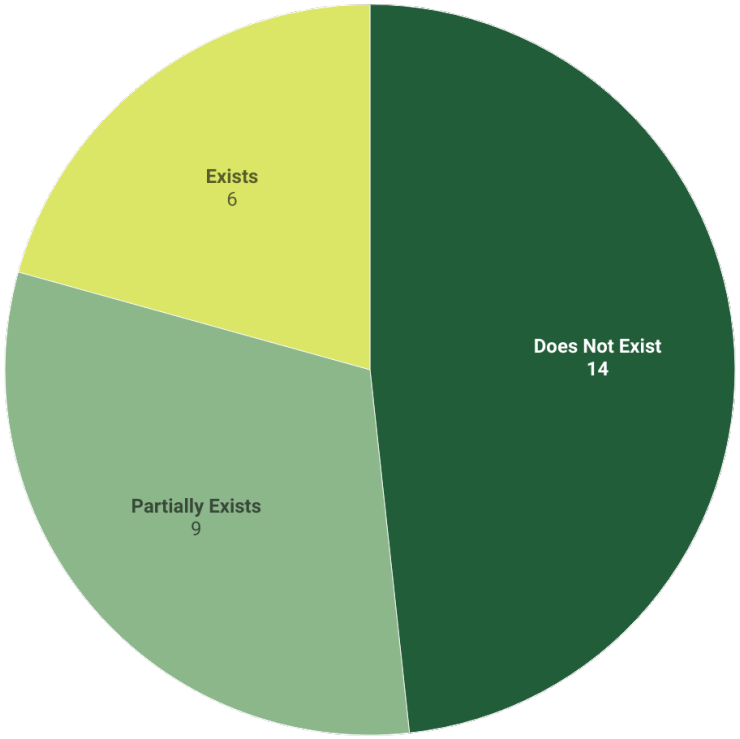
(33)

- ◆ More Training 15
- ◆ Work With / Resources For Municipalities 9
- ◆ More Communication 9
- Improved Data Descriptions / Documentation 7
- More In-Person Events 6
- Easier to Use Overall 3
- Improved GIS - CAD Integration 3
- Human Readable File Names
- Obtain Master Admin at Portal Across Orgs
- Stop Changing Portal So Often
- Correct Dates of Items at Portal

Easier Data Access

- Easier Tiled / Bulk Data Downloads 12
- Easier / Simplified Data Access 9
- Improved Portal Search / Finding Data 9
- Easier Access / Better Tools for Free or Non-ESRI GIS Users 6
- Easier to Access / Understand REST Directories / Endpoints 3
- Improved GIS Licensing / Access
- Access to Trails Data
- Easier Access to Land Surveys
- Recreation Data in One Place
- Easier Access to Permit Data
- Access to Agriculture Data

One GIS Resource You Wish Were Available



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One GIS Resource You Wish Were Available

Does Not Exist

Historical Aerial Imagery	7
Easier Tiled Data Downloads	4
Improved / Enterprise GIS Licensing	4
Historical Data Overall	3
Statewide Flood Inundation Layer	3
Higher Resolution Lidar	2
Improved Climate Data	2
Improved Hydrography	2
Underground Utilities Data	2
Accessible Archaeology Data	1
Current Use Map Application	1
Edge of Pavement / Lane Width Data	1
More Recent Lidar	1
Script Library	1

Partially Exists

Custom Clipped Downloads	6
Private Wells	4
Permit Database	3
Trails Data	3
Inactive Parcels	2
More Recent Imagery	2
Offline Access for Mobile Devices	2
Statewide Zoning	2
Rail Valuation and ROW Maps	1

Exists

Municipal Census Data	3
Parcel Data	2
Road Dataset	2
Statewide Public Outdoor Recreation Assets	2
Water Supply Data	1
Web Services for Datasets	1

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ARTICLE I. NAME

- The name of this organization, hereinafter referred to as the "EGC", shall be the Vermont Enterprise GIS Consortium (EGC).

ARTICLE II. DURATION

- Ongoing. Initiating on July 1 of each year, with automatic renewal unless or until dissolution per Article IX.

ARTICLE III. AUTHORITY

- The EGC will act with approval and acceptance of the Office of the CIO.

ARTICLE IV. PURPOSE

- The EGC will support the ongoing implementation and management of the State's Enterprise Geographic Information System (GIS).This support will be guided by the vision and goals articulated in the State of Vermont's Enterprise GIS Strategic Plan. The Plan aims to establish a dynamic Enterprise GIS framework within state government which:
- Promotes and leverages efficient use of the state's Geographic Information Technology (GIT) resources;
- Recognizes opportunity through coordination and resource sharing;
- Promotes quality and consistency through standardization;
- Addresses data access needs;
- Enhances the effectiveness of GIS services and solutions; and
- Improves decision making throughout state government.

ARTICLE V. MEMBERSHIP

Section 1. Eligible Organizations

- **Voting Member Organizations:** Organizations that are eligible for voting membership include Vermont State government Agencies, Departments, and the Vermont Center for Geographic Information (VCGI).

- **Non-Voting "Liaison" Member Organizations:** Organizations that are not eligible for voting membership may establish "Liaison" membership. These member organizations will not have a vote.

Section 2. Establishment of Membership

- Prospective EGC member organizations must be signatories to the EGC's Memorandum of Understanding (MOU) in order to establish official membership in the consortium.

ARTICLE VI. POWERS, DUTIES AND REQUIREMENTS

Section 1. Powers of the Membership

- Members of the EGC shall have and may exercise all the powers of the EGC, provided that they are consistent with State policies,standards, and guidelines. The EGC may exercise any and all powers granted to it by this Charter, or by any amendment to this Charter.

Section 2. Duties of Member Organizations

1. It shall be the duty of the Member organizations to further the vision and goals articulated in Vermont's Enterprise GIS Strategic Plan.
2. Member organizations are strongly encouraged to attend all meetings and remain current with EGC activities.
3. At the Annual Meeting, Member organizations shall designate two Co-Chairs for a one-year term. The Co-Chairs will coordinate EGC efforts and drive the overall process (including scheduling of meetings, drafting of minutes, etc.).
4. At the Annual Meeting, Member organizations shall adopt a business plan for the coming year.
5. The EGC may establish sub-committees and define the scope, purpose and tenure of each sub-committee. Member organizations shall nominate sub-committee members.

ARTICLE VII. VOTING

Section 1. Representation

- Each Member organization shall have one vote. Member organizations may proxy vote by sending notice to the Chair. Refer to "Section 4. Voting Rules" below for additional details.

Section 2. Quorum

- A quorum consists of fifty percent (50%) of the Member organizations.

Section 3. Voting Rules

- Decisions will be based on majority rule.
- EGC member organizations may officially abstain from votes in which they need more information from others in their organizationin order to place the vote. This abstention will be recorded in the meeting minutes. Any member organization abstaining will have until the next meeting to get the information needed and to enter an official vote on the issue.
- Unanimity (everyone agreeing) is the best outcome. When unanimity cannot be reached, minority opinions will be documented inmeeting minutes.

ARTICLE VIII. MEETINGS

Section 1. Regular Meetings

- Regular meetings of the EGC shall be held at a time and place to be selected by the Co-Chairs.

Section 2. Special Meetings

- The Co-Chairs may call special meetings. Special meetings shall be called whenever any three Member organizations request such special meeting in writing or email.

Section 3. Annual Meetings

- The Annual Meeting of the Members shall be held during the month of June at a time and place to be selected by the EGC. At the Annual Meeting, the Members elect the Co-Chairs for a one-year term. Also at the Annual Meeting, the Members will adopt a business plan for the coming year.

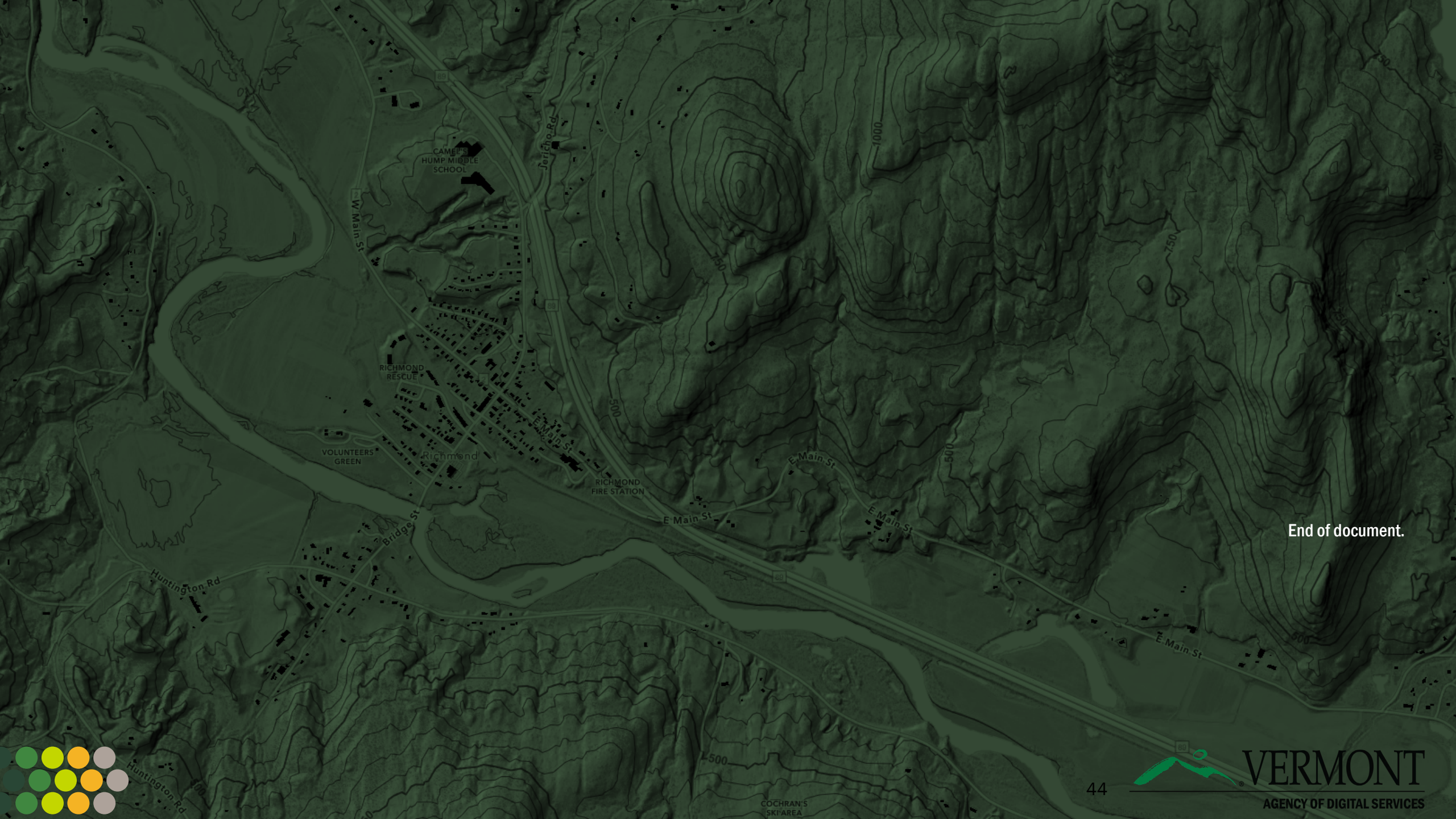
Section 4. Meeting Notice

- Co-Chairs shall email regular meeting notices and tentative agendas to all Members of the EGC at least two weeks prior to EGC meetings.

ARTICLE IX. AMENDMENTS

- This Charter may be amended or dissolved by resolution of the Member organizations at any regular or special meeting, provided that the following conditions have been met:
- That proposed amendments to these Charter are presented in writing to the Members at least fifteen (15) business days prior to the date of the EGC meeting at which they are to be discussed and voted on.
- That the Charter is amended by an affirmative vote of at least two-thirds of the voting Member organizations present.
- That the date of approval must be included with any amendment to this Charter.

Group	Type	Person	Contact
VT Agency of Agriculture, Food, and Markets	Voting Member	Vacant	-
VT Buildings and General Services	Voting Member	Melissa Prindiville	melissa.prindiville@vermont.gov
VT Agency of Commerce and Community Development	Voting Member	Vacant	-
VT Agency of Natural Resources	Voting Member	Erik Engstrom	erik.engstrom@vermont.gov
VT Agency of Transportation	Voting Member	Johnathan Croft	johnathan.croft@vermont.gov
VT Center for Geographic Information	Voting Member	John E. Adams	john.e.adams@vermont.gov
VT Enhanced 911 Board	Voting Member	Jeremy McMullen	jeremy.mcmullen@vermont.gov
VT Department of Public Service	Voting Member	Vacant	
VT Department of Public Safety	Voting Member	Vacant	
VT Agency of Human Services	Voting Member	Dan Jarvis	daniel.jarvis@vermont.gov
VT Association of Planning & Development Agencies	Non-voting Ex-Officio Member	Brian Voigt	voigt@cvregion.com
USDA NRCS	Non-voting Ex-Officio Member	John Van Hoesen	John.VanHoesen@usda.gov
United States Geological Survey	Non-voting Ex-Officio Member	Rena Kalmon	rkalmon@usgs.gov



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