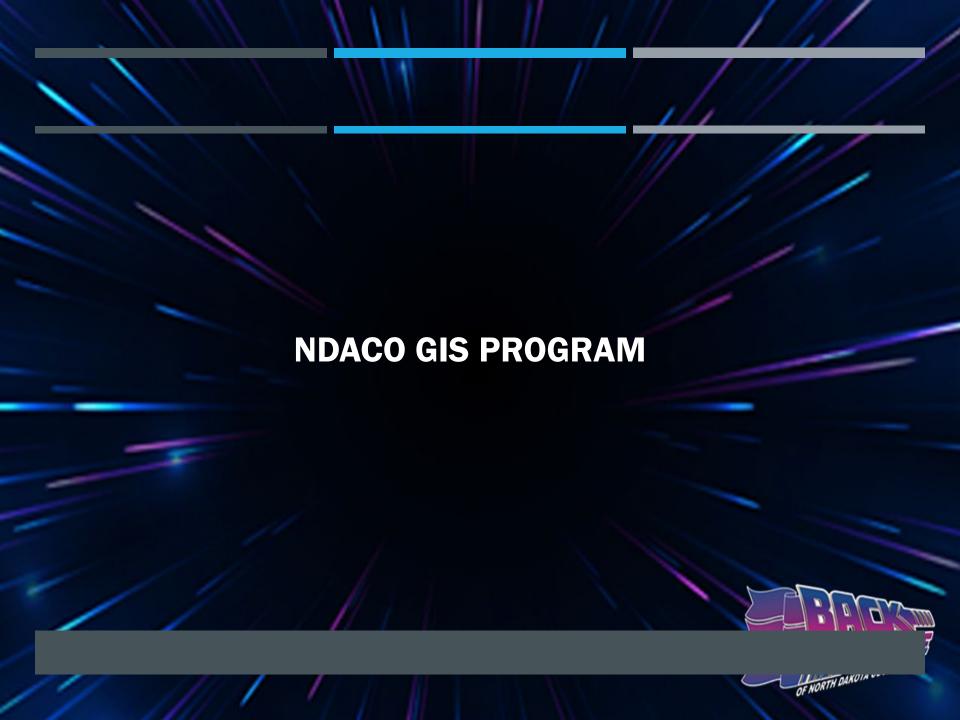
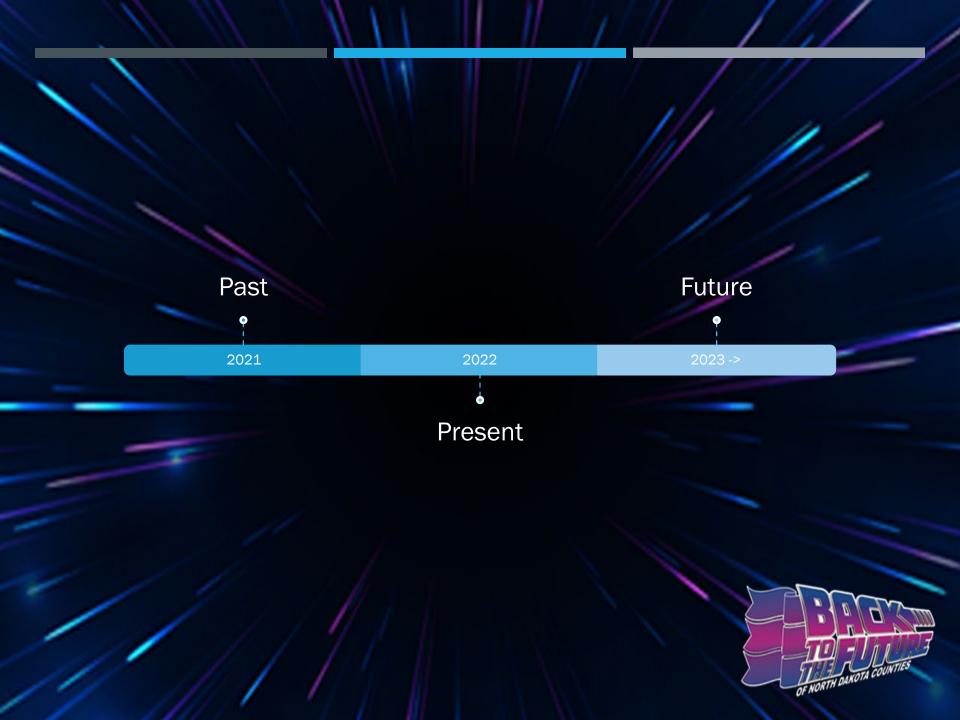
NDACO GIS PROGRAM & STATEWIDE PARCEL PROGRAM UPDATE



OF NORTH DAKOTA





NDACO GIS PROGRAM - PAST

- Recognition that GIS increasingly used in county government
 - Taxation
 - **911**
 - Census
 - Roads (GRIT)
 - Voting
- Provided NDACo Board a Proposal @ December 2021 Mtg.
 - Program given targets over 3-year period
 - If targets met, the program becomes permanent
- Board approved proposal and program officially kicked off on April 1, 2022.

OBJECTIVES

- Provide counties in need with access to a qualified GIS resource and services
- Perform data analysis and create digital map exhibits as needed for decision makers and the public
- Seek common efficiencies at the county level through an application of GIS technology and online mapping services
- Serve as a GIS liaison for counties with state and federal partners as deemed appropriate.

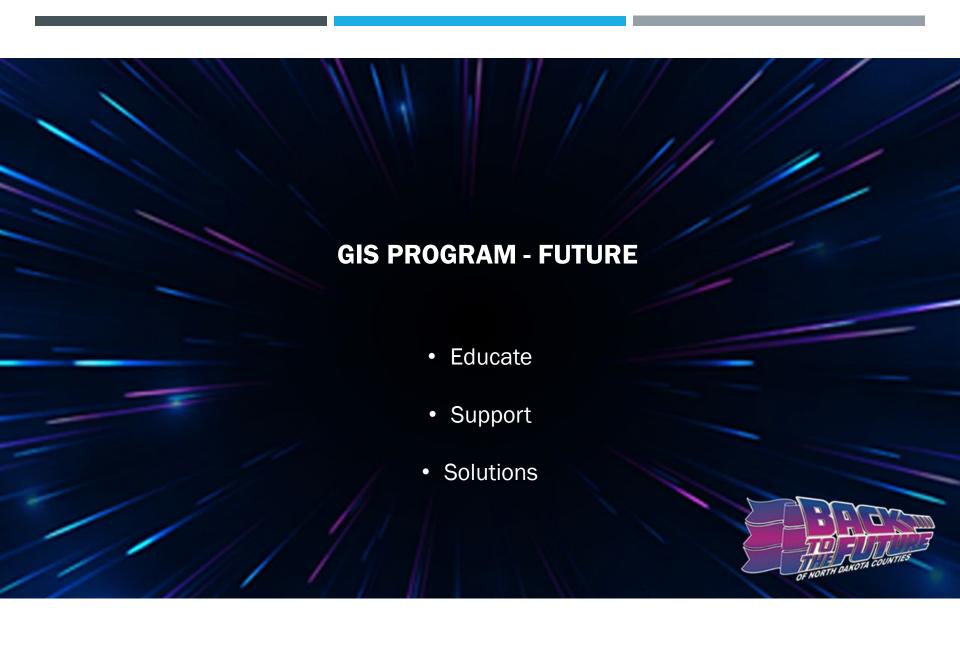


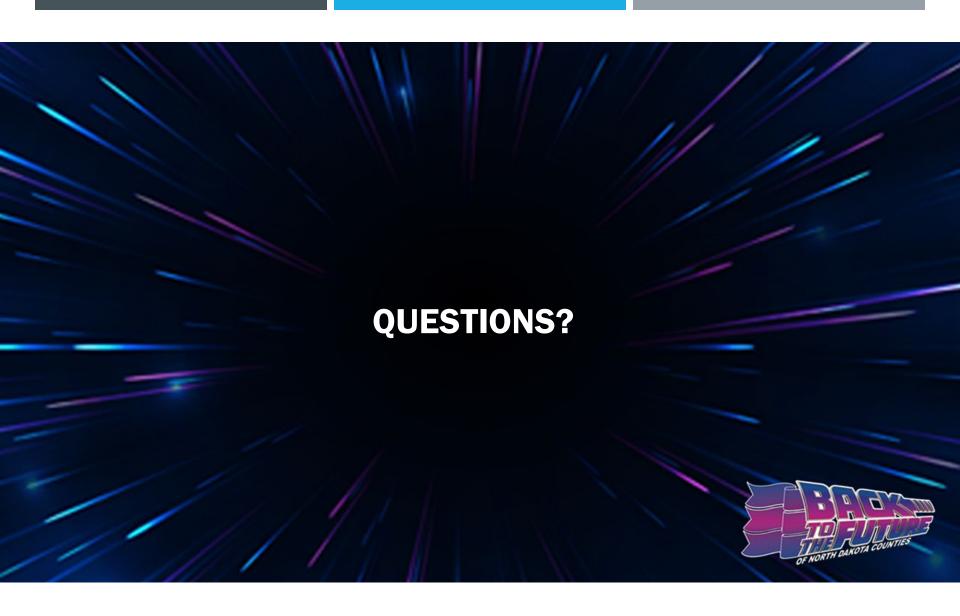
GIS PROGRAM - PRESENT

- 7 counties
 - Different needs, desires and objectives
- Time allowed
- Budgeting
- Additional services

PROJECTS

- Early stages of program
- Current efforts
- Communication
- Going forward







STATE PARCEL PROGRAM

Bob Nutsch North Dakota Information Technology State of North Dakota Dakota Be Legendary.™

Geographic Information Systems INFORMATION TECHNOLOGY

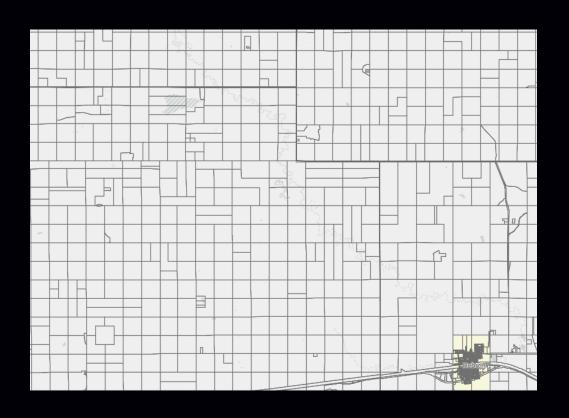
AGENDA

- What is it?
- Why?
- Background
- Behind the Curtains
- Current Work
- Future Plans



WHAT IS IT?

- Parcel boundaries (polygons)
- Parcel tax rolls (tables)
- Focus is on rural parcels
- Statewide coverage
- Data is aggregated from all 53 counties



WHY?

- NG9-1-1 address verification
- Animal disease outbreak
- Land access public and government
 - e.g., Game & Fish land posting app
- Infrastructure siting and planning
- Eliminate duplication of effort (state bugging counties)
- Reduce data requests to counties from nonstate entities
- Mitigate status of "flyover state" and "flyover county"

"When shopping for sites for expansion or relocation, large scale, sophisticated industrial and commercial firms usually seek to go beyond generalized data furnished by government economic development agencies and supplement those with their own studies, using county-specific parcel mapping and tax assessment data files.

Statewide open data systems give their localities a decisive advantage by making such data readily available. When such a system is not in place, expansion or relocation prospects often face substantial impediments in accessing these pieces of data. It's easy to understand why they simply shift their focus to areas where fences aren't built around data considered essential for a thorough 'due diligence' effort.

North Dakota is newly well positioned to see some promising results from its recent open data feature." - Roger Hurlbert, President, a company outside of ND

BACKGROUND

- Discussed off and on for years by the State Geospatial Committee (formerly the GIS Technical Committee)
- Parcel panel during the 2017 ND GIS Users Conference
- Dataset built during the 2019-2021 budget cycle
 - Compilation and QA in 7 batches of counties
- 91+ people involved!
 - State, tax directors, treasurers, recorders, GIS coordinators, counties' vendors
- Data became public July 1, 2021
- Funding for maintenance activities during the current 2021-2023 budget cycle

BEHIND THE CURTAINS

Used existing GIS Hub and State IT systems = \$\$\$ savings



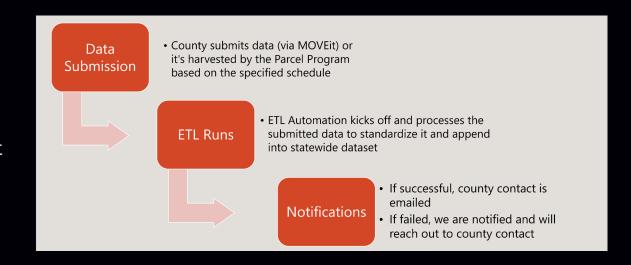
BEHIND THE CURTAINS – INPUT DATA

- Data from counties and vendors
- Variety of formats and access methods
- Each county has a schedule (flexible)

County	Parcel Data Submission Frequency	Parcel Data Submission Method	Parcel Data Submission Source
Cavalier	Yearly	FME - Harvest Web Service	Sidwell
Dickey	Yearly	MOVEit - Manual Load	Secure Software Solutions
Divide	Yearly	FME - Harvest Web Service	Sidwell
Dunn	Quarterly	MOVEit - Manual Load	Gworks
Eddy	Yearly	MOVEit - Manual Load	Sidwell
Emmons	Monthly	MOVEit - Manual Load	County
Foster	Yearly	MOVEit - Manual Load	Sidwell
Golden Valley	Monthly	MOVEit - Manual Load	County
Grand Forks	Yearly	MOVEit - Manual Load	County
Grant	Yearly	MOVEit - Manual Load	Gworks

BEHIND THE CURTAINS - PROCESSING

- County/vendor -> MOVEit (manual)
- Vendor -> MOVEit (automated/scheduled)
- MOVEit & FME software harvest from a data source
 - Explosion of ArcGIS Online data sources!
- 4 steps in the "ETL" processing



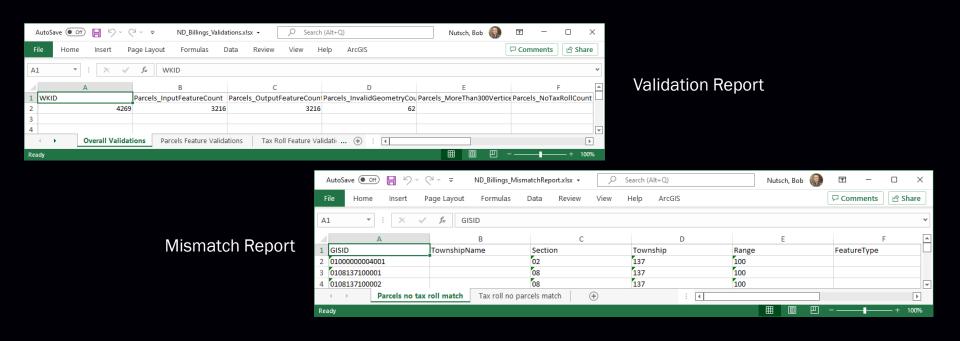
BEHIND THE CURTAINS – OUTPUT DATA

- Each data load Update the GIS Hub database
 - Used by State agencies
- Every morning Update the validation report zip files (Excel) on the Parcel Program website
 - Provides opportunity for counties and vendors to improve data where applicable
 - Criteria such as duplicate points, slivers
 - Tax roll data records not matching parcel boundary records

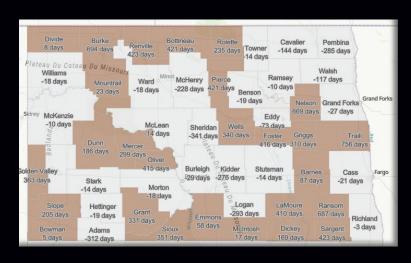
BEHIND THE CURTAINS – OUTPUT DATA

- Every Sunday morning Update the date imported status maps on the Parcel Program website
 - Provides feedback to counties and vendors
 - Depicts when the data was last imported by the State Parcel Program
- Every Sunday night Update the data on the Hub Data Portal
 - View, stream, and download data

BEHIND THE CURTAINS – OUTPUT DATA: REPORTS

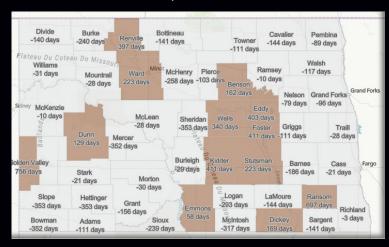


BEHIND THE CURTAINS – OUTPUT DATA: STATUS MAPS



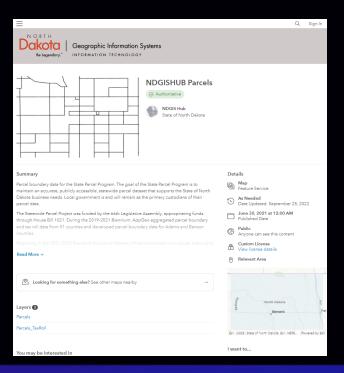
Date Imported – Tax Rolls

Date Imported - Parcels

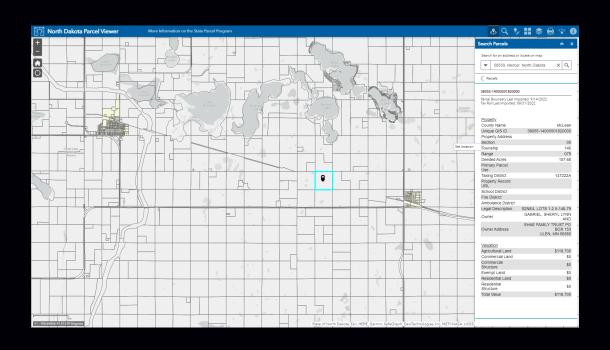


BEHIND THE CURTAINS – OUTPUT DATA: HUB DATA PORTAL





BEHIND THE CURTAINS – OUTPUT DATA: PARCEL VIEWER



FEEDBACK

Use the Submit Markup within the Parcel Viewer to report issues and submit questions

Use the Feedback button to help support the Parcel Program

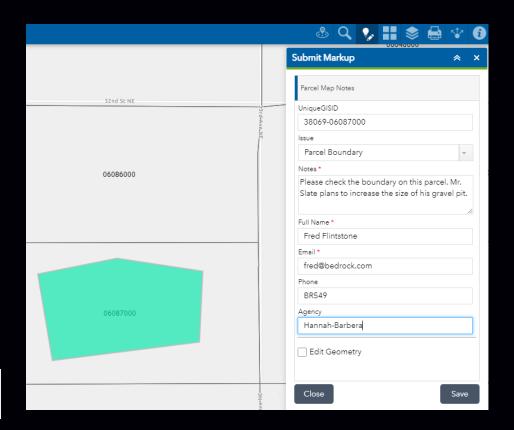
Your Feedback Makes a Difference!

If you use the North Dakota Statewide Parcel Dataset, we ask you to provide us some brief feedback to help us in our request for continued funding.

Please Click Here to Provide Your Feedback

Use the Contact Us button for questions and general comments.

Do you have a comment or a question not answered on this page? Please contact us!



CURRENT WORK

- Improve the currency of the tax roll and parcel boundary data
 - Necessary for maintaining value and use of the data, e.g., Game and Fish land posting application
- Reduce the # of records in the validation and mismatch reports
 - E.g., remove centrally assessed parcels
- Finish redaction

FUTURE PLANS

- Continue outreach to counties and vendors to improve processes and efficiency
 - Collaborate with NDACo's GIS Program
- Support usage in state agencies
 - Learn from the Game and Fish application
- Understand then overcome shortcomings
- Continued funding for 2023-2025
 - Maintenance and enhancements





Special Thanks to Counties and their Vendors!!

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Parcel Program Website: https://gis.nd.gov - Resources - Parcel Program

- Provide feedback
- View statistics
- View status maps
- FAQs
- How to access and use the parcel data
- Data provider resources
- Presentation slides and recordings
- More!



Geographic Information Systems
INFORMATION TECHNOLOGY