

THE YELLOW BRICK ROAD OF SPATIAL DATA INFRASTRUCTURES (SDI'S)

Boundaries, Roads, and Address Points, Oh My! Sheila Steffenson / CEO, 1Spatial Inc.

Data is an Asset and becomes even more valuable in an SDI



But how do we harness its value to gain Return on Investment (ROI)?

To do so you must step back and understand your data...

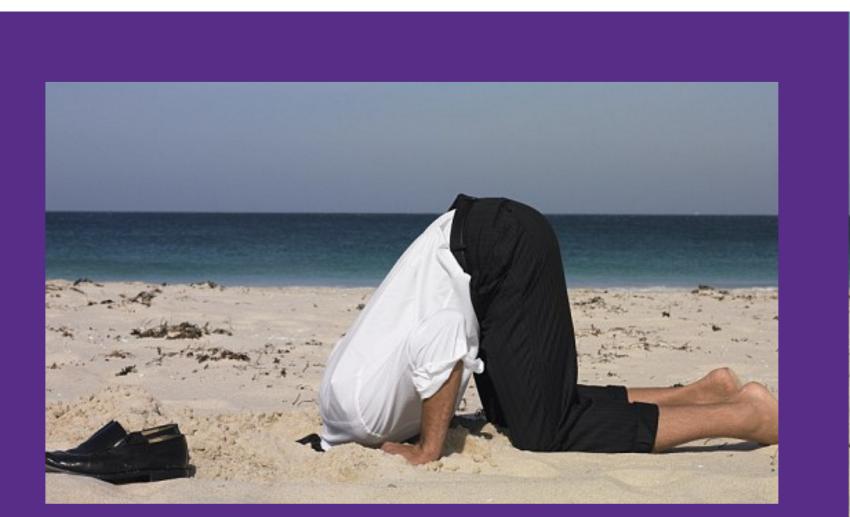
- What data is available and what is missing
- Who all needs access to the data and does it meet all the business needs
- > Processes for ensuring currency of the data
- Is data that needs protection properly protected
- Knowing the current quality of the data and establishing a plan to improve it



But...IT'S HARD!!!!



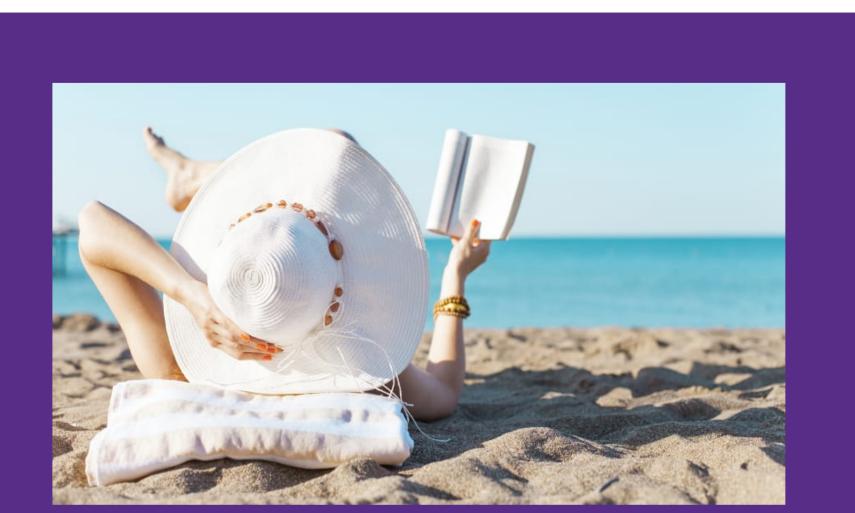
It can seem to be a very daunting effort

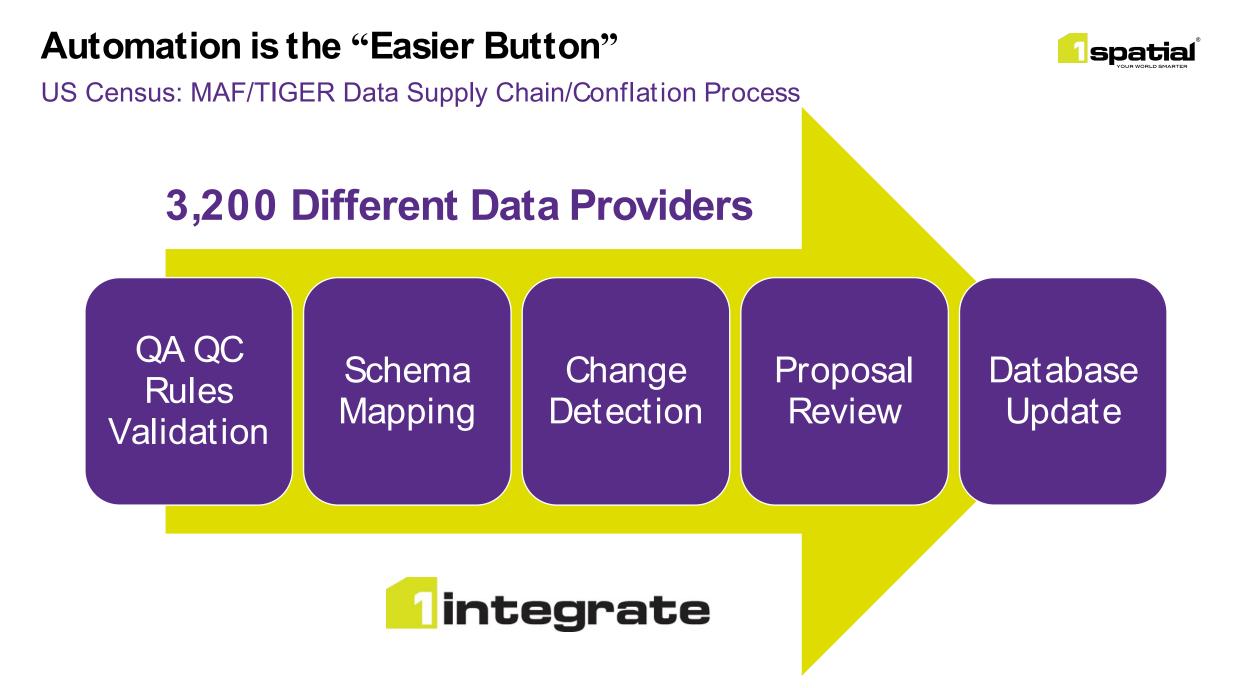


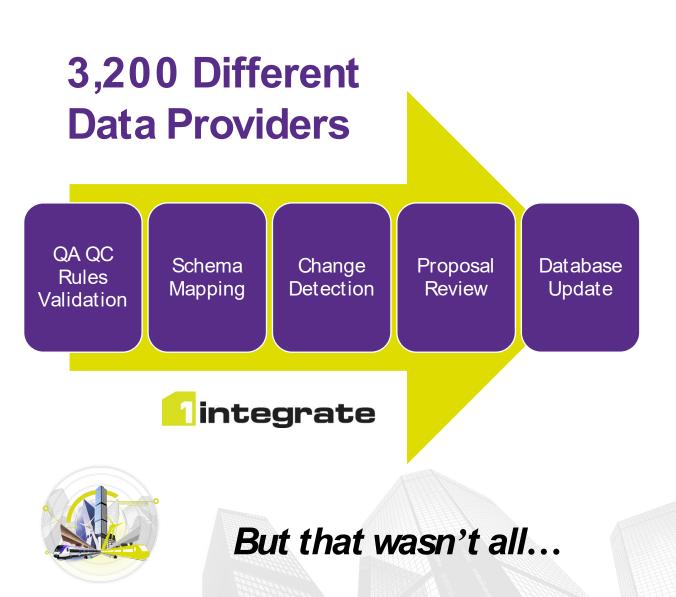
But it doesn't have to be



Automation is the "Easier" button!







90% Automation through iterative process improvement

- Automation of validating and ingesting the data
- Improved currency to the data Census shared out to Government and Public entities
- Improved quality of the data enabling better decision making
- Turned a largely manual process into a mostly automated one
- Freed people up to focus on the actual mission of the Census
- Significantly helped reduce the extent and cost of address canvassing for the 2020 Decennial Census

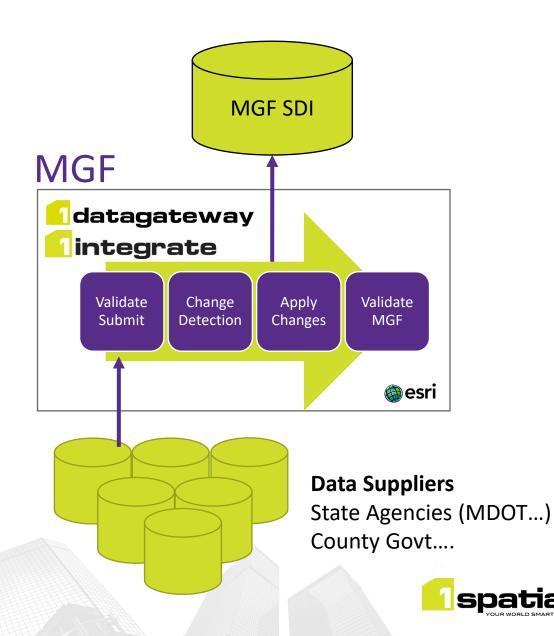


Michigan MGF

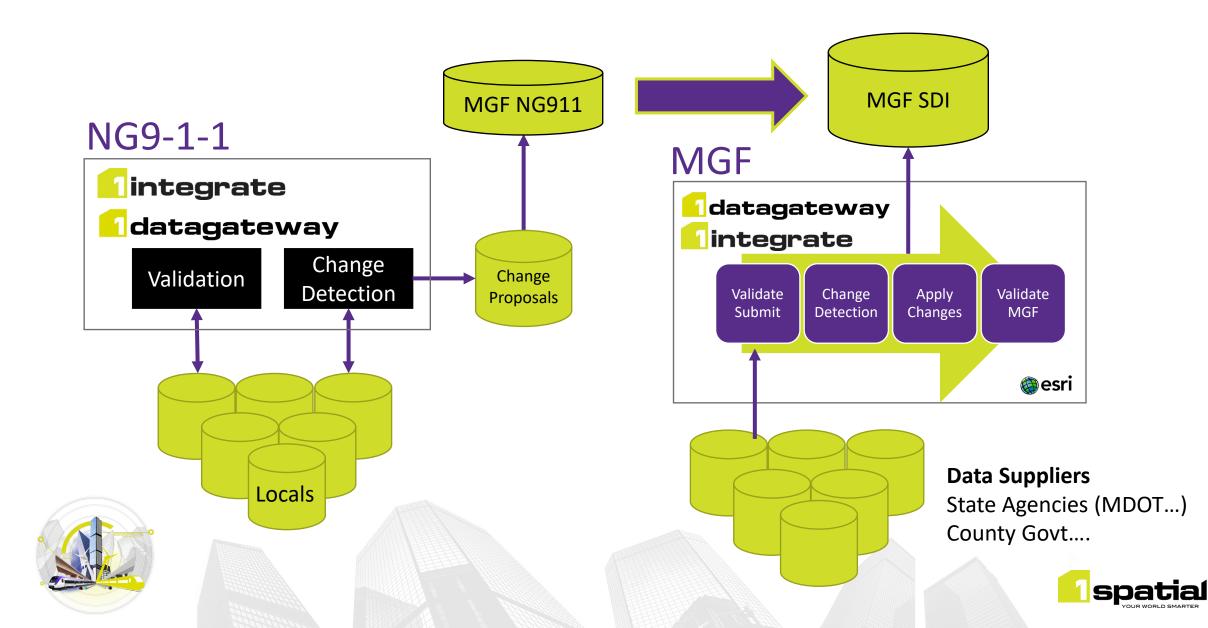


US Census work resonated with Michigan – a repeatable solution

- ➤ MGF was ready for a refresher
- The new process could provide increased efficiencies to validating and ingesting data through greater automation
- Integrate offered increased processing speeds and management of large data sets
- Enabled integration of the data in a more seamless manner
- Providing efficiencies to the currency of the data
- Improved data for better decision making

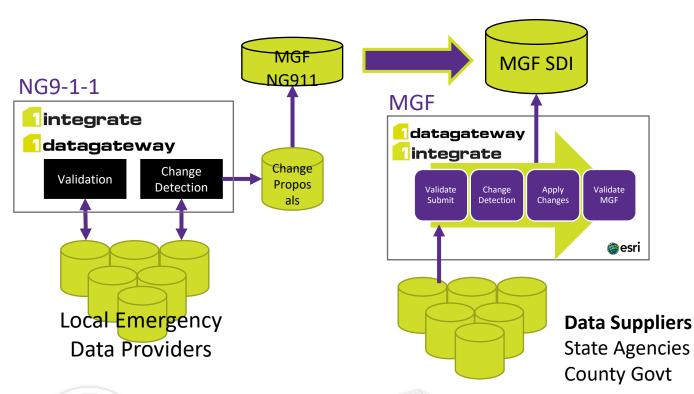








Providing all the benefits of a Data Supply Chain **PLUS**...



- Providing improved currency to the data being shared out to Government and Public entities
- ► Improving quality of the data enabling better decision making
- > Automating more of the integration process
- ► Freeing people to focus on the actual mission of the State
- Reducing cost through efficiencies

Plus...

- Providing feed back to the 911 data providers on where their data does not meet NENA requirements
- > Enabling them to more easily identify and correct any issues
- Automating the process for updating/maintaining the Statewide 911 repository
- Adding extra value to the MGF with additional data as allowed by the emergency data providers

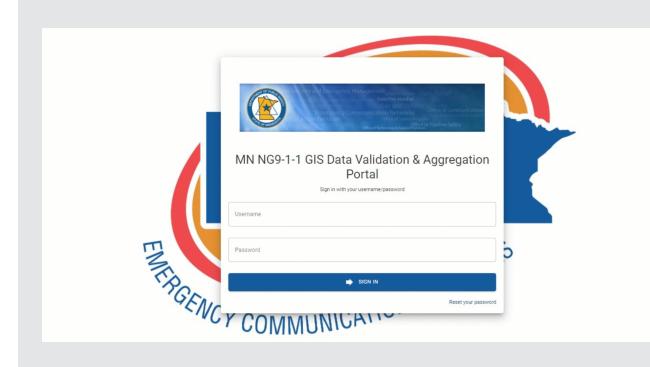


More than a Data Supply Chain...a true SDI



Next Generation 9-1-1 Implementation

Repeatable solutions to help states and counties clean Emergency Services data









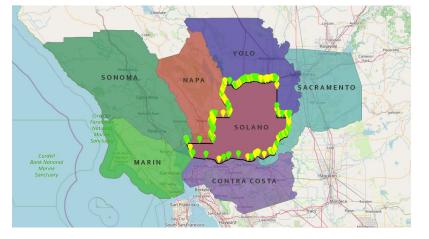






Beyond NextGen 911

Boundary Management	
Parcel Data	
Broadband	
Elections	
Hydrography (Conflation, PAI)	
And beyond	







Rules Engine Approach Return on Investment (ROI)

Huge time savings thru process automation

- > Freeing people up to focus on their business purpose rather than mucking around with the data
- > Automated cleanup or spatial report with location and description of the data anomaly for review/cleanup

> Eliminates the subjectivity of manually cleaning the data

- > Not everyone sees the "data fix" the same way which can lead to further introduction of error
- Rules are based on actual business requirements as set out by the Subject Matter Experts (SME's)

Steel threading of data across organizations

- Ensuring spatial and non-spatial data systems are in sync
- GIS and CAMA systems, Bridges and Pavement Databases, WHAT 2 911 SYSTEMS EXAMPLES, etc. reflect the same accurate information

Maintenance of the data moving forward utilizes those same rules to ensure the data quality continues

- > Not a point in time fix as is done when data cleanup is outsourced
- > A solution for the full life-cycle of the data



Increase end user confidence in the data

- Ensuring data is fit for decision making
- Everyday decisions and lifesaving decisions



Spatial Data Infrastructure Return on Investment (ROI)

> Creates an **authoritative**, statewide set of data layers

- > Emergencies, pollutants, roads, etc. don't stop at boundaries
- > Data funnels from the locals (who are the SME's on their locales) to the state

Makes the data more accessible

- Increasing the value of your data ssets
- Build once, use many

Reduces duplication of efforts

- Data development efforts
- Data sharing efforts

Drives collaboration

- Between Local entities
- Between Local and State entities

Economic benefits

Data available for businesses to make decisions on location (NYS example)



Potential to lay the groundwork for a TRUE National Spatial Data Infrastructure

Data flows from locals to state to fed



THANK YOU! Sheila Steffenson / CEO Sheila.Steffenson@lspatial.com

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Space Your world smarter

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