NYSDOT's System of Engagement

*How they created a single,
shared, authoritative destination
for data and information*

Presenters:
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Presenters

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Director
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Stan Burns
Principal
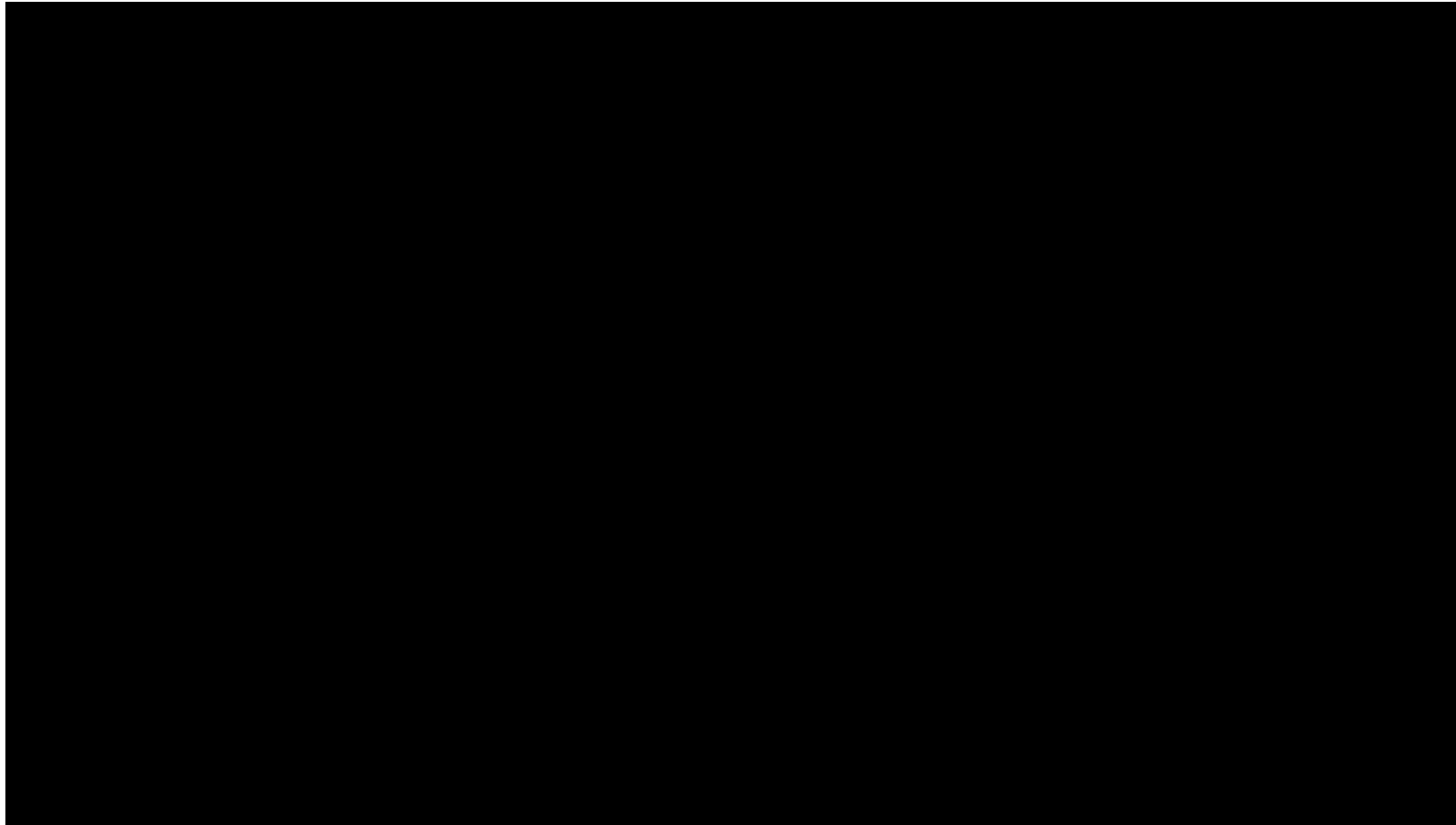Integrated Inventory
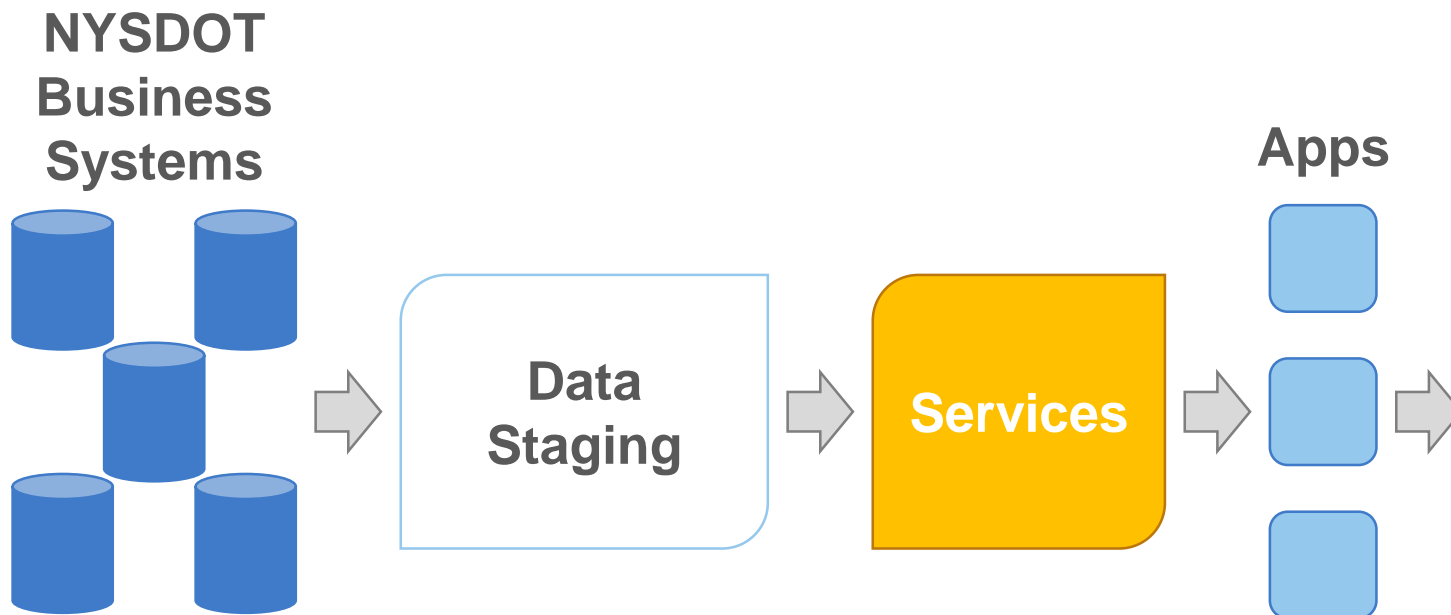
Fmr. Director
Asset Management
UDOT

John Guymon
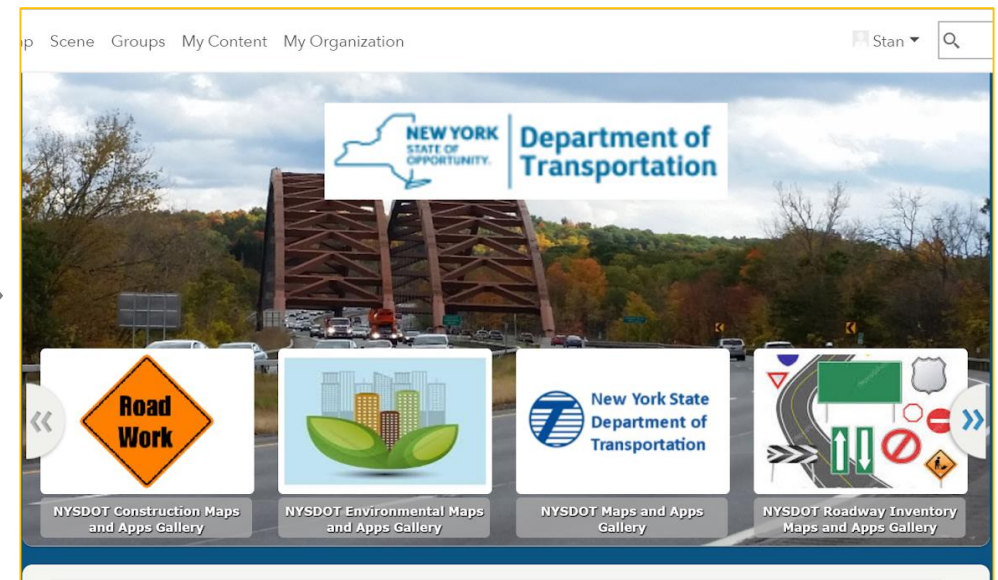Co-founder/Evangelist
Numetric

Fmr. Data Design
Engineer
UDOT

Challenges and Vision

1. Building an ecosystem for better engagement

2. Scoping the project

People & Processes

Pre-workshop Interviews
- Maintenance
- Environment
- Traffic & Safety
- Construction
- Design
- Materials
- Pavement
- ITS
- Planning
- Programming
- Roadway Inventory
- Asset Management

On-site Workshops
- Business & Technical Tracks
- 40 Different Group Meetings
- 72 Business Interviews
- 62 Technical Interviews

Programs

- Data staging
- Stand-up agency portal
- Prioritize 37 applications

3. Starting implementation w/ user stories

"What would you like to do that you can't do currently?"

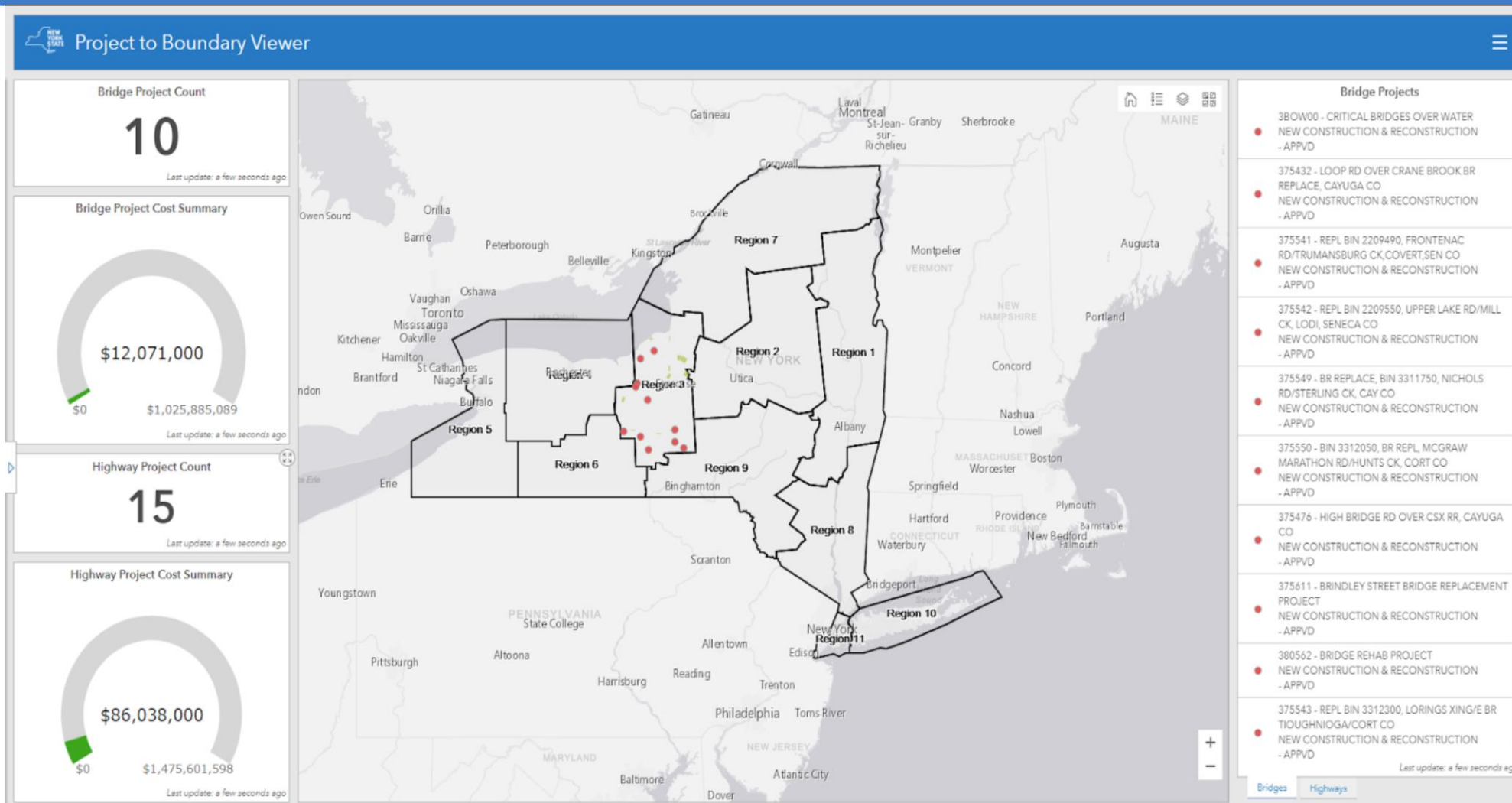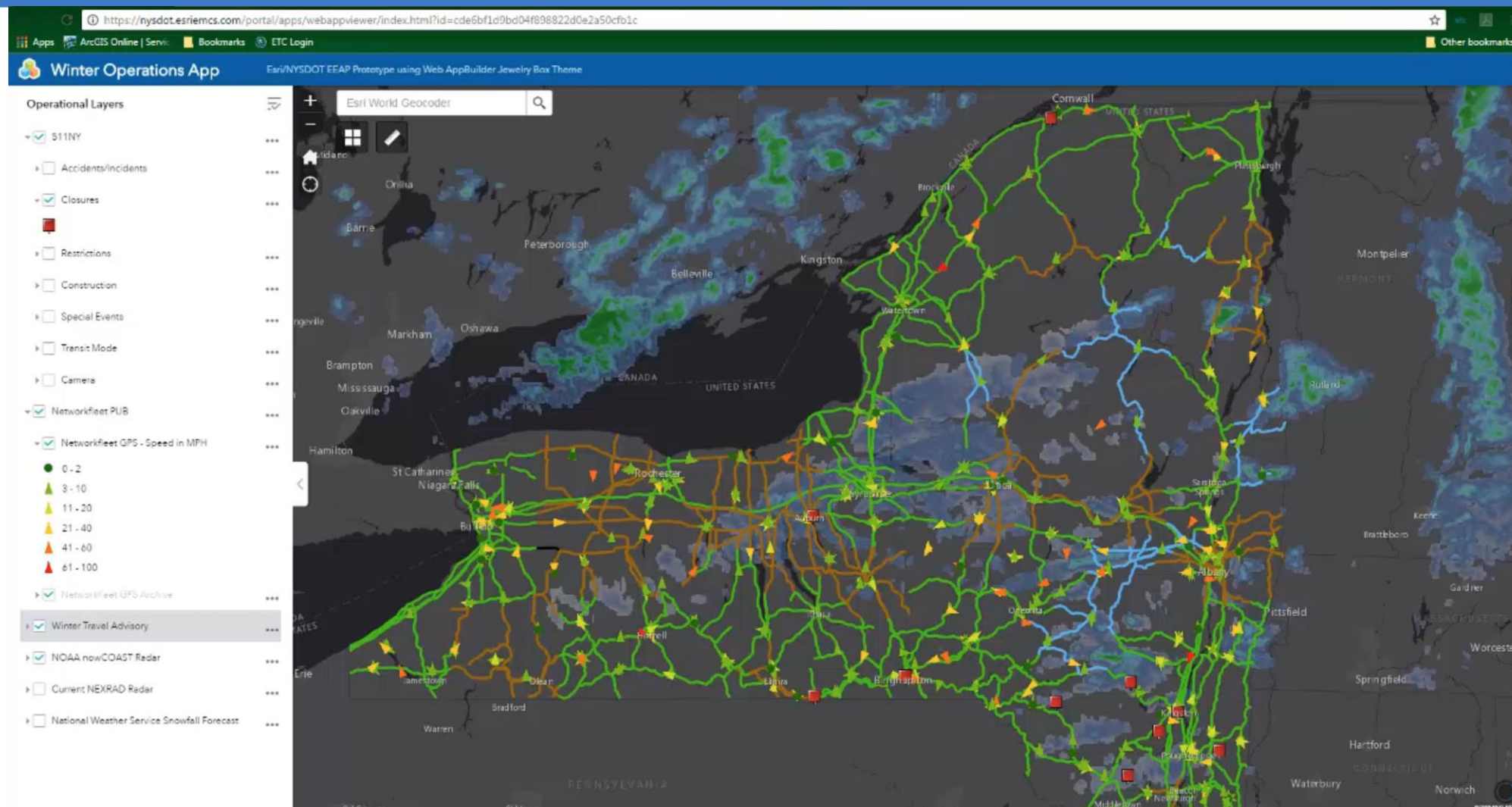| Winter Operation	Safety Viewer	Incident Response
Flood Response	Project Viewer	STIP Viewer
Surface Water Screening	Pavement Viewer	Bridge Data Viewer

Ex: Project Viewer App

Ex: Winter Operations App

4. Setting the stage for more authoritative data

Goal: Create authoritative information

Perpetual cleansing | Real-time | Accessible anywhere

Easily modified | One-time setup | Easily maintained

7 business systems

ROW   Maintenance   Safety   Materials

Project   Finance   Asset

Lessons Learned

- **Champion the Change** – Vision, Stature & Allies
- **Discretionary Funding** – Prime the pump.
- **Prioritizing Projects** – Start with the most essential, foundational data.
- **Information** – 20% of data is used 80% of the time.
- **Visualization** – Map Displays
- **Windows of Opportunity** – They open and close.
- **Legacy** – Administrators come and go, but systems, policy, and strategy leave a long-lasting impact.
- **Paradigm Shift** – Freeing data from systems that only experts can use creates a new way of thinking about data.

Thanks!

To see a live demo of how NYSDOT is staging their data, visit the Numetric table.

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