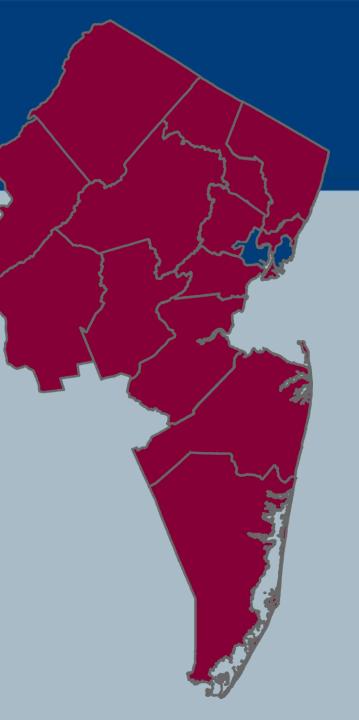
Proof of Concept: Federated Data Sharing Model December 3, 2014



NJTPA Region

BergenNEssexNHudsonCHunterdonFJersey CitySMiddlesexSMonmouthC

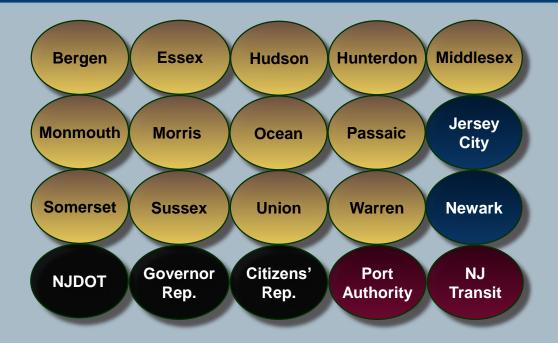
Morris Newark Ocean Passaic **Somerset** Sussex Union Warren





North Jersey Transportation Planning Authority

The Metropolitan Planning Organization for Northern New Jersey

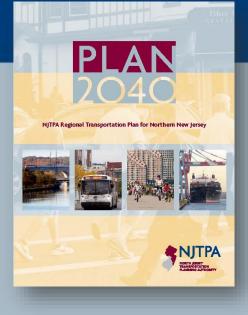


STANDING COMMITTEES

Planning & Economic Development Committee Project Prioritization Committee Freight Initiative Committee Regional Transportation Advisory Committee

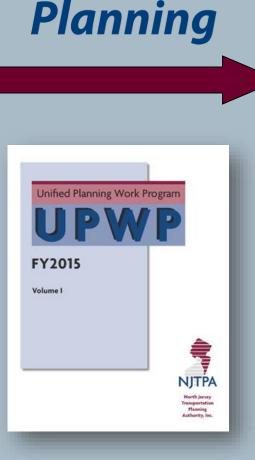


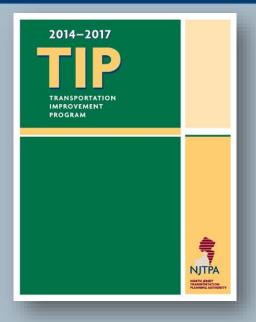
MPO Key Products



Regional Transportation Plan (RTP)

Updated every four years





Transportation Improvement Program (TIP) Updated every two years

Regional Transportation System

- **Road Network:**
- 147 million vehicle miles each day
- 26,000 miles of roads, including 177 miles of toll roads
- 4,800 bridges

Transit Network:

- 732,000 trips daily
- 13% of commuters ride transit
- 250 bus routes
- Commuter rail: 390 miles of track, 150 stations

Federated Sharing Model

The Beginning



Federated Sharing Model: The Beginning

- Enterprise Geographic Information System database developed and implemented in 2009
- Data repository for the region
- Web-interface for data exchange



Federated Sharing Model: The Beginning

Email GIS Technical Contacts every quarter

Data updates uploaded to FTP site

Data QA/QC by GIS staff at NJTPA

Uploaded to the Web-Interface



Federated Sharing Model: The Beginning

 Challenges:

 Changing technology
 Static process





Federated Sharing Model

A Technology Shift



GALLERY MAP GROUPS	5 MY CONTENT MY ORGANIZATION		Gabrielle *	
	₹NI	TPA NORTH JERSEY TRANSPORTATION PLANNING AUTHORITY		
		efining the Vision. Shaping the Future.		
	turned Constant			
NJTPA Fea	tured Content		a h	
The start		E B	· V Anti-	
«		ilen Oradell Borrugh ock Frugh Paramus		»
«		ilen Oradell Borpugh ock Paramus Borpugh s		»

The NJTPA is the federally authorized Metropolitan Planning Organization for 6.6 million people in the B-county northern New Jersey region. Each year, the NJTPA oversees more than \$2 billion in transportation improvement projects and provides a forum for interagency cooperation and public input. It also sponsors and conducts studies, assists county planning agencies and monitors compliance with national air quality goals.

- Approach:
- Identification of seven pilot organizations
- Informational Session on project vision and goals
- On-site support for set-up of AGO
- Initiate exchange



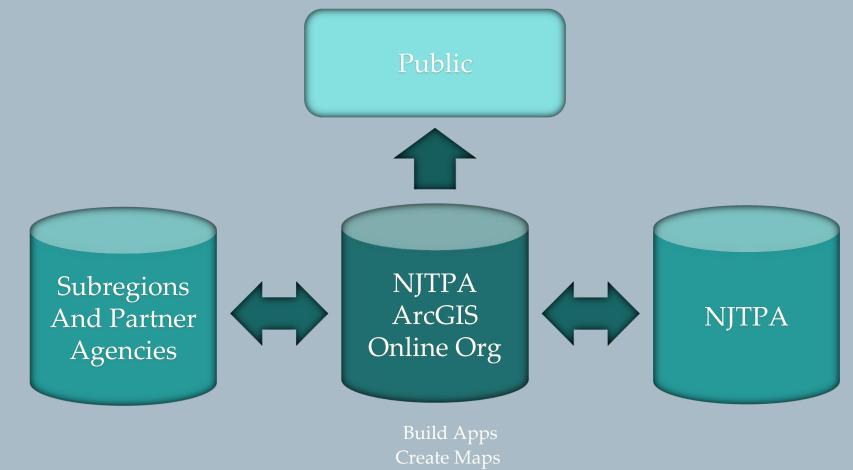
My Groups

h CREATE A GROUP

Group Types:

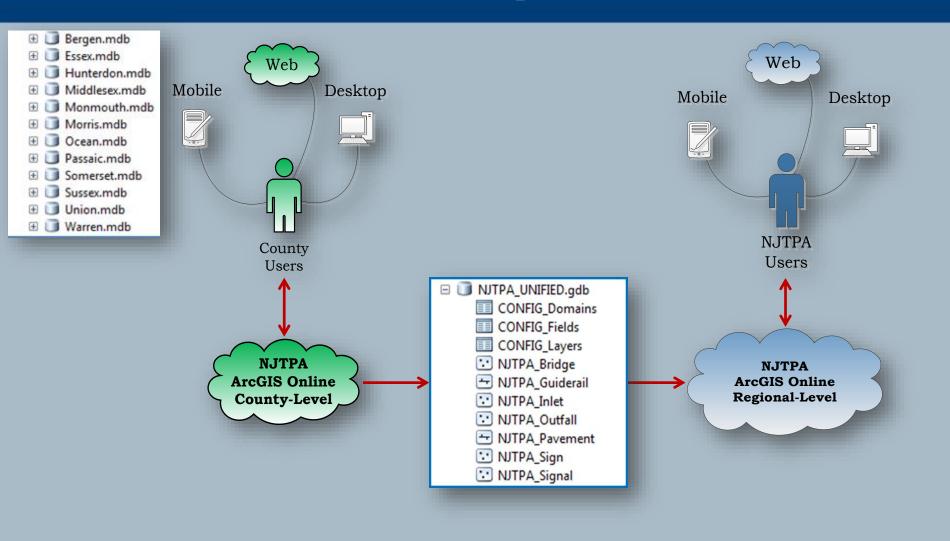
- Operational
 - Admin •
 - **NJTPA Share**
 - **NJTPA Feature** Content
- Content
 - Transportation
 - **Economics**
 - Land Use •
 - **Environmental**

Show	You are a member of 23 groups		Find	
All My Groups		Admininstration	The organization's groups	
Owned by Me Owned by Others With New Membership Requests		Provides information and data for the administrators of the site. reated by gfausel_NJTPA on February 19, 2014	The organization's groups that are pu	blic
	Details	xa Basemap	Featured Groups	
	*	NJTPA Basemap Gallery created by gfausel_NJTPA on January 23, 2014	National Maps for USA	
	Details	x	Esri Maps and Data	
		County Sub Regions This group will be dedicated for those NJTPA County Sub regions to access their asset data	Community Basemaps	
	0	created by Nick.Hutton_NJTPA on August 5, 2014	Landsat Community	
	Details	4 Economics	Web Application Templates	
		Provides information on data related to demographics such as forecasting, employment, population, and household income as well as other economic related data.	ArcGIS for Local Government	
	NJTPA Details	created by gfausel_NJTPA on February 14, 2014	NJTPA Featured Content	
		Environmental	County Sub Regions	Ŧ
		Provides information on climate change, air quality conformity, and other environmental related datasets.		
	NJTPA Details	created by gfausel_NJTPA on January 27, 2014		



Share Conten

Federated Sharing Model: Example



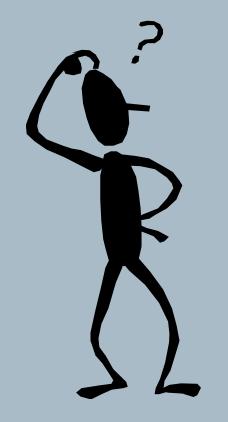
Federated Sharing Model: Example

- Internal sharing and analysis of data for non-GIS users
 - Enhanced workflows
 - Greater accessibility to our data resources
 - Increased productivity/efficiency

Federated Sharing Model: Next Steps

- Follow up with pilot organizations for feedback
- Continue to populate the NJTPA organization with meaningful datasets
- Deployment and training for additional partner agencies and staff
- Development of new applications and GIS services to support our partner agencies

Questions





Thank You

Defining the Vision. Shaping the Future.



One Newark Center, 17th Floor Newark, NJ 07102 (973) 639-8400 www.njtpa.org Gabrielle Fausel Principal Planner gfausel@njtpa.org



follow us on