

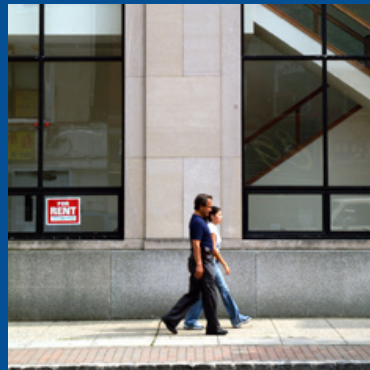


Enterprise-Class GIS Project

AECOM

November 13th, 2009
E-GIS : Steering Committee

1. Project Status
2. Geodatabase: Design and Implementation
3. Geoportal Workshop



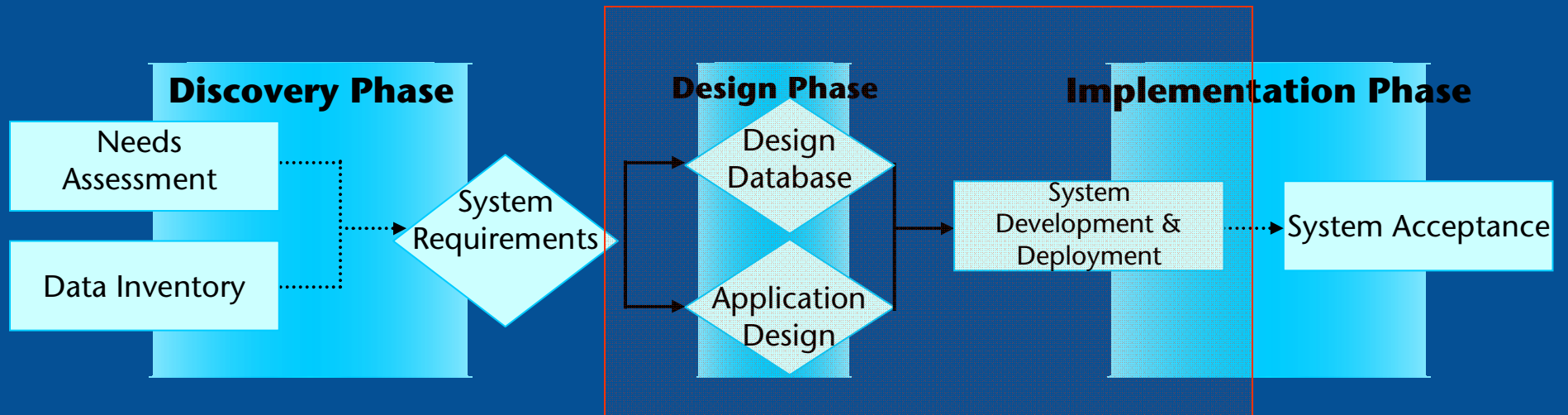
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Project Approach

9 General Tasks (7 Technical Tasks)

12 Months





Task 3 – Database Design

NJTPA Database

Composed of 13 Subject Areas and associated GIS layers and Tables



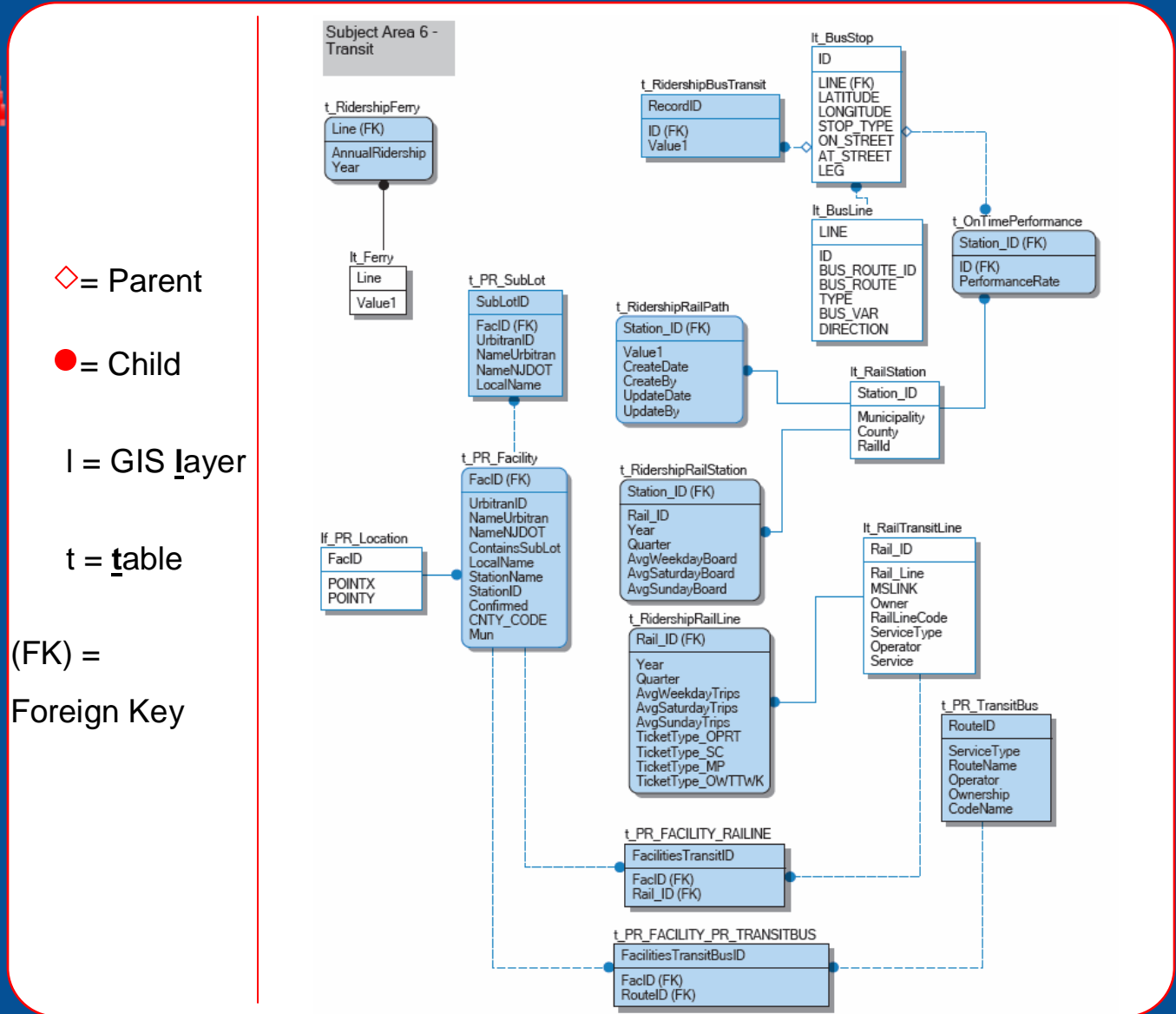


Task 3 – Database Design (Transit Subject Area example)



Associated tables
and GIS layers

Modeling data
relationships
during processing



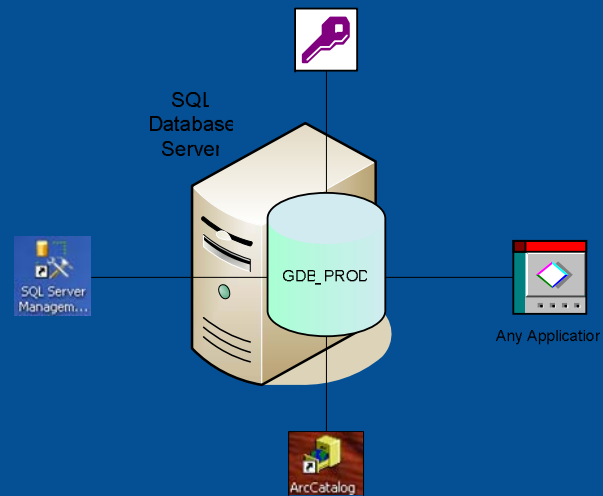


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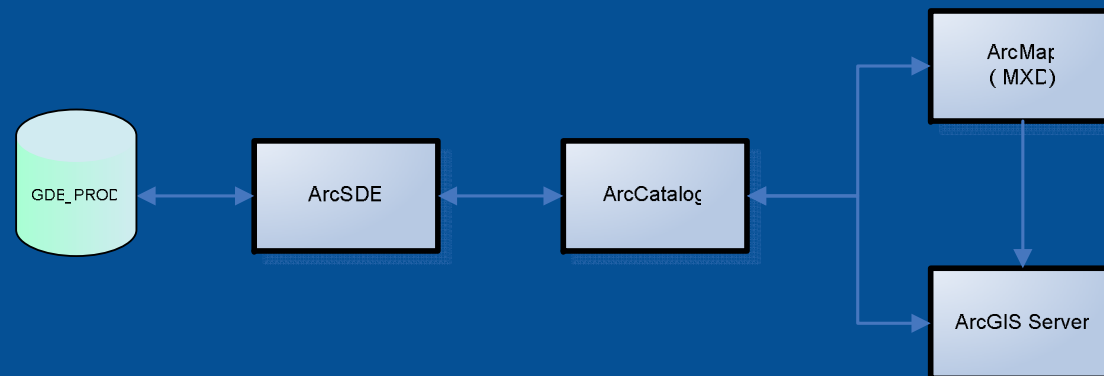
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Task 3 – Database Design – Internal Data Access

All Data:



GIS Data:



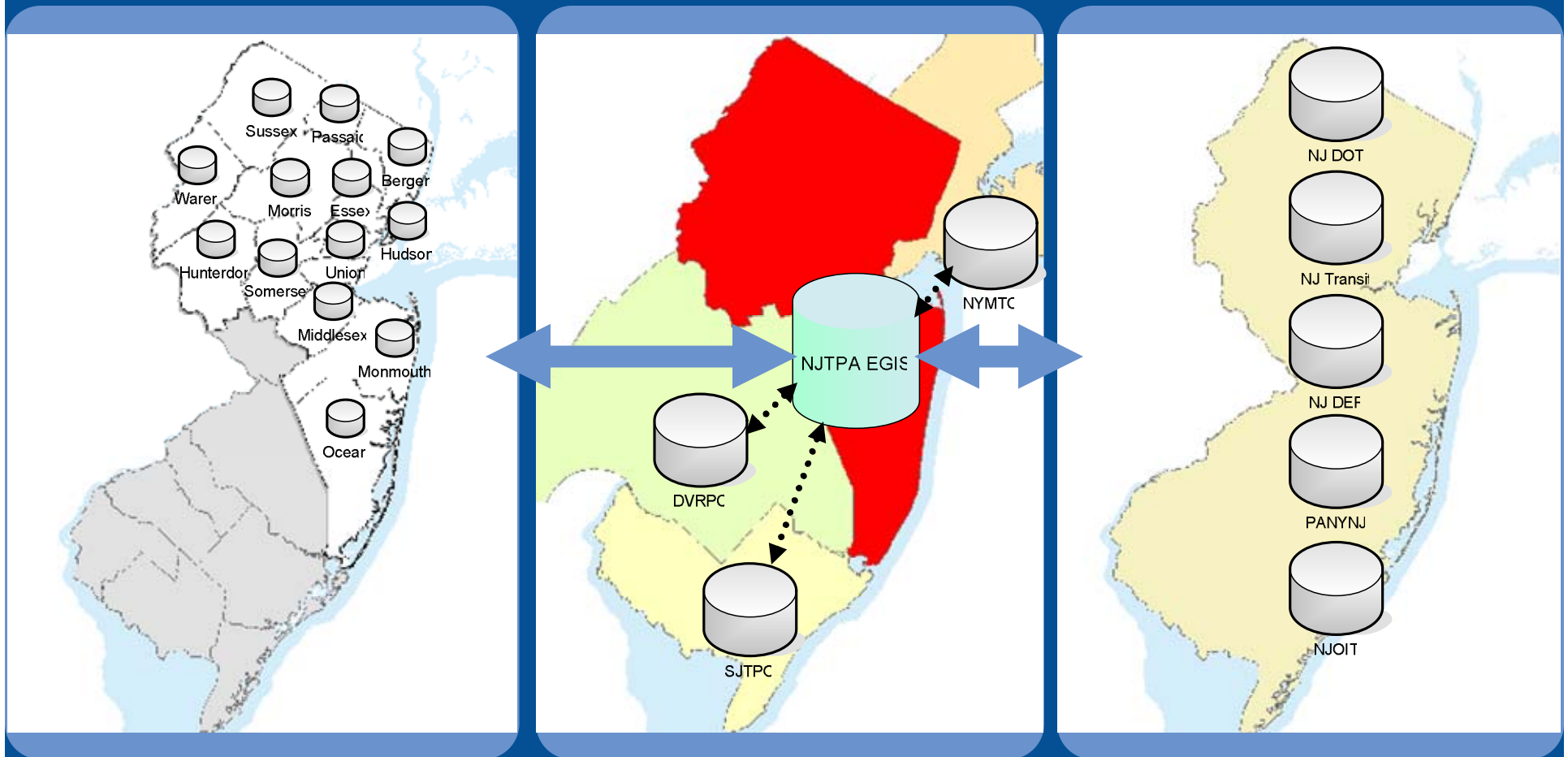


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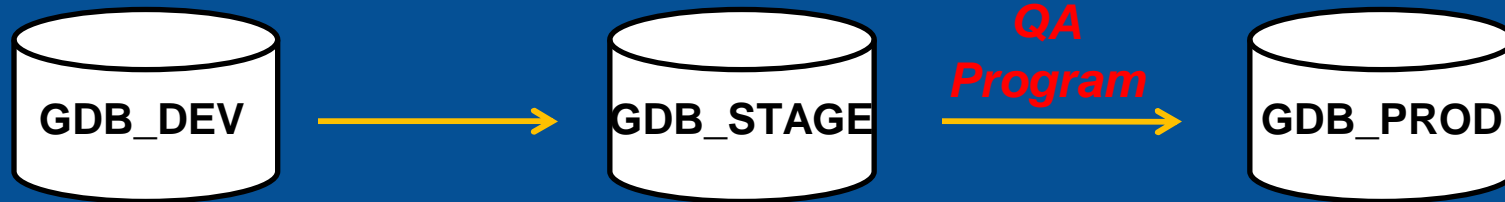
Task 3 – Database Design – Data Sharing

WHAT TO DO?





Task 3 – Database Design – Deployment

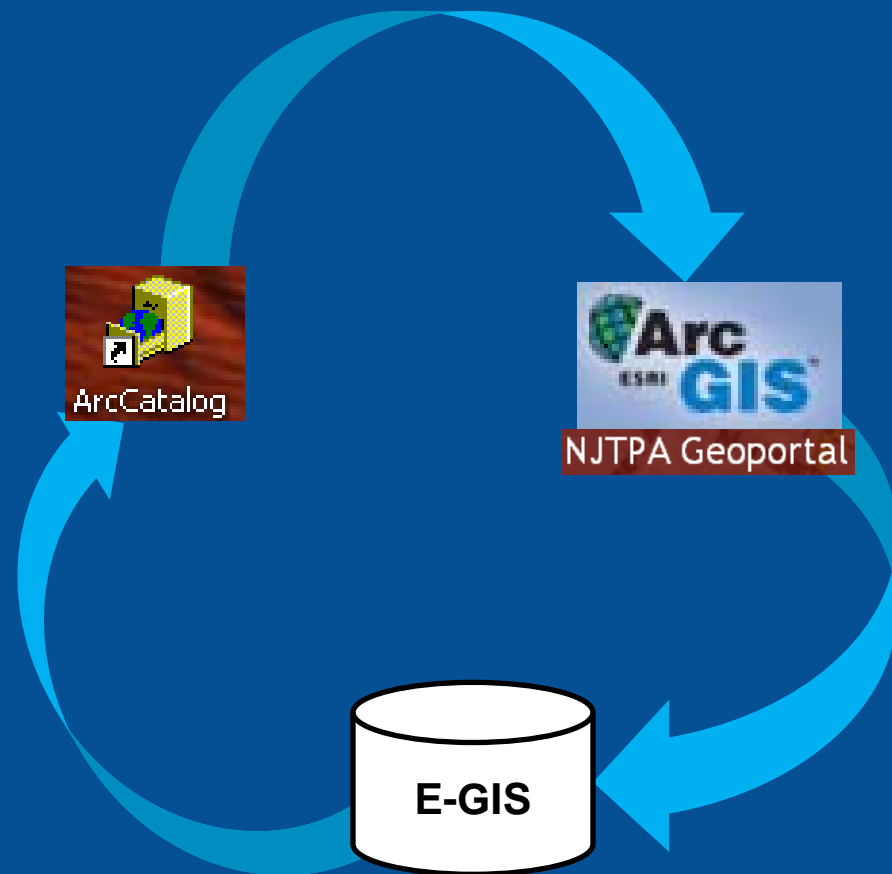


- Responsible Party and Department
- Correct Coordinate System / Projection
- Correct Naming Conventions
- Schema Consistency
- Complete Meta Data
- Quality Check by Database Group
- Aggregated to County Level



Task 3 – Database Design – Data Sharing Service Oriented Architecture

- Map Services
- Geodatabase Services
- Metadata Services

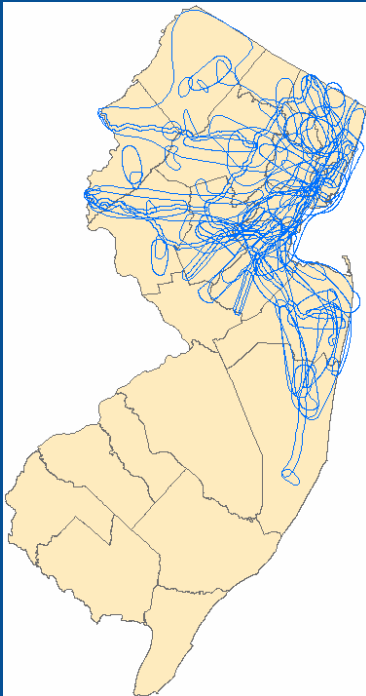




Task 3 – Database Design – Data Sharing

Map Services Access

map doc



- 1. Desktop ArcGIS
- 2. ArcGIS Server / Web
- 3. ArcGIS Server / Geoportal
 - shp download
 - .lyr in ArcCatalog

Any Network (LAN / WAN)



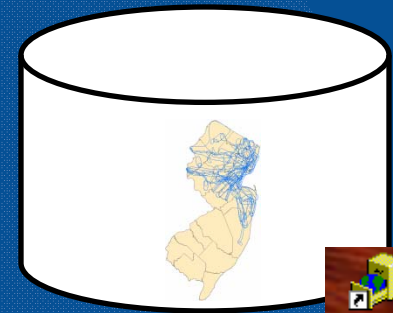
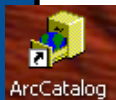
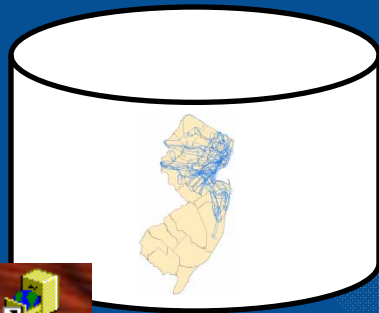
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Task 3 – Database Design – Data Sharing

Geodatabase Services Access

Direct Transfer from one GD
to another GD



- ArcToolbox
 - + 3D Analyst Tools
 - + Analysis Tools
 - + Cartography Tools
 - + Conversion Tools
 - + Coverage Tools
 - + Data Interoperability Tools
 - Data Management Tools
 - + Data Comparison
 - + Database
 - Disconnected Editing
 - Check In
 - Check In From Delta
 - Check Out
 - Export To Delta
 - Distributed Geodatabase
 - Add Global IDs
 - Compare Replica Schema
 - Create Replica
 - Create Replica Footprints
 - Create Replica From Server
 - Export Acknowledgement Message
 - Export Data Change Message
 - Export Replica Schema
 - Import Message
 - Import Replica Schema
 - Re-Export Unacknowledged Messages
 - Synchronize Changes



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Task 3 – Database Design – GEOPORTAL Demo

NJTPA Geoportal - Microsoft Internet Explorer provided by NJTPA Information Technology

http://tpa-geo:8080/geoportal/catalog/main/home.page

File Edit View Favorites Tools Help

Google Search

NJTPA Geoportal

Welcome, Zenobia [Logout](#) [My Profile](#) [Help](#) [About](#) [Feedback](#)

NJTPA Geoportal


HOME SEARCH ADMINISTRATION REPOSITORIES

Search

[Search In : This Site](#)
[Search by Category](#)
[Clear](#)

WHERE

Anywhere Intersecting Fully within



Results 1-2 of 2 record(s)

Expand results [Zoom To Results](#) [Zoom To Searched Area](#)

[NJTPA Location Map](#)

[New Jersey MPOs](#)

See results through REST API: [GEORSS](#) [ATOM](#) [HTML](#) [FRAGMENT](#) [KML](#)

This Geoportal was built using the ArcGIS Server Geoportal Extension 9.3.1. Please read the [Disclaimer](#) and [Privacy](#) or [Contact Us](#).



Task 3 – Database Design – GEOPORTAL Workshop

Register

1. Open NJTPA Geoportal by entering the following URL into your web browser: **<http://tpa-geo:8080/geoportal/>**
2. Click on Register at the top-right of the page. Fill out all the information and click Register.
3. Click on Login at the top-right and enter your username and password that you just created.



Task 3 – Database Design – GEOPORTAL Workshop

Feedback

1. Based on data exchange options, what method would you prefer?
 - a) Web Application Access
 - b) ArcCatalog
 - d) Replication
 - e) Geoportal
2. Is all the data that you expect to be included in the NJTPA EGIS included?
If not, please indicate which data items you would like to see?
3. Is the present data loaded into the EGIS sufficient for future applications?
4. How can the Geoportal be made easier to navigate?