



Regional GIS Project

An Overview

March 25, 2011



Regional Catastrophic Preparedness Grant Program

US Department of Homeland Security initiative

**Seeks to enhance regional capability to
withstand and recover from a catastrophic
event**

**Support coordination of regional all-hazard
planning**



Regional Catastrophic Planning Team (RCPT)

Representation across the states (NY, NJ, CT, PA)

Representation across government levels (State, City, County)



**THE PORT AUTHORITY
OF NY & NJ**





Regional GIS Project Update

Regional Catastrophic Planning Team (RCPT) – Nine core projects

- 1 - Regional GIS Project
- 2 - Evacuation and Sheltering Plan
- 3 - Radiological Dispersal Device Plan
- 4 - Disaster Housing Recovery Plan
- 5 - Infrastructure Protection Plan
- 6 - Mass Fatality Plan
- 7 - Debris Management Plan
- 8 - Continuity of Operations Plan
- 9 - Logistics Program



Regional GIS Project Update

- **Identify and appraise geospatial data**
- **Data pertinent to effective regional, catastrophic emergency management within the project site**
- **Including necessary information to contact organizations and/or individuals that are stewards of the data.**



Regional GIS Project Update

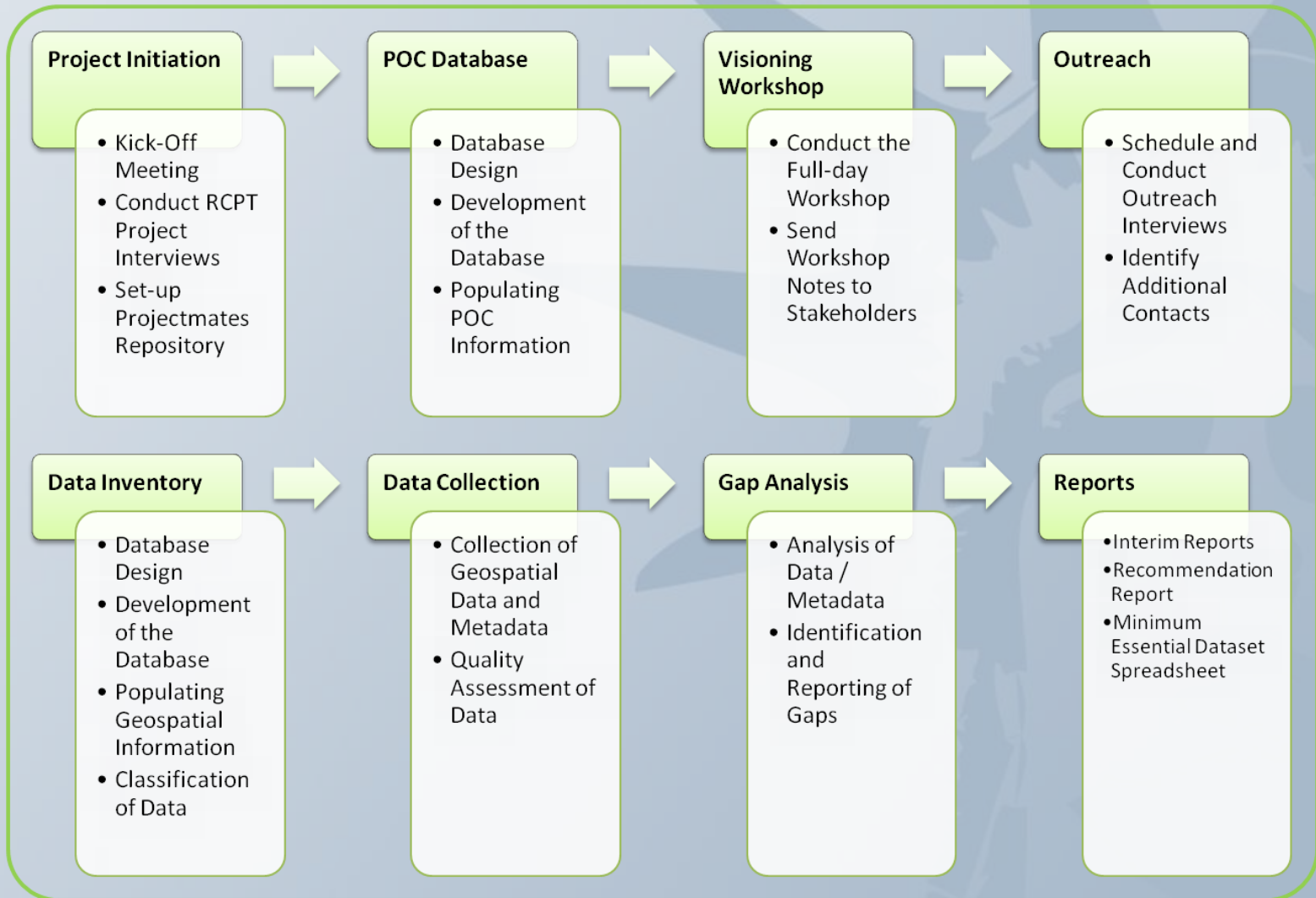
Deliverables

1. Point of Contact Database
2. Data Inventory Database
3. Gap Analysis
4. Recommendations Report





Project Methodology





Visioning Workshop Results

Strengths

Strong relationships in the GIS Community
State GIS Coordination

Weaknesses

Staff limitations for regional initiatives
Public record law restrictions
Need for additional voices to be heard



Visioning Workshop Results

Opportunities

- **Project marketing/elevator pitch**
 - Executive level
 - Essential concepts

- **Improved collaboration between local/city and state**
 - Geo-Extension officer concept





Visioning Workshop Results

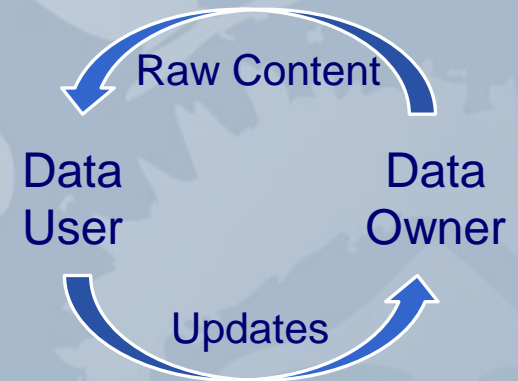
Opportunities

➤ Sharing knowledge of data maintenance best practices

- SLA/MOU
- Feedback loops
- Alignment of attribution

➤ Defined quality standards for data

- Spatial accuracy
- Accuracy of attribution
- Compilation/aggregation





Visioning Workshop Results

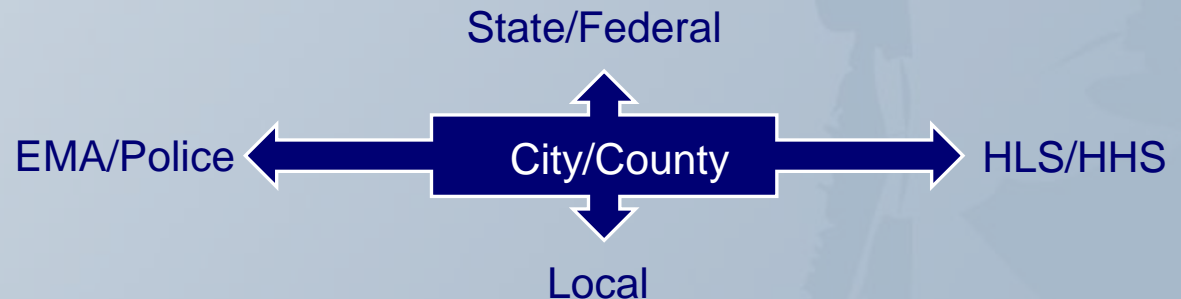
Opportunities

➤ Geospatial Concept of Operations

- Who?
- Does What?
- With What Data?
- When?



➤ Improved leveraging of funds to support vertical AND horizontal capability

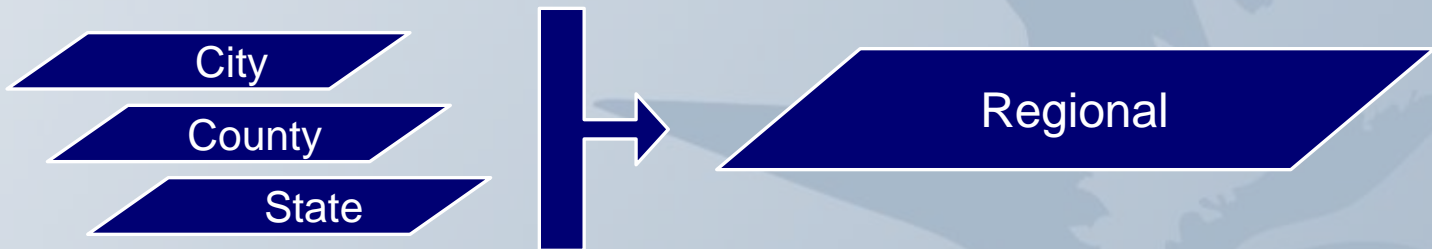




Visioning Workshop Results

Opportunities

- Regional, integrated spatial datasets



- Regional data sharing architecture

- On-Demand
- SOA
- Federated





Successful Outreach

- Locating the appropriate contact
- Persistence in communication
- Onsite meetings or conference calls
- Follow-ups for details
- Contact recommendations



Data Inventory

- Administrative delays (license agreements, RFIs)
- Lack of formal metadata or incomplete metadata
- Data from vendors
- Local data vs. state/federal data



The Database (Drum Roll Please...)

Features


- Access to related geodatasets, organizations, and contacts
- Filter directories (e.g., keyword, taxonomy)
- Generate reports for single entries or compiled directories
- Export contacts into virtual business cards
- Active URL links to organizations' websites

And Sooo Much More....



Point of Contact Database

Contact Information

 **Regional Catastrophic Planning Grant Program**
Point of Contact and Data Inventory Database

Contact Information

Note: Click a text box's label to copy the text box's value to the clipboard

Salutation:	Mr.	First Name:	Tom	MI:		Last Name:	Rafferty	Suffix:	
Title:	GIS Specialist			Email:	rafferty.tom@gw.njsp.org				
Work Phone:	(609) 963-6955	Ext:		Fax Number:	(609) 882-5647	Cell Phone:	(609) 273-0953		
Organization:	NJ State Police			Department:	Office of Emergency Management				

Contact Address

Address:	P.O. Box 7068 Building 18			<input type="checkbox"/>	Same As Organization Address		
City:	West Trenton	State:	NJ	Zip:	08628-	<input checked="" type="checkbox"/>	Same as Department Address

Record: 1 of 1



Data Inventory Database

GeoDataset Information
✖

Regional Catastrophic Planning Grant Program

Point of Contact and Data Inventory Database

Geodataset Information

Note: Click a text box's label to copy the text box's value to the clipboard

Data OwnerInfo Name: Hudson County Landing Zones

<table style="width: 100%; border-collapse: collapse;"> <tr><td style="border-bottom: 1px solid gray;">Data Owner:</td><td style="border-bottom: 1px solid gray;">Hudson County</td><td style="border-bottom: 1px solid gray;">▼</td></tr> <tr><td style="border-bottom: 1px solid gray;">Projection:</td><td style="border-bottom: 1px solid gray;">Other</td><td style="border-bottom: 1px solid gray;">▼</td></tr> <tr><td style="border-bottom: 1px solid gray;">DHS Sector:</td><td style="border-bottom: 1px solid gray;">Transportation</td><td style="border-bottom: 1px solid gray;">▼</td></tr> <tr><td style="border-bottom: 1px solid gray;">DHS SubSector:</td><td style="border-bottom: 1px solid gray;">Aviation</td><td style="border-bottom: 1px solid gray;">▼</td></tr> <tr><td style="border-bottom: 1px solid gray;">DHS Segment:</td><td style="border-bottom: 1px solid gray;">Other Aviation Facilities</td><td style="border-bottom: 1px solid gray;">▼</td></tr> <tr><td style="border-bottom: 1px solid gray;">Last Update:</td><td style="border-bottom: 1px solid gray;"></td><td></td></tr> <tr><td style="border-bottom: 1px solid gray;">Scale:</td><td style="border-bottom: 1px solid gray;"></td><td></td></tr> </table>	Data Owner:	Hudson County	▼	Projection:	Other	▼	DHS Sector:	Transportation	▼	DHS SubSector:	Aviation	▼	DHS Segment:	Other Aviation Facilities	▼	Last Update:			Scale:			<p>Abstract: These locations were collected from Hudson County officials as part of the New Jersey Emergency Preparedness Information Network project.</p> <p>Purpose: These features are for general location purposes. Please see the citation contact person for more information.</p> <p>Notes:</p>
Data Owner:	Hudson County	▼																				
Projection:	Other	▼																				
DHS Sector:	Transportation	▼																				
DHS SubSector:	Aviation	▼																				
DHS Segment:	Other Aviation Facilities	▼																				
Last Update:																						
Scale:																						
Attributes (double click to edit): Add Delete																						

Name	Description
IDENTIFIER	Site Identifier
LOCATION	Location
CS_ADDRESS	Address
STATE	State
ZIP	Zip code
PHONE	Phone Number
CITY	City location of source address

Keywords: Delete

Airport

Landing Zones

Transportation Infrastructure

To add a keyword, select a keyword from the dropdown list and click add. To edit an attribute double click it in the list.

▼
-< Add Create New

Save
Close
Delete
Report
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Record: 1 of 1
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Data Inventory Database

Contact Information

Regional Catastrophic Planning Grant Program
Point of Contact and Data Inventory Database

Contact Information
Note: Click a text box's label to copy the text box's value to the clipboard

Salutation: First Name: MI: Last Name: Suffix:

Title: Email:

Work Phone: Ext: Fax Number: Cell:

Organization:

Contact Address:
Address:
City:

Record: 14 of 1 of 1 | Filtered | Search

Let's go take a closer look...

Program Database

Data Owner: Abstract:

Projection: Purpose:

DHS Sector: Notes:

DHS SubSector:

DHS Segment:

Last Update:

Scale:

Attributes (double click to edit):

Name	Description
IDENTIFIER	Site Identifier
LOCATION	Location
CS_ADDRESS	Address
STATE	State
ZIP	Zip code
PHONE	Phone Number
CITY	City location of source address

Keywords:

Record: 14 of 1 of 1 | Filtered | Search



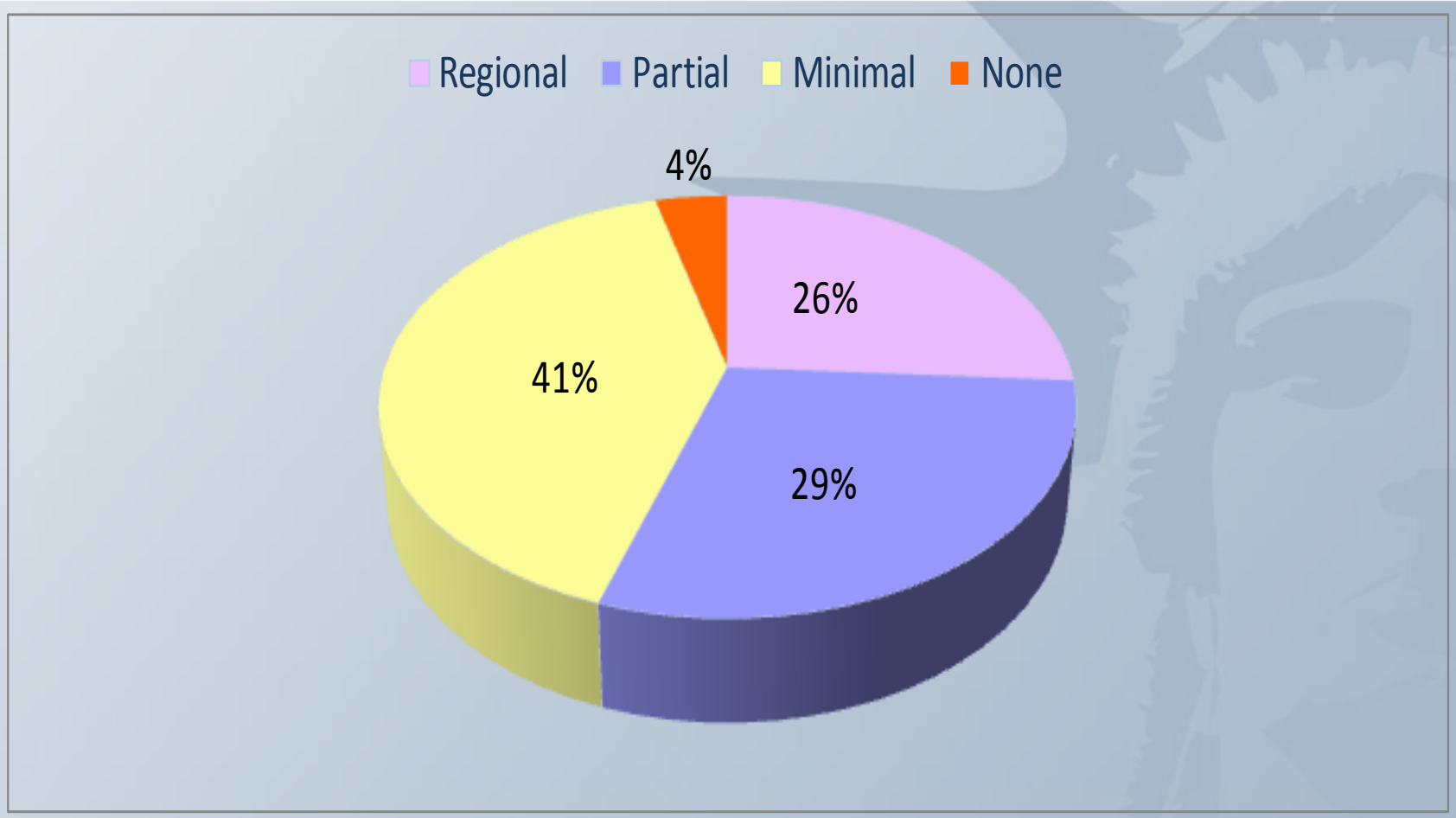
GIS By The Numbers

- 14 = organizations attended Visioning Workshop
- 63 = organizations represented in POC Database
- 70 = contacts listed in Point of Contact (POC) Database
- 102 = data layers supporting the Minimum Essential Dataset
- 397 = datasets obtained for appraising purposes
- 1,088 = datasets inventoried in Data Inventory Database



Gap Analysis

MED Layer Availability within the Region





Data Gaps

Environmental and Boundary Layers

- Multiple versions of the same datasets

Population Layers

- Daytime and tourist population data

Utility Layers

- Most up-to-date/complete information would come directly from utility companies



Data Gaps

Transportation

- helipads, commercial truck routes, hazmat routes

Public Safety

- morgues, medical examiner offices, funeral homes

Facilities Infrastructure Layers

- facilities data largely unavailable outside educational and hospital institutions



Recommendations Report

Provided 4 High-level Recommendations

1. Promotion of project tools
2. Maintenance and enhancement of Data
3. Solution for data interoperability
4. Pursuing additional funding

Report can be found at:

<ftp://regionalcatplanning.org>

Access Requests: Randolph Pullen – rpullen@oem.nyc.gov

Steven Gutkin - sgutkin@regionalcatplanning.org



Where do we go from Here??



- **Distribution of Database**
- **RCPT Consideration of Recommendations**
- **Determination of Future Funding**



RCPT Contact

Randolph Pullen
New York City Office
of Emergency Management
165 Cadman Plaza East
Brooklyn NY 11201
Office: 718-422-8722
rpullen@oem.nyc.gov

Steven A. Gutkin
Executive Director
Regional Catastrophic Planning Team
Regional Integration Center (NY-NJ-CT-PA)
61 Broadway, Suite 2220
Office: 646-215-6550
sgutkin@regionalcatplanning.org



Questions??

