



Know the Earth...Show the Way

Iraq Reconstruction Project

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► Agenda

- Introduction
- Goals and Objectives
- GIS Service Centers
- Issues
- Iraq Election Demonstration
- Closing Comments and Questions

► Goals

- Participants in Iraq reconstruction need:
 - A common situational awareness of plans, activities, and events
 - A shared information environment that allows analysis that supports decision makers
 - The capability to collect information needed to support decision processes

Geographic information provides a framework for decision making

► Objectives

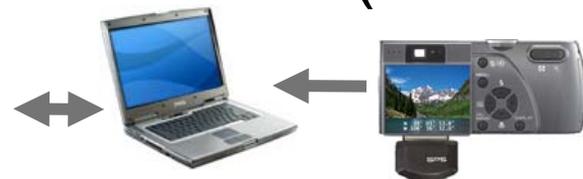
- Rapid enablement of project databases
- Phased enterprise system development and deployment for geographic information
 - Establishment of GIS Service Centers in Washington DC and Baghdad
 - Provide field data collection capabilities for Civil Affairs, Special Forces and other data collectors
- Support Iraqi governance via the establishment of GIS pilot projects for Iraqi ministries
- Provide operations, training and support on an on-going basis

► GIS Service Center Activities

- Provides access to GIS software, data, applications and web based services
- Ingests, stores and manages geospatial data
- Provides operational evaluation of new methods and applications which are subsequently deployed to other nodes

► GIS Service Center U.S. Embassy - Baghdad

- Located in IMC-IRMO (Iraq Reconstruction Management Office) in U.S. Embassy – Baghdad
- 2 NGA and 2 ESRI personnel on site
- Hardware and Software stood up by NGA to support Embassy Activities
- All hardware and software is on-site to perform data collection and analysis for US Embassy personnel
- Thin client (Web viewer) & Thick Client (COTS Software) capability



► GIS Service Center Washington, DC

- Located in ESRI Regional Office in Vienna, VA as part of the CIGT (Center for Innovative Geospatial Technologies)
- ESRI and NGA staff on-site to perform analysis and provide reach-back support for GIS-SC Baghdad
- Other organization's staff welcomed to use equipment and data in GIS-SC

► Issues

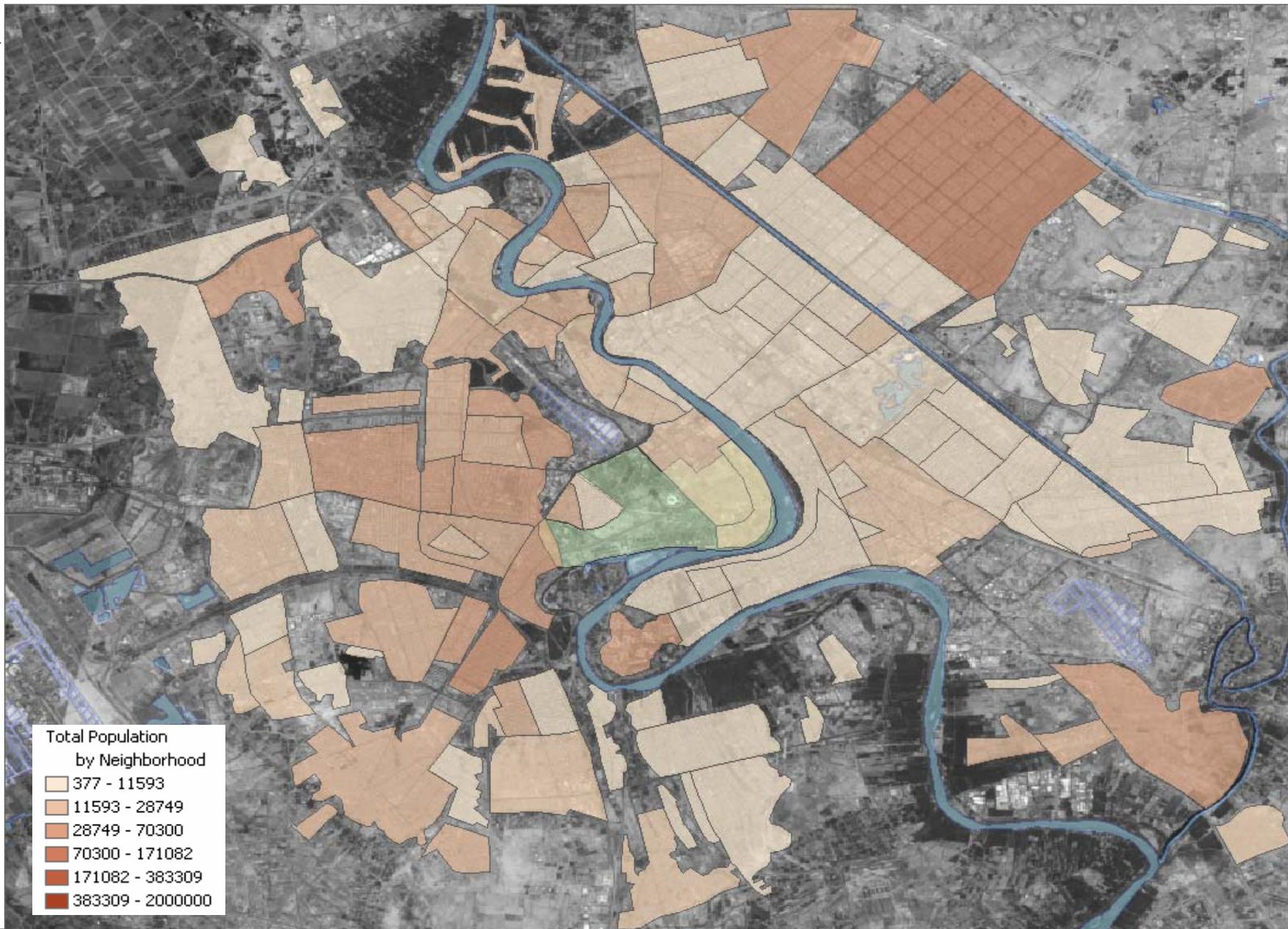
- Data
 - Quality
 - Incomplete
 - Missing fields
 - Inconsistent
 - Quantity
 - Releasability
 - Metadata
- Communications

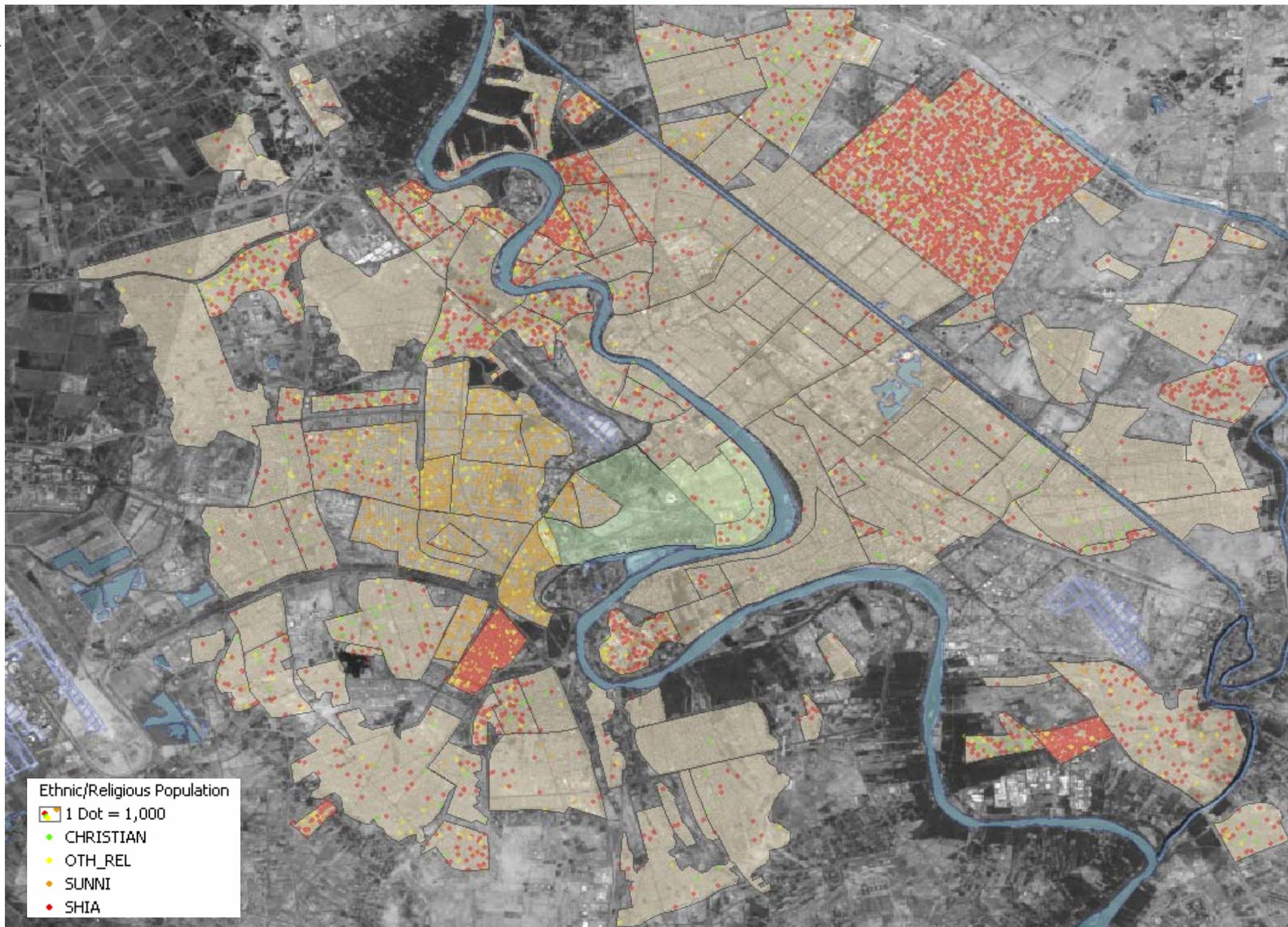
▶ Iraq Election Polling Place Demo

- Questions:
 - Where are the potential polling places?
 - Where are the polling places in areas with a high probability of security incidents?

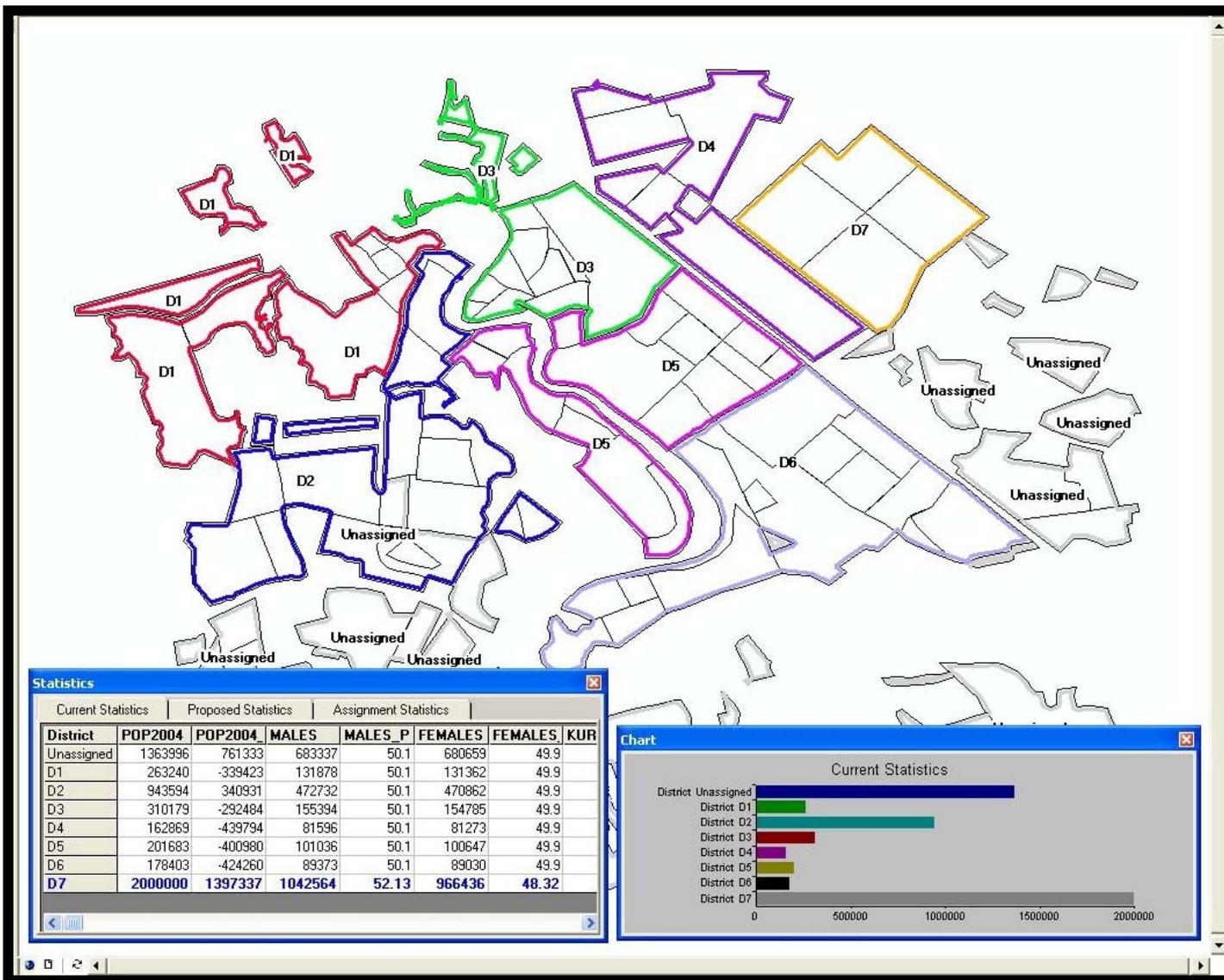
► Iraq Election Polling Place Demo

- Demo Data
 - Census Data
 - Polling Place Data
 - Incident Data
 - Used Veritas Analytics Incidents for basis
 - Added additional Incidents for Demo purposes
 - Assumptions
 - Time span for election – 12 hours
 - 5000 people for each polling location
 - Schools are the most suitable for Polling Locations

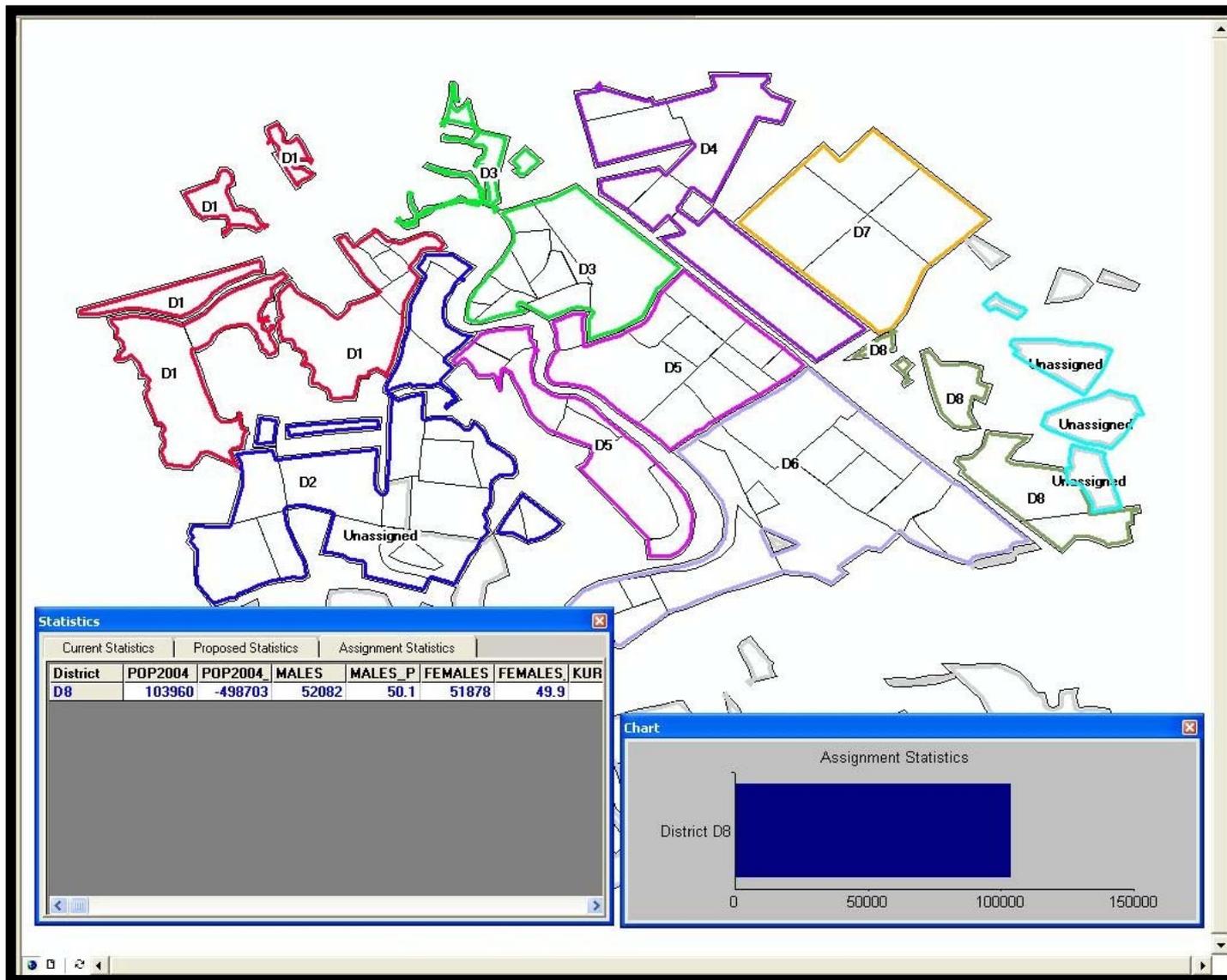


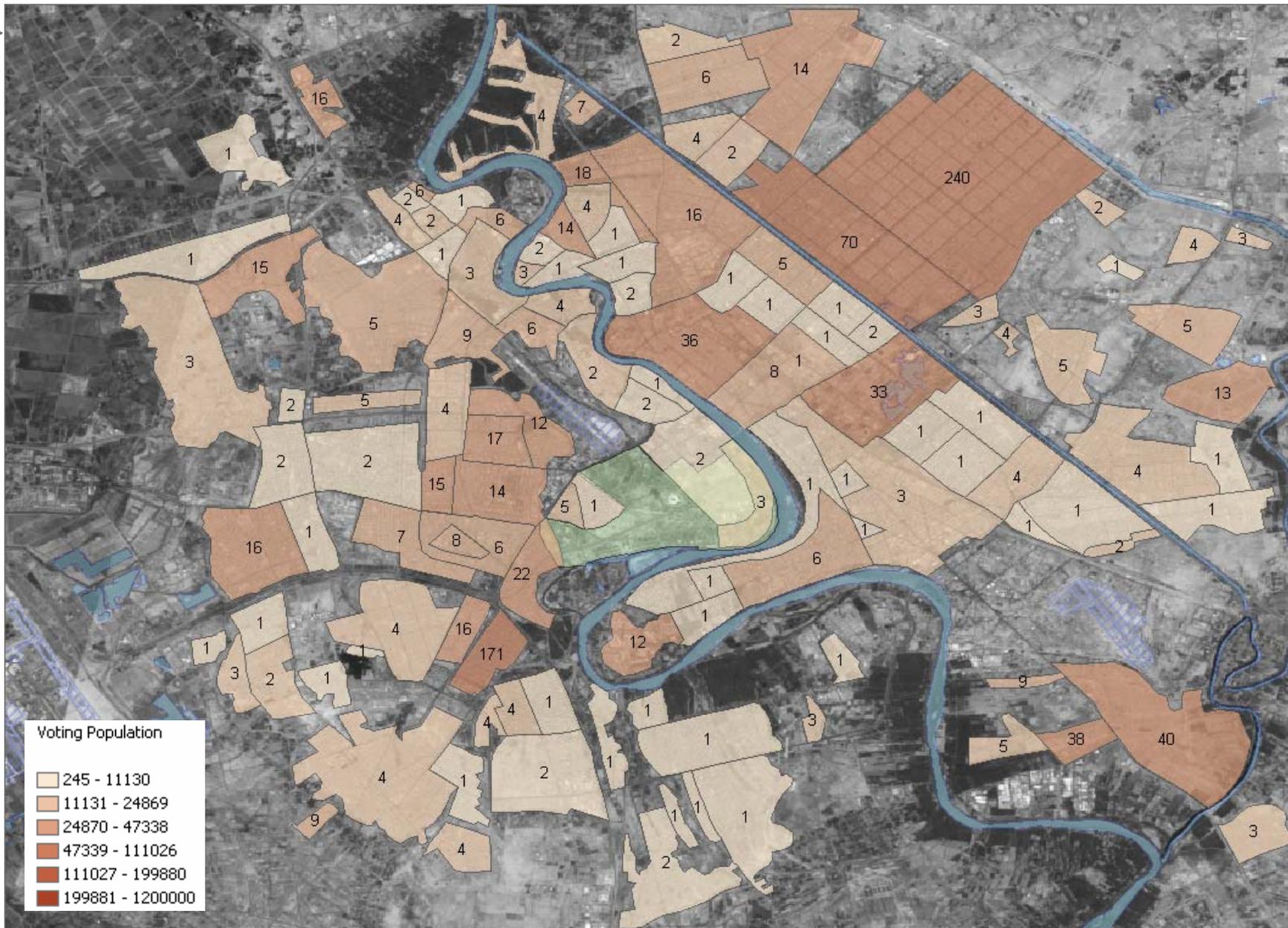


► Districting Tool



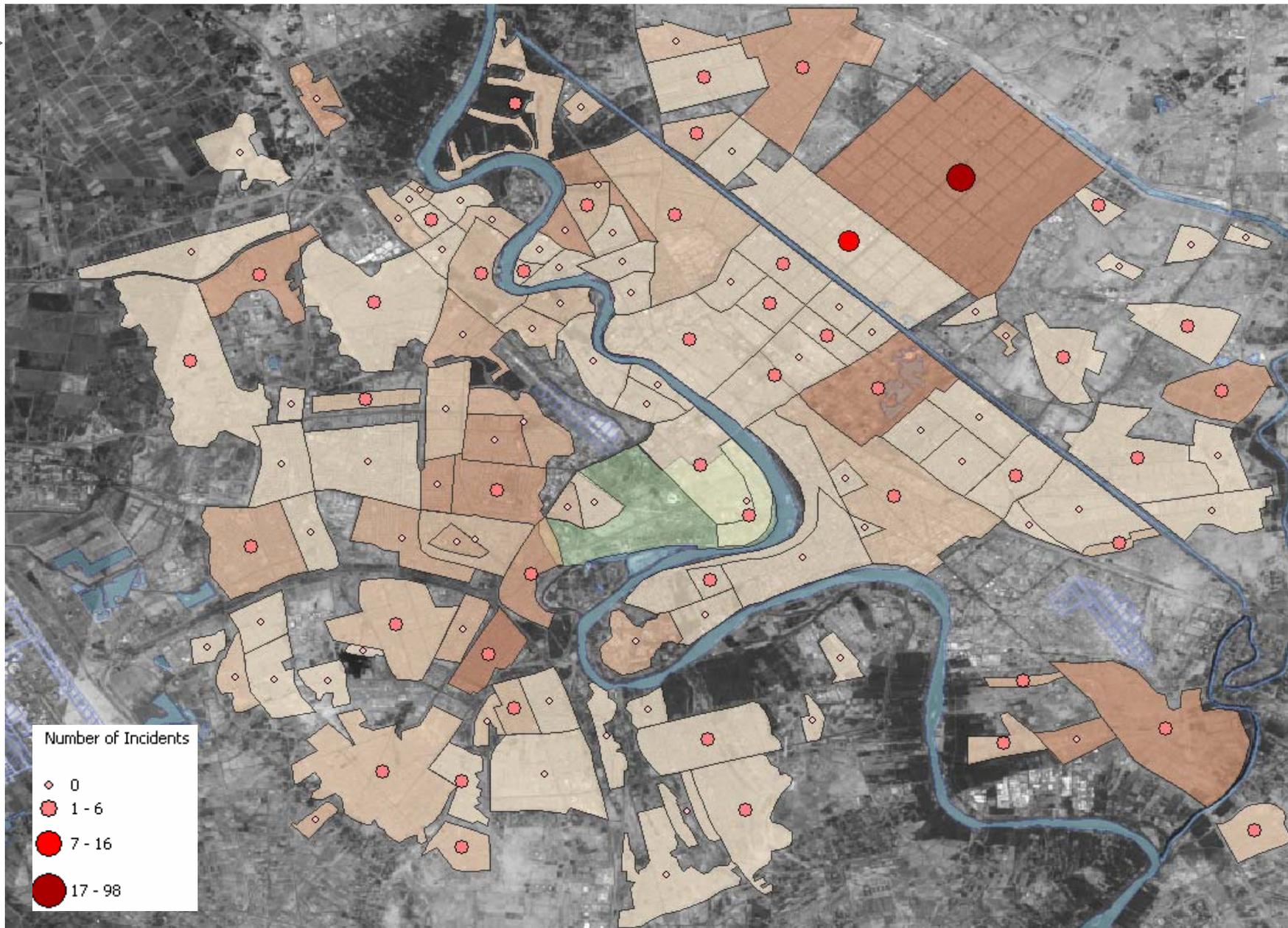
► Districting Tool

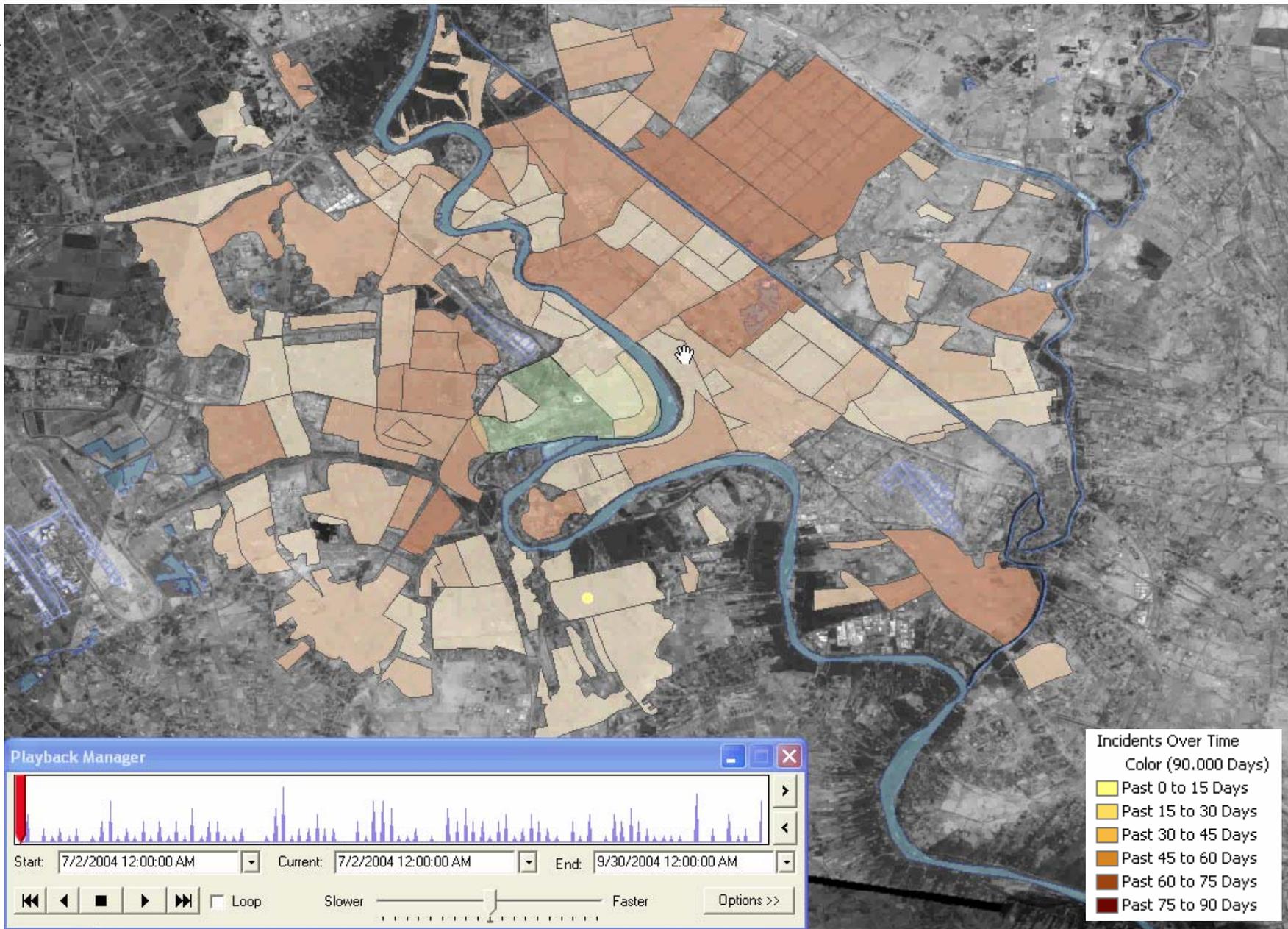


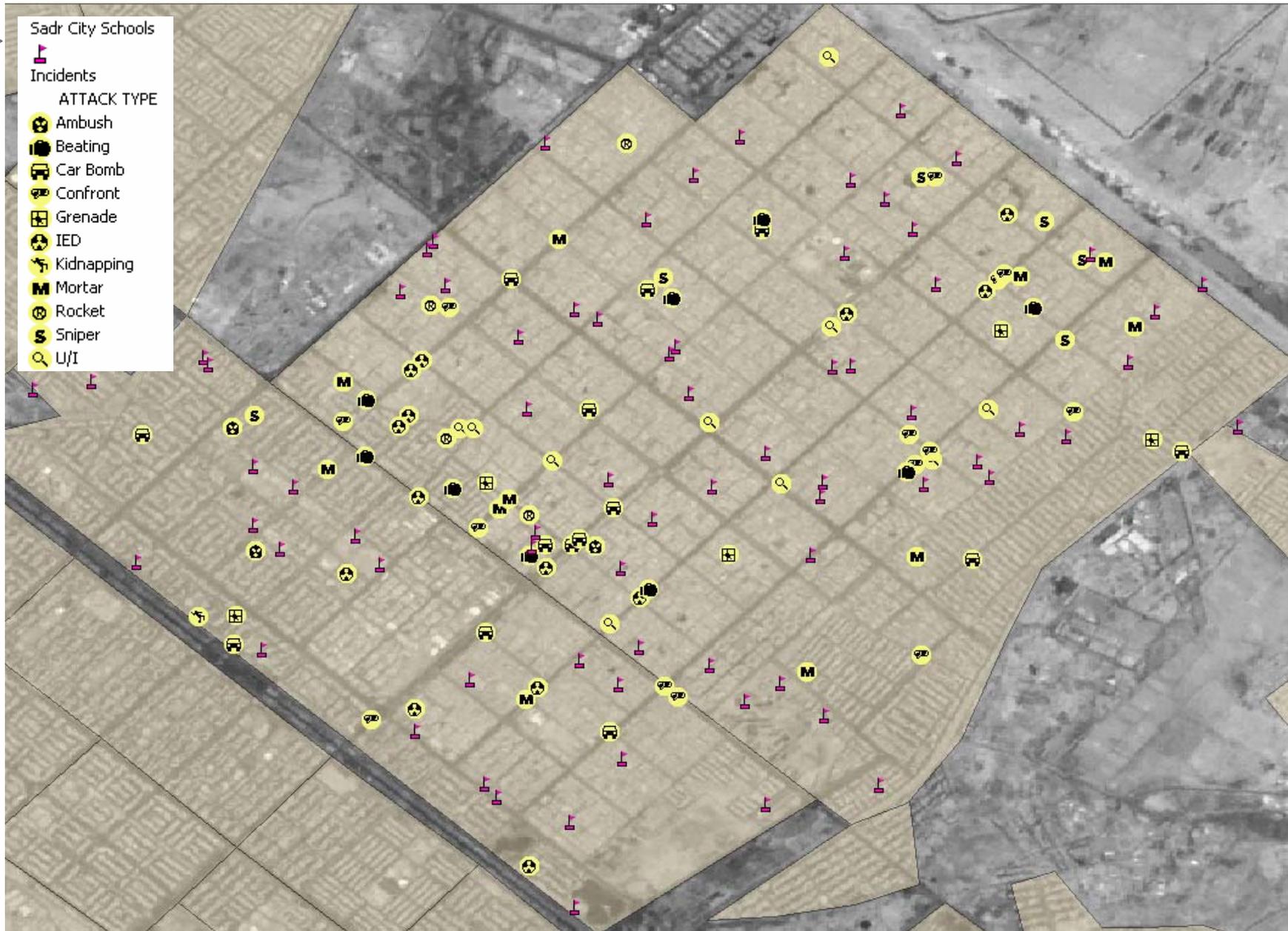


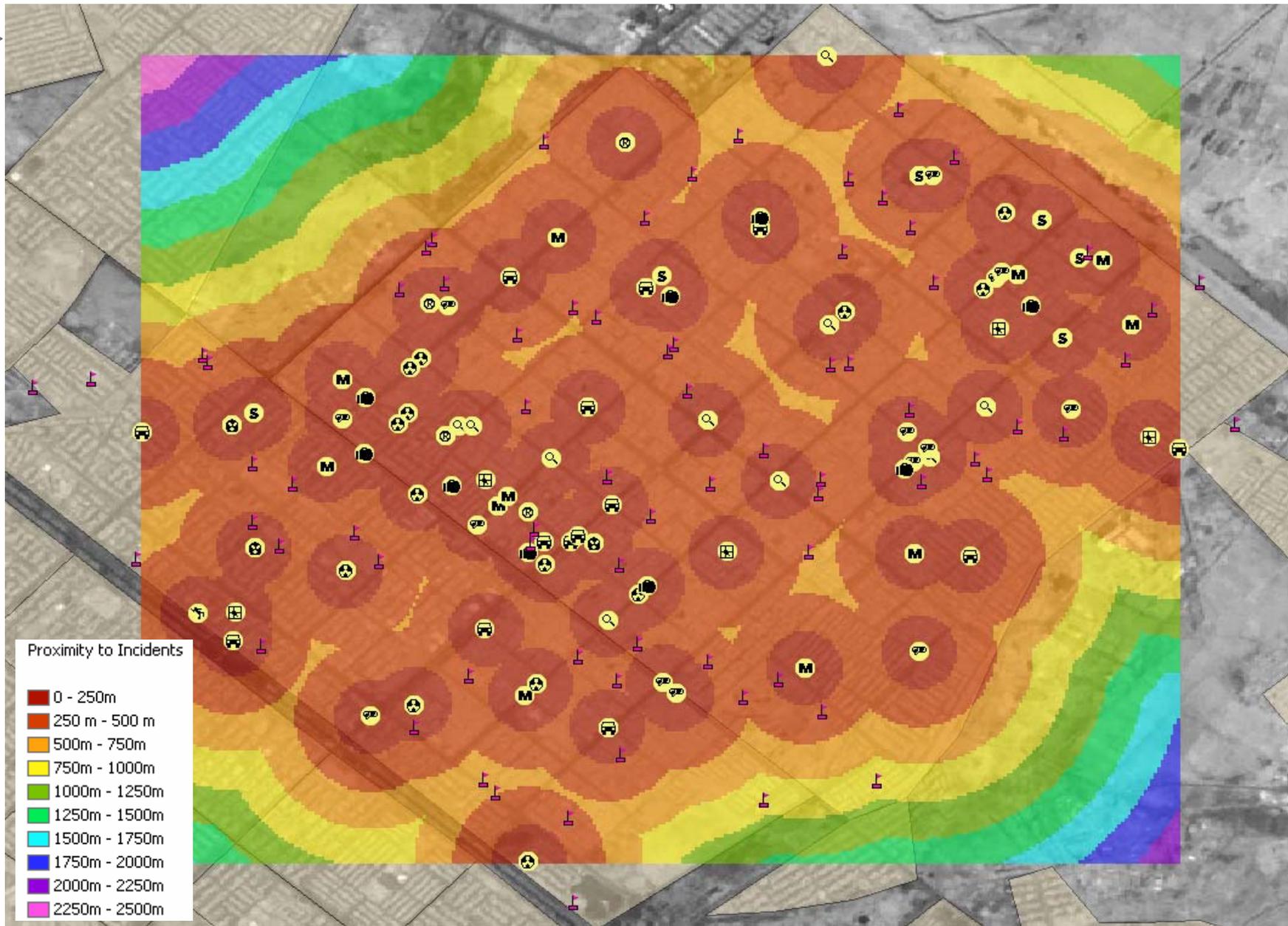


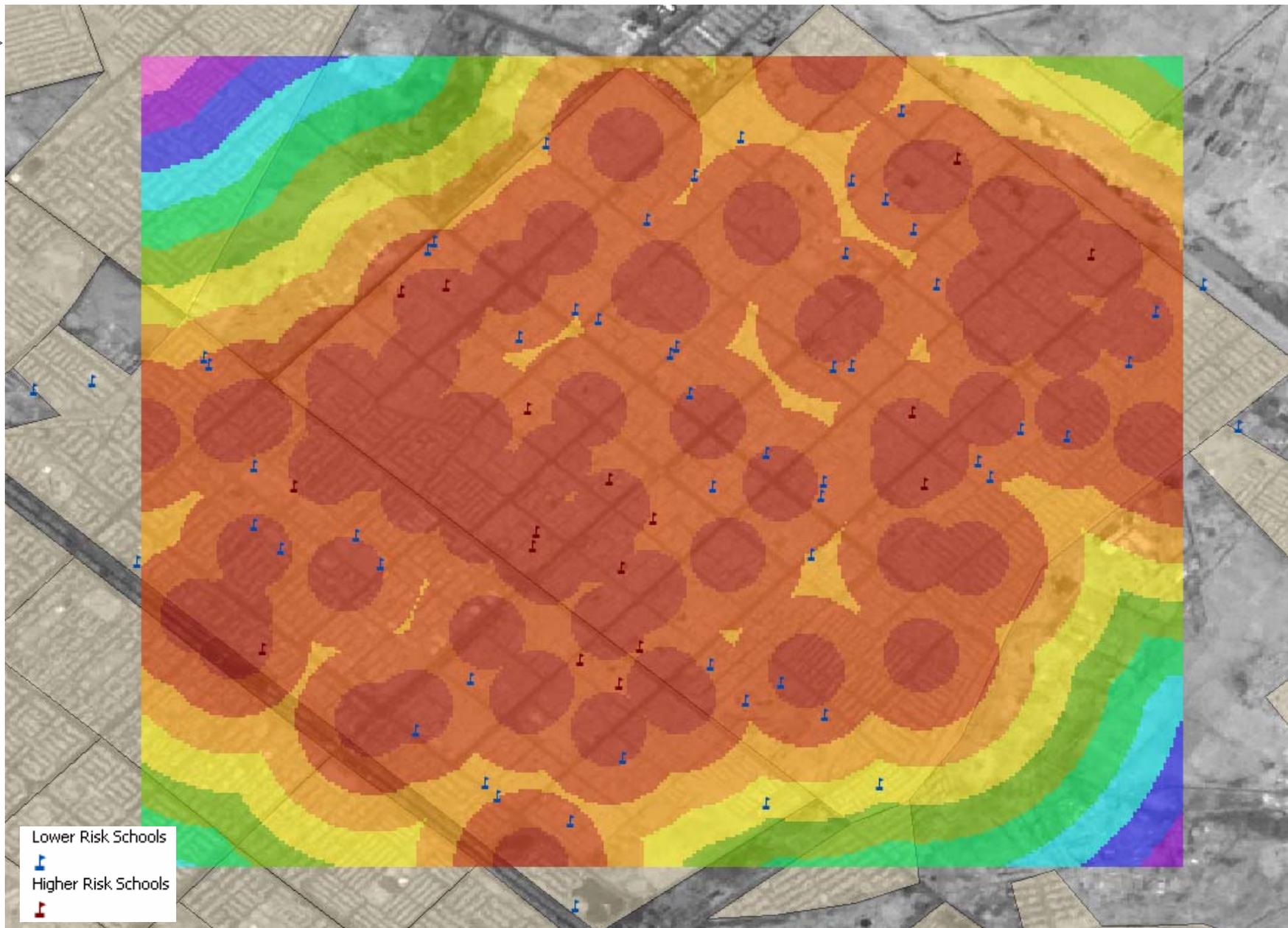












Lower Risk Schools
Higher Risk Schools

► Iraq Election Polling Place Demo

Data Requirements –

What is required to make this useful for meaningful analysis?

- Polling Place data
 - Actual Polling Place dataset (x, y coordinates)
 - Building types (school, library, public meeting hall, etc.)
 - Building Information (size, available parking etc.)
- Voting Districts data
 - Actual Iraqi Voting District boundaries
 - Recent Demographic Data (census, PDS etc.)
- Incident data
 - X, Y coordinates of incidents
 - Time Stamp (DTG – Date Time Group)
 - Incident Type (ambush, car bomb etc.)
 - Other info if possible (perpetrator, target etc.)

► Summary

- Stability is a cross agency mission and responsibility
- Requires:
 - Collaboration
 - Quality data
 - Enabling tools

NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY ▼



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