

Building Intelligent Cities Through Geospatial Technology

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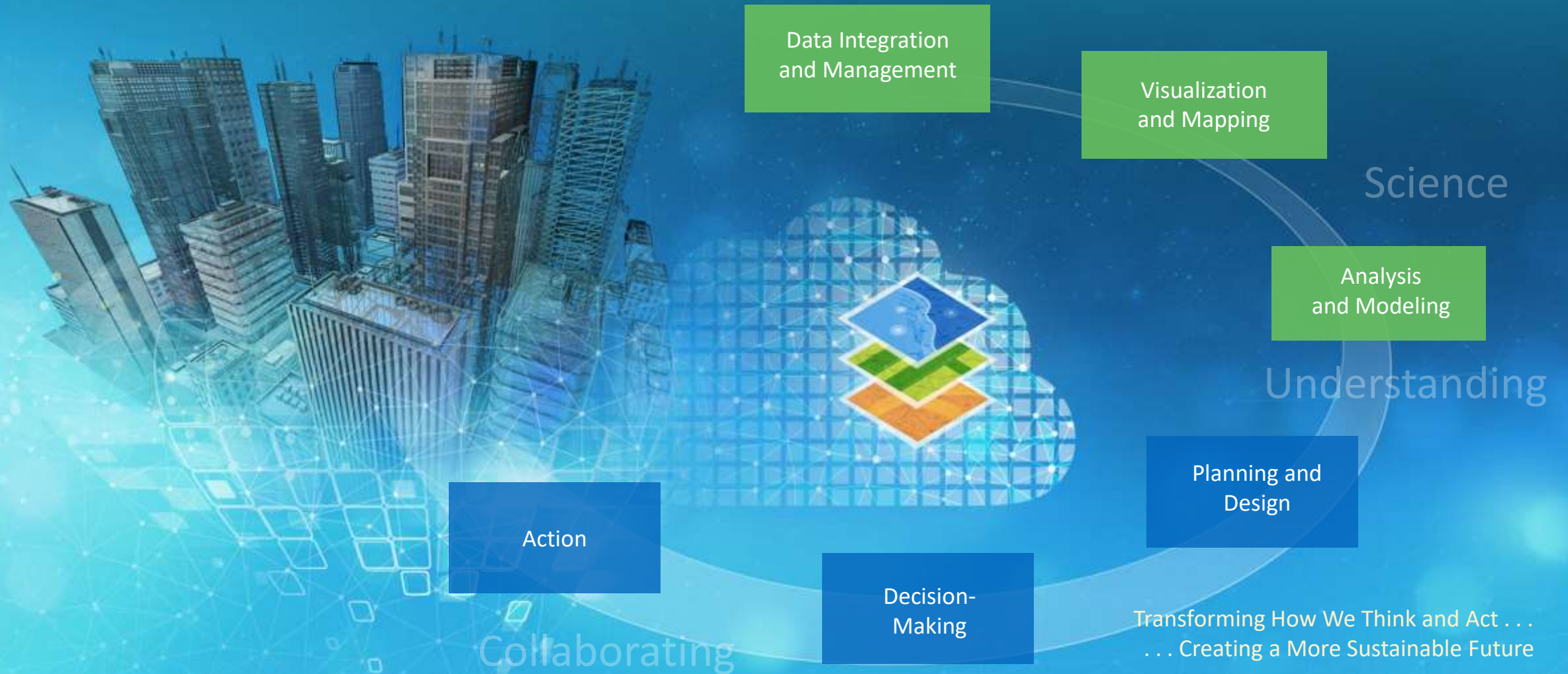
Characteristics of an Intelligent Community

- Forward-Thinking Leadership & Strategy
- Data-Driven Decision Making
- Real-Time Awareness
- Collaboration Across Departments
- Civic Engagement



GIS Provides the Framework and Process

For Enabling a More Intelligent Community



Common Patterns of GIS Implementation

Mapping & Visualization



Understand locations and relationships with maps and visual representations

Data Management



Collect, organize, and maintain accurate locations and details about assets and resources

Field Mobility



Manage and enable a mobile workforce to collect and access information in the field

Monitoring



Track, manage, and monitor assets and resources in real-time

Analytics



Discover, quantify, and predict trends and patterns to improve outcomes

Design & Planning



Evaluate alternative solutions and create optimal designs

Decision Support



Gain situational awareness, and enable information-driven decision making

Constituent Engagement



Communicate and collaborate with citizens and external communities of interest

Sharing & Collaboration



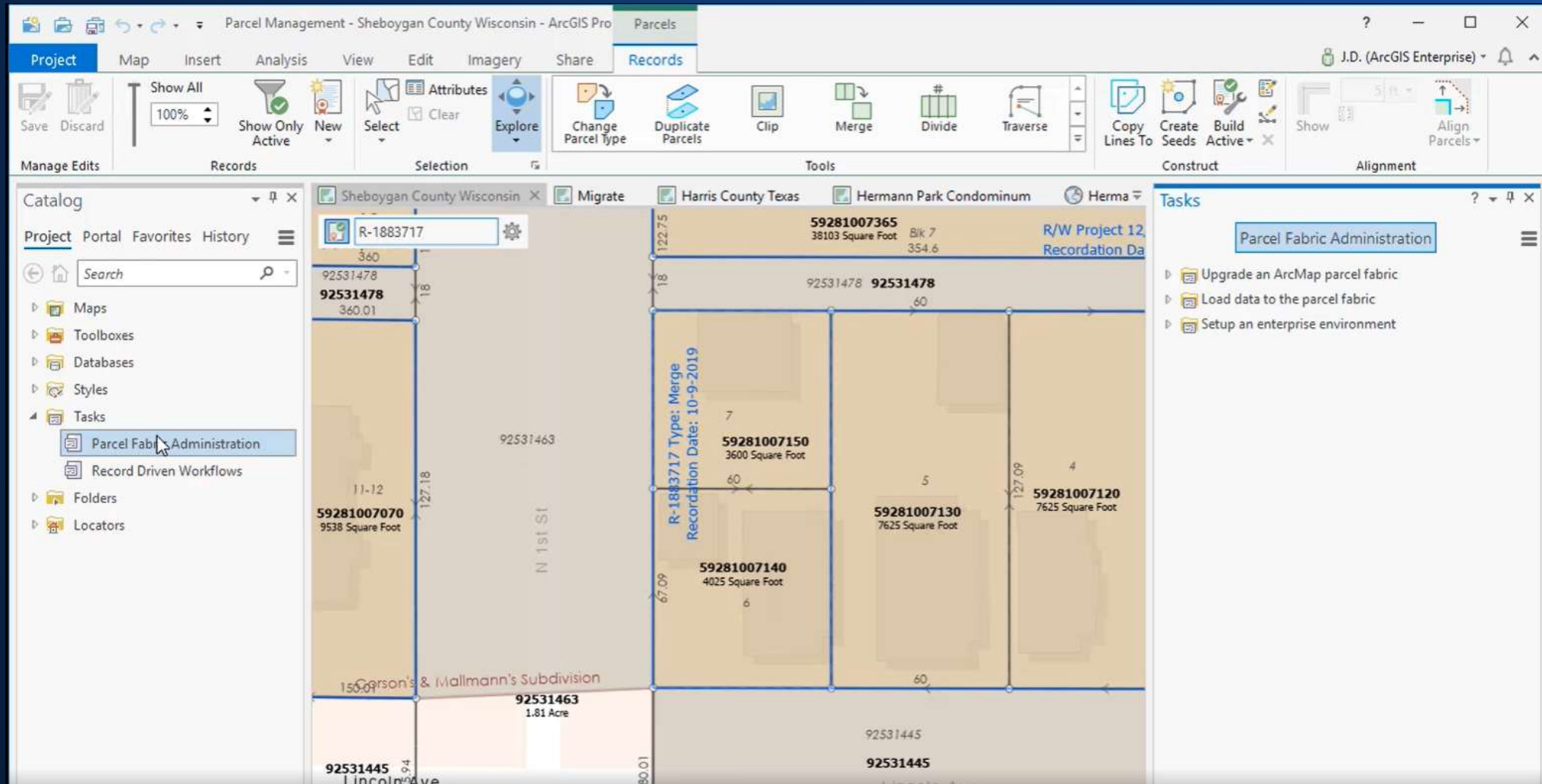
Empower everyone to easily discover, use, make, and share geographic information

GIS Applications for Intelligent Cities

Mapping & Visualization; Data Management	Field Mobility; Monitoring	Analytics	Design & Planning	Decision Support	Constituent Engagement; Sharing & Collaboration
Parcel Editing and Management	Emergency Management	Demographic Assessment	Capital Project Planning and Tracking	Real Property Tax Dashboard	Citizen Problem Reporter
Parcel Viewer	Incident Reporting	Disaster Risk Management	Urban Planning	Tax Reverted Properties	Community Health Outreach
Parcel Drafter	Project Monitoring	Road Condition Forecasting	Zoning and Land use Planning	Disaster Risk Management	Police Transparency
Asset Inventory	Code Violation Dashboard	Urban Growth Prediction	Development Planning	Business Permit and Licensing Dashboard	Community Crime Problem Manager
Hazard Maps	Crime Reduction Statistics	Traffic Analysis from CCTVs	Flood Planning	Real Property Tax/Business Payment Dashboard	Public Notification
Business Permit and Licensing Dashboard	Damage Assessment Operations	Vulnerability Assessment	Environmental Analysis	Parcel Value Analysis Dashboard	
Real Property Tax/Business Payment Dashboard					

More...

Parcel Management and Editing



Streamline Editing Improve Data Quality Work More Efficiently

Damage Assessment Operations



Inform and engage the public
Streamline damage assessments
Improve collaboration with others

The Public Assistance Dashboard can be used by emergency management staff to review the status and severity of damage reports and assessments.

Adjust the filters or current map extent to refine the results

Incident Name
All

Public Assistance Category

- Debris Removal (A)
- Emergency Protective Measures (B)
- Roads and Bridges (C)
- Water Control Facilities (D)
- Buildings, Equipment and Content (E)
- Utilities (F)
- Beaches, Parks, Transit, and

Repair Cost Estimate
\$83.7M

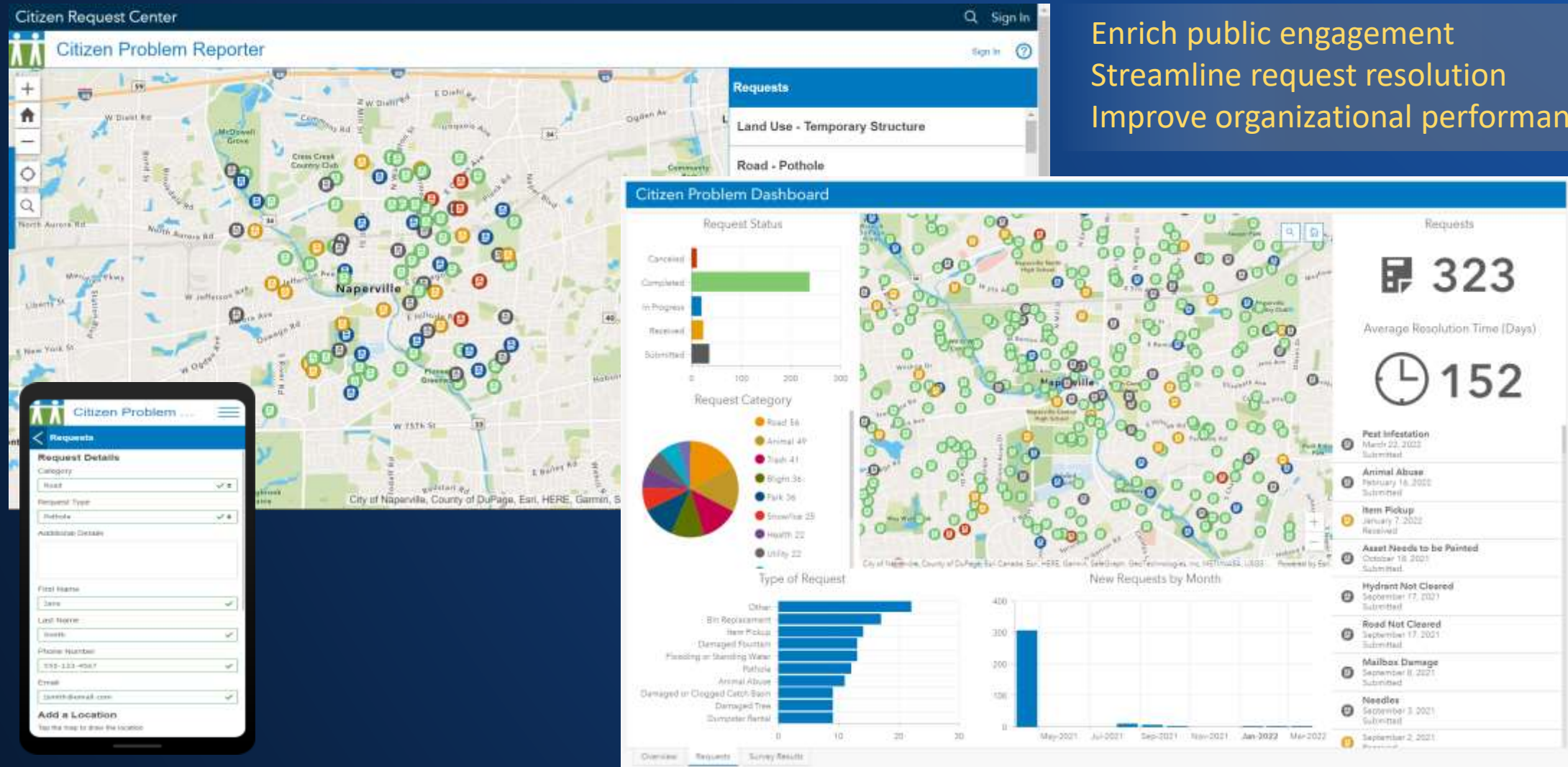
Address	Status	Repair Cost
157 Halsey Rd; Baltimore	Assigned	\$15,250,000
3212 Gunther Cir; Baltimore	Assigned	\$25,053,000
514 Aliceanna St; Baltimore	Assigned	\$1,750,000
1894 Thames St; Baltimore	Assigned	\$25,100,000
128 Carrollton Rd; Edgewater	Assigned	\$500,000
1254 Beluga Blvd; Baltimore	Assigned	\$13,550,000
1112 Lake Heron Dr; Annapolis	Assigned	

Debris Removal: 1
Emergency Protection: 2
Roads and Bridges: 1
Water Control: 1
Buildings, Equipment and Content: 1
Utilities: 1
Beaches Parks: 2

Resilient communities leverage accurate information to accelerate recovery efforts

Citizen Problem Reporter

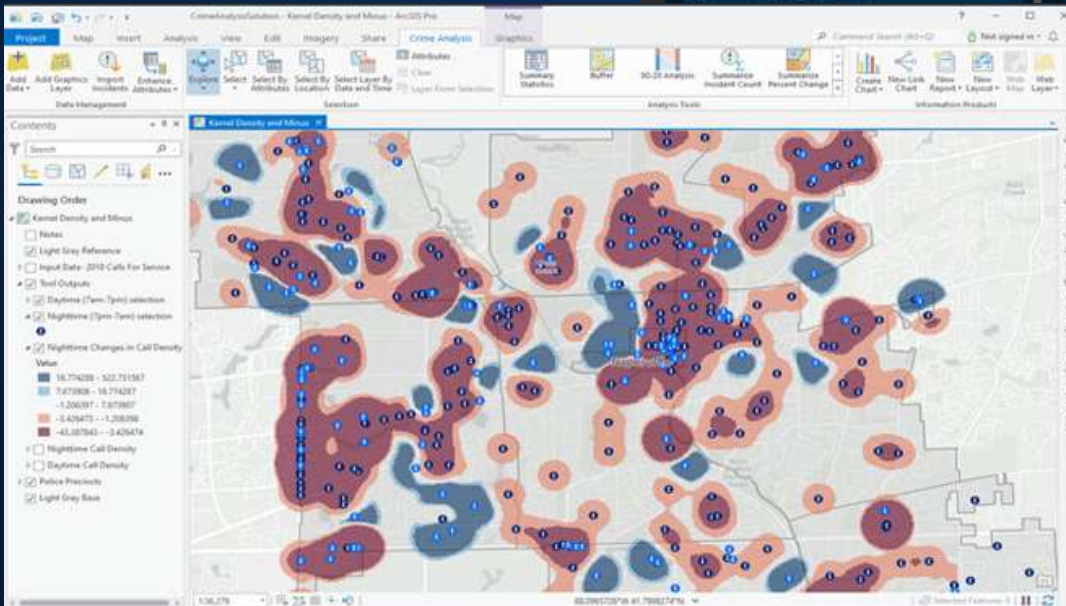
Enrich public engagement
Streamline request resolution
Improve organizational performance



Location-enabled service requests enrich public engagement and improve organizational performance

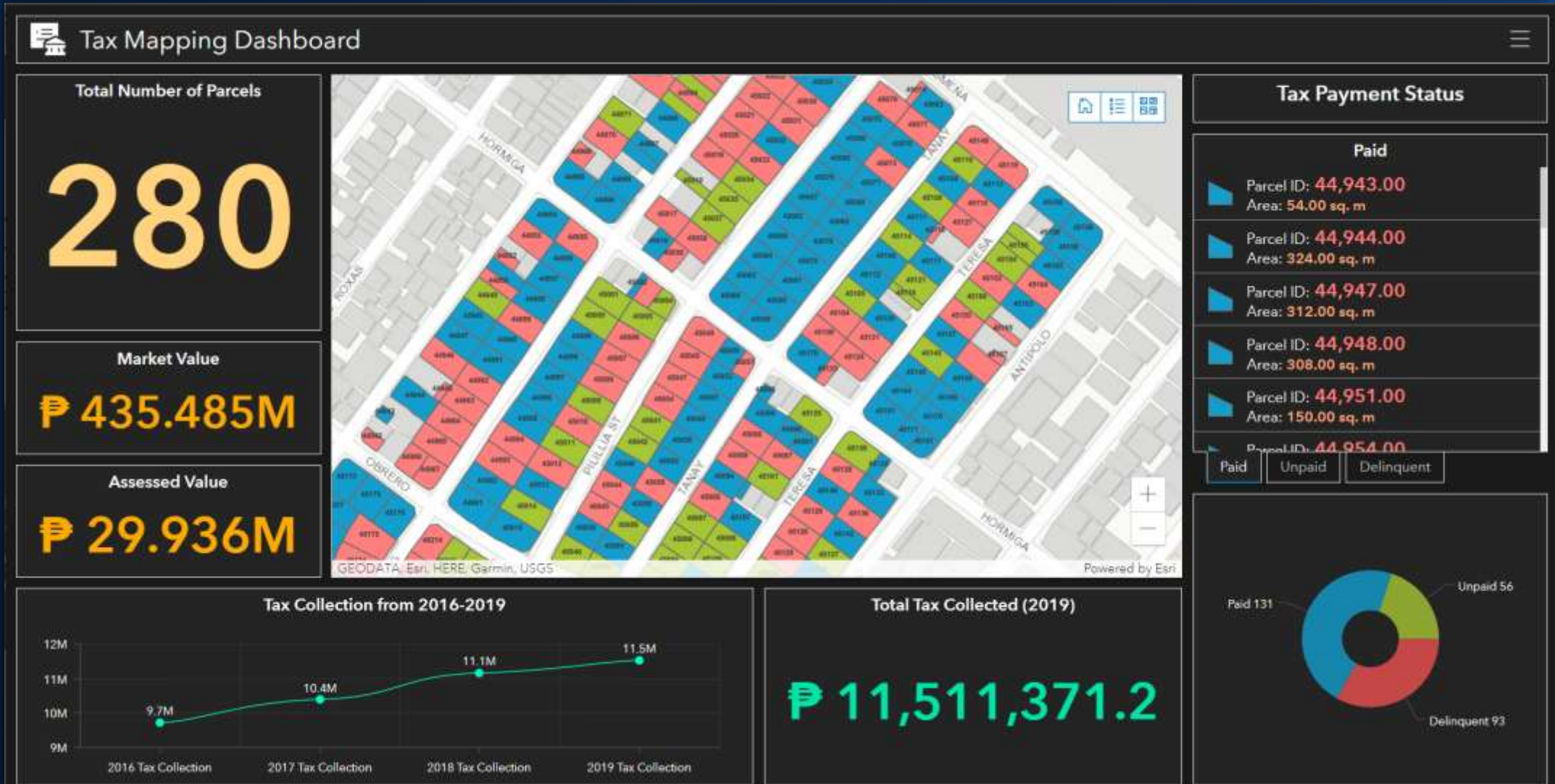
Crime Statistics Dashboard

Analyze patterns
Identify “hot streets”
See hotspots

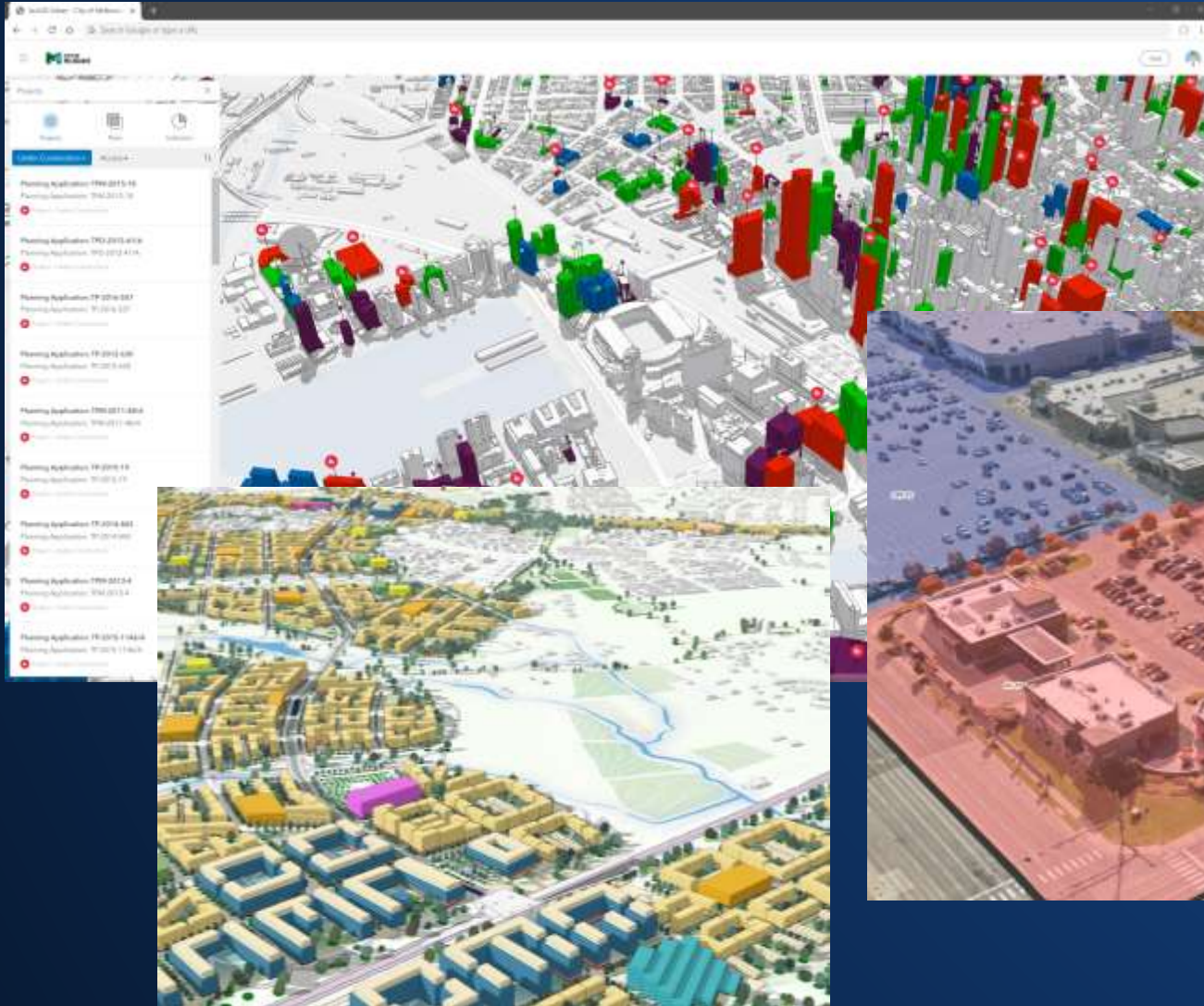


Modern police agencies understand that location is central to every policing problem and resource allocation decision

Tax Mapping Dashboard



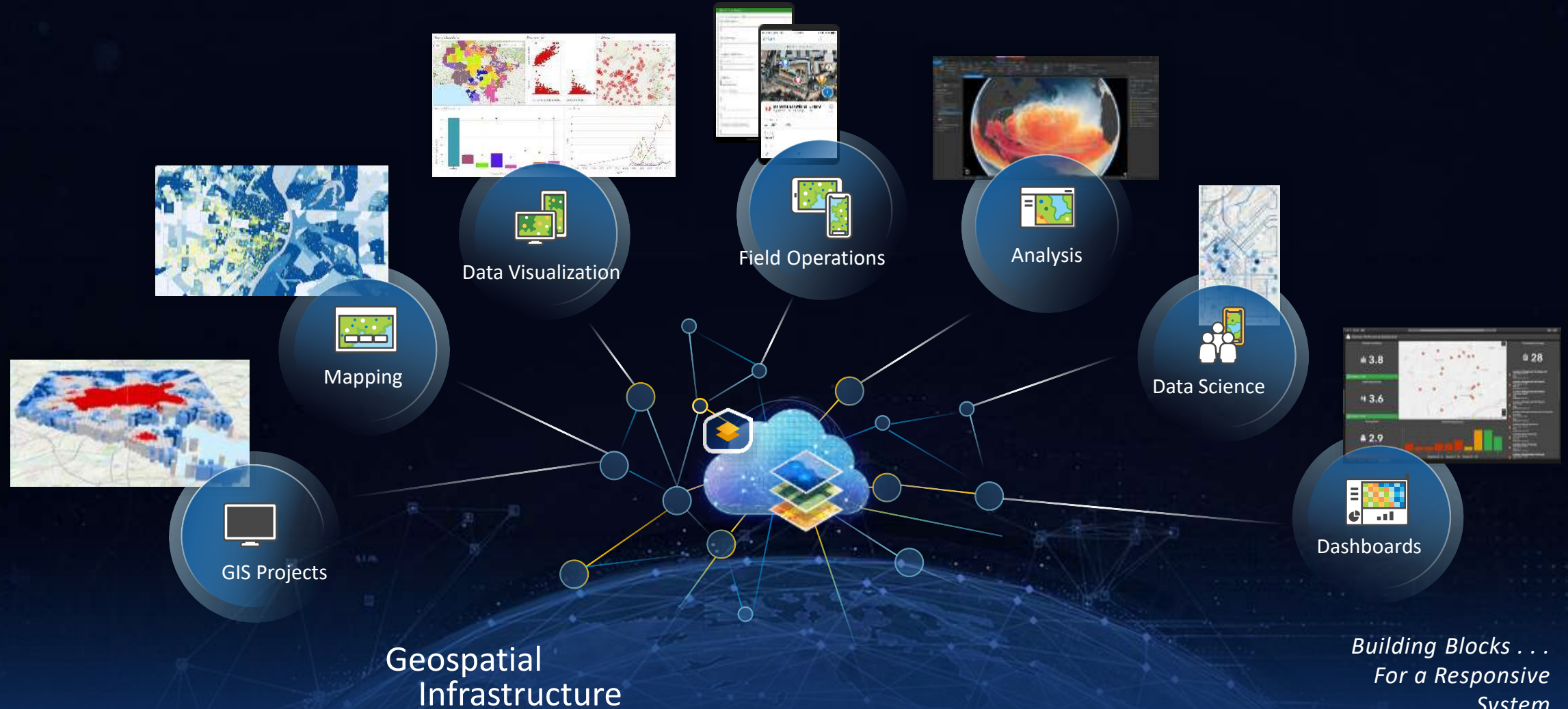
Urban Planning



Visualize projects citywide
Design 3D scenarios
Map change and measure impact
Review development applications

Improve urban planning and decision making

Delivering Powerful Capabilities Across Organizations



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