Agenda

- What is resiliency?
- Establishing resilient planning
- How do I engage?
- What tools should I use?
Defining Resilience

• For the purposes of this presentation:

• The capacity of a city, county, or community to survive, adapt and overcome chronic stresses and acute shocks.
Acute Shocks

- Sudden, sharp, often unexpected events that, at the very least disrupt, and more likely, threaten a city.
- Flood
- Hurricane
- Disease Outbreak
- Terrorist Attack
- Wildfire
- Earthquake
- Tornado
Chronic Stresses

- Ongoing events that weaken the fabric of a city on a day-to-day or cyclical basis.
- Inefficient transportation
- High unemployment
- Lack of economic opportunity
- Social inequity
- Pervasive violence
- Unhealthy communities
- Lack of affordable housing
Establishing Resilience Planning

- Reflective
- Resourceful
- Robust
- Redundant
- Flexible
- Inclusive
- Integrated
Establishing Resilience Planning

- Reflective
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ArcGIS
Engaging Leadership

- Identify the person or team in charge of activities that would fall under these challenges:
  - Chief Resilience Officer (100 Resilient Cities)
  - City / County Manager
  - Mayor
  - Chief of Staff / Chief Operating Officer
  - Department Director
    - Planning
    - Public Works
    - EMA
Engaging Leadership
Common Patterns of Use

**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
Tools for Resilient Planning – Acute Shocks

- EMA Director
- City/County Manager
- Focus on reflection!
  - Events
  - Reaction
- Four components:
  - Preparedness
  - Response
  - Recovery
  - Mitigation
Acute Shocks - Preparedness

• ArcGIS Solutions:
  • Critical Facilities
  • Flood Planning
  • Evacuation Zones
  • Community Event Management
  • Community Resilience Surveys
  • Community Impact Dashboard
Acute Shocks – Response / Recovery

- ArcGIS Solutions:
  - Damage Assessment
  - Emergency Shelter Locator
  - Debris Reporting
  - Road Closure Reporting
  - Operations Dashboard
  - Impact Summary Map
  - Health and Safety Dashboard
  - Public Safety Reports
Acute Shocks – Mitigation

- ArcGIS Solutions:
  - Hazard Analysis and Planning
  - Vulnerability Assessment
  - Mitigation Project Management
  - Mitigation Feedback Reporter
Tools for Resilient Planning – Chronic Stresses

• Policy Makers
  - Mayor
  - City/County Manager
  - Department Director
  - Regional Councils
  - State / Federal Legislators
  - Community Action Groups
Data-Driven Approach

Let’s solve this problem by using the big data none of us have the slightest idea what to do with.
Tools for Resilient Planning – Chronic Stresses

- Economic Opportunity, Social Inequity, Affordable Housing, High Unemployment:
  - Community Analyst
  - GeoPlanner
  - Live, Work, Locate
  - Site Selector
  - Community Events Manager
Tools for Resilient Planning – Chronic Stresses

- Inefficient transportation
  - Transportation Planning and Modeling
  - Crash Analysis
  - Vision Zero Analysis
  - Transportation 511
  - Project Management and Reporting
Resilient Planning Requires Story Telling

Growing a Resilient Anchorage from the Ground Up
Cities of Service and Mayor Berkowitz partner to increase food security in our community
Summary

- Identify what resilience means to your community
- Prioritize what needs to be done and the GIS resources needed
- Find the right person/team
- Provide transparency and get feedback
Thank You!

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