

#### Welcome to the New York

# GIS for BCP Seminar

Presented by

CITRIX ESRI

09.00 - 09.30 Overview of how GIS can be applied to BCP Simon Thompson, Deana Henderson: ESRI

09.30 - 10.00 BCP at Lehman Brothers
Patrick Alesi, Business Continuity Manager

10.00 - 10.15 *Coffee Break* 

10.15 - 11.00 Citrix Solutions for Bl and BCP
David Kim, Barry Flanagan: Citrix Systems

11.00 - 11.45 BCP in Action: IncidentOS Demonstration

David Braig, Ryan Moquin: BAE Systems

11.45 - 12.00 Open Discussion - Q&A

CİTRIX ESRI



#### About ESRI

- Founded in 1969
- Privately held
- Pioneer in GIS
- Zero Debt Posture
- Consistent Annual Growth
- Over 3,000 employees Worldwide
- 100,000+ Customers Worldwide
- 1,000,000+ Users Worldwide
- Over \$650 million annual revenue

Holds majority market share in global GIS sales





#### What is GIS?



#### According to Gartner:













GIS is more than the physical systems – it is a way of organizing your operational activities and solving problems based on the geographic approach to business

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#### What is GIS?

# GIS is a digital model – a geographic, interconnected representation of the world



# Everything in the world can be defined as

- Points:
  - Customers, Business Locations, Facilities...
- Lines:
  - Streets, Supply Chain...
- Polygons:
  - Zip code, Market Area, Wild Fire Boundary…
- Grid Cells:
  - Elevation, Digital Aerial Photo, Satellite Image...





# Why BCP Matters to Financial Services and Business

- Business Operations are Interdependent
  - Operationally
  - Technically
  - Financially
  - Geographically
- Business Challenges are Interconnected
  - Adherence to regulatory requirements
  - Increased competition in the marketplace
  - Staff support, facility security and risk management
  - Planning vs Monitoring, Scenarios vs Training

No runners up prize for failure





# Why BCP Matters to Financial Services and Business

#### Downtime Cost Estimates Per Hour

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	Brokerage Operations	\$6.450.000
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•	Ebay (	1 outage in 22 hours)	\$225,000
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•	Amazon.com	\$180,000
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<ul> <li>Package Shipping Services</li> </ul>	\$150,	000
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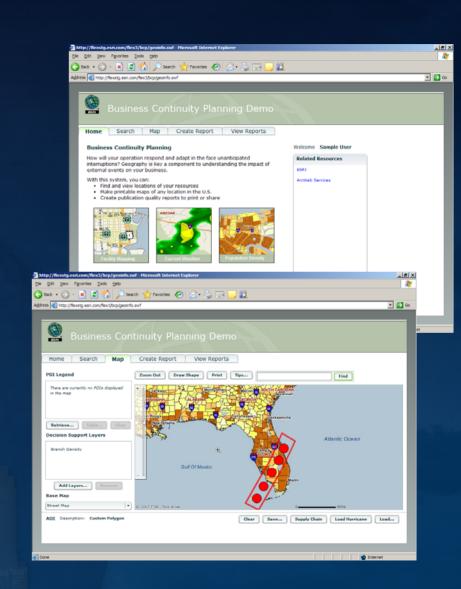
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# GIS for Business Continuity Coordination

- Analyze site locations
- Apply 'what if' scenarios
- Identify areas and assets at greatest risk
- Evaluate different response plans
- Test and integrate modeled results
- Visualize, analyze and publish information across the enterprise

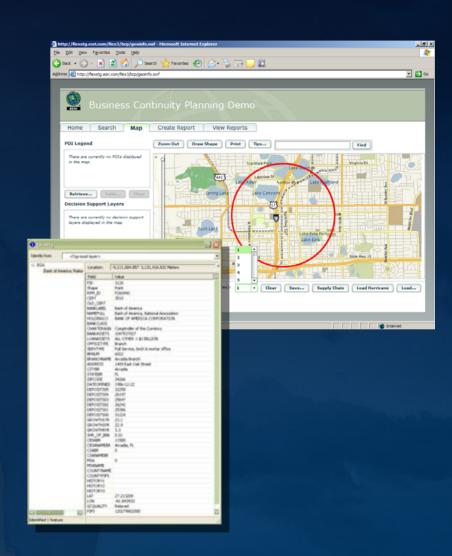






# GIS for the Watch Dog or Coordinator

- Zero footprint solutions
- Simple, visual, user interface to perform sophisticated analysis
- Real time management of crisis events
- Support for dynamic data feeds and models
- Analytic, role-playing and management capability

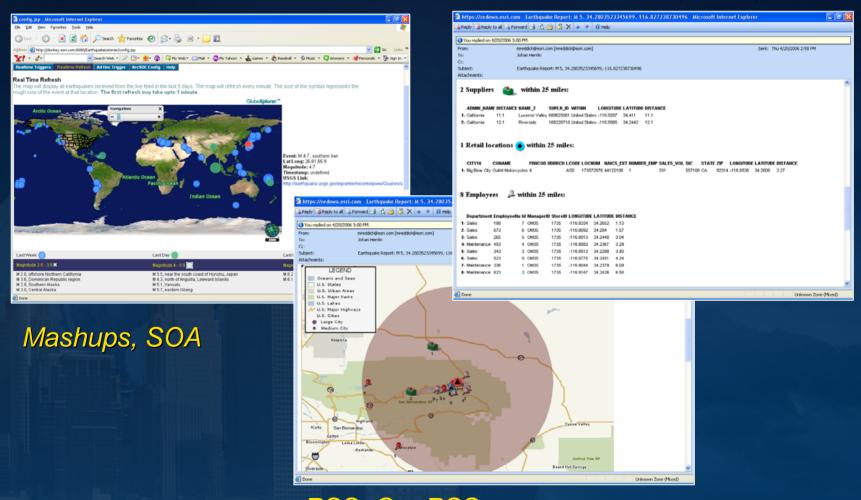






# BCP integration via Web Services

#### SOAP, .NET, JAVA



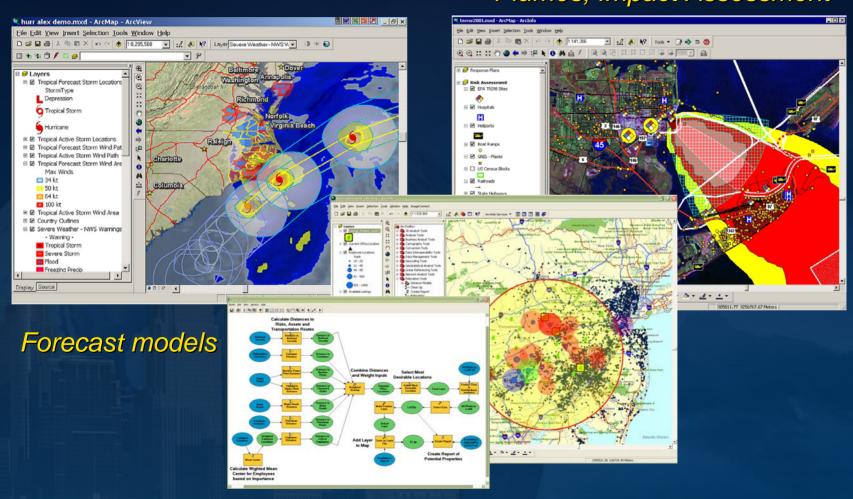
RSS, GeoRSS





# BCP integration with Models Desktop Authoring

Plumes, Impact Assessment



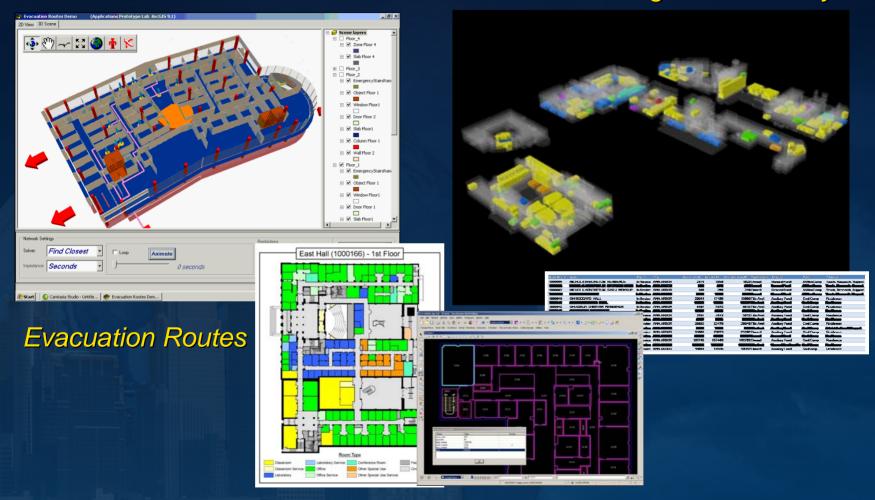
Real Time Events and Triggers





#### BCP Visualization and Information Fusion

#### Usage and Security



CAD, Floor Plans, Occupancy



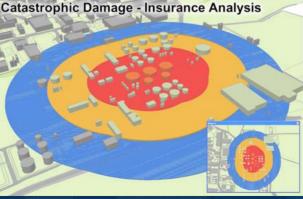


### BCP Visualization and Information Fusion

#### Preparedness Planning



**Emergency Mgmt** 



Vulnerability Analysis

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### BCP Visualization and Information Fusion

#### Assets and Supply Chain





Mitigation Strategies





### **GIS BCP Architecture**





# ESRI Support during Hurricane Katrina

# Goal: Support Response & Rescue efforts of:

- ESRI user community (emergency management agencies, law enforcement, fire, health agencies, local government)
- Major aid agencies (Red Cross, etc.)
- Major customers in the region (utilities, commercial, oil and gas, hospitals, transport, distribution, etc)
- Affected regional offices
- International distributors and U.S. business partners who are supporting the emergency or disaster
- Mitigating the effects of the emergency or disaster





# Disaster Response Implementation

#### Stand-up a Response Team

- Incident Managers
- Operations Coordination
- Key Industry Resources
- Data Resources/contacts
- Hardware and Systems
- Web Hosting via GOS sub-portal
- Professional Services
- Corporate Internet/Resource listing
- Software support
- Business Partner notification
- International Distributor notification
- Media Coordination
- Regional Managers





# Disaster Response Implementation

#### Stand-up information architecture - web portal

- Establish regular communications (phone, email, web, peer-topeer) to maintain coordination of teams and users
- Provide software request page
- White papers, Hands-on guides, Training materials
- Subject matter experts contact list
- Links to relevant data, imagery, maps, etc.
- Set up internal information tracking systems
- Work with URISA GIS Corps for volunteers
- Establish business partners who want to volunteer





# ESRI Support during Hurricane Katrina



The Mississippi State University Brain Bus 10 seat mobile classroom equipped with laptops borrowed from an ESRI training course in Mississippi and used by the GIS Corps Initial Response Team

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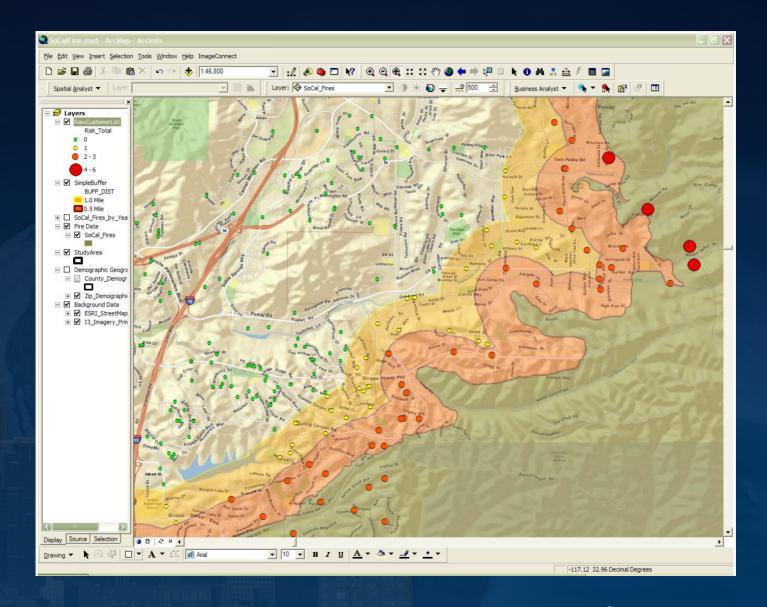
# ESRI Disaster Support National and International

- 2007 California Wild Fires
  - Data Portal
  - FEMA Response Center
  - Corporate Response Team (Redlands, Ca)
- 2006/07 US Wildfires, European Floods
- 2005 Christmas Day Tsunami Indonesia
- 2005 Gulf Hurricane Season
- Others: 9/11, 7/07 Tavistock Square, Australian Fires, UK Floods, Space Shuttle Columbia Disaster, SARS...





# California Wild Fire Support







#### GeoExtended BCP – Benefits and Value

- Tracking and report services for regulatory compliance
- Minimize risk of unplanned expenses
- Improved collaboration and communication
  - Command, control, and response teams
- Reduced data redundancy and improved accuracy
  - Management integrity of geographic information
- Increased ability to analyze and respond to events
  - Provision of a single, common view of operations
- Improved analysis, visualization, and decision support
- Repurposing of knowledge for other enterprise uses

