

San Diego Regional Public Safety Geodatabase



Overview

- Project Objectives
- Key Stakeholders and Elements
- Key Accomplishments
- Sustainment and Governance

Project Objectives

Provide Public Safety Data that is:

- Interoperable (common symbols, templates etc..)
- Multi-jurisdictional
- Multi-disciplinary
- Displayed visually (map viewers)
- Multiple platforms, delivery methods

Public Safety GIS Stakeholders



Communications Centers



dreamstime.com

First Responders

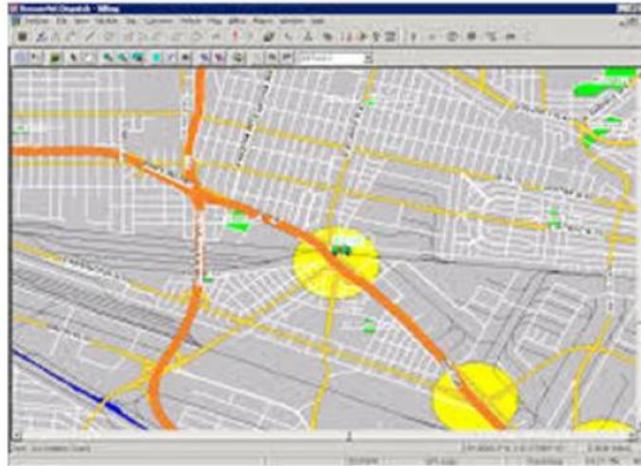


Emergency Managers



Data Sharing

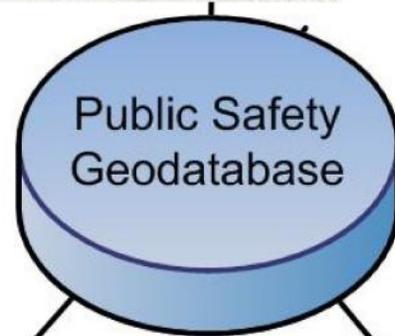
Communications Centers



CAD Mapping

- Address Points
- Street Centerlines
- Automatic Vehicle Locating
- Jurisdictional Boundaries
- Public Safety Data

Emergency Resource Routing

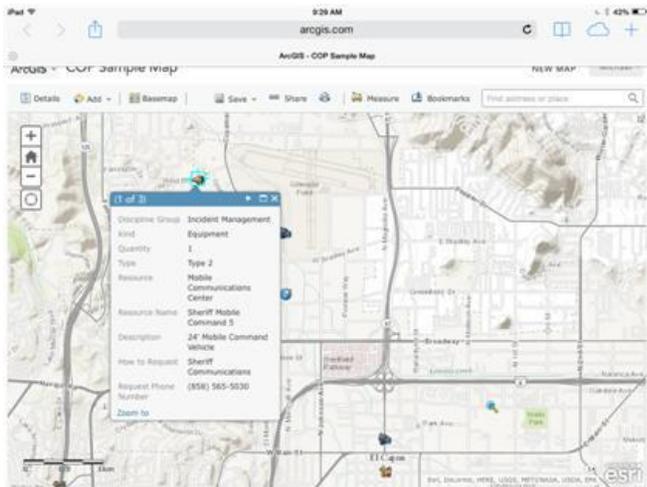


Next Generation 911

Call Center Routing



Emergency Managers



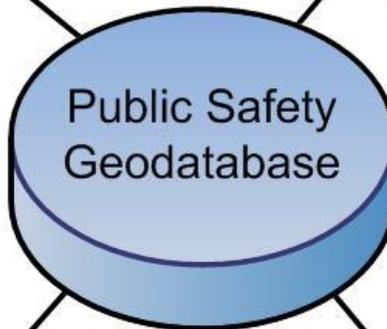
Resource Inventory



Community Risk

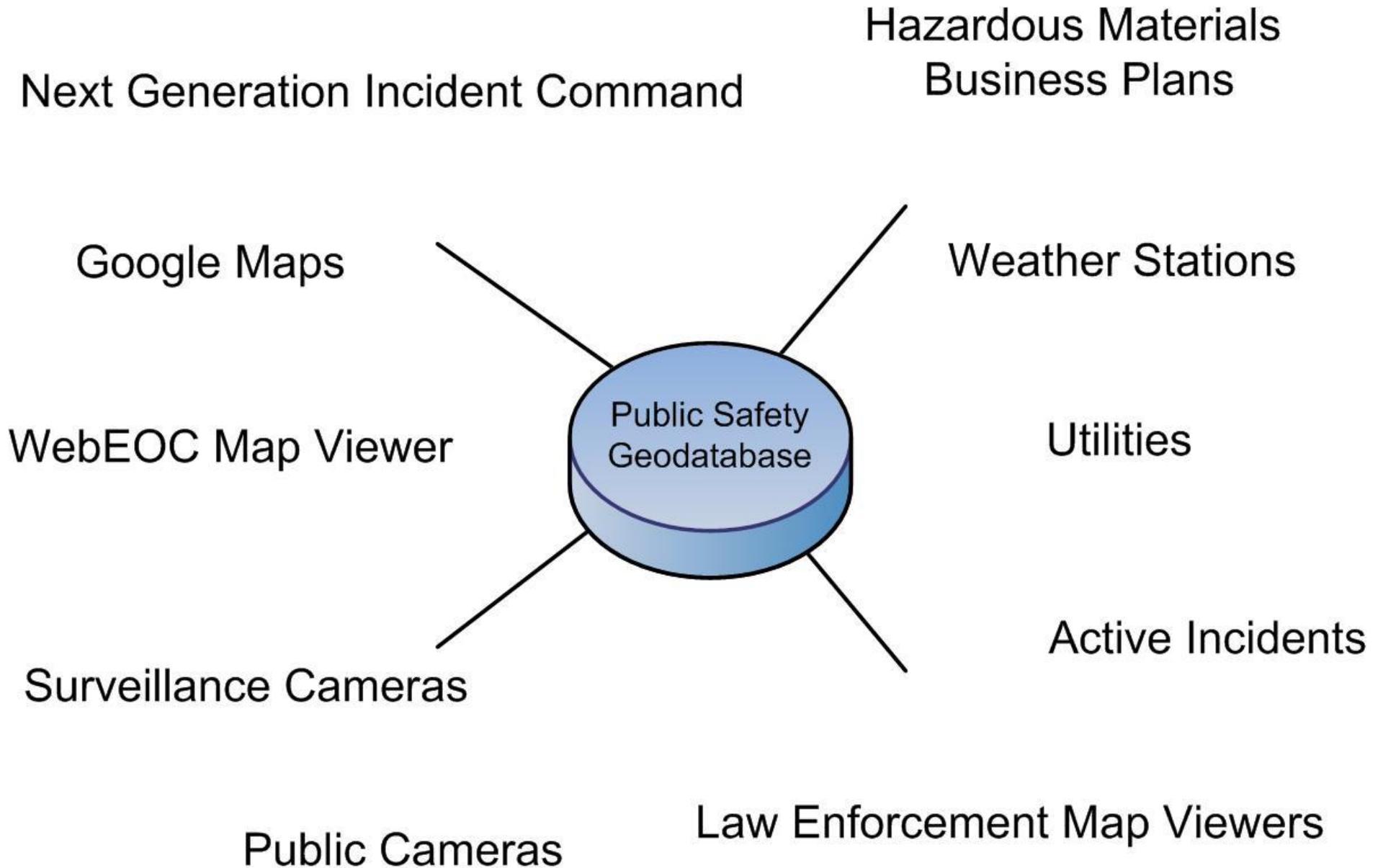


Common Operating Picture



Public Information Mapping

Data Sharing



Key Accomplishments

- Centralized Server – in place at City of Chula Vista
- Single database – ESRI Enterprise
- To do:
 - Develop cloud redundancy
 - Develop web mapping services
 - Develop system security policy/procedures

Key Accomplishments

- Computer Aided Dispatch Mapping Layers
 - Street centerlines
 - Addressing
 - Fire Hydrants
 - Jurisdictional boundaries
 - Landing zones
 - Map grid



Key Accomplishments

- Target Hazard Plan Template
- Completed 2000 plans
 - Critical Infrastructure
 - Key Resources
 - Multi-family residential
 - Collaboration with Law Enforcement Virtual Walkthroughs
- To Do:
 - 2-3000 additional plans

SND38-045	ADDRESS	10510 REAGAN RD	CURANO	SND38-045
	BUSINESS NAME	MIRA MESA HIGH SCHOOL BLDG 400	PHONE NO.	291-7678
	BUSINESS TYPE	HIGH SCHOOL	MAP DATE	4/20/2010
		1 inch = 50 feet	BUILDING ID	31000276
			MAP SHEET	3525A
				Page 5 of 15



Key Accomplishments

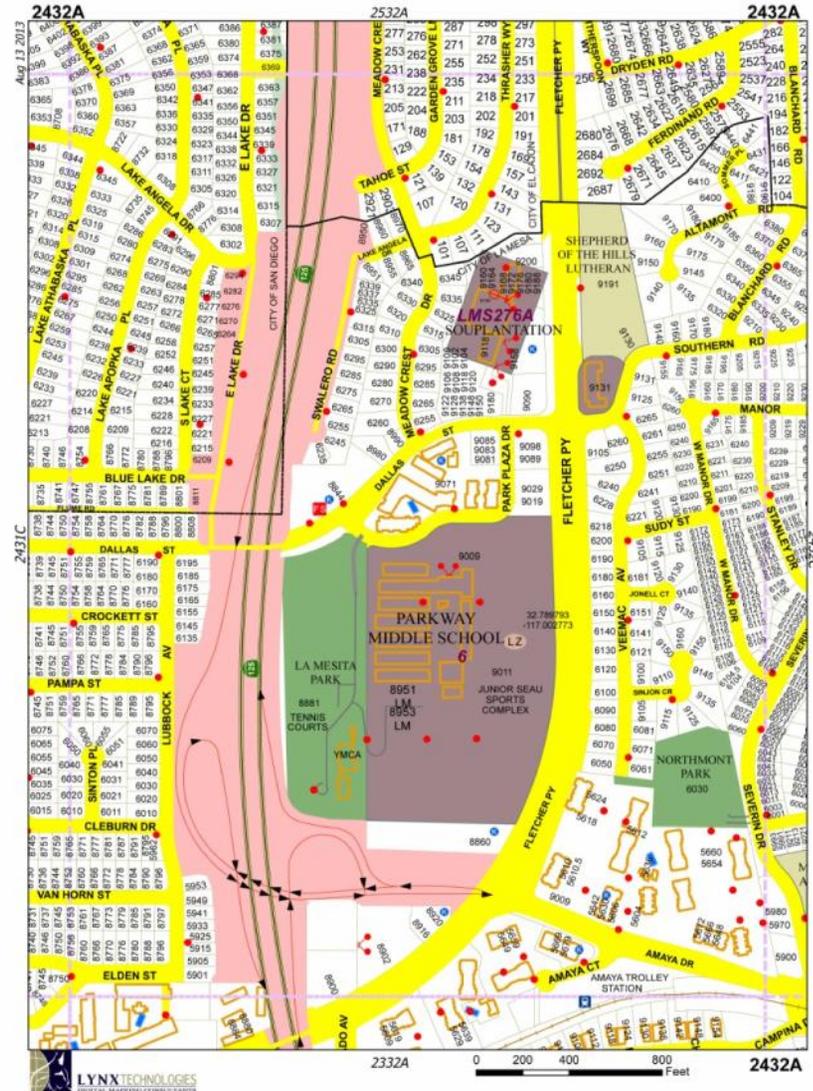
- Wildland Urban Interface Fire Emergency Response Plan Template
- To do:
 - Create plans utilizing existing data
 - Field data collection for high priority plans
 - Make available to emergency responders



WUI Name: Old Coach		POW1																																	
Location:	North Poway 1 mile east of I-15, north of Espola Rd and east of Stoneridge CC.	Public Safety Grids:	4901 - 4932 WUI Grid No.: 33 Thomas Guide Grids: TB 2071 - F1																																
Area Tactical:	Tactical Aerial:	Incident Area:	Tactical Plan:																																
BRIEFING INFORMATION																																			
Primary Safety Concerns: Ingress / Egress very limited. One primary evacuation route.																																			
Primary Safety Advantage: Low population density, moderate fuels																																			
Water Supply: Good hydrants in developed areas, otherwise reservoirs close by.																																			
Ingress/Egress: Secondary access is poor.																																			
Safety Zone: Very few and marginal in size safety zones are available throughout the preplan area. Some residences have adequate D-space however majority do not. In a fastflow scenario there are very few tight narrow canyons so residents should shelter in place 255.																																			
Staging Area: Use golf course for staging.																																			
Fuels: Mostly low brush, mesquites, very dry.																																			
Fire Potential: High. Recent fire history in area esp. w/ fall Santa Ana winds																																			
POTENTIAL RESOURCE NEEDS		STRUCTURE AND POPULATION	FIRE HISTORY																																
Engines (Type 2):	2	Population:	500																																
Engines (Type 1):	2	Total Acreage:	4020																																
Hand Crews:	6	Number of Buildings:	353																																
Buildozers:	2	Structure Density:	0.087/ft ²																																
Air Tankers:	3	Structure Risk:																																	
Water Tenders:	2	High:	53																																
Helicopters:	4	Medium:	67																																
Management Personnel:		Low:	233																																
SOFI:	1	Structure Types / Zoning:																																	
Div/Group:	3	Primarily residential estates with 2 - 3 acre properties. Ranchette style homes with abundant accessory structures.																																	
ICFR:	1	Average Windley Influence:	80																																
OPSC:	1	Extreme Windley Influence:	85																																
		Temperature:	80																																
		Relative Humidity:	47%																																
		20 Ft. Wind:	13																																
		20 Ft. Wind:	29																																
		Flame Length:	8 - 25																																
		Flame Length:	25 - 30																																
		ROS (Chains/hr):	1 - 40																																
		ROS (Chains/hr):	80 - 150																																
OTHER INFORMATION																																			
Evacuation Plan: Early and aggressive management of evacuation of civilians is critical. Traffic control limit access to Coronado Hills as early priority. If Coronado Hills Dr compromised, egress via Altavero may be considered. Carefully evaluate Altavero for safety.																																			
Fire Protection Plan: Aggressively manage life safety. Early placement of resources to coordinate evacuation and structure protection first priority. Consider heavy resource orders early.																																			
Comm. Plan: Communication Plan pending.																																			
Special Hazards: Difficult ingress, terrain, aggressive initial actions must. Consider request EODSO to shut down public access. Request full CDF air/craft response. Quickly establish a Structure Protection Group min 2 strike teams assigned. Request additional resource early.																																			
Supplemental Information: One-way ingress/egress. Very narrow access that is easily compromised by traffic congestion. Many multiple roads located in the fuel beds. Little or no vegetation clearance along the road system. Extreme caution is warranted.																																			
WILDLAND RISK MATRIX																																			
<table border="1"> <thead> <tr> <th>WUI</th> <th>Structure Density</th> <th>Structure Risk</th> <th>Fire Potential</th> <th>Evacuation</th> <th>Access</th> <th>Water Supply</th> <th>Supplemental</th> </tr> </thead> <tbody> <tr> <td>High</td> <td>High</td> <td>High</td> <td>High</td> <td>High</td> <td>High</td> <td>High</td> <td>High</td> </tr> <tr> <td>Medium</td> <td>Medium</td> <td>Medium</td> <td>Medium</td> <td>Medium</td> <td>Medium</td> <td>Medium</td> <td>Medium</td> </tr> <tr> <td>Low</td> <td>Low</td> <td>Low</td> <td>Low</td> <td>Low</td> <td>Low</td> <td>Low</td> <td>Low</td> </tr> </tbody> </table>				WUI	Structure Density	Structure Risk	Fire Potential	Evacuation	Access	Water Supply	Supplemental	High	Medium	Low																					
WUI	Structure Density	Structure Risk	Fire Potential	Evacuation	Access	Water Supply	Supplemental																												
High	High	High	High	High	High	High	High																												
Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium																												
Low	Low	Low	Low	Low	Low	Low	Low																												

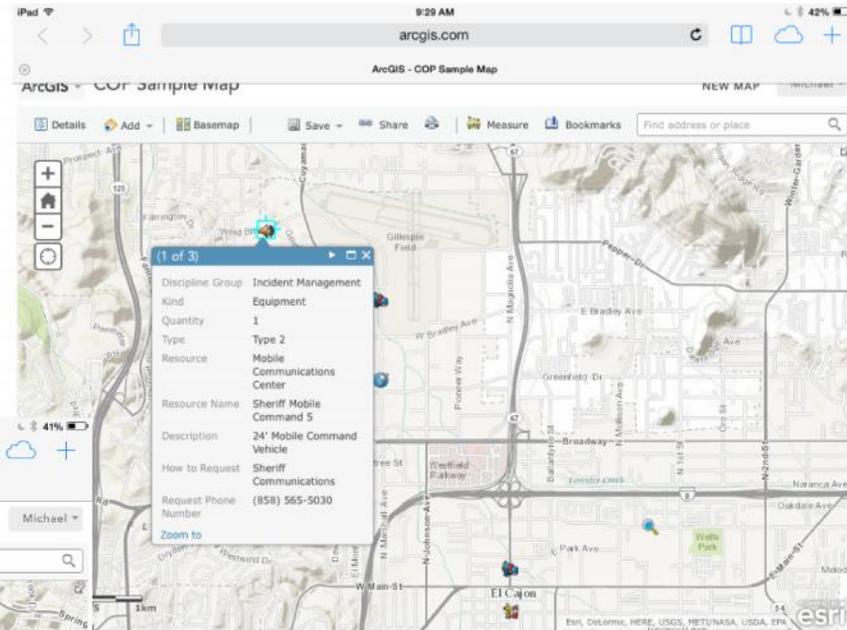
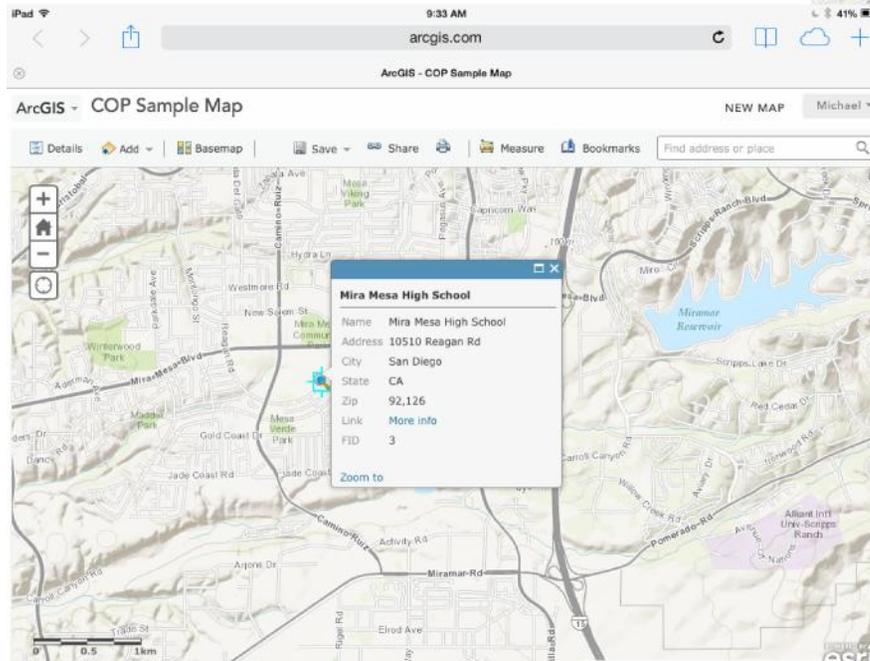
Key Accomplishments

- Common Map Grid
- Printed Hard Copy Map Books
- Street Maps
 - Streets
 - Addressing
 - Fire Hydrants
 - Jurisdictions



Key Accomplishments

- Map Based Viewers
 - Target Hazard Plans
 - Resource Inventory



To Do:

- Community Risks
- Wildland Urban Interface Plans
- Public and Surveillance Cameras
- Common Operating Picture Mapping

Other Project Objectives

- Integrate with Hazardous Material Business Plans
- Support Next Generation 911 needs
- Integrate with records management systems
- Integrate with other decision support systems through web services

Sustainment and Governance

- Currently funded through end of 2014 with UASI Grant Funding
- Unified Disaster Council Ad-hoc Committee working on draft recommendations for the transition of the project to a program under the UDC.

Questions?

Contact Information

Jeff Ledbetter – GIS Project Manager

jledbetter@sdrtp.com

Mike Scott - Regional Technology Program Manager

mscott@sdrtp.com