

BAY AREA UASI

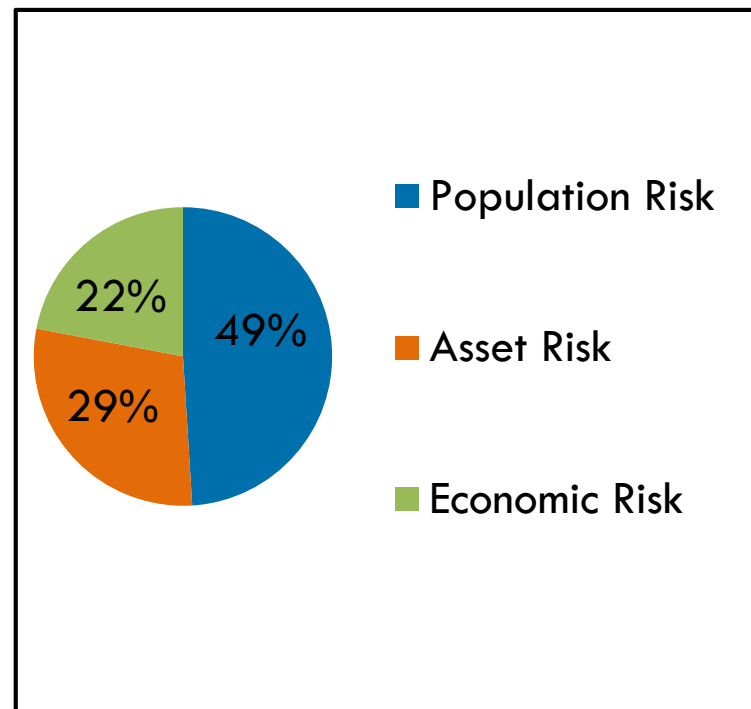
FY 2013-2014 Bay UASI Hub Funding Formula

Approval Authority Meeting
March 13, 2013



Components of Formula

- As adopted by the Bay Area UASI Approval Authority in 2009
- Percentage distribution may change depending upon DHS guidance



Hub Allocation Percentages

Hub	FY 2013 Allocation Percentage	FY 2014 Allocation Percentage	Percentage Change
East	22.59%	25.27%	+2.68%
North	7.24%	7.50%	+.26%
South	25.50%	25.77%	+.27%
West	44.67%	41.46%	-3.21%
	100%	100%	

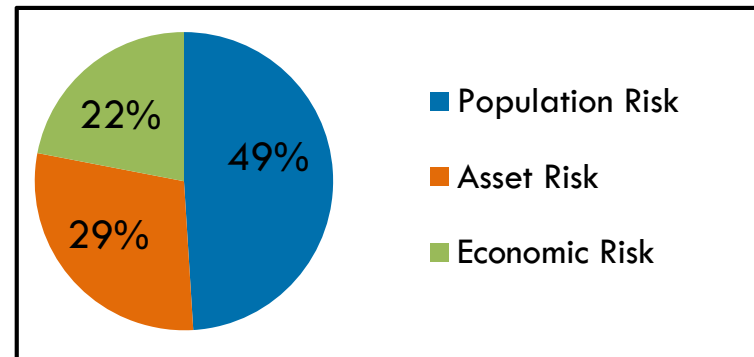


Example of Funding Formula

Three weighted risk factors are combined to determine a hub's funding amount. For example:

- A hub may have the following risk scores:
 - 10% of area Population Risk
 - 20% of area Asset Risk
 - 30% of area Economic Risk
- Those scores are combined with the allocation weights to determine a funding percentage. For our example, this yields $(10\% * 49\%) + (20\% * 29\%) + (30\% * 22\%) =$ an allocation percentage of 17.3%
- This percentage is applied to the overall hub allocation amount. For example, if the overall amount allocated to hubs is \$6.9M, this would result in a \$1.2M allocation to this example jurisdiction ($.173 * \$6.9M$)

Current Allocation Weights as Determined by Bay Urban Area



Allocation Example

Population Risk: $(10\% * 49\%)$
Asset Risk: $+(20\% * 29\%)$
Economic Risk: $+(30\% * 22\%)$
= an allocation percentage of 17.3%

$\$6.9M * 17.3\% = \$1.2M$



Economic Risk

- Economic Risk Includes Two Principal Data Points
 - GDP by MSA
 - GDP by Industry
- Both Underwent Updates this Year, with Minimal Impact on Bay Area Jurisdictions
- Source data provided by the U.S. Bureau of Economic Analysis (BEA)
 - Same Source used by DHS

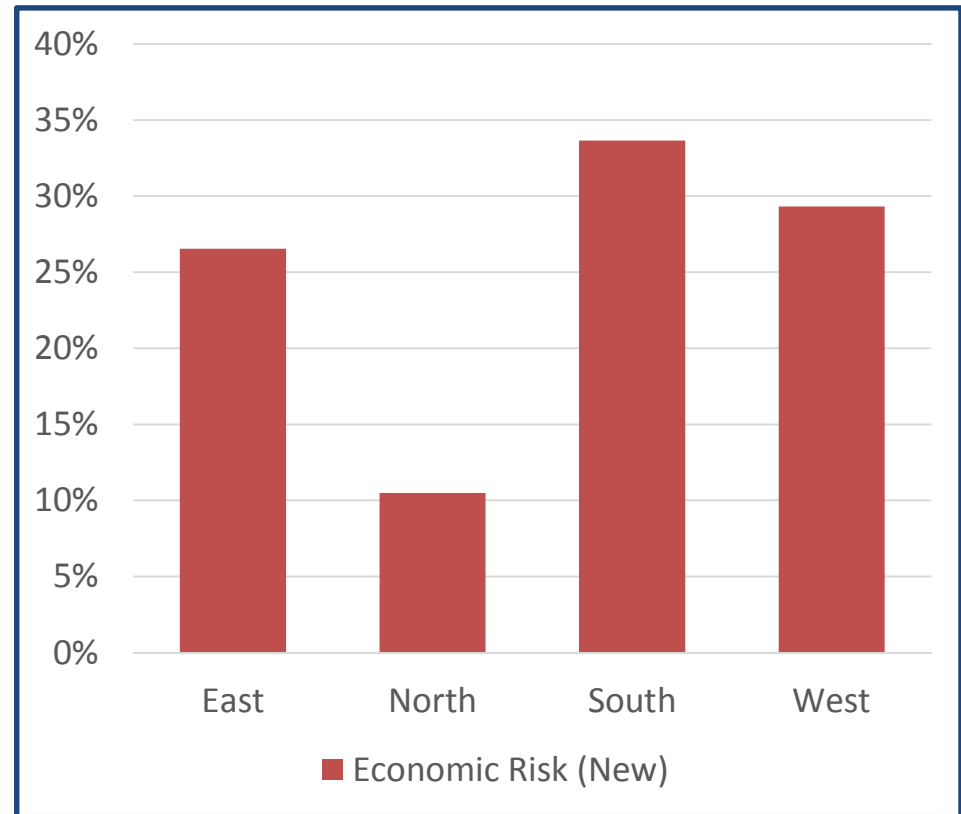
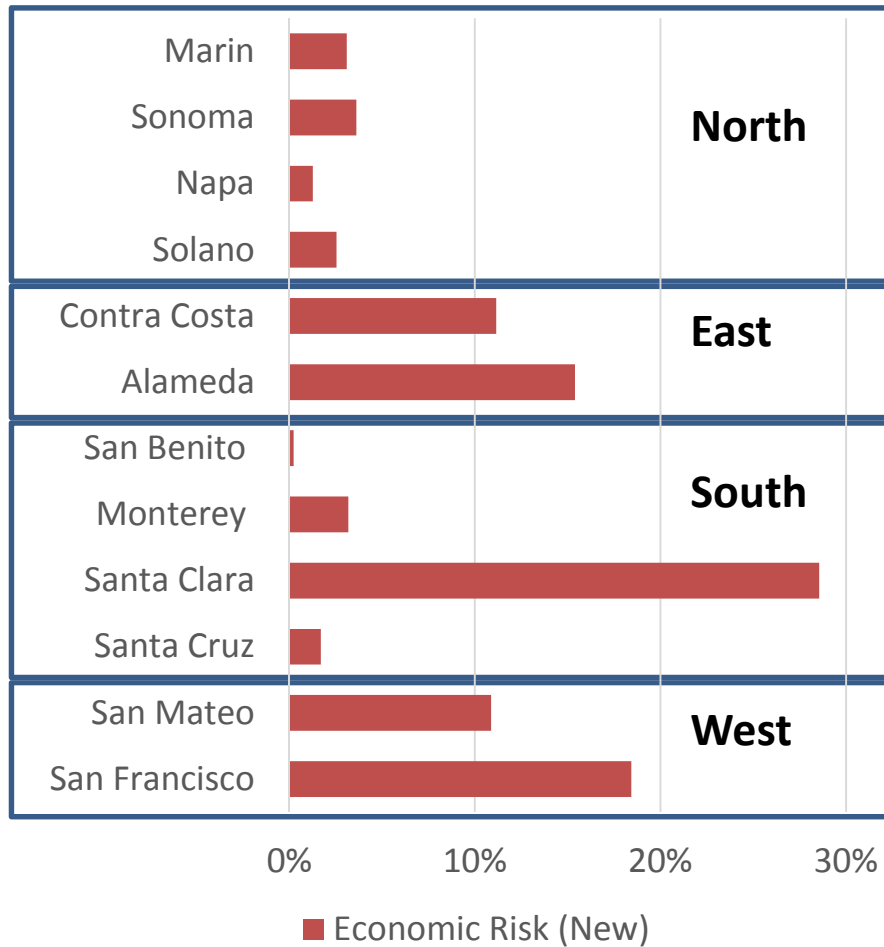
Local Area Income
by Income Type



GDP for California
by Industry



Economic Risk



Economic Risk

Jurisdiction	Economic Risk (Old)	Economic Risk (New)
San Francisco	18.11%	18.43%
San Mateo	10.61%	10.88%
Santa Cruz	1.66%	1.69%
Santa Clara	29.12%	28.55%
Alameda	15.10%	15.39%
Contra Costa	11.84%	11.15%
Solano	2.51%	2.54%
Napa	1.21%	1.26%
Sonoma	3.54%	3.61%
Monterey	3.06%	3.18%
San Benito	0.23%	0.23%
Marin	3.02%	3.09%
Total	100.00%	100.00%

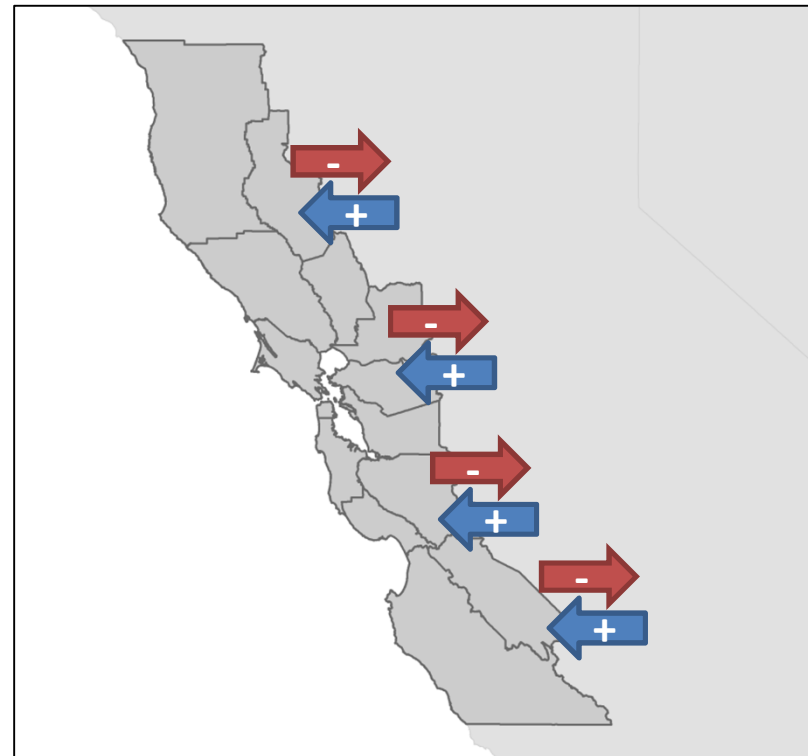
Hub	Economic Risk (Old)	Economic Risk (New)
East	26.94%	26.54%
North	10.29%	10.50%
South	34.06%	33.65%
West	28.72%	29.31%

- Both Old/New risk values are using 2010 data available from the Bureau of Economic Analysis (BEA)
- Changes reflect BEA's updates of 2010 values on June 6, 2013, and September 17, 2013
- The released revisions made changes to the MSA GDPs and the State's by-Industry GDPs

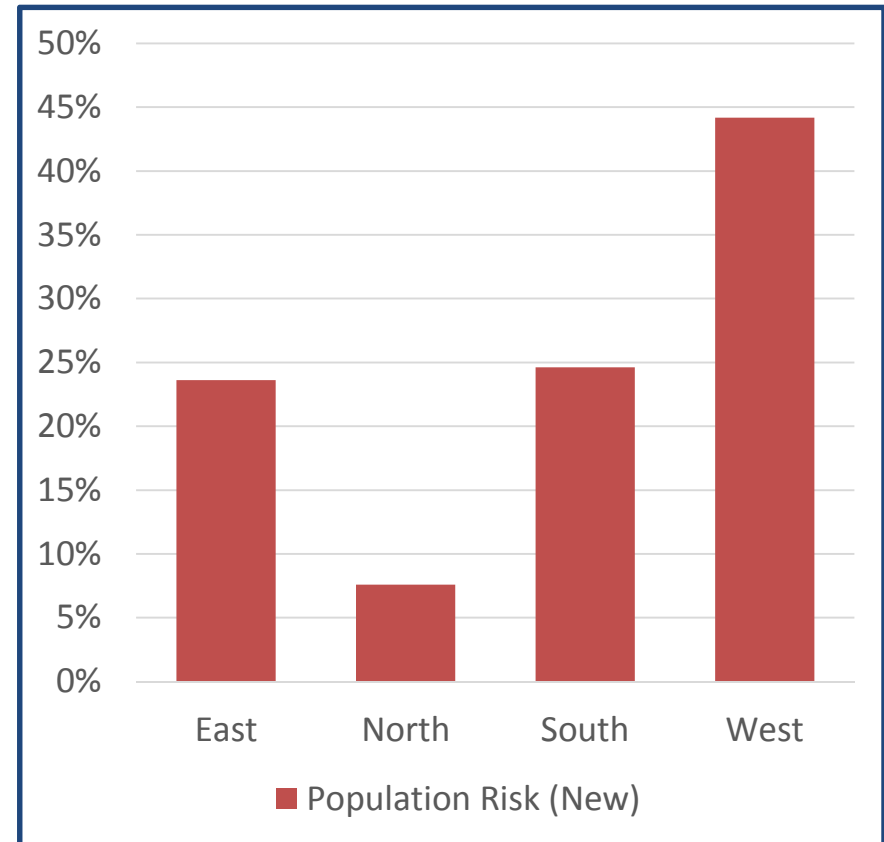
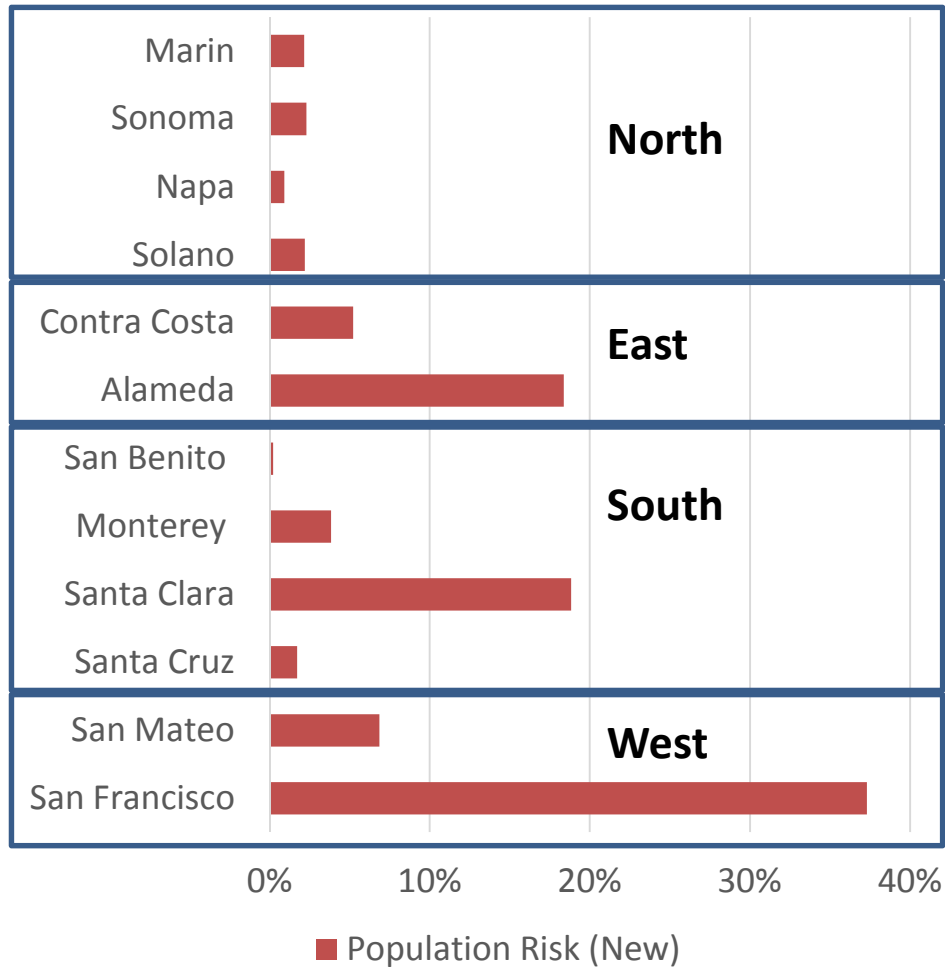


Population Risk

- Population Risk Includes Four Principal Data Points
 - Census Population
 - Land Area (to calculate population density)
 - Commuters
 - Visitors
- Same Data Sources as DHS
- Daytime Population Density
 - Standard census population
 - Subtract outgoing commuters
 - Add incoming commuters
 - Captures population during times when people commute to other places for work
 - Can be large day/night differences in population, especially in urban areas
- Why Daytime Population?
 - Terrorist attacks focus on causing maximum disruption
 - More disruption during the work day
 - People out & away from home; separated from families
 - Disrupt normal markets and business operations



Population Risk



Census Population

Jurisdiction	Population (Old)	Population (New)	Change
San Francisco	808,976	805,235	-0.46%
San Mateo	712,690	718,451	0.81%
Santa Cruz	253,137	262,382	3.65%
Santa Clara	1,764,499	1,781,642	0.97%
Alameda	1,474,368	1,510,271	2.44%
Contra Costa	1,029,703	1,049,025	1.88%
Solano	407,515	413,344	1.43%
Napa	133,433	136,484	2.29%
Sonoma	466,741	483,878	3.67%
Monterey	408,238	415,057	1.67%
San Benito	54,699	55,269	1.04%
Marin	248,794	252,409	1.45%

- San Francisco was the only county to have their population corrected downwards from the 2008 estimates.



Commuter Data

Jurisdiction	Commuter Adjustment to Population (Old)	Commuter Adjustment to Population (New)
San Francisco	391,827	162,455
San Mateo	191,562	3,574
Santa Cruz	28,093	(11,779)
Santa Clara	559,438	99,678
Alameda	347,771	7,554
Contra Costa	120,037	(98,291)
Solano	38,756	(42,856)
Napa	20,353	6,524
Sonoma	60,462	(19,330)
Monterey	60,275	(794)
San Benito	364	(7,204)
Marin	30,756	2,913

- In the “Old” dataset commuters are calculated via multiple reports from Census’ 2008 ACS 3-year estimates and Department of Transportation
- In the “New” dataset, commuters are calculated via multiple reports from Census’ 2010 ACS 5-year estimates
- This table represents just one of the data inputs into commuter calculations that are done at the block-level



Population Risk

Jurisdiction	Population Risk (Old)	Population Risk (New)
San Francisco	46.69%	37.31%
San Mateo	6.01%	6.86%
Santa Cruz	1.15%	1.72%
Santa Clara	14.43%	18.84%
Alameda	13.74%	18.38%
Contra Costa	5.08%	5.23%
Solano	1.68%	2.20%
Napa	0.47%	0.93%
Sonoma	1.83%	2.31%
Monterey	7.32%	3.84%
San Benito	0.19%	0.22%
Marin	1.40%	2.16%
Total	100.00%	100.00%

Hub	Population Risk (Old)	Population Risk (New)
East	18.82%	23.61%
North	5.38%	7.60%
South	23.10%	24.62%
West	52.70%	44.17%

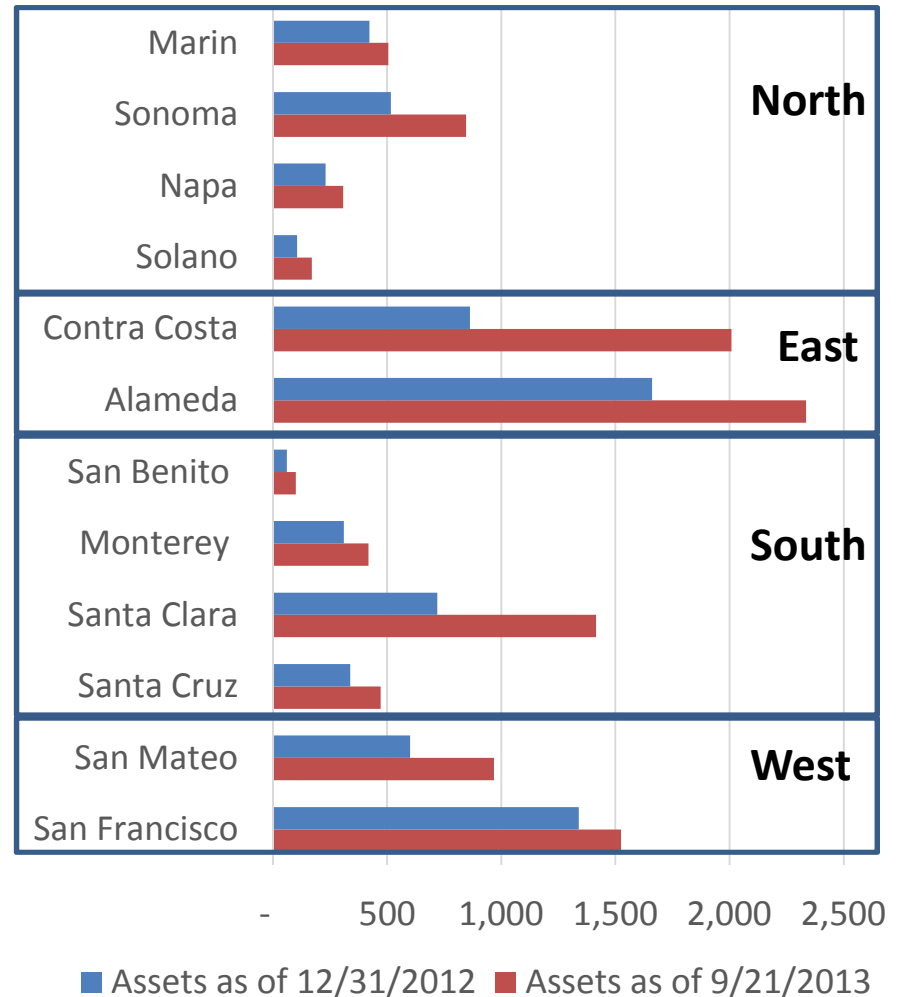
- The “Old” population risk data was using Census’ 2008 ACS 1-year estimates. The “New” population risk is based off of the Census 2010 count. This includes updates to commuter information and land area
- Additionally, updated inputs were used for Commuter and Visitor Data



Asset Risk

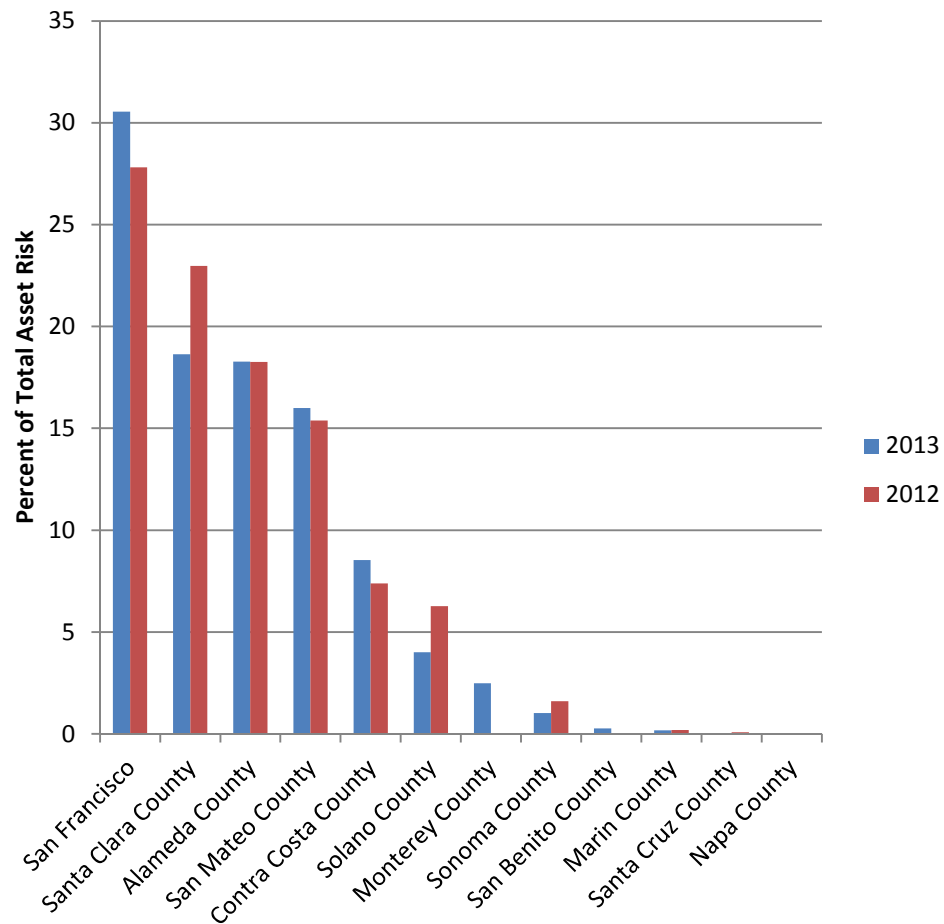
Bay Area Asset catalog increased from 8,583 to 12,923 assets

- All Jurisdictions were involved in process
- Major Sectors Updated: Banking, Chemical, Defense Industry, Energy, IT, Communications, Postal, Healthcare, Transportation, Water, Monuments, Commercial, Government, Dams, Nuclear, and Manufacturing
- NCRIC eliminated duplicate assets in DS7
- 56 Asset Priority Updates
- 111 VHEMP Assessments completed:
 - Alameda, Contra Costa, Monterey, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Sonoma
 - Oakland, San Jose

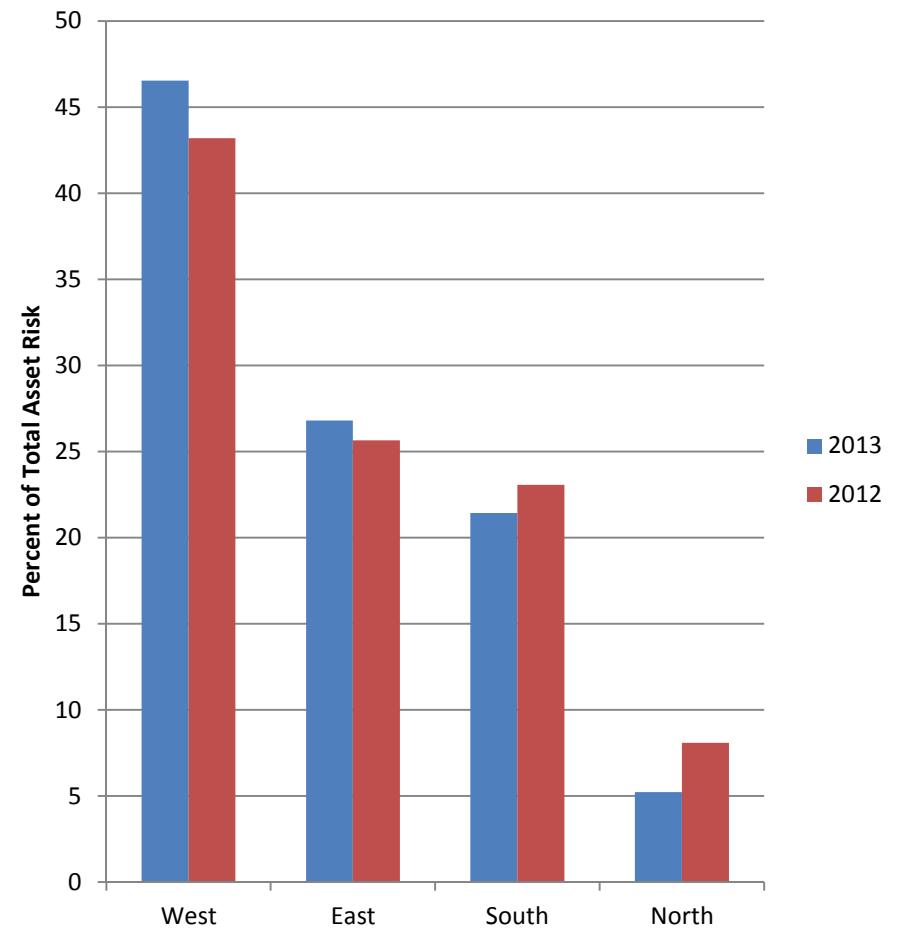


Asset Risk

County Asset Risk



Hub Asset Risk





Asset Risk

- Asset risk is NOT a function of quantity of assets, but rather of the individual risk characteristics of those assets:
 - Threat
 - Vulnerability
 - Consequences
- If you're interested in the individual risk levels of specific assets, please contact the Dave Frazer, Risk and Information Sharing Project Manager





Next Steps

Upon Release of the Homeland Security Funding Opportunity Announcement from DHS, apply hub funding formula to hub allocation from 2014 award, as directed by the Approval Authority



Thank you.

BAY AREA UASI

