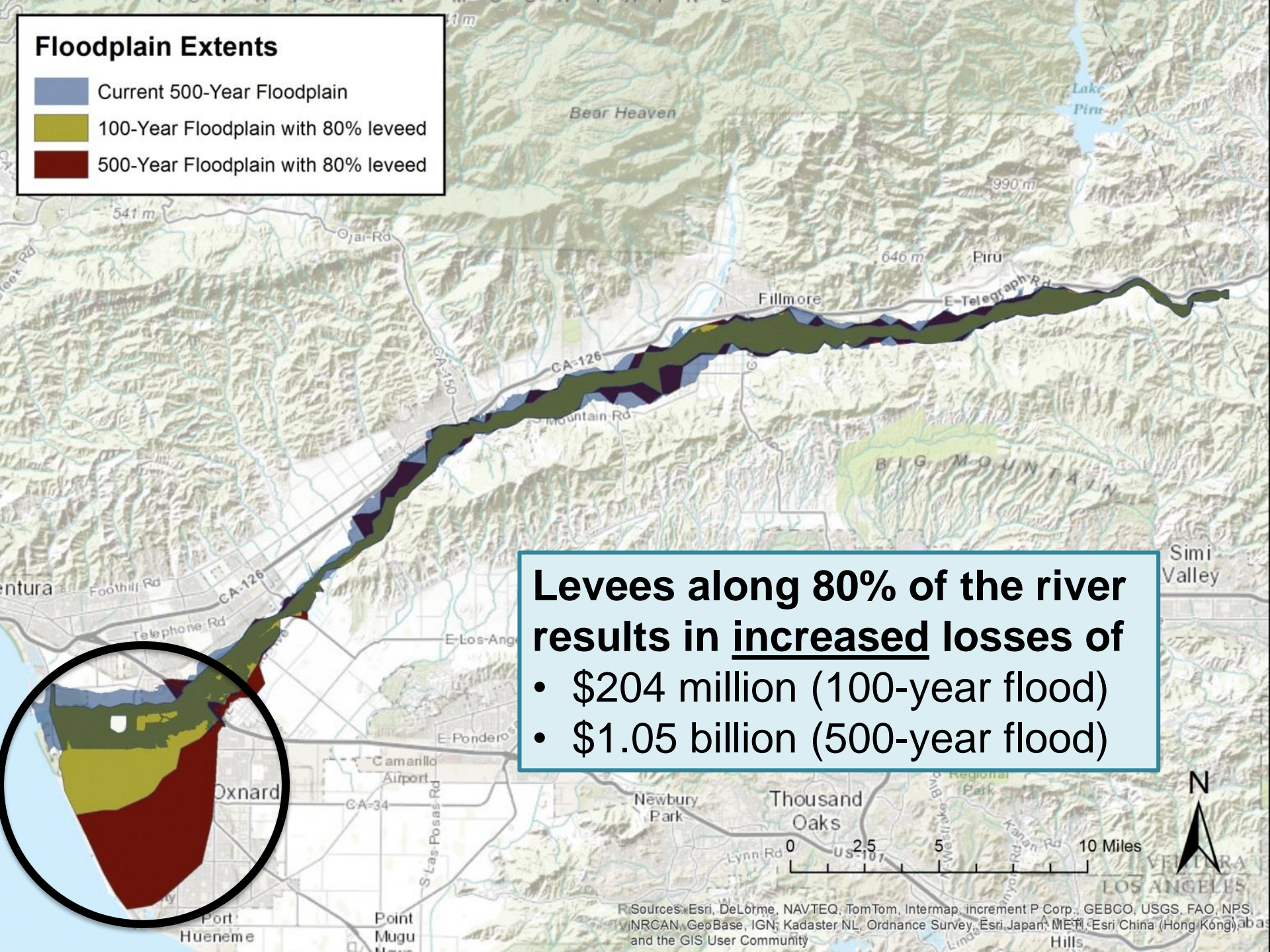




**Santa Clara River
Floodplain Protection Program
WCVC April 28, 2016**

Floodplain Extents



- Current 500-Year Floodplain
- 100-Year Floodplain with 80% leveed
- 500-Year Floodplain with 80% leveed

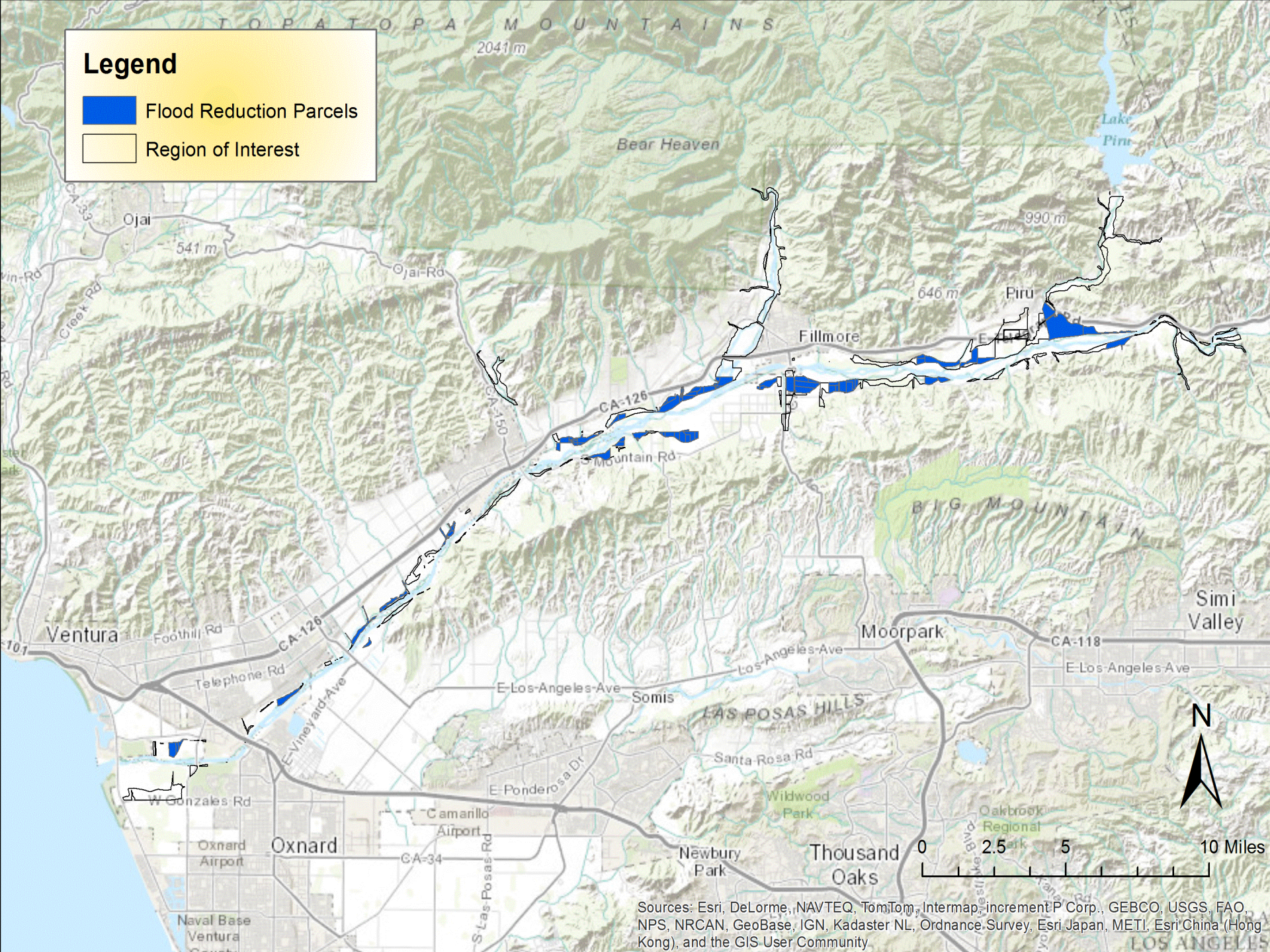


Levees along 80% of the river results in increased losses of

- \$204 million (100-year flood)
- \$1.05 billion (500-year flood)

Legend

-  Flood Reduction Parcels
-  Region of Interest



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), and the GIS User Community





Climate Resilience Mitigation

1. Higher temperatures
 - a. Greater evapotranspiration
 - b. Increased groundwater use
 - c. Floodplains provide GW recharge
2. Larger storms possible
 - a. Floodplains mitigate floods and damage
 - b. No M&O costs = resources available
3. Ag sustainability/food security
 - a. Groundwater recharge maintained
 - b. \$ to farmers (economic sustainability)

Thanks to our funders!
WCVC & DWR
Santa Clara River Trustee Council