


Alpine County Interoperability Projects

Objectives

- ▶ Explain purpose and benefits of communications projects
 - ▶ Provide overview and description of communications sites
 - ▶ Provide funding information for Hawkins Peak and Leviathan Peak
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Alpine County Communication Sites

- ▶ Mt. Reba
 - ▶ Melissa Coray (aka Thimble Peak)
 - ▶ Hawkins Peak
 - ▶ Leviathan Peak
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Purpose and Benefits of the Projects

- ▶ Greatly improved Public Safety Communications through increased coverage
 - Sheriff
 - Fire
 - EMS
 - Road Crew
 - Contracted Emergency response from:
 - Douglas County Fire
 - Lake Valley Fire
- ▶ Cell phone
 - Markleeville
 - Hwy 88, 89 corridors

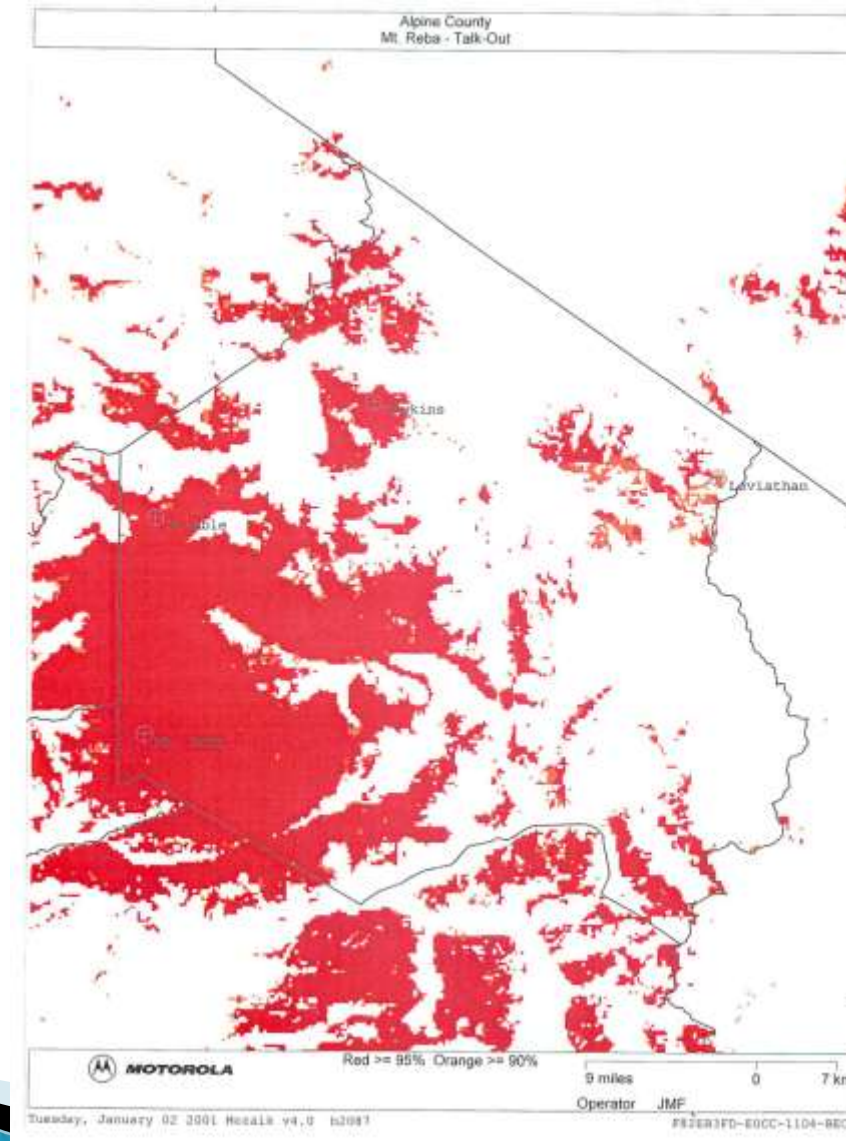
Purpose and Benefits of the Projects

- ▶ High speed internet
 - Cellular based
 - 3G (according to Golden State)
 - ▶ Tower Camera System for virtual fire lookout (future)
 - ▶ Hub Site for Microwave system (future as grants become available)
 - ▶ Interoperability for mutual aid agencies
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Mt. Reba

- ▶ Existing Site constructed in Early 1990's
- ▶ Site managed by: PG&E
- ▶ Coverage Area: Greater Bear Valley area, Mokelumne Wilderness, Spicer Reservoir, Lake Alpine Lodge area, and Hwy 4 corridor.
- ▶ Other:
 - Occupants: Alpine County, USFS, Other Government
 - Issues: Roof leaks damaging repeater beyond repair
 - No tower room for expansion of communications
 - Facility **IS NOT** Alpine County responsibility

Mt. Reba Signal Propagation Map



Melissa Coray

aka Thimble Peak




Melissa Coray

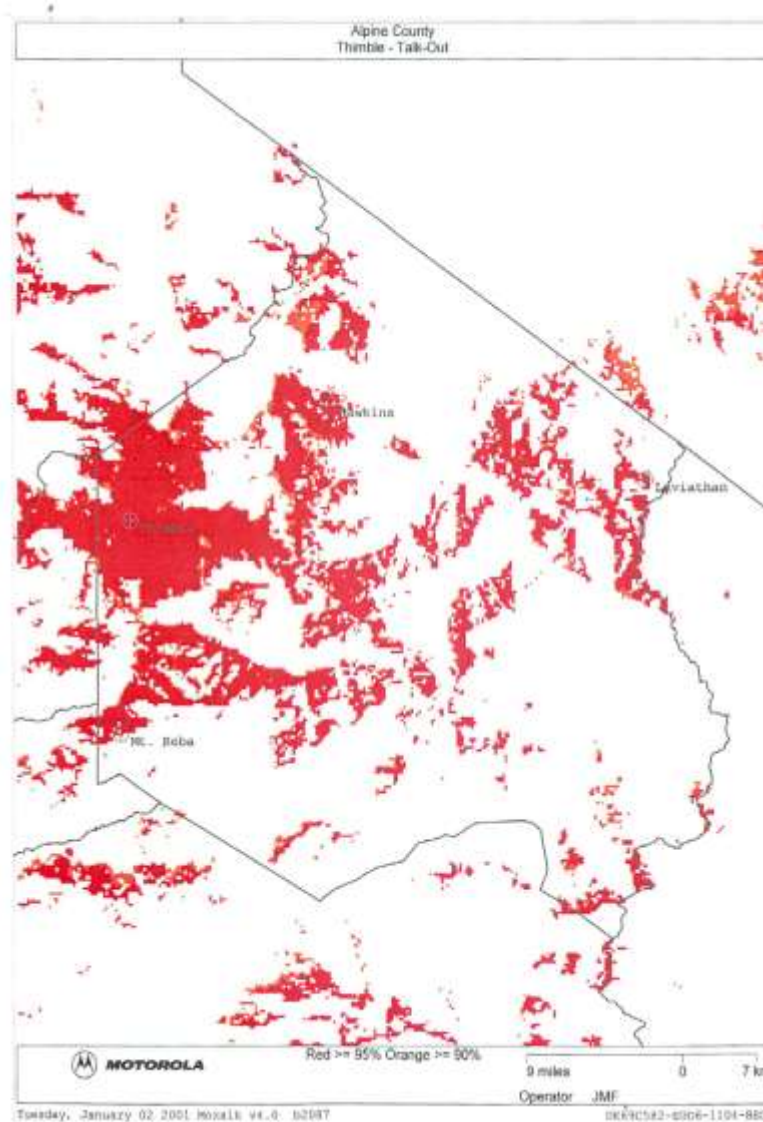
aka Thimble Peak/Ridge

- ▶ Existing Site constructed in approx. 1940–50's
- ▶ Site managed by: Alpine County
- ▶ Coverage Area: Greater Kirkwood area including, Hwy 88 to Iron Mtn. Rd., Desolation Wilderness Area, Blue Lakes, Highland Lakes and parts of Hwy 4 Corridor, and upper Mokelumne watershed areas.
- ▶ Other:
 - Occupants: Alpine County & CHP (pending)
 - Facility sits in wilderness area and is beyond serviceable lifespan
 - Permit expires in 2020
 - Carlton Engineering needs to perform facility assessment
 - Needed future repairs are: Repaint of entire facility, new roof, new solar panels with additional panels and frame needed, replace damaged antenna and re-weather proof the building

Melissa Coray Repairs

- ▶ Recent repairs were replacement of solar module controller, tightening and replacing tower bolts and watering batteries.
 - Cost approximately \$1,000–1,500 as billings are pending
 - Environmental assessment work need to be completed
 - Long term plan for replacement as facility is well beyond serviceability
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Melissa Coray Radio Propagation Map



Hawkins Peak



Hawkins Peak

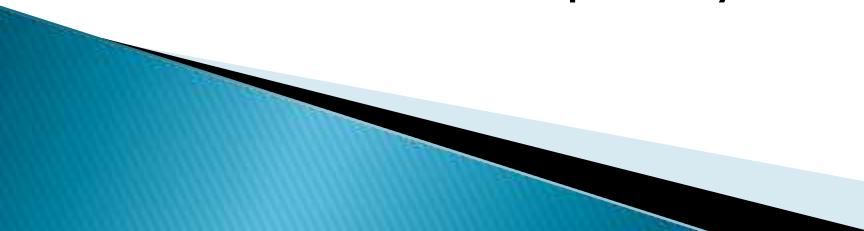


Hawkins Peak

- ▶ New construction
- ▶ Planning began in:
 - 2000 (conceptual discussions)
 - FY 2004/2005 seed funding for EA, scoping and special use permit
- ▶ Construction began in Summer 2009
- ▶ Site managed by: Alpine County
- ▶ Coverage Area: Central to all of Alpine County. Will provide gap coverage into Hwy 4, 89 and 88 corridors, Hope Valley area, including the back country of Blue Lakes, Caples Lake, Hermit Valley, Desolation Wilderness and prisoner transport coverage to the El Dorado County Jail (currently little or none).

Hawkins Peak

▶ Other Facts:

- Occupants: Alpine County, CHP, Golden State Cellular w/others possible depending on power requirements
 - Permit Expires: December 21, 2036
 - Construction problems include: Poor soils at peak, helicopter lifting of concrete, some additional weather considerations needed for facility
 - Maintenance forward: Maintenance and Operations manual to be developed by consultants
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Hawkins Peak Radio Propagation Map



Hawkins Peak Project Construction Managers


- ▶ Robert Levy, Undersheriff
 - 2000–2011
- ▶ Jim Haen
 - Construction Year 2009
- ▶ Josh Fisher, Carlton Engineering
 - Construction Year 2010–11

Hawkins Peak Project Description

- ▶ **Hawkins Peak–Phase A & B**
 - Phase A is the Array & Power building
 - Phase B is the Tower
 - Construction commenced in Summer 2009
 - Estimated completion is November 2011

- ▶ **Hawkins Peak–Phase C**
 - Solar panel installation and electrical
 - Construction will commence July 15, 2011 depending on snow/road conditions
 - Estimated completion is November 2011


Future Phases

- ▶ Microwave
 - ▶ Heliport
 - ▶ New Radios
 - ▶ Maintenance & Operations Manual
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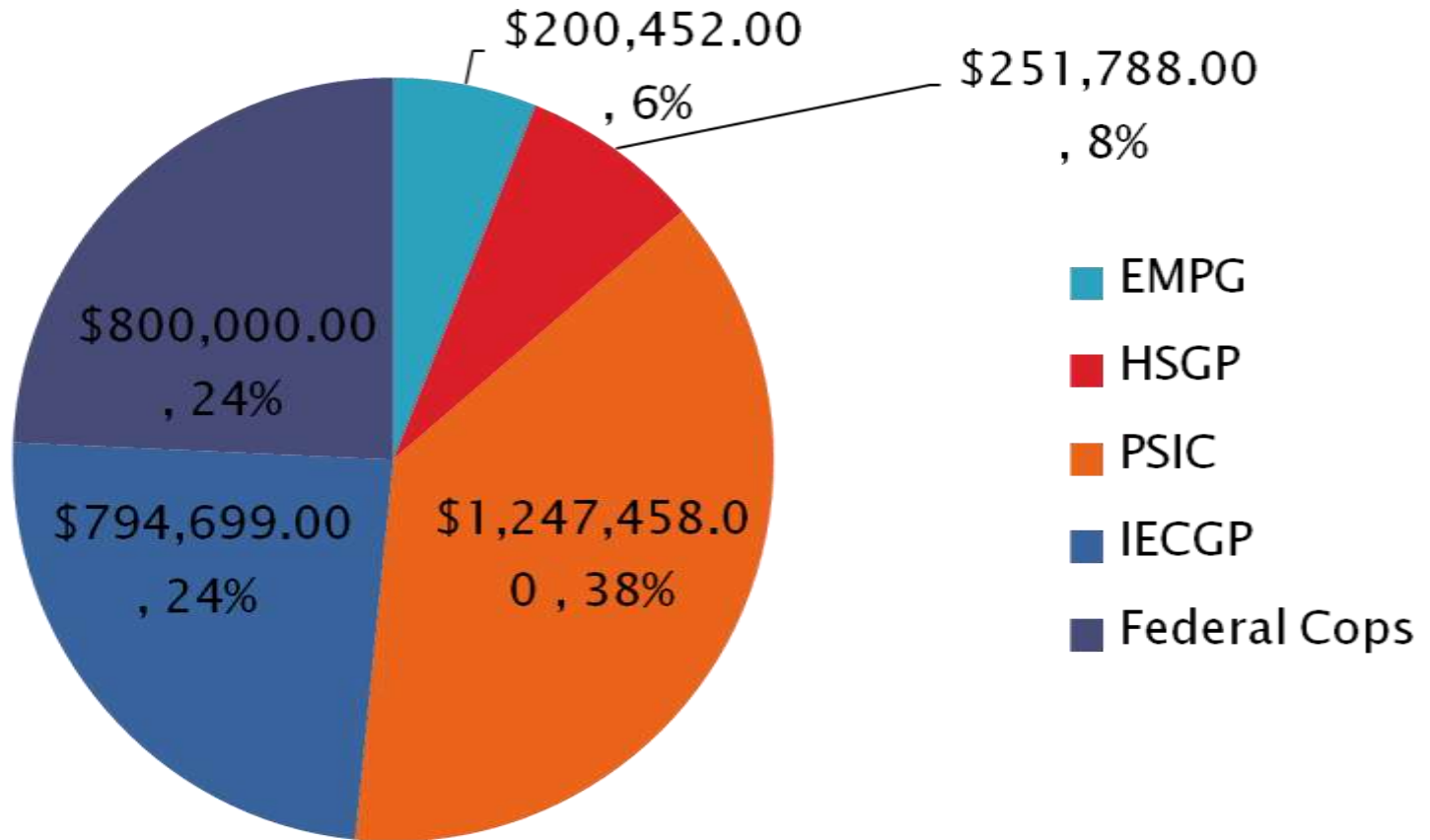
Hawkins Peak Funding



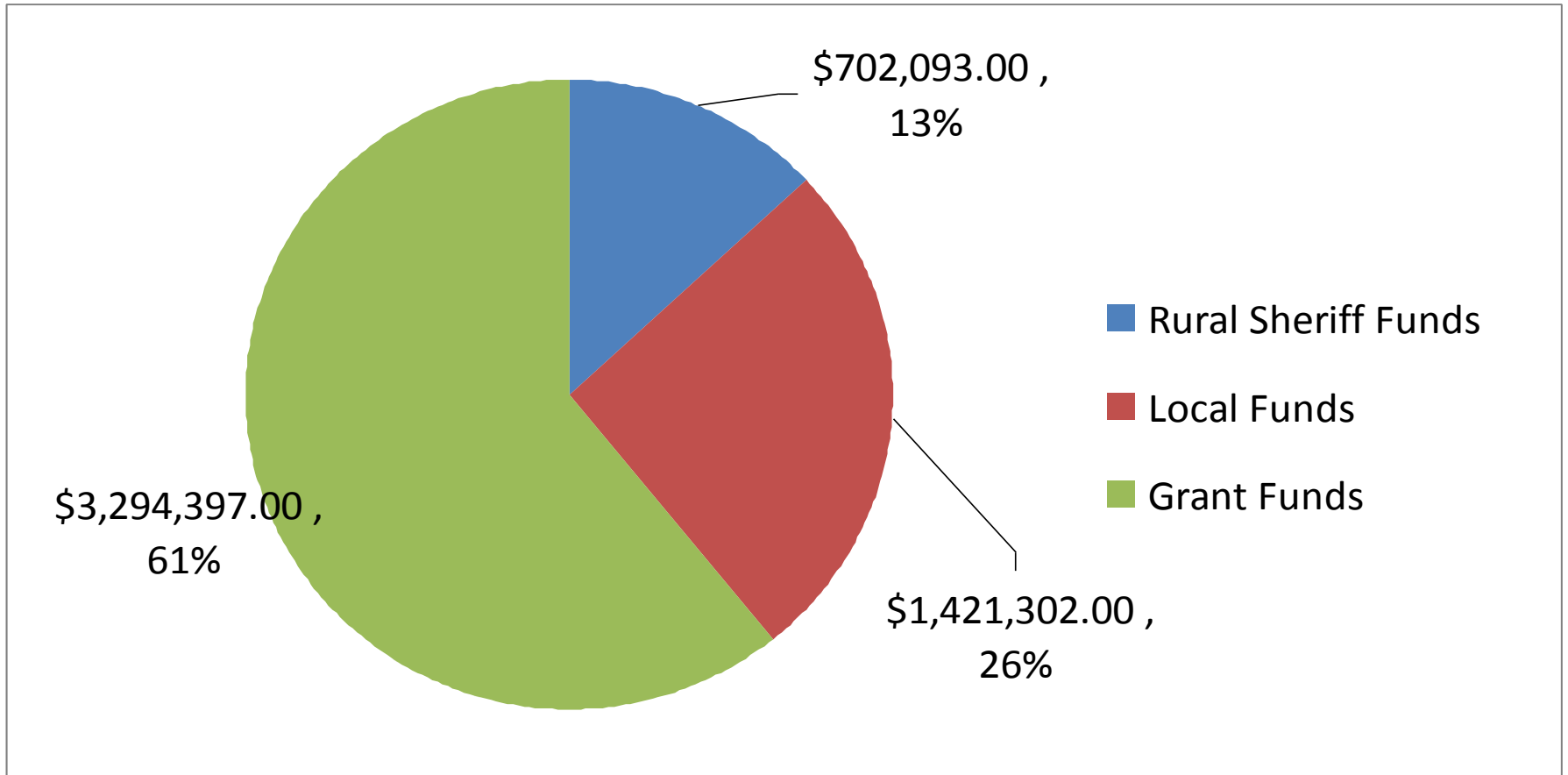
Hawkins Peak Grant Funding Streams

- ▶ IECGP–Interoperable Emergency Communications Grant Program
 - ▶ EMPG–Emergency Management Preparedness Grant
 - ▶ Federal COPS Technology– FY 10
 - (Lungren & Feinstein appropriation)
 - ▶ PSIC–Public Safety Interoperable Communications
 - ▶ HSGP–Homeland Security Grant Program
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Hawkins Peak Grant Funding Sources



Hawkins Peak Funding Sources



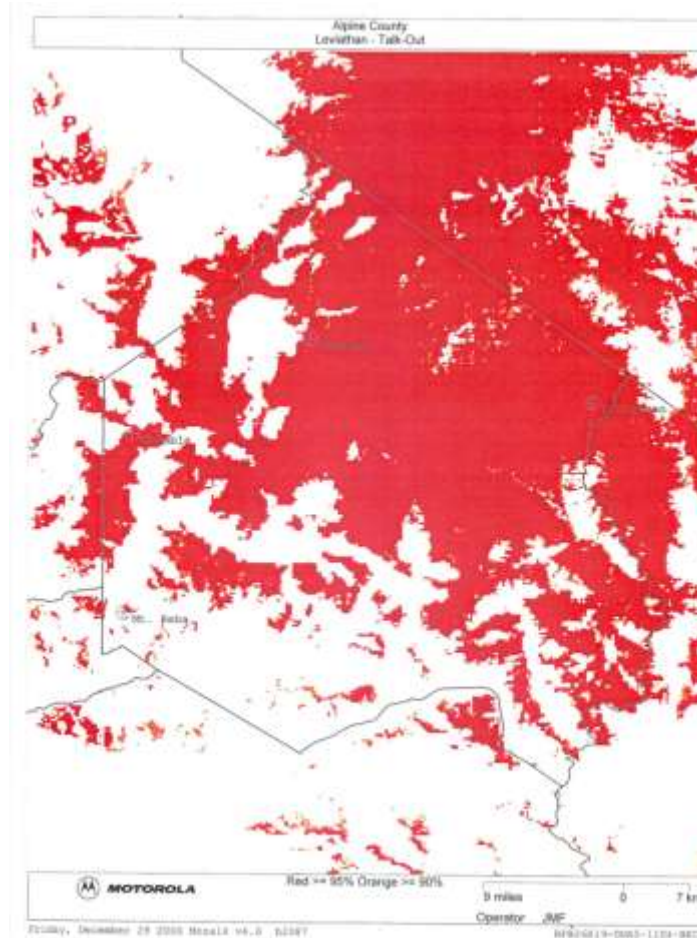
Leviathan Peak



Leviathan Peak



Leviathan Peak Radio Propagation Map



Leviathan Peak


- ▶ Existing Site constructed: Approximately 1950's
- ▶ Site currently managed by: USFS & State of California
- ▶ Coverage Area: Greater Markleeville, Woodfords & Hope Valley Areas, Carlson–Iceberg Wilderness, Hwy 88, 89, 4 Corridors to Ebbetts Pass, very limited coverage of Bear Valley and Kirkwood Areas.
 - Site is in a state of neglect and requires replacement
 - Facility is too small for equipment inside
 - Major hub site with small limited solar power

Leviathan Peak

- ▶ Other Facts:
 - Occupants: Alpine, Mono and Douglas Counties, CHP, State of California (various agencies) and USFS. Main communications site for Alpine County.
 - Use Permit: CHP current holder
 - Current maintenance responsibility:
 - Leviathan Peak Users Group (facility)
 - CHP (generator, electrical system, intermodulation issues, etc.)

Leviathan Peak

▶ CHP lease

- \$4,475,000 in progress payments ahead for site construction
 - Add commercial power to the site
 - CHP is allowed to occupy Thimble Peak and Hawkins Peak sites at no cost
 - Schedule of benchmarks and events is available to public
 - Currently conducting needs assessment to determine costs of construction
 - Funding: Paid in advance by CHP
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Questions

