

# **HPWREN Use and Impact Studies**

**2001-2004 – SMER scientists**

**2006 – First Responders**

**2007 – LIVE participants**

**2007 – HPWREN users**

## 2001-2004 – Field Scientists at Santa Margarita (37)



- 2001-2002 – Studied impact of broadband connectivity on ecological monitoring: relative advantage, compatibility, complexity
- Communication is key during the innovation development, implementation, and use stages of the network
- Although most scored low on complexity, they scored high on potential use
- 2004 – Follow-up study = no change in use

## 2006 – First Responders at Remote Posts (19)



- Survey studied use of mobile deployed HPWREN sites at Incident Command Posts
- More advantages than disadvantages (100%)
- Compatible with current technology (95%)
- Meets several technological needs of first responders in remote incident bases (94%)  
Isn't difficult to use for Internet & email (94%)

## 2007 – LIVE Pala – Palomar sample participants (10)



- Survey sampled participants of LIVE activity between Pala and Palomar Observatory
- While everyone agreed that video was good, the audio was choppy from time to time.
- All agreed there were sufficient opportunities to interact with presenter at Palomar.
- All agreed that they learned a lot from the HPWREN LIVE activity.

● Backcountry study site  
 ● Astronomy science site  
 ● Biology science site  
 ● Earth science site  
 ○ University site  
 ● Researcher localities  
 ● Native American site  
 ● First Responders site

10MHz FDS 5 GHz FCC licensed (unknown)  
 10MHz FCC 11 GHz FCC licensed (unknown)  
 10MHz FCC 5 GHz FCC licensed  
 10MHz FCC 11 GHz FCC licensed  
 10MHz FCC 5 GHz FCC licensed  
 10MHz-class HDX & SHW  
 10MHz-class HDX & SHW license except  
 10MHz HDX & SHW license except  
 10MHz HDX 2.4 GHz license except  
 10MHz HDX 2.4 GHz license except  
 10MHz HDX 2.4 GHz license except

dashed = planned

http://theopen.ut.ac.edu  
 October 2007

- Survey sampled 33 users of HPWREN
- Vital to hard-to-reach science communities - including field research, education, engineering, public safety, and the list continues.
- It is hoped by all respondents that NSF will continue its generosity in funding the network; otherwise, we must seek alternate avenues for funding in 2008-2009.

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A large satellite dish antenna is mounted on a tripod in a field. In the background, there is a crowd of people and several tents, suggesting a festival or public event. The sky is clear and blue.

[illegible]