

# GENI WiMAX COlorado Spiral 2 Year-end Project Review

Project Graphic and/or  
Photo

University of Colorado

PI: Dirk Grunwald

Staff: N/A

Students: Gary Yee (now departed)

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# Project Summary

- Standard “WiMAX with OMF”

# Milestone & QSR Status

ID	Milestone	Status	On Time?	On Wiki?	
	Full milestone text	Describe the current state of work on this milestone. What was delivered or demonstrated?			
1	Identify Outdoor Site on Campus	-Completed	Yes	- no	
2	Obtain FCC License	- Completed	Yes	- no	



# Accomplishments 1: Advancing GENI Spiral 2 Goals

- Experimental license awarded for entire EBS band
- Discussion with campus about “significant use” for campus license
  - Deploy mobile routers to campus buses
  - Services for other uses
  - Questions remain about “testbed” use
- Currently stalled waiting for facilities management to approve conduit install
- Discussion with state government on other “significant use” in other cities



## Sector Antenna

- May need to take down the phase array antenna system we currently have deployed.
- Sector Antenna – should be able to clamp to existing pole.

- Should be able to clamp to pole as well underneath sector antenna, but there are issues with connections.
  - PORTS:
    - DC power, optical cable to the IDU
    - RF cable to the sector antenna (easy enough)
  - Current pipes from attic to roof are probably too thin. Facilities Mgmt needed to install more / larger pipes.

- Patty Control Panel has Ethernet hole (ITS backhaul) and Power hole and another hole for Ethernet (to roof).
- IDU has GPS port, Optical Connector, LAN port, and an EXT I/O port.
- No place to properly mount IDU – must be installed on wall or ground.

# Lower-Attic

Closet



Open  
Space



# Lower-Attic Closet



# Upper-Attic, Top of Stairs

Patty control box



# Roof Entrance

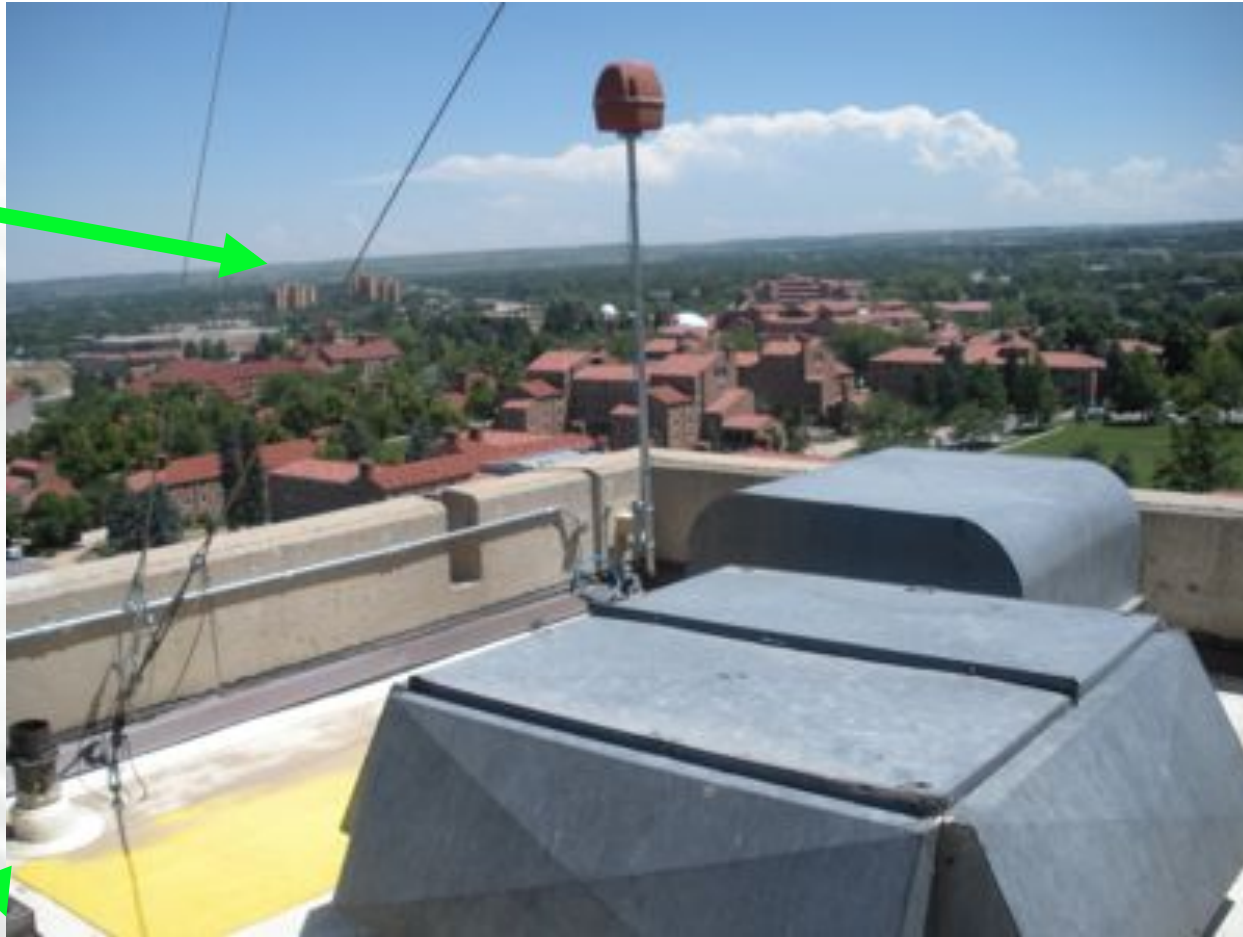


# Roof, Looking South-East

Will-Vill



Roof entrance



# Roof, looking South-West



# Roof, looking North-East



# Patty Mount



# Roof, Antenna-Tower





## Accomplishments 2: Other Project Accomplishments

- On this slide highlight additional project accomplishments that contribute to GENI's development.

- On this slide summarize any issues which cause you concern. The GPO is particularly interested in any issues which have or may affect your ability to complete the work described in your SoW/milestones. However, this is a chance to raise other issues as well.
- **Delays in installation**
  - Continued operation costs
  - Viability past May 2011

- What are your plans for the remainder of Spiral 2?
  - Try to get our FACMAN people to answer their phone....
  - Measurement study through Boulder using Anritsu portable spectrum analyzer
- The GPO is starting to formulate goals for Spiral 3. What are your thoughts regarding potential Spiral 3 work?
  - Possible deployment in remote parts of Colorado