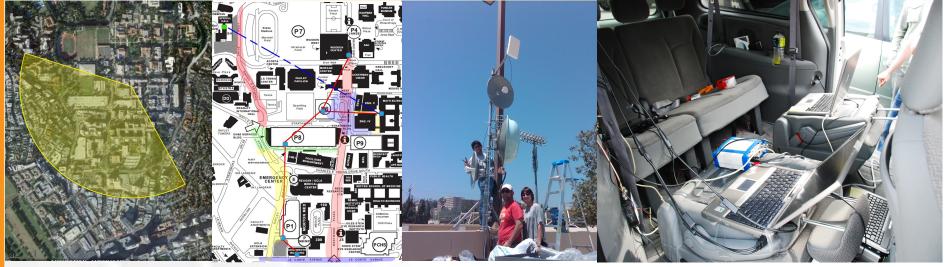# WiMax @ UCLA
Jan 2011 - Project Review

UCLA – Network Research Lab.

PIs: Mario Gerla, Giovanni Pau

Students:

Eugenio Giordano, Jorge Mena (GRADUATE)

Brian Geffon (Undergraduate)

Lara Codeca, Giulio Grassi (Visiting Undergraduate)

January 5, 2011

- ## Status as January 5th:

  - Wimax Station on **AIR.** Clients can connect to the station but we still have some stability problems on our network

  - Debugging the data path let WiMax Clients to access the Internet

  - Debugging some minor instabilities in the various configurations with the help of Rutgers.

Issues

- ## In Progress
  - Coverage Tests (Jan-Feb 11)
  - Throughput Test (Jan-Feb 11)
  - Load Tests (high # of clients) Feb 11
  - Seamless Integration with WiFi (spring 11)

- ## OPEN ISSUES:
  - CS department VLANs setup.
  - Access to Geni high speed network
  - Open Flow Installation both in Lab and on the Mesh Network.

Other Contributions

- In addition to the Spiral 2 Contributions we were able to develop few more tools that are available to the community:
  - Corner Propagation Module: allows to estimate the signal propagation in urban environments considering the presence of buildings and other obstacles. The system has been developed to work with the UCLA VEMU (vehicular network emulator) as well as with Qualnet. Is available on the Internet on our website:
    http://nrl.cs.ucla.edu/~egiordano/vergiliusJoomla/index.php?option=com_content&view=article&id=47&Itemid=55
  - VERGILIUS: A collection of tools to generate mobility traces for emulation purposes.
    http://nrl.cs.ucla.edu/~egiordano/vergiliusJoomla/index.php?option=com_content&view=article&id=47&Itemid=55

- Papers recently supported by GENI
  - Wons 2011, on Experiments with Vehicular Virtual Slices
  - Infocom 2011, on fine Time Synchronization In wireless mobile networks.