AIMS 2014 Session: Available Mobile and Wireless Testbed Research Infrastructure

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AIMS 2014 Session: Available Mobile and Wireless Testbed Research Infrastructures

• Session: Available Mobile and Wireless Testbed Research Infrastructures
• Discussion points:
  • Inventory: what exists?
  • Purpose: What are the requirements?
    • Support research!!
    • Support measurement!!
• Conclusions?
  • Lots of efforts: need coordination for the community??
NSF Research

networking, cybersecurity, Economic models, human behaviors

NIH Research

DOE Research

DOT/ITS Research

Public Safety/Homeland Security

Research Wireless Systems Infrastructure

Commercial Wireless Systems Infrastructure

Rutger's Orbit GENI/Wimax, ...

Phonelab, Sensibility testbed MITATE, ...
Rutger's Orbit

GENI/Wimax,

...
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networking, cybersecurity, Economic models, human behaviors

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Public Safety/Homeland Security

Research

GENI Testbed (geni.net)

Commercial Wireless Systems Infrastructure

Rutger’s Orbit
GENI/Wimax, ...

Phonelab, Sensibility testbed MITATE, ...
Geni Wireless directions are under discussion ….

- NSF has recommended the community conduct a Workshop
- Please see: http://groups.geni.net/geni/wiki/GEC19Agenda/GENIWirelessFuture
The goal of SciWiNet is to build wireless infrastructure that supports current and emerging wireless requirements of the academic research community.

Through benefits of scale, SciWiNet will enhance the ability of the research community to integrate 3G/4G wireless in their respective research. The project is described as follows:

- SciWiNet resells cellular data services from Sprint. More precisely, we have partnered with Arterra who brokers Mobile Virtual Network Operator (MVNO) arrangements with operators. Our current operator is Sprint, we expect to also operate with T-Mobile in 3Q 2014.
- SciWiNet is an NSF funded project (an EAGER grant) awarded to Clemson University and Rutgers University.
- SciWiNet represents a community of users that collectively provides a support system for academics whose research involves or requires cellular data services.