

Third International ICST Conference on Networks for  
Grid Applications  
“GridNets 2009”  
Athens, Greece



# Collaboration in a Wireless Grid Innovation Testbed by Virtual Consortium

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# Objectives



1. Coordinate knowledge sharing,
2. Define key parameters,
3. Dynamically connect devices, content and users,
4. Link to VT-CORNET, Virginia Tech Cognitive Radio Network Testbed,
5. Form ad hoc networks or grids of mobile and fixed devices without a dedicated server,
6. Deepen understanding of wireless grid application
7. Identify policy that may enable evaluated innovations to enter US and international markets.

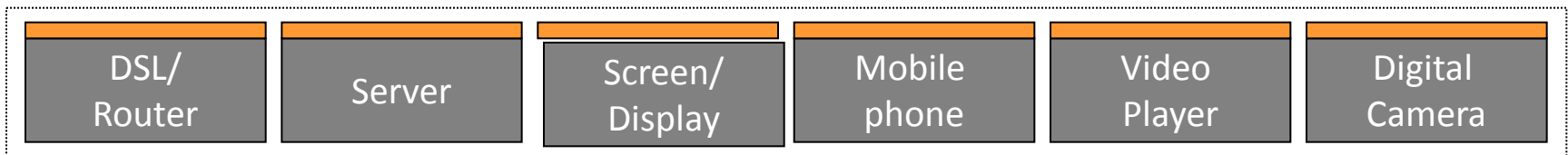
# Simplifying life



Wireless grids enables control of hardware, software & content resources, like a 'Google desktop' for your life

- Lightweight overlay
- Functions across operating systems
- Resides on separate devices, or on a router
- Sits anywhere in reach of the TCP/IP Stack
- Proprietary technology

Illustrative

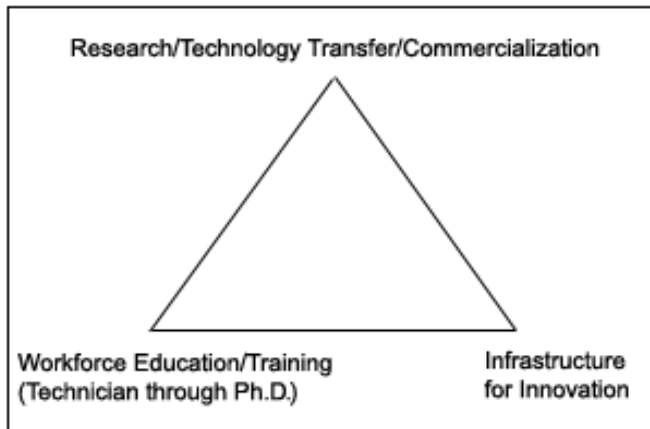


Wireless Grids Corporation

# NSF Partnerships For Innovation



- Promotes innovation by bringing together colleges and universities.
- Activities anywhere in the following space can be proposed



<http://pfi-public.qrc.com/about.cfm>

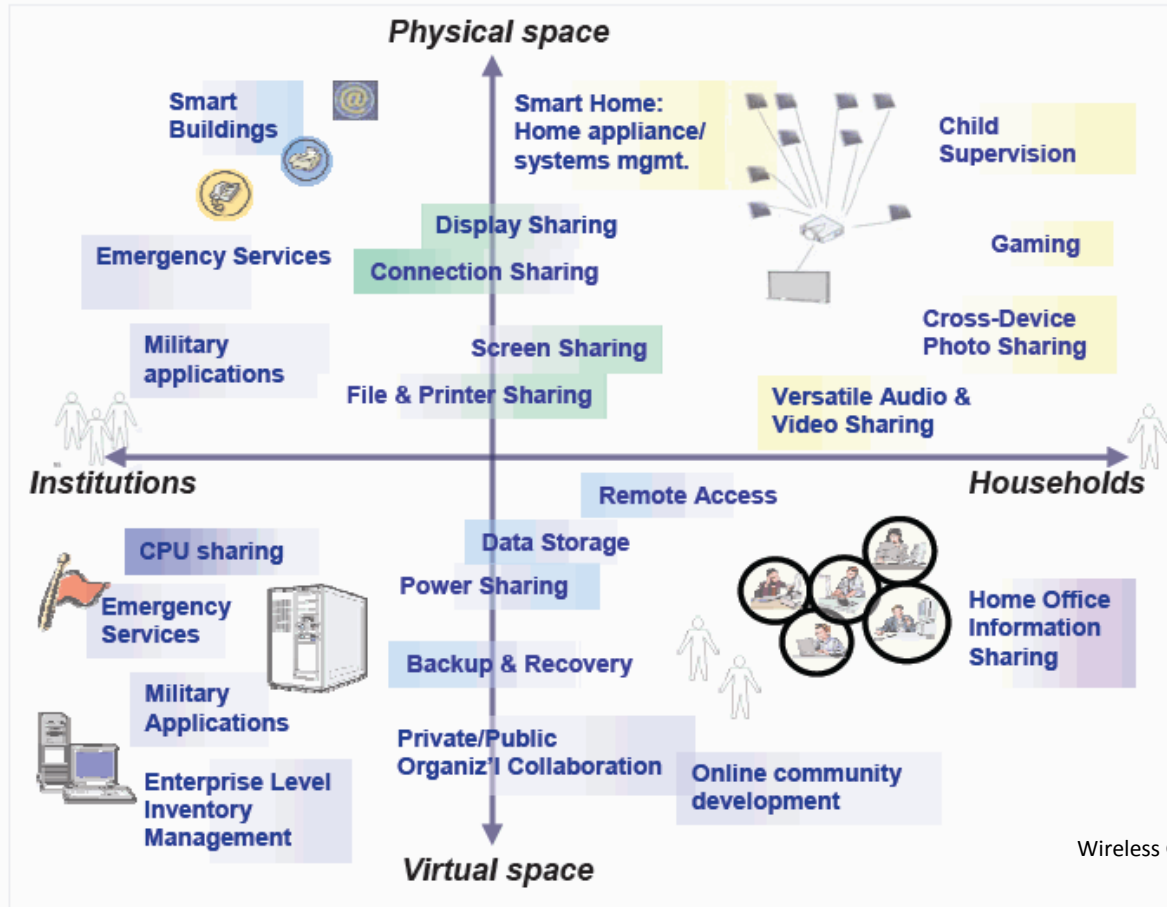
Innovation is the Goal. Partnerships are the Means.

# Accomplishments to date



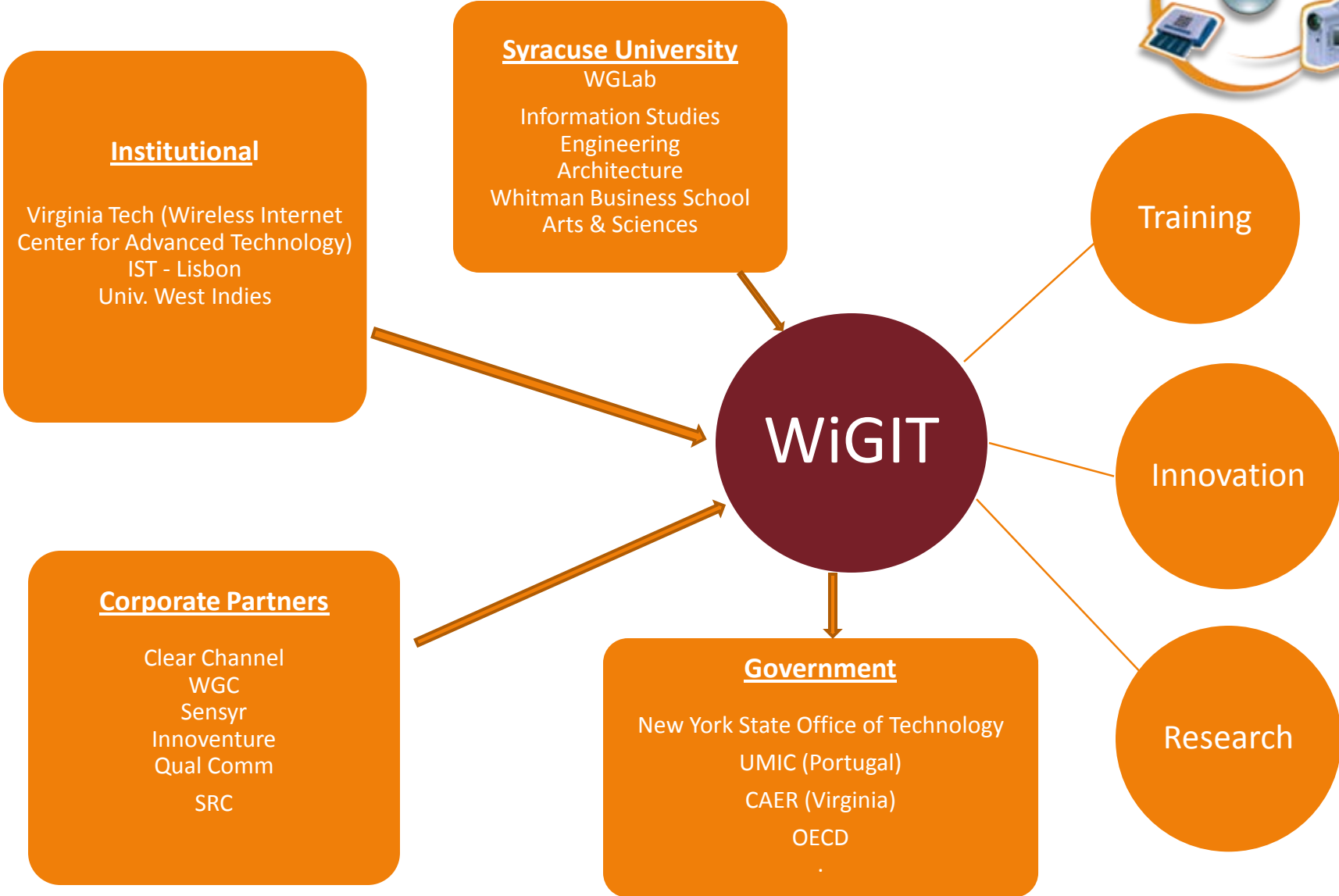
- NSF ‘Partners for Innovation’ project
  - 2002 to 2006 (PFI I); 2009 to 2011; PFI II
  - PFI I: Syracuse U., Tufts, MIT, BU, Northeastern, Museum of Science Boston, Swiss Federal Institute of Technology, BT, Cisco, France Telecom, Hitachi, Nokia, Novell
  - Results: Papers, Patents, 2 Companies
    - According to NSF Engineering Directorate: ‘A Transformative Innovation
  - PFI II: Syracuse U, Virginia Tech, MIT, Tufts, Instituto Superior Tecnico-Lisbon.
    - Objective: Standardization and Commercialization of Open Specifications for Wireless Grids

# Technology Roadmap for Wireless Grids



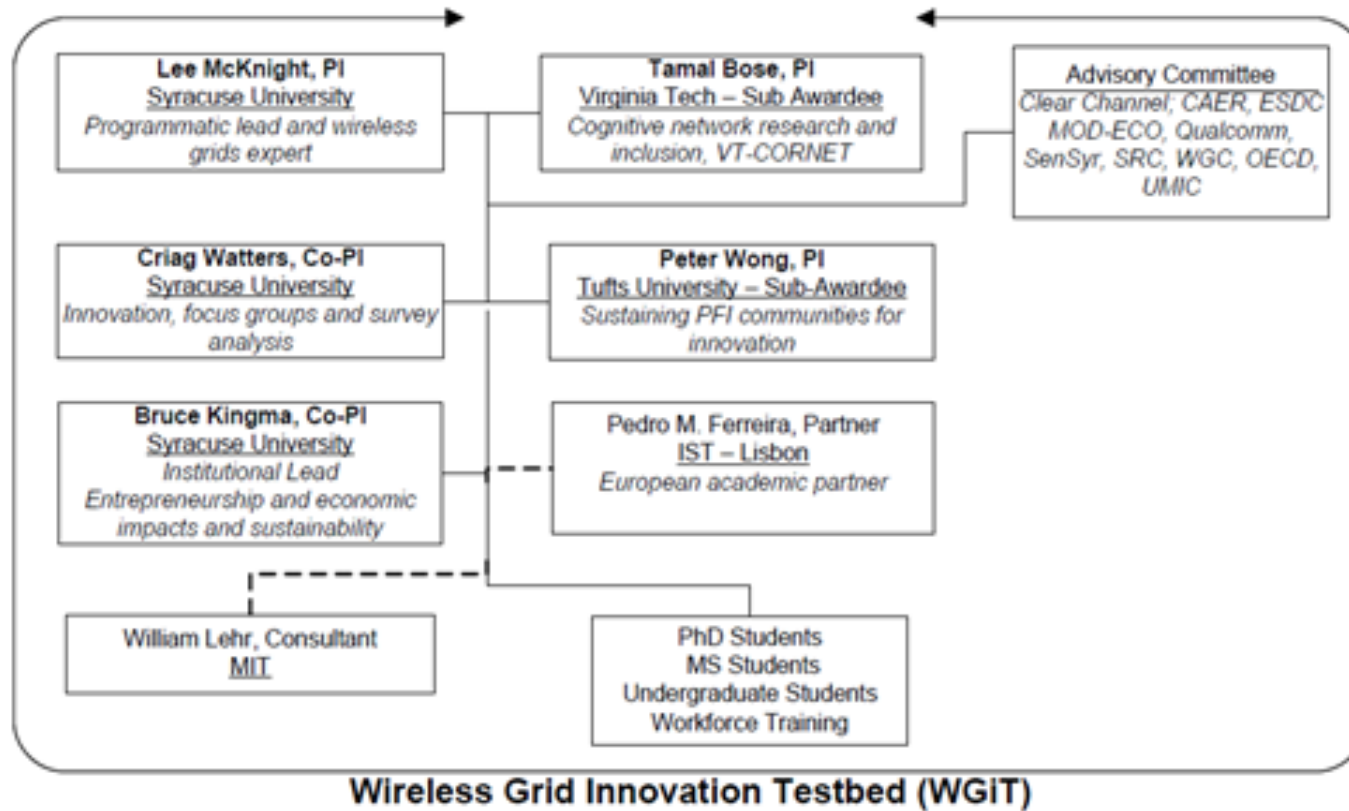


# Partners and Collaborators





# Organization/Role Diagram

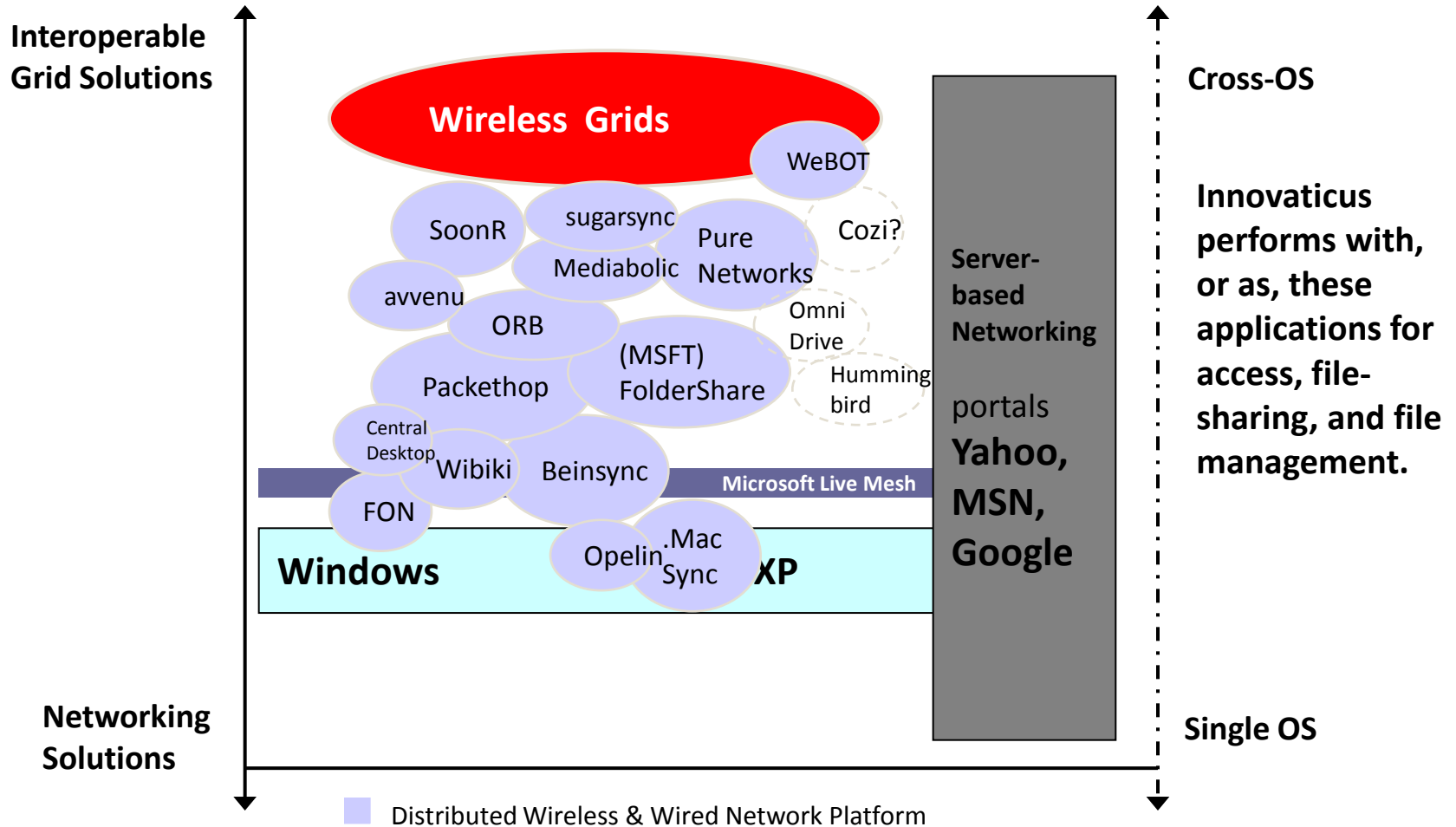


# Immediate Plans



- WgiT Timeline: Testbed Launch; Operation; Evaluation; Specification
- Coordinating Meeting of Partners and Collaborators : **Sept 18<sup>th</sup> 2009**
- Development: **Jan 2010**
- Integration : **2010 -2011**
- Evaluation – **Ongoing**
- Specifications for Standard(s): **2011 – 2012**

# Wireless Grids: the Next Key Industry Standard



# An Invitation



- Grids 2009 members all welcome!
  - Sign on as early beta testers of Innovaticus!
- Explore educational applications of wireless grids along with Syracuse University
- Participate in meeting Sept 18<sup>th</sup> 2009
  - University partners on pending NSF proposals: MIT, CMU, Virginia Tech, Tufts, Instituto Superior Tecnico-Lisbon
  - Industry partners: Intel, Qualcomm, WGC
  - Contact Prof. Lee McKnight ([lmcknigh@syr.edu](mailto:lmcknigh@syr.edu)) or Angela Rieks ([aurmanar@syr.edu](mailto:aurmanar@syr.edu))



# THANK YOU