

MAKING TECHNOLOGY ACCESSIBLE IN HIGHER EDUCATION: *IN A RURAL AREA ON A SMALL CAMPUS*

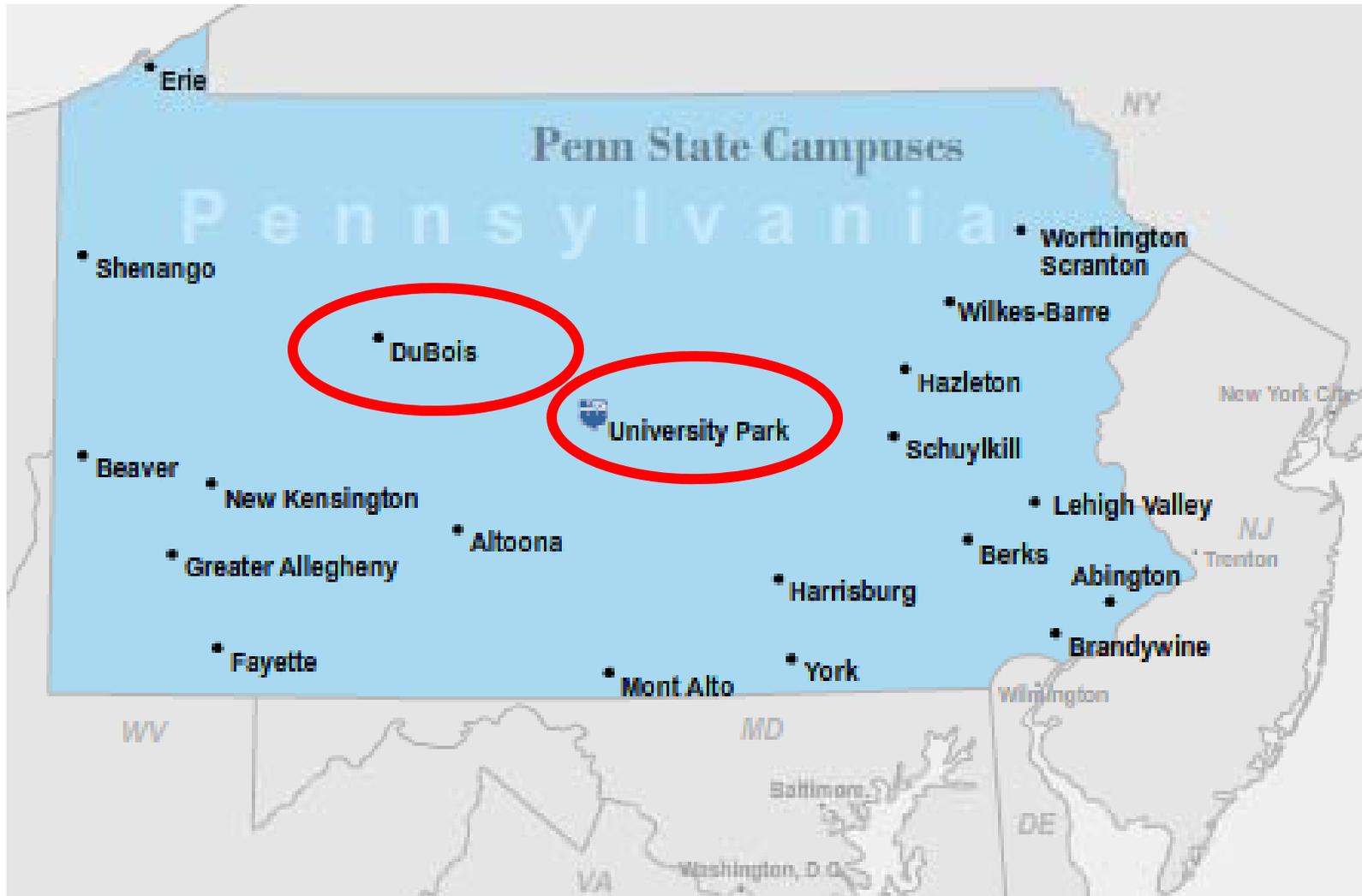
Garrett Roen
Admissions Counselor
Penn State DuBois



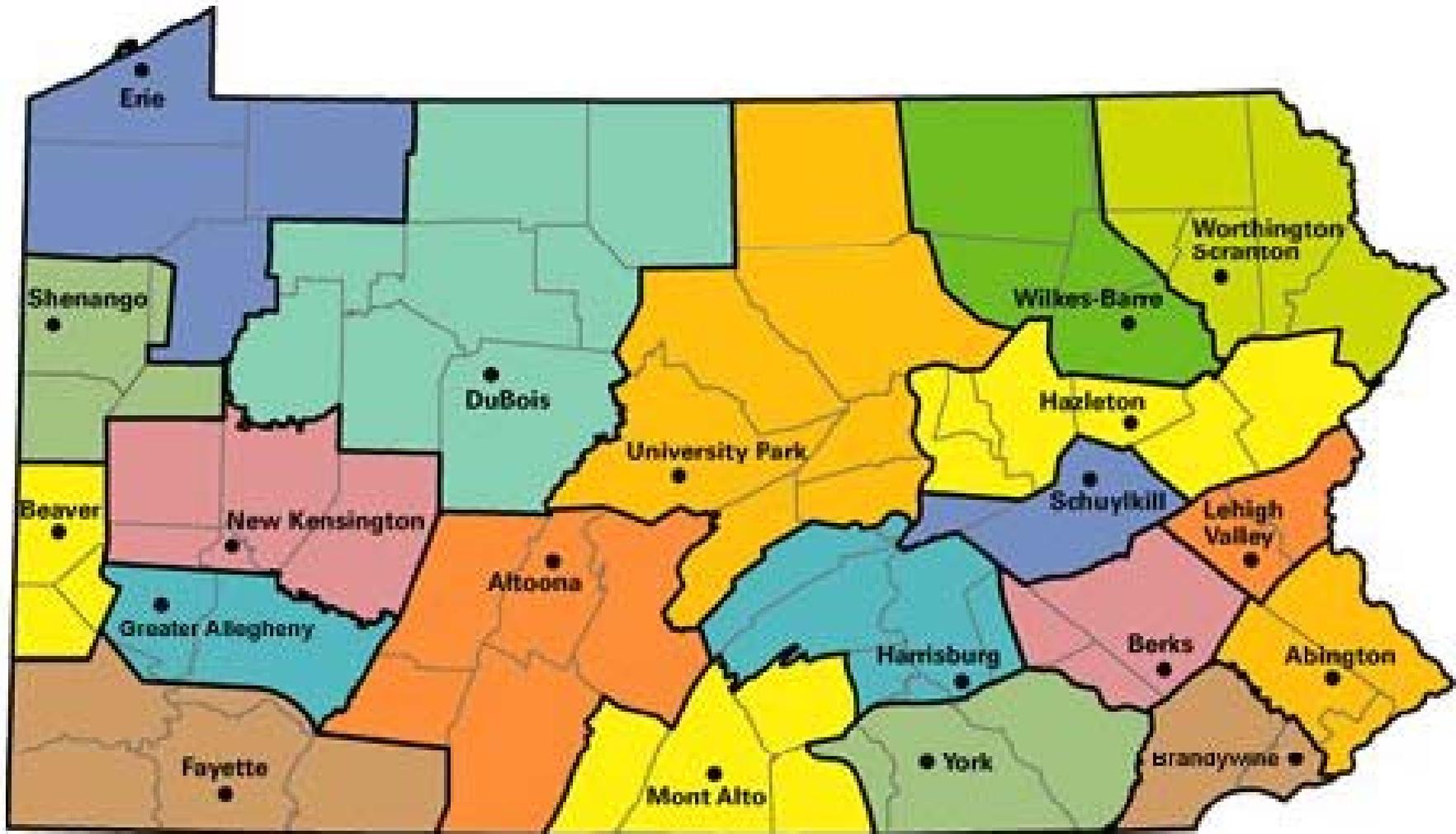
When I say Penn State...You think...



But in fact...



Service Areas



Penn State DuBois Service Area

- Larger than Connecticut
- Population of 270,296*
- Average Unemployment rate of 10.1%**



* [US Census Bureau, July 2009 Estimate](#)

** [Bureau of Labor Statistics August 2010](#)

Penn State DuBois

- 927 students for Fall 2010
- 1/3rd adult learners
- Commuter-based campus, no dorms
- Can start almost any of 160+ Baccalaureate Degrees
- Finish 6 Baccalaureate and 10 Associate Degrees

Focus on Information Science and Technology (IST) Program

- Dedicated rooms for 2-year IST student use (tear down lab, networking lab, and server room)
- Baccalaureate IST degree offered via distance education
- Video Game Day
- Wildlife Technology Program tablet PC training and support

Tear Down Lab

- Older generation computers
- Diagnostic and repair area
- “Breakable Environment”



Networking Lab

- New computers on separate network (allows more flexibility)
- Separate test area



- 4 rows, each its own network
- Each row identical

Server Racks

- Each row has 2 Dell R710 servers capable of creating virtual machines
- Multiple Cisco Routers and Switches
- All setup and maintained by students

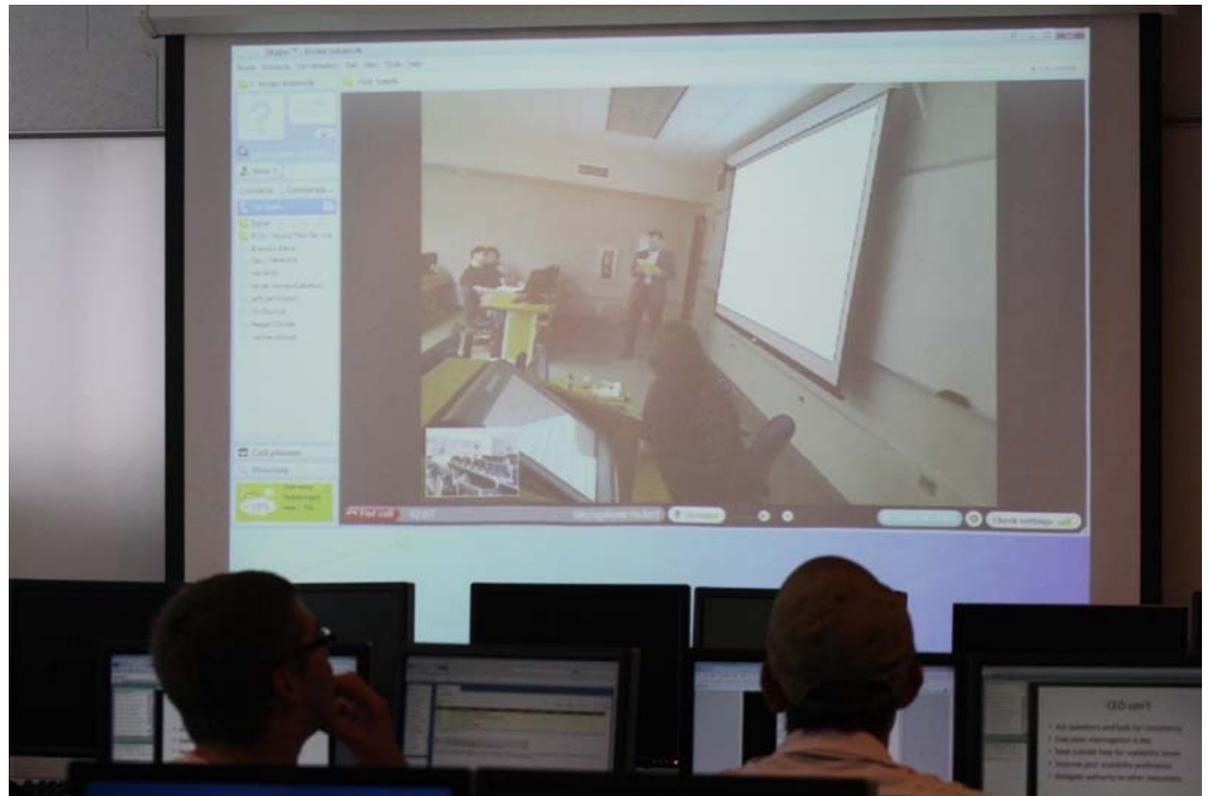


Capstone Project

- Teams of 3-5 students have their own row (ie. network) to use for entire semester
- Tasked with creating a network for a law firm using multiple operating systems, server types, and networking solutions
 - Various Operating Systems
 - 98, 2000, XP, Vista, 7, Server 2010, Mac OS X
 - Server set ups
 - Exchange, web, file, database, and more
 - Virtualization
 - Cisco command line networking
 - Access lists, firewalls, management
- Students leave with a 400+ page binder to take to interviews

IST Baccalaureate Program via Distance Education

- Partnered with Penn State New Kensington (90 miles away)
- Special room set aside for classes with webcams, surround sound speakers, and microphones
- Adobe Connect and Skype



Video Game Day

- IST student run activity; once per semester
- Attracts close to 150 students and community members
- Over 100 computers, dozens of Xbox 360s all networked together



Video Game Day



“These events serve as both a recruitment tool and an opportunity for networking students to learn about the impact of high bandwidth usage on a corporate network”

Jason Long, IST Program Coordinator

Wildlife Technology Program Tablet PC Training and Support

- 2006 Hewlett Packard Teaching with Technology Education Grant
- Wildlife students use tablets in the field to record and enter data
- IST students train wildlife students how to use them and act as “tech support” for potentially “techphobic” end users



Additional Information and Resources

- [Penn State DuBois](#)
 - [IST Program](#)
 - [WLT Program](#)
 - [Game Day](#)
- [HP TLT Grant](#)
- [Dell story](#) about IST grant



Thank you!



Garrett Roen, Admissions Counselor
814-375-4726
gbr5@psu.edu

Jason Long, IST Program Coordinator
814-372-3000
jel115@psu.edu