

Identifying Emergent Public-health Events (Cyber Infrastructure and Higher Ed)

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Higher Ed Impact on Cl

- Universities and Colleges are incubators for creation, use and development of technology
- Innovations generated from research, education and outreach lead to economic development
- Research universities and industry are becoming more closely integrated for the R&D functions



Some NC State Activities

- NCB-Prepared DHS Grant for Biosecurity
 - UNC Chapel Hill, NC State and SAS developing advanced analytic system
 - Improve situational awareness
 - Improve decision making
 - Connecting unique data sources in NC and developing use cases and scenarios
 - Providing value to owner (DPH, EMS, Hospitals) and cross datasets for all, including Dept. of Homeland Security





Some NC State Activities (cont.)

- TUCASI "TRUShare"
 - Duke, UNC Chapel Hill and NC State developing federated storage systems to share, archive and search for University generated content
- Virtual Computing Laboratory (VCL)
 - Infrastructure and Platform as a service, open source, dynamic provisioning system
 - Being adopted by many state university systems and universities throughout the world (Private Cloud)
- Google Apps for Education
 - Moved students, considering Faculty and Staff (Public Cloud)



Future Impact of CI on Higher Ed

- Transparent blending of local, private and public services – frees faculty, staff and students to focus on core activities
- Modular, Mashable, Accessible, Integrable data and services to allow creative & innovative ideas, new developments and educational activities
- Bandwidth, accessibility and computation are assumed available for most functions

