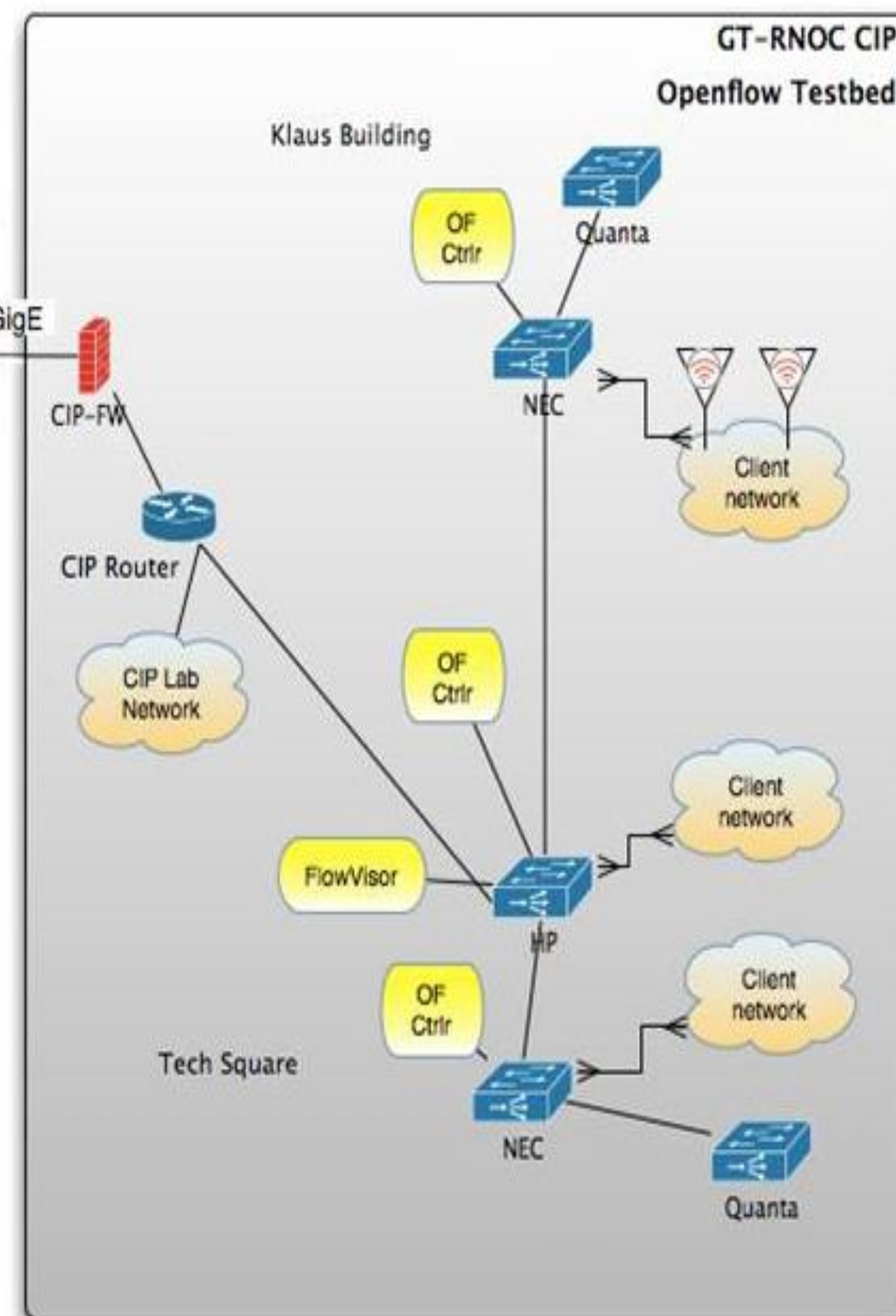


Hyojoon Kim, Ankur Nayak, Samantha Lo, Tim Upthegrove,
Nick Feamster, Russ Clark
School of Computer Science, Georgia Tech

Current OpenFlow Deployment



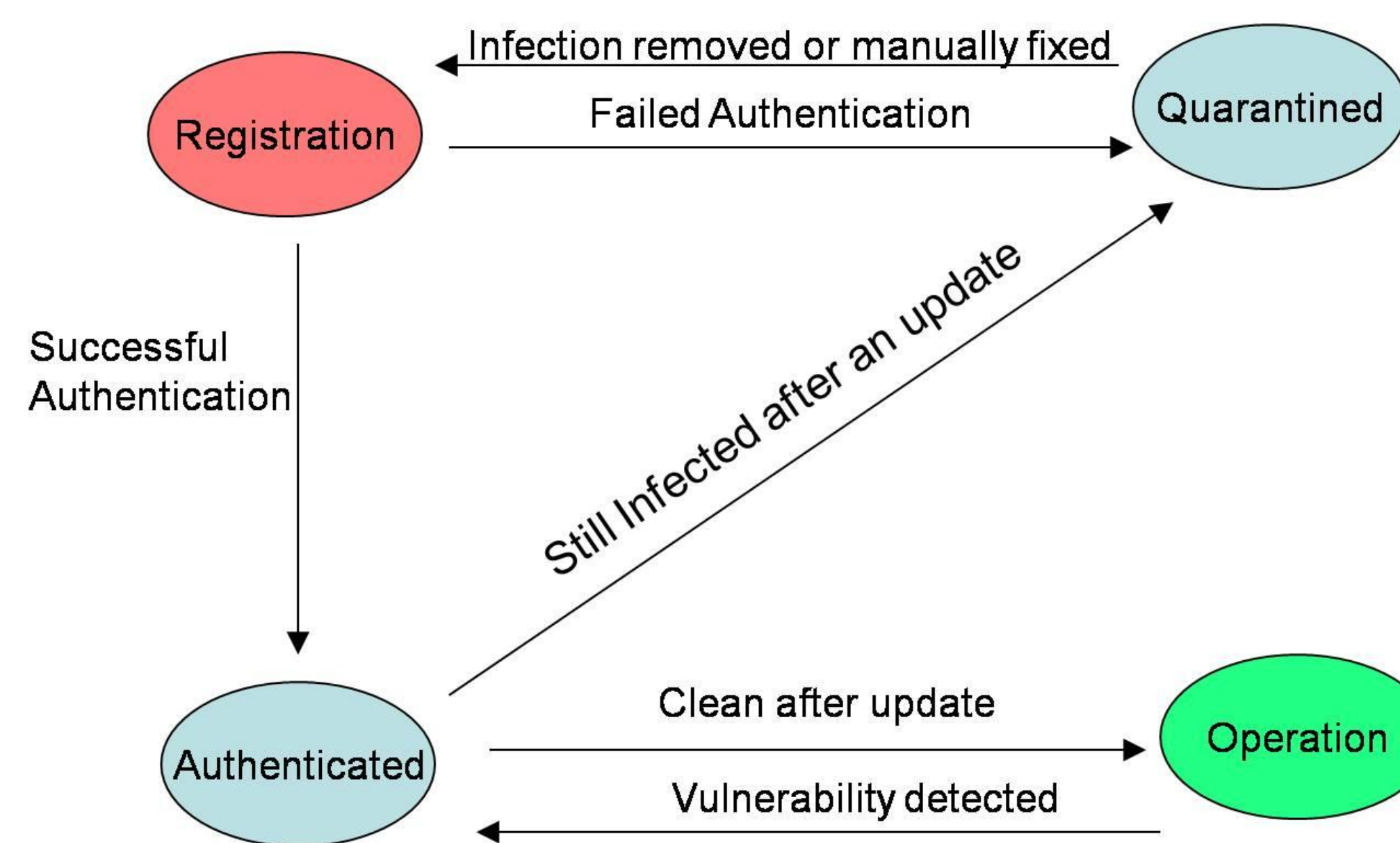
- Multiple buildings and labs
- Testing with switches from multiple vendors
 - NEC, Toroki, HP
- Wired and wireless access networks

Flagship Project: Resonance

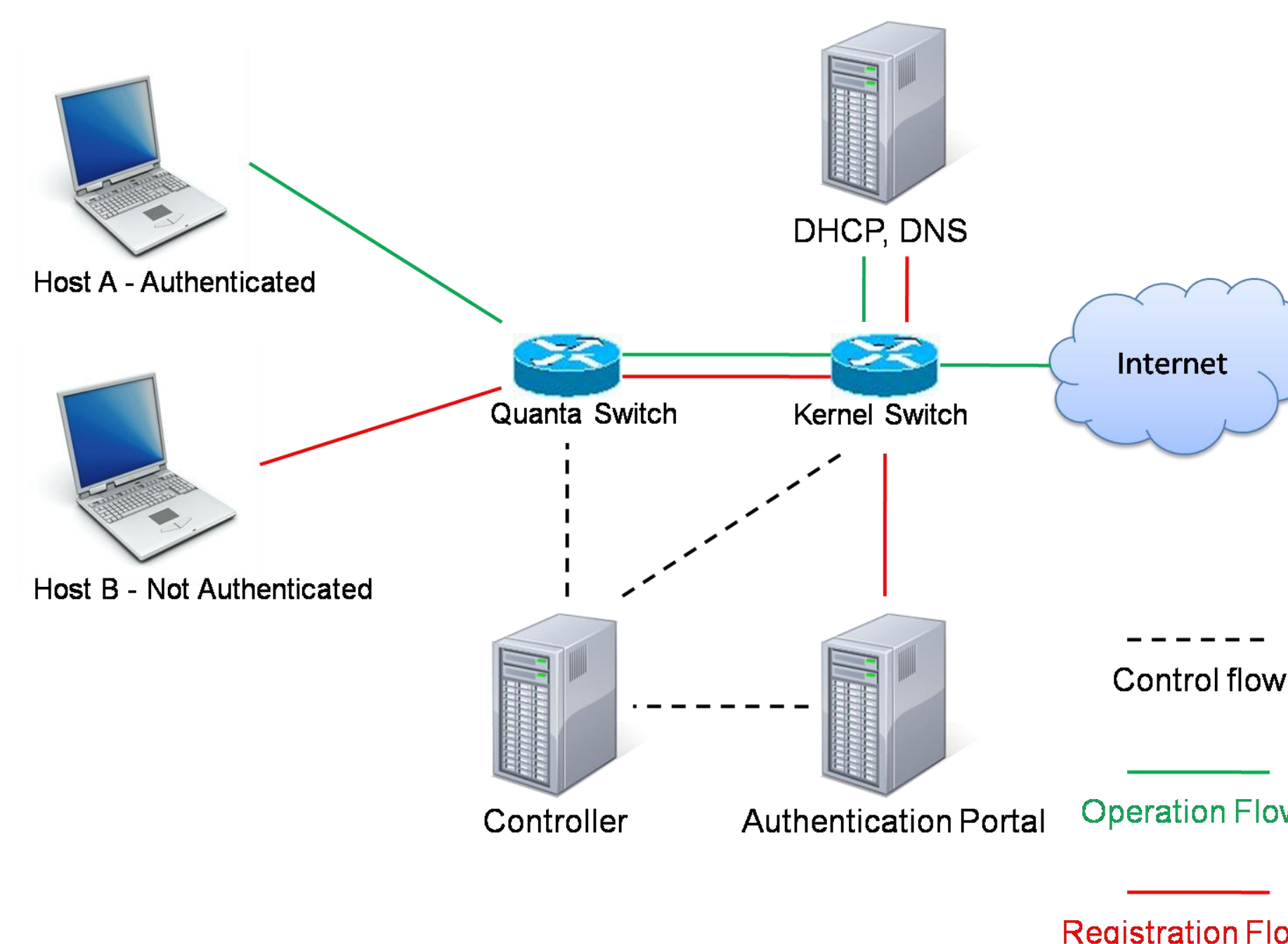
OpenFlow-based Network Access Control

- **Current approach:** coarse-grained, requires VLANs
- **Resonance:** flexible, dynamic, supports complex policies
- **Currently running on the campus**

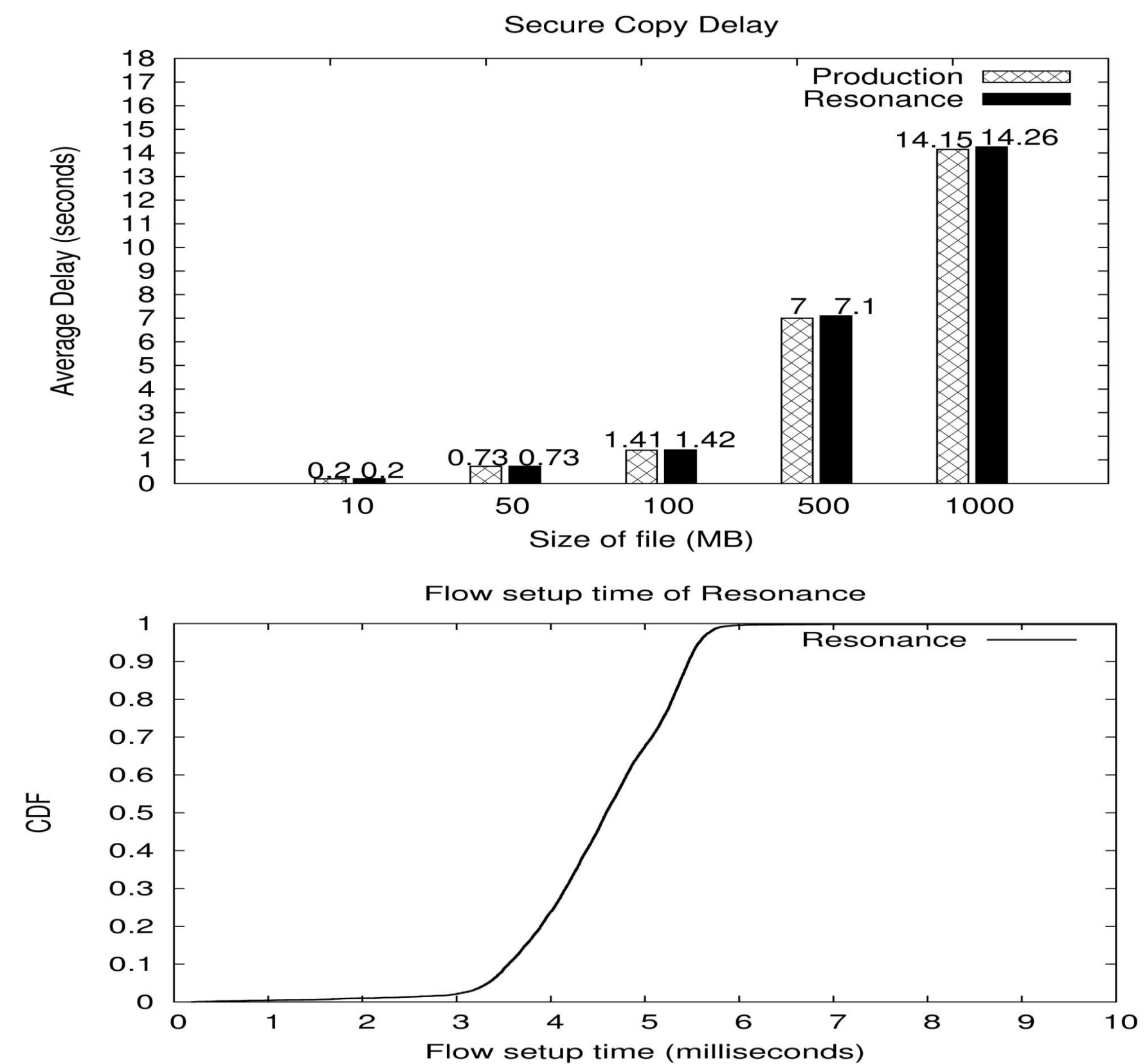
Applying Resonance



Demo Setup



Preliminary Evaluation



Next Steps

- More widespread deployment (e.g., more research labs, wireless network, dormitories)
- Other evaluation experiments
 - Scalability of controller
 - Security
 - Fault tolerance
- Slicing to support multiple experiments

Other OpenFlow Projects

- Distributed Intrusion Detection
- VoIP QoS
- IP/Interactive Television
- Various class projects in new graduate seminar