



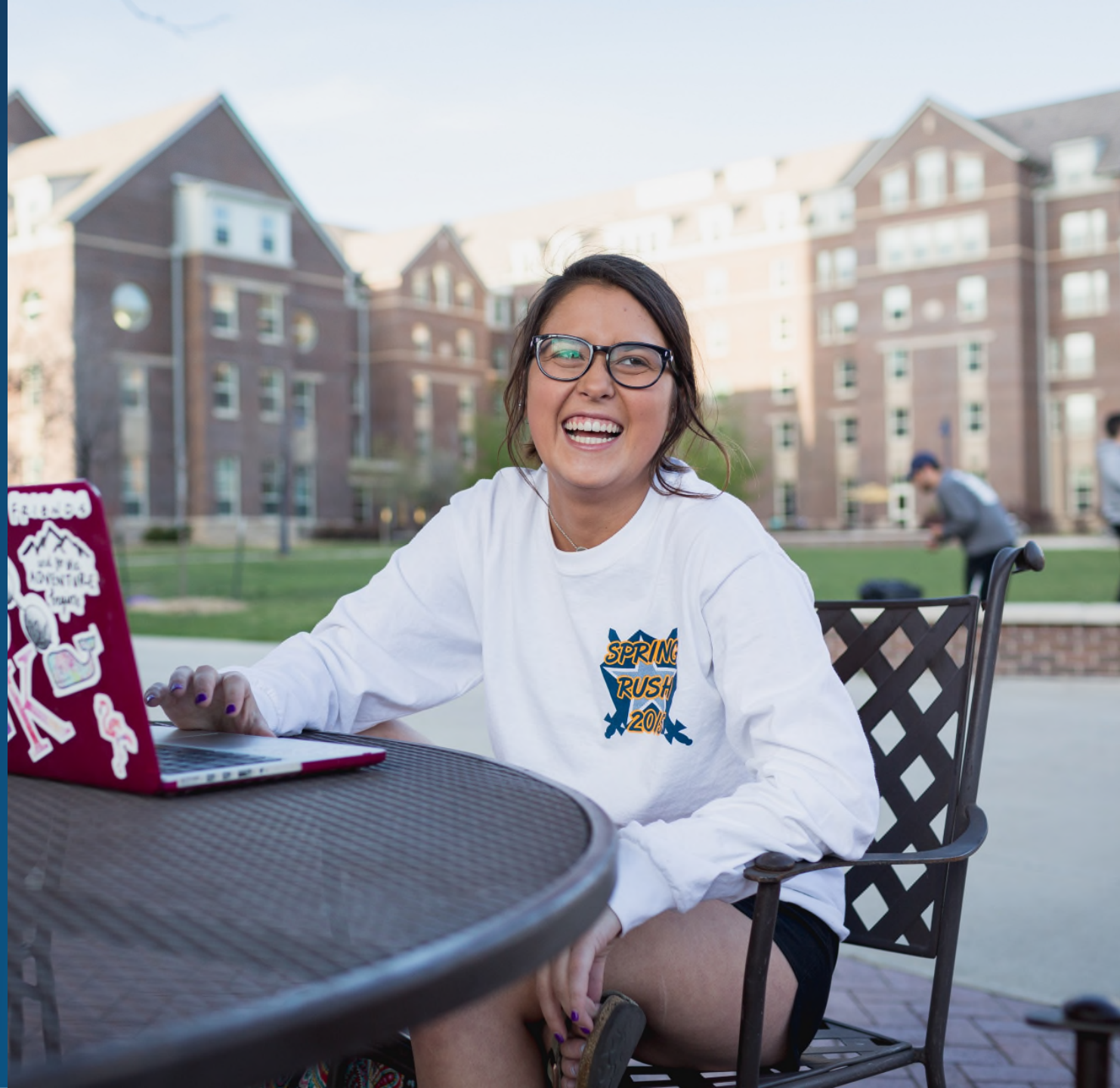
# Wireless First

**Joint Technology Committee  
December 11, 2023**

Phillip Wyperd, AVP for IM&T & CIO  
Matthew Langford, CISO  
Jazmin Martinez, Student Trustee  
Julia Martin, Junior Class Senator

# The Student Experience

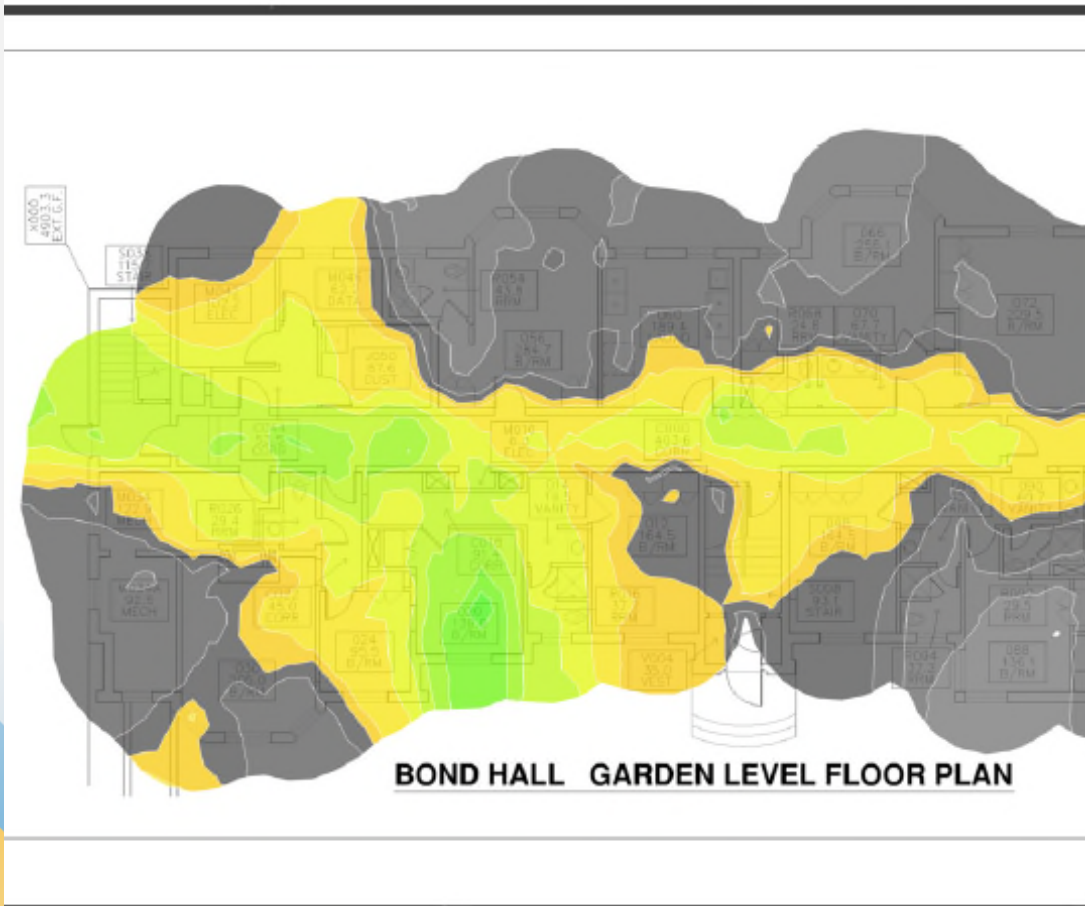
- ▶ Obsolete architecture
  - ▶ Focus from wired to wireless
  - ▶ Port-per-Room for Resident halls
- ▶ Improve Student Success
  - ▶ Increase student retention
  - ▶ Improve resident hall occupancy



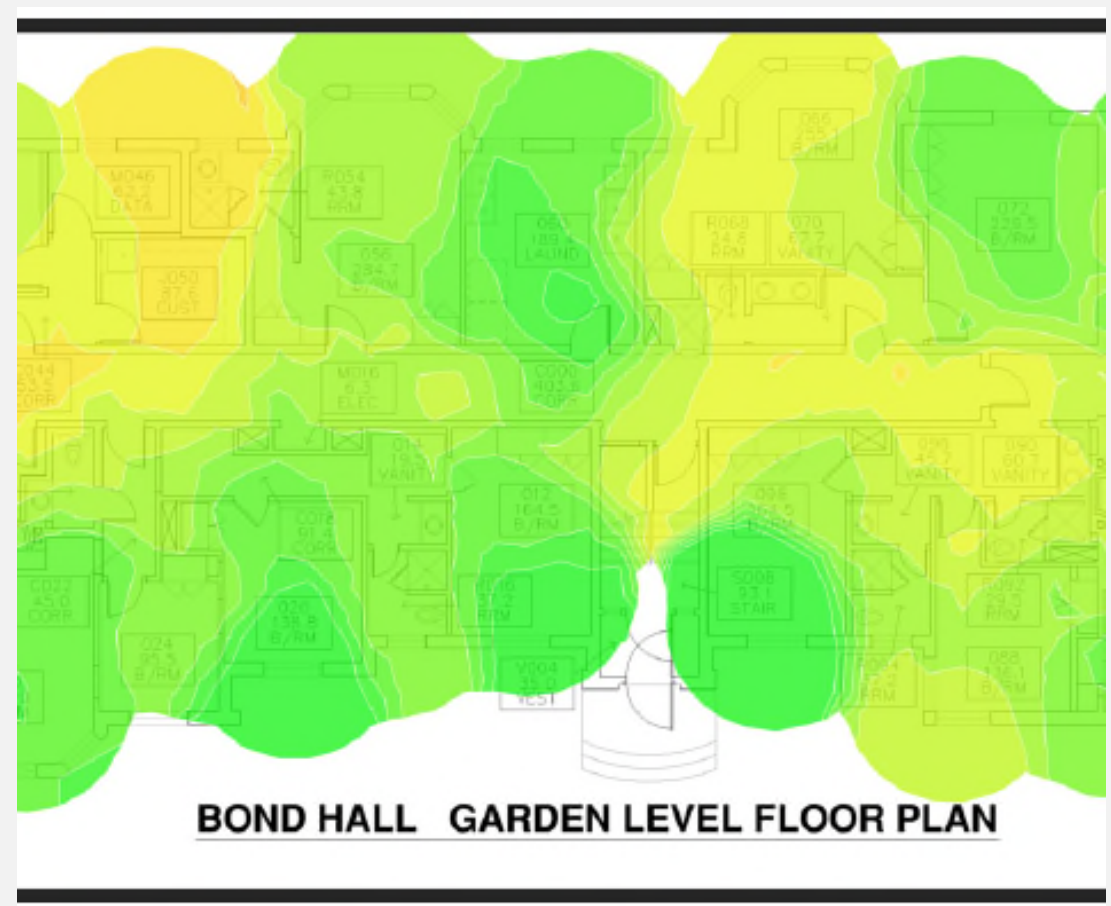


# Student Experience

**BEFORE**



**AFTER**





## Business Process Analysis

- ▶ Student Surveys
  - ▶ 60.2% dissatisfaction in Residence Hall WiFi
- ▶ Ekahau site surveys
  - ▶ ~1 million sq ft
- ▶ Data Driven decisions
  - ▶ Right-sizing lab footprint
  - ▶ Invest in check-out laptop fleet
  - ▶ Reduction in printers
  - ▶ Softphone pilot
- ▶ Vendor analysis
  - ▶ WiFi 6/6e
  - ▶ Hospitality model



# Tech Debt

- Modernize our WiFi architecture for ~ 1 million sq ft
- Replace aging edge switches
- Reduce wired connections
- Reduce physical phones







## ▶ Security

- ▶ WiFi 6 enhanced security protocols (WPA3)

## ▶ Disaster Recovery

- ▶ Current switches are becoming end-of-life and starting to fail

## ▶ Life Safety

- ▶ Gaps in cellular coverage



**Thank You!**

**Questions?**