



Big Data Collaboration Leads to Big Impact: Driving Innovation Through University-Industry Strategic Partnerships

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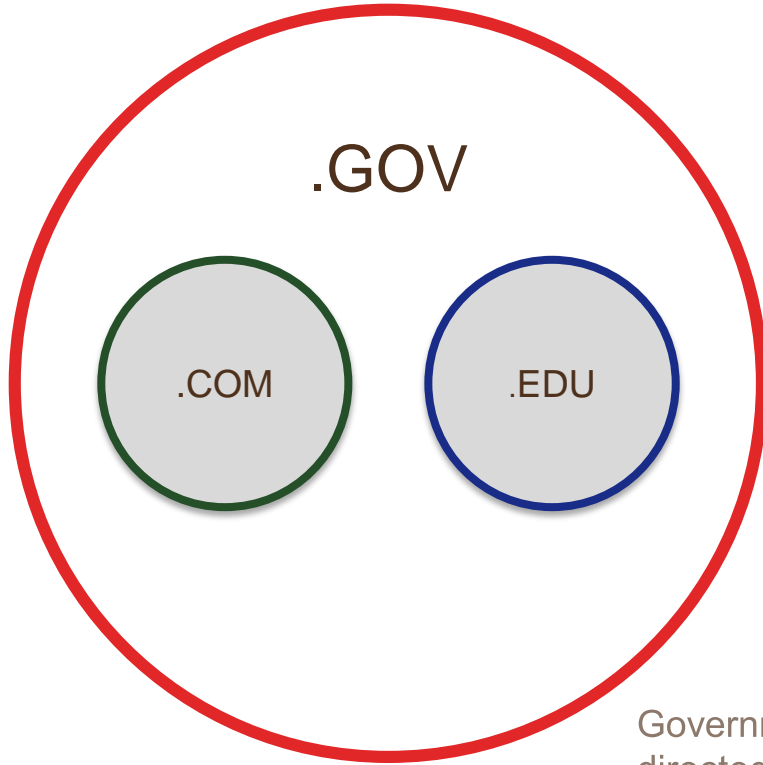


About Lehigh University



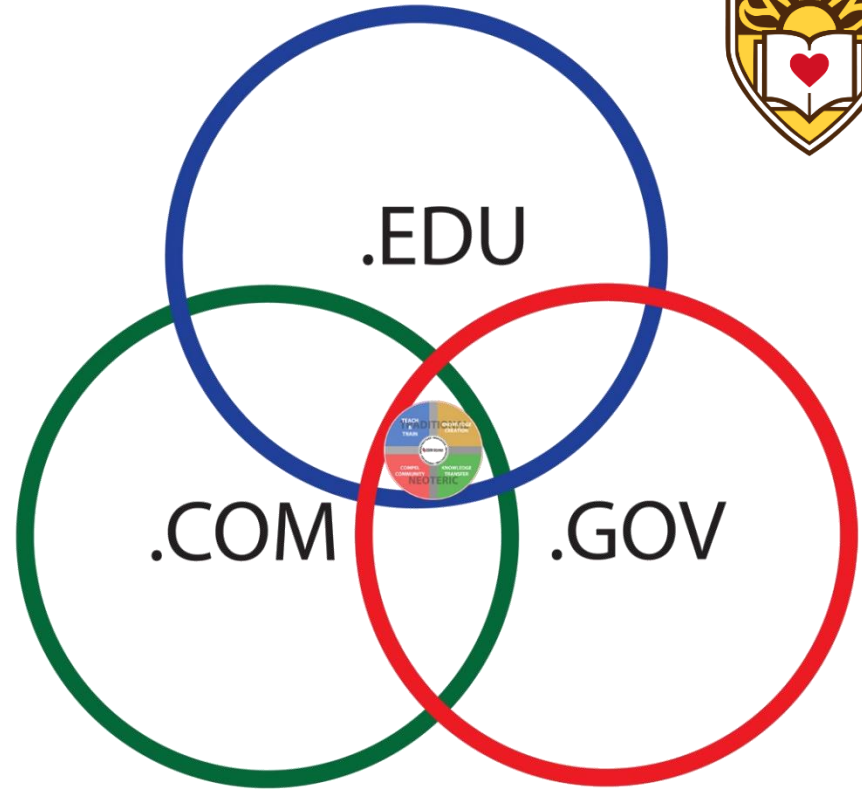
- Founded in 1865
- 7000 students
- 4 Colleges
- 2500 acres
- Heart of Boston-DC corridor
- Interdisciplinary Nature
- History of Industry Collaboration
- Theory to Practice

Relational Theories



National Model

Government
directed
relationships

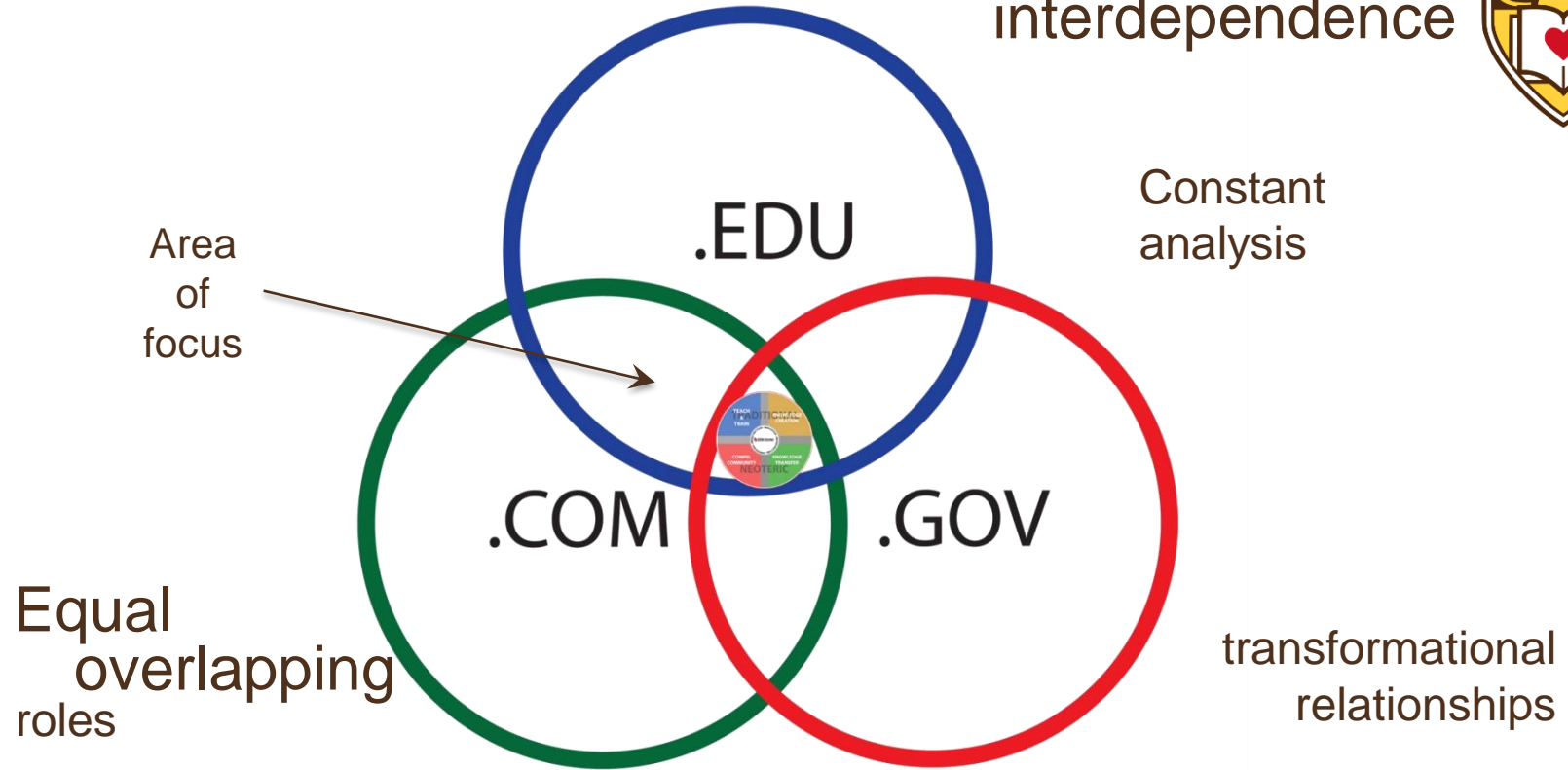


Triple Helix Model

(Etzkowitz & Leyesdorff, 2000, p.111)

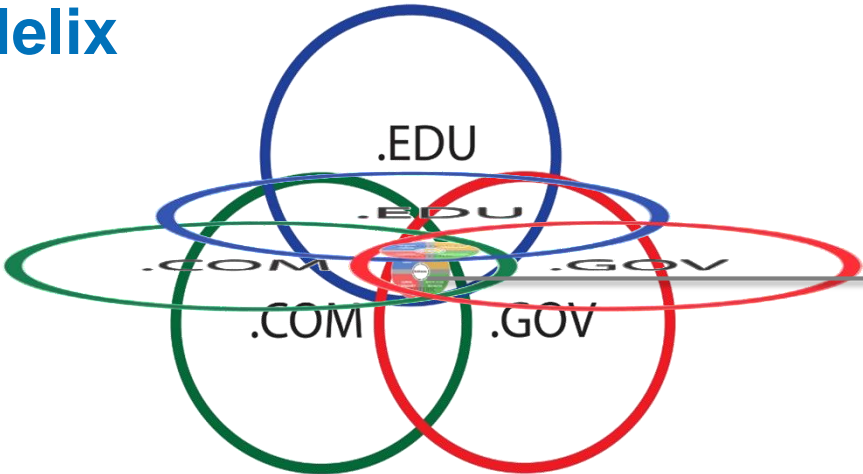
“Triple Helix”

areas
of
interdependence



(Etzkowitz & Leyesdorff, 2000, p.111)

Layered Triple Helix

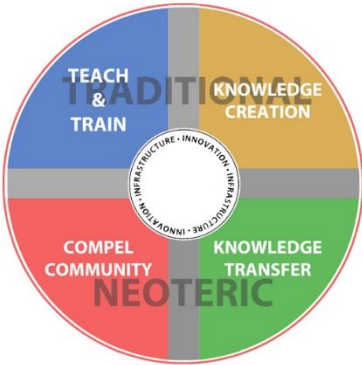


National/Global Layer

State/Regional Layer

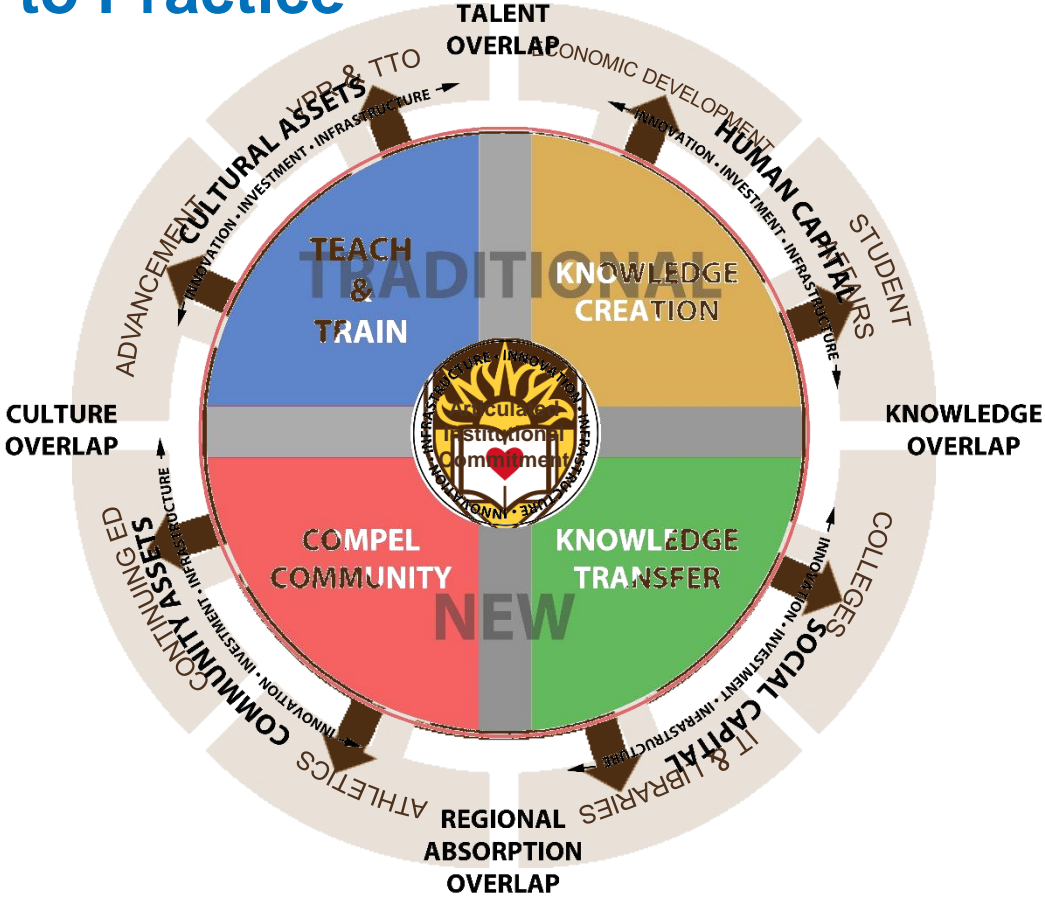
Local/University Layer

Innovation
Pipeline



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From Theory to Practice



**note: these are representative entry points, not all of the possible*

Organizational Models or “Why Lehigh?”



Aligned Organizational Approach



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Case Study:ZO

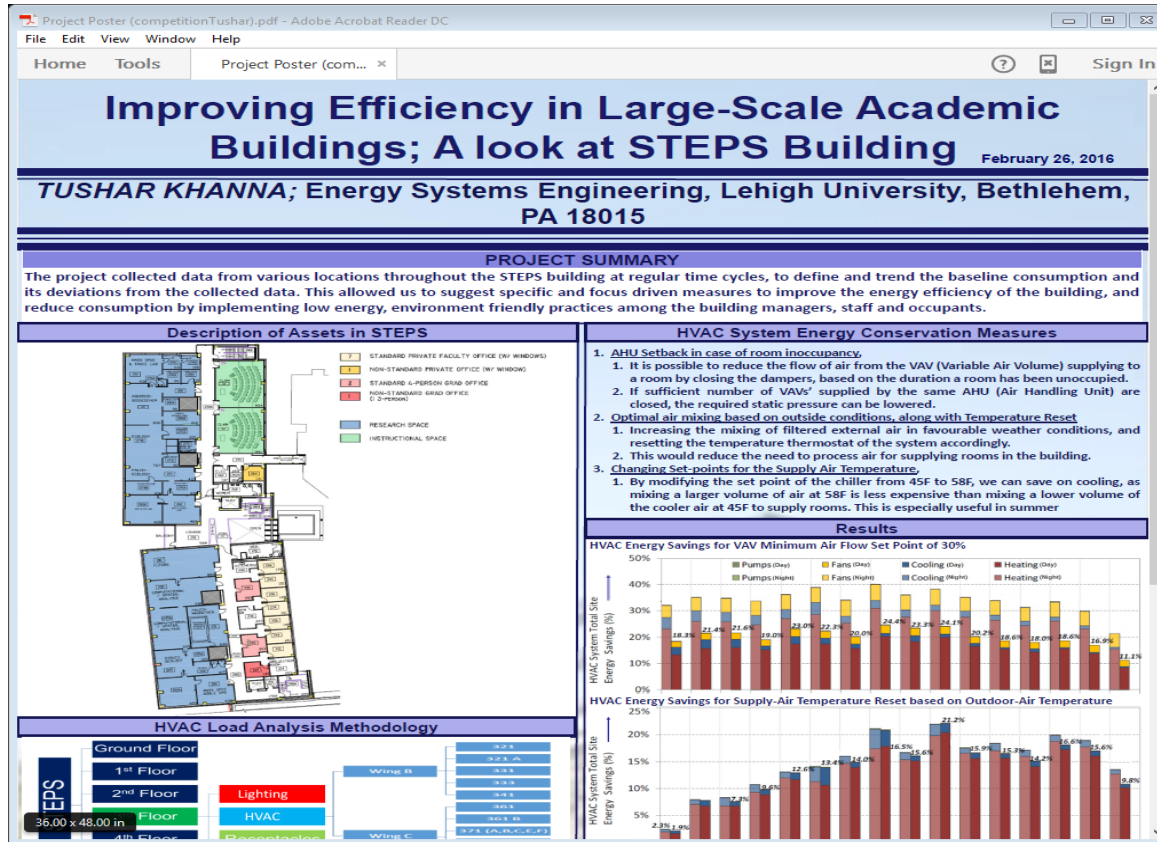


Data X Initiative at Lehigh

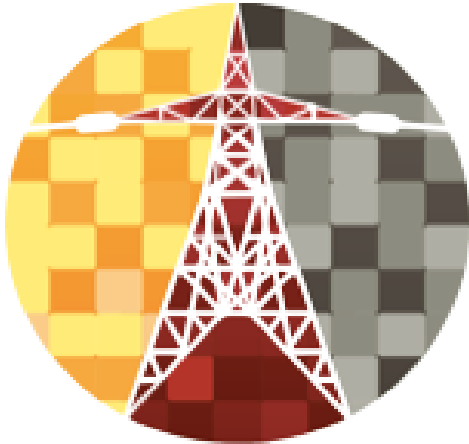


- A strategic initiative to drive computer and data science curriculum and research across disciplines at Lehigh
- A major investment in faculty and IT infrastructure

Energy Management Student Project powered by PI



DoE Center on Cybersecurity for Energy Delivery Systems



- \$12.5M grant from Department of Energy across 5 universities (LU, U. Ark, U. Ark-LR, CMU, FIU) and one company (AECC).
- Lehigh Integrated Networks for Electricity (INE) Cluster
- Large industrial advisory board ([OSISoft](#), MISO, SPP, Lockhead, PPL, PJM, PECO/Exelon, SEL, Fisher Block, and many others).

Renewable Integration

Real-time monitoring

Energy efficiency

More consumer engagement

Improved grid security

Looking Forward – Smart Campus



Metrics For Success

