Fall 2013 Update to Faculty Senate

Daniel P. Huttenlocher
Dean and Vice Provost
Overarching Goal

• Create the preeminent grad campus focused on the digital disciplines and information age
  – Emphasizing an entrepreneurial mindset
  – Blending technical depth with creative and business thinking
  – Creating a staging ground for digital technologies that change the ways we live
  – Drawing on New York’s strengths and helping address its needs – an urban laboratory, at scale
Our Approach

• Rethink graduate education and research for an information rather than industrial age
  – Role of disciplines, pedagogy, faculty profiles, masters education, institutional alliances

• Redraw the lines between academia and industry for more effective engagement
  – Technology commercialization/licensing, on-campus collaboration, educational roles, technology maturation paths
Academic Partnership

• Jacobs Technion-Cornell Innovation Institute a key component of the campus
  – Focused on interdisciplinary “hubs” or application domains
  – 50/50 collaboration of Cornell and Techion, similar structure to Broad Institute of Harvard and MIT

• Dual Technion and Cornell degrees planned in three domain areas
  – Connective Media, Healthier Life, Built Environment
Digital Disciplines and “Hub” Domains

Cornell NYC Tech

Jacobs Technion-Cornell Innovation Institute (JTCII)

Cornell degrees in business, computing, engineering disciplines

Technion-Cornell dual degrees domains of media, health and built environment
JOHNSON SCHOOL

COMPUTER SCIENCE
ELECTRICAL & COMPUTER ENGR
INFORMATION SCIENCE
OPERATIONS RESEARCH

CONNECTIVE MEDIA
Art and Design
Communications
Sociology
Psychology

TRANSPORTATION
City and Regional Planning

HEALTHIER LIFE
Health Sciences
Human Ecology
Biomedical Engineering

BUILT ENVIRONMENT
Architecture
Civil and Environmental Engineering
Design and Environmental Analysis

MECHANICAL ENGINEERING
Advanced Materials
Statistics
Where We Are – Timeline

- **Dec 2011**: Move into Google building
- **Jul 2012**: Announce Cornell CS MEng
- **Oct 2012**: Start CS Meng “beta” semester with 7 students, 4 resident faculty
- **Jan 2013**: Start first fall semester with ~30 students (1/3 PhD), 9 resident faculty
- **Jul 2013**: Announce Johnson MBA for tech sector (14-15)
- **Aug 2013**: Announce new Connective Media Technion-Cornell degree (14-15)
- **Oct 2013**: Move to Roosevelt Island campus, 30+ resident faculty, 300+ students
- **Fall 2017**: Ultimately 200+ faculty and 2000+ students
Flat organizational structure, no departments

Flexible common areas
Many meeting rooms and work spaces

Open plan space, no private offices
About the Faculty

- Next term 8 Cornell and 2 Technion faculty
  - 3 faculty in Jacobs Technion-Cornell Innovation Inst.
- Cornell faculty tenure is in existing departments and schools which now span both campuses
  - Approach developed with input from CAPP in early 2011 before proposal submitted to NYC
  - Same tenure standards, but spanning three areas: research, teaching (masters rather than ugrad), and external engagement
About the Masters Programs

• Blend of technical, business and creative skills, with entrepreneurial mindset

• Team projects
  – Company project with mentor and faculty advisor
  – Startup project with early stage investors, customers

• Get students out of “comfort zone”
  – Pitches, presentations, critiques, portfolio for technical students
  – (Product teams for business students)
Doctoral Studies

• Unlike masters, no separate PhD programs from Cornell’s main campus in Ithaca
  – Students whose advisor is at Cornell Tech will generally be located at the NYC campus
  – Students spend some time in Ithaca, e.g., if courses they require are not available at Cornell Tech

• PhD students encouraged to participate in practical and business courses, active external engagement
Open Studio Day

• Share and celebrate accomplishments of each semester, with network of outside organizations
  – Engagement, presentation, portfolio
Discussion/Q&A