My Background

- Engineering research and education
- Innovation and academic-industry partnerships
- Startup investment
- Research and development
VCRED and RF President

- **Vice Chancellor for Research and Economic Development (VCRED)**
  - Research
  - Economic development
  - Graduate research education

- **Research Foundation (RF) President**
  - Research and development administration
  - Operational excellence
  - Financial management
Collaborations with Many Stakeholders

- SUNY
  - Faculty and students
  - Board of Trustees
  - System Administration
  - Vice Presidents for Research (VPRs)
  - Campus leadership teams
- SUNY Research Foundation (RF)
- New York State funding agencies
- Federal funding agencies
- Industries
- Non-profit organizations
Compelling Needs to Address Societal Challenges

More complex research questions that require multidisciplinary, multi-stakeholder, and multi-institutional research
Some Trends of Academic Institutions

- SUNY Excels goal: SUNY impact on state and global challenges
- Multidisciplinary and multi-institution research institutes
- Regional network of universities
- On-site academic-industry partnerships
Deep Meshing of Digital World and Machines

- How will we do research?
- What research will we do?

Source: Industrial Internet: Pushing Boundaries of Minds and Machines, GE.
Importance of Humans
Research in social behavioral sciences, economy, policy, art and humanities becomes ever important.
Evolving Academic-Industry Partnership Models

**Large Corporate Research Labs**
- In-house R&D

**Open Innovation**
- Licensing of technologies
- Funding projects and centers
- Acquisitions of startups
- Mostly tactical partnerships

**“Collaborative Innovation”**
- New platforms to seek ideas
- Co-located research parks/centers
- Both tactical and strategic partnerships
- Attracting talents

Time
More complex research questions
More connected world
Many stakeholders
Initial Goals

- Catalyze research collaborations
- Identify new research opportunities
- Stimulate innovative and entrepreneurial thinking
- Provide dynamic and energetic graduate education
- Communicate our research and economic development efforts with the public
Seeking Your Input

- What large-scale opportunities—that align with our research strengths—might we pursue?
- What are the major challenges facing graduate education?
- How might we increase sponsored program activities in comprehensive and technology colleges?
- How might we cultivate entrepreneurial thinking among our students?