



SUNY Research and Economic Development

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Vice Chancellor for Research and Economic Development

University Faculty Senate

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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



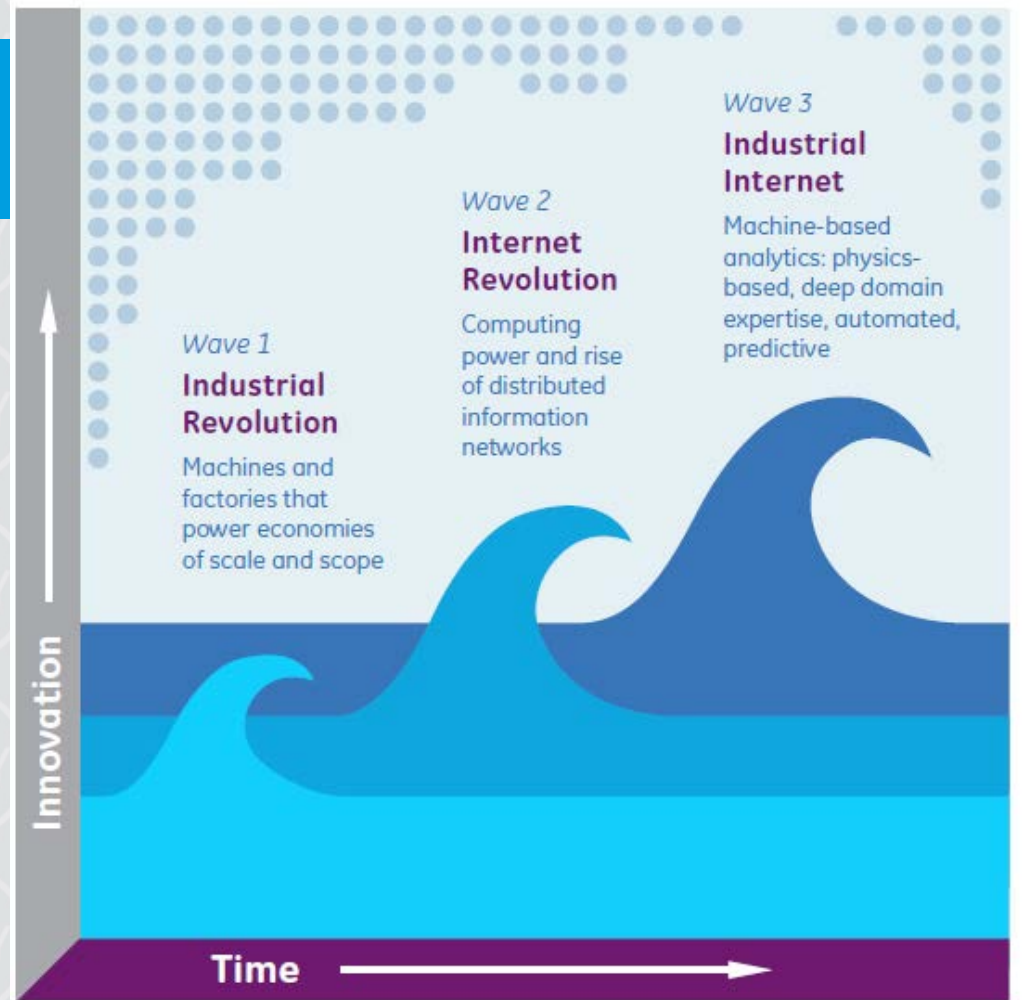
Some Trends of Academic Institutions

- **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**

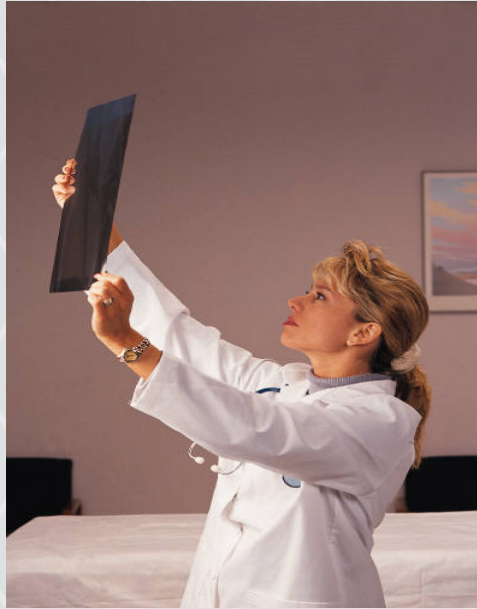
Deep Meshing of Digital World and Machines

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

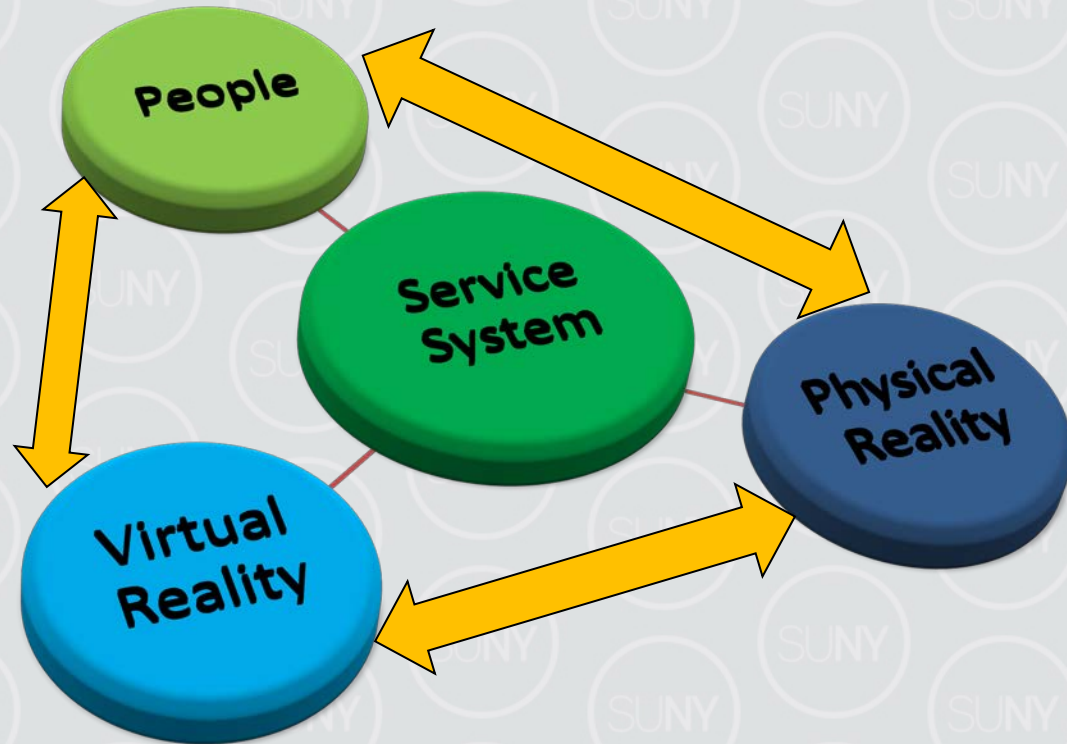
Source: Industrial Internet: Pushing Boundaries of Minds and Machines, GE.



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

Open Innovation

“Collaborative Innovation”

Time



- In-house R&D

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

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

Context

- **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?

