global
impact

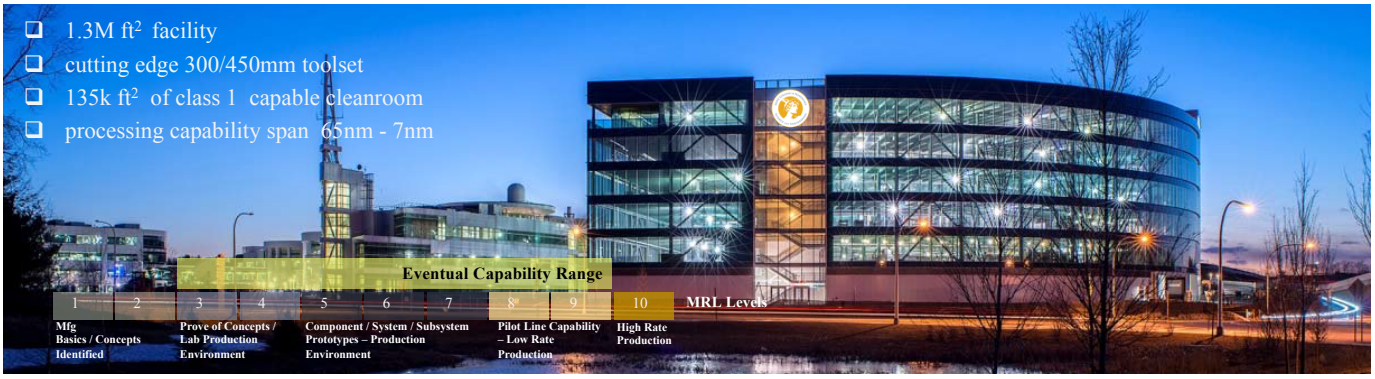
Integrated Photonics Institute
for Manufacturing Innovation

Vision

Establish a technology, business and education framework for industry, government and academia to accelerate the transition of integrated photonic solutions from innovation to manufacturing-ready deployment in systems spanning commercial and defense applications

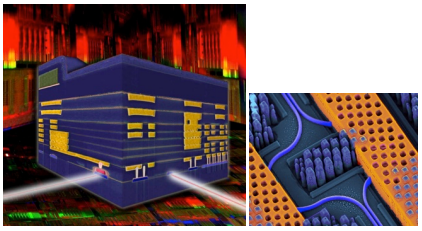
Mission

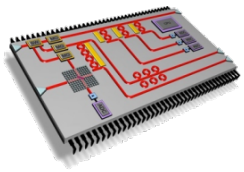
Seek to advance integrated photonic circuit manufacturing technology development while simultaneously providing access to state-of-the-art fabrication, packaging, and testing capabilities for small-to-medium enterprises, academia and the government; create an adaptive integrated photonic circuit workforce capable of meeting industry needs and thus further increasing domestic competitiveness; and meet participating commercial, defense and civilian agency needs in this burgeoning technology area



SUNY POLYTECHNIC INSTITUTE

- years of proven silicon photonics results – multiple DARPA & Industry projects
- 300mm tools provide unprecedented quality photonics
- partnerships drive continuous revitalization investments





Integrated Photonics…

… is about data and sensing

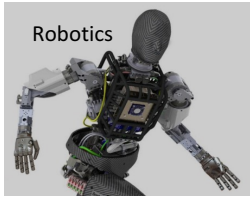
You can pack more information on to a light pipeline than to an electric cable, and this at a much lower power consumption

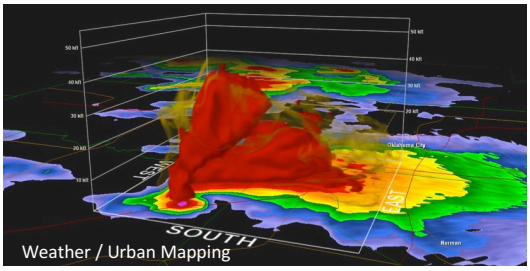
Nature has given us a lucky coincidence: the fingerprint of atoms, molecules and chemical bonds correspond to the colors of light, and light can travel through space to reflect and be read off objects

Photonic enabled sensing provides pathways to disruptive industry, environmental, and bio / medical solutions

Point-of-use molecular diagnostics, enabling on-sight diagnosis and treatment decisions

Industry and environmental applications





AIM photonics Academy

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www.aimphotonics.com