

Texas Nanofabrication Facility (TNF)

How can an NSF-funded nanotechnology program help lead and nucleate the broader national nanotechnology infrastructure ecosystem?



Microelectronics Research Center
THE UNIVERSITY OF TEXAS AT AUSTIN



NASCENT



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Computation

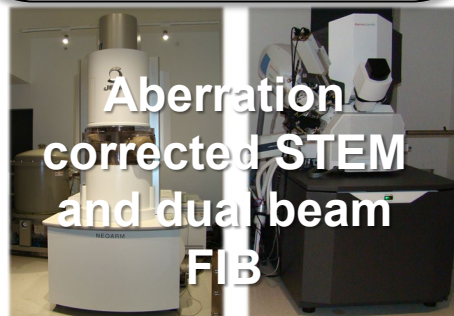
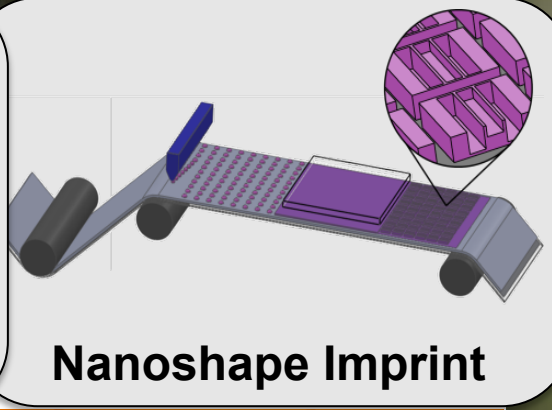
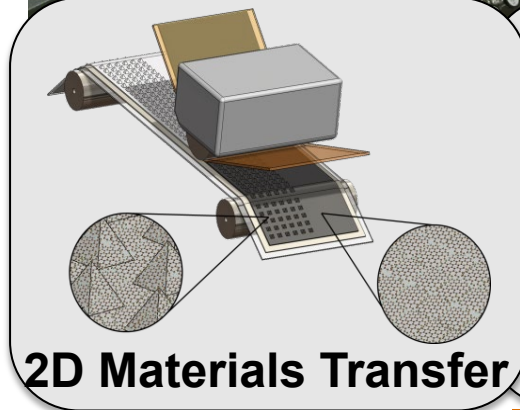
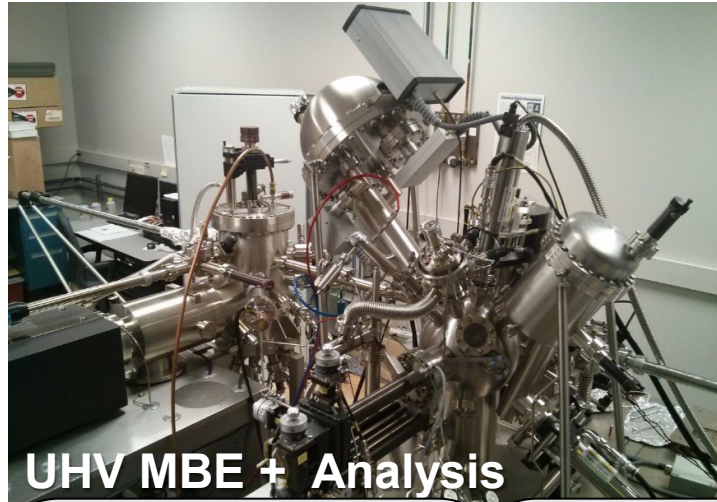


A. Quinonez
ACC

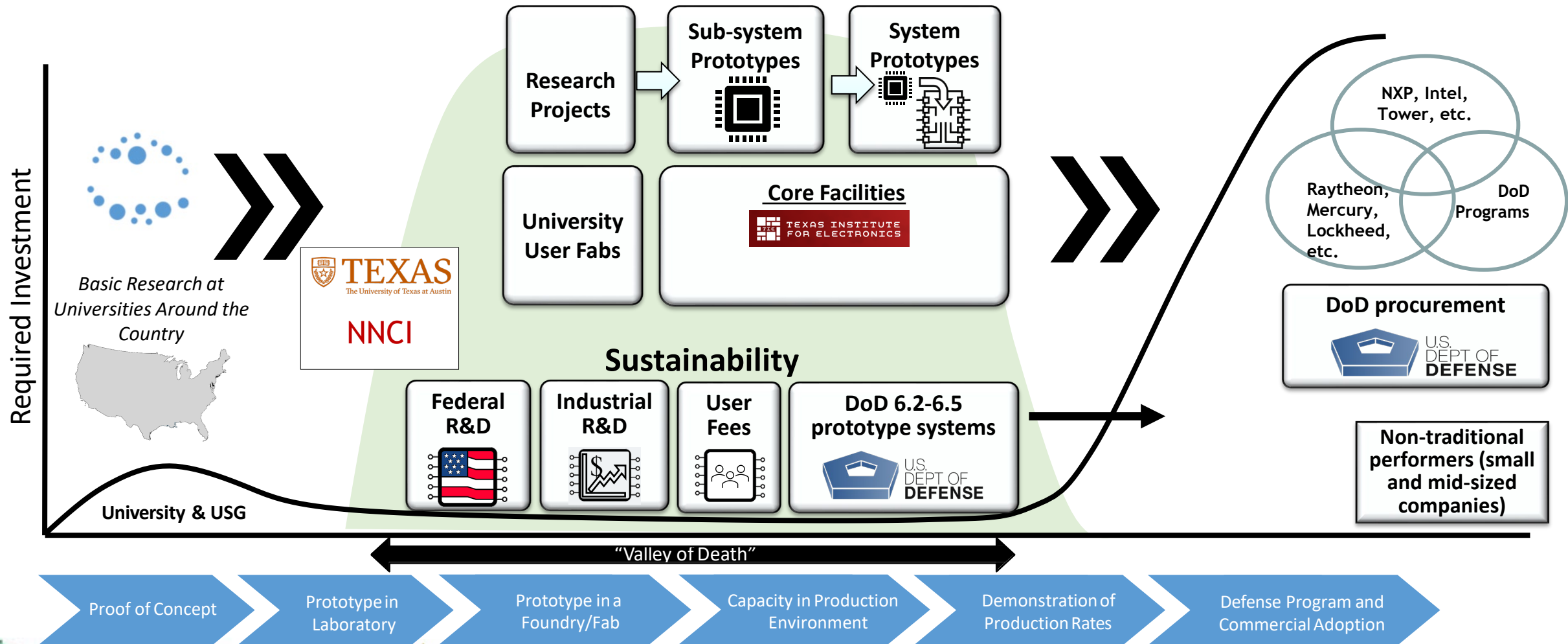


TNF Resources

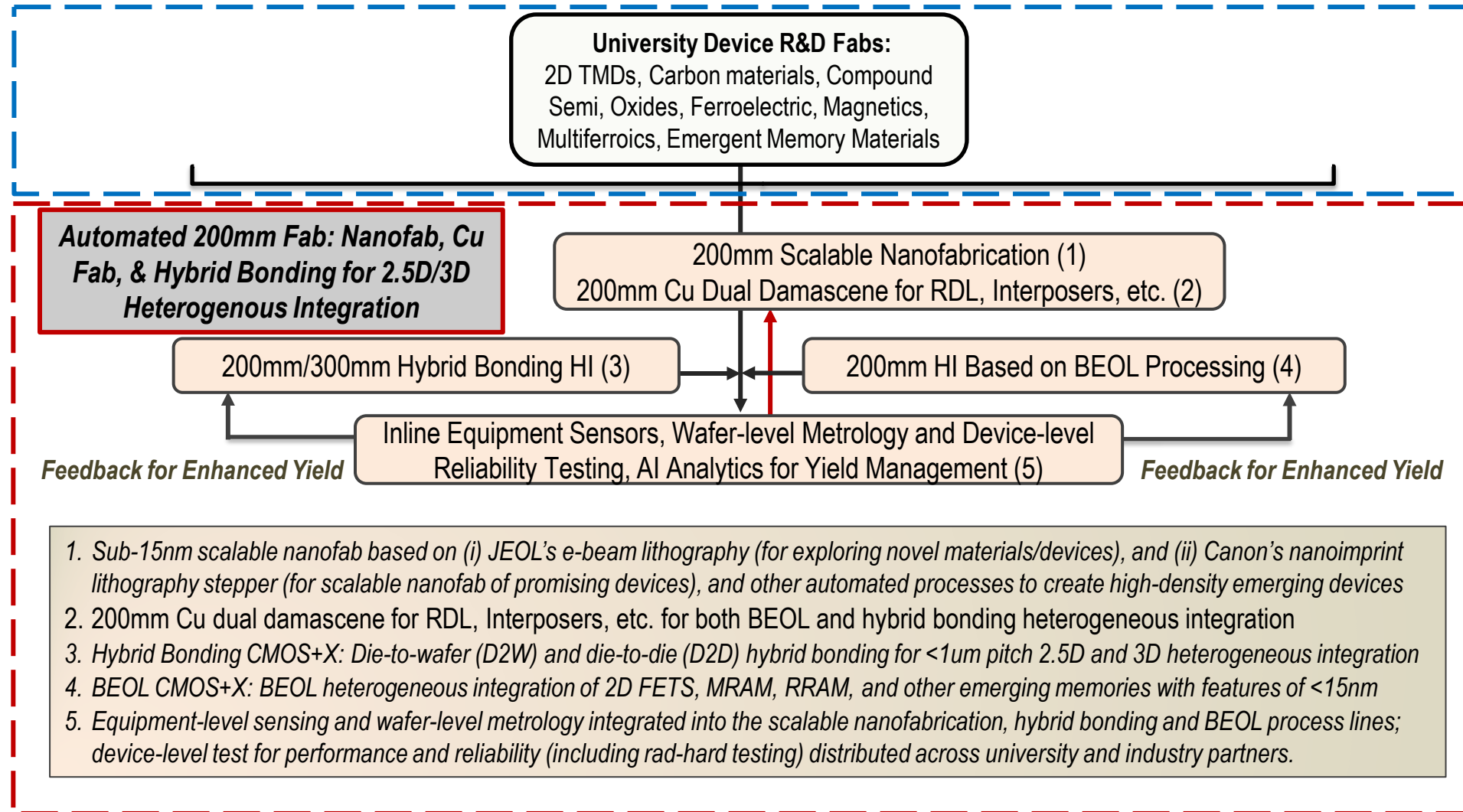
- 15,000 sq. ft. of Class 100 cleanroom at MRC
- Advanced Metrology at TMI
- 15,000 sq.ft. nano manufacturing at nm-Fab
- 150+ tools
- 1.2M\$/yr. from UT and 1.3M\$/yr. user fees
- 25 Staff (7 funded by NNCI)



NNCI on Steroids: Lab to Fab



Nanomanufacturing Facility to come online by mid-2024 with ~\$550M grant from State of Texas



Vision and Future Goals

- Enable and foster breakthrough nano-innovation - electronics, healthcare and energy
- Build new nanofabrication facility with Heterogeneous Integration capability (high-mix: low-volume)
- Innovation Ecosystem
- Science of scalability
(low volume nanomanufacturing)

