

Enabling the Transition from Research to Practice: Leading Faculty Perspectives

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- **Lack of understanding**
 - Industry – understanding the theory enough to provide practical guidance
 - Academia – understanding the practical issues – safety, code robustness, work process impact, etc.

- **Intellectual Property**
 - Especially if multiple companies involved

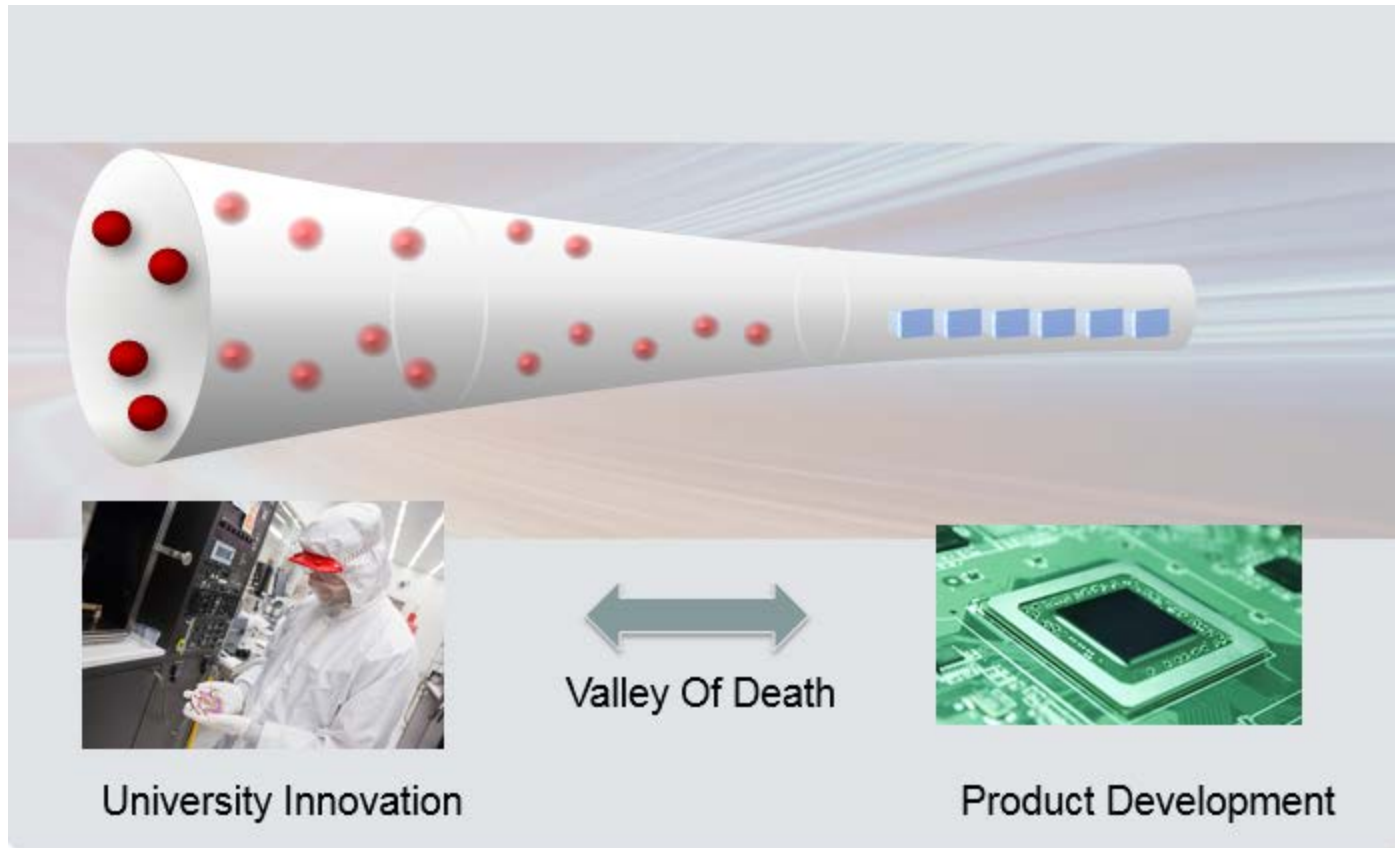
- **Disconnect in goals**
 - Industry funding timing of 1-2 years versus PhD thesis of 5
 - Lack of shared goals – publish vs. commercialize

- **Bridging the “Valley of Death”**
 - Lack of interest on either side to fund pilot scale work

- **More exposure**
 - Require summer industrial internships for PhD students
 - Require new faculty to have a 6 month industrial post doc
 - Promote industry sabbaticals – government funded?
 - More venues to discuss this topic and develop more concrete actions
- **More funding of collaborative partnerships**
 - Build on NIH, NSF GOALI, NNMI examples
- **New models for collaboration**
 - Research consortia with industrial certificate training
 - Reverse consortium models
 - Multi-university consortia to attract more industry
 - Better business development within University consortiums
- **Change goals**
 - Have universities explicitly include industrial tech transfer in promotion
 - Value paper that verify previously published work or demonstrations – is the “theoretical novelty” requirement the right one?

- What are the additional challenges in bringing research to practice and how can they be addressed?
- What are the opportunities for improvement for each of the key constituencies – academia, industry, government funding agencies?
- Provocative ideas?
- What industry/market is the benchmark for academic/industry collaboration – what can we learn from them?
- How do we get the funding agencies to put more emphasis on this?
- Give us your best ideas and have the panel react rapid fire (don't give me a speech)
- Where should we go from here – how do we promote more thinking on this?

Traditional Corporate-University Partnerships in Engineering Sciences Face a Fundamental Challenge



The Tata-Harvard Partnership Defines A New Approach

