

Towards Nurturing

- * Academia and Industry R&D Partnership
- * Innovation and Incubation

*a section 25 (non-profit company)
with board members from industry, alumni, Government at IIT*



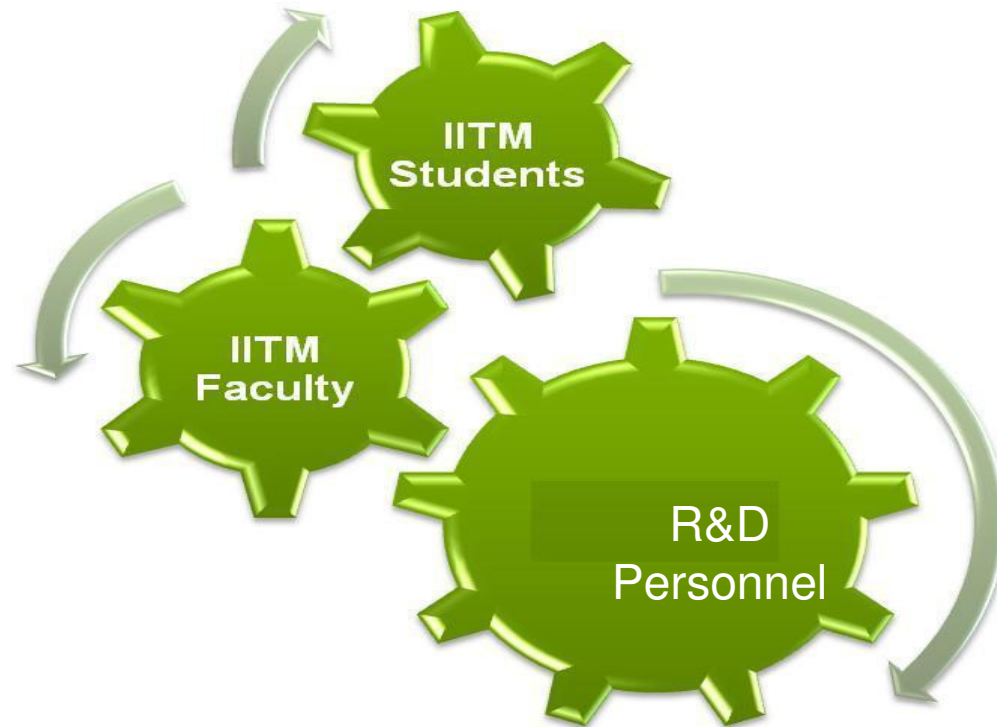
Bringing unlike minds together

Dilemma

- **Even as India's economy grows rapidly**
- **and Indian Academic Institutes like IITs have created a niche in the world**
- **Industry is raring to go**

- **But**
 - ✓ **Weak academia-industry partnership**
 - ✓ **Weak innovation and incubation eco-system**
 - ✓ **Weak Product development ecosystem**

IITM attempts an answer: The Golden Triad®



Innovations thrive when faculty, students and experienced industry personnel interact in a formal / informal atmosphere

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IITMRP Concept Created on

➤ a strong foundation of

- ✓ Industry – academia engagements at IITMRP for over 25 years
- ✓ Strong innovation culture for 15 years
- ✓ Product Development and commercialization experience

A home for Industrial R&D Labs





Infrastructure

Extension of IITM Campus

- Target built-up space of 1.2 million sq. ft.
 - ✓ First tower of 400000 sq ft operational from March 2010
- Incubation Area in First floor
- Conference facilities and meeting rooms on ground floor
- Amenities like food court, ATMs and a restaurant as part of the complex
 - ✓ transit accommodation by the Ginger Hotels on top floor
- 100% Power back-up and centralized air conditioning and fiber optic connectivity

But we did not stop here....

- We Innovated
 - ✓ we decided to Measure Collaboration
- Tenants obliged to collaborate with IITM
 - ✓ engage with IITM in a variety of ways
 - ✓ Need to earn credits
 - Collaboration in Research & Engagement with Departments in IIT
 - ✓ Tenants obliged to earn a minimum number of credits per square foot of rented area

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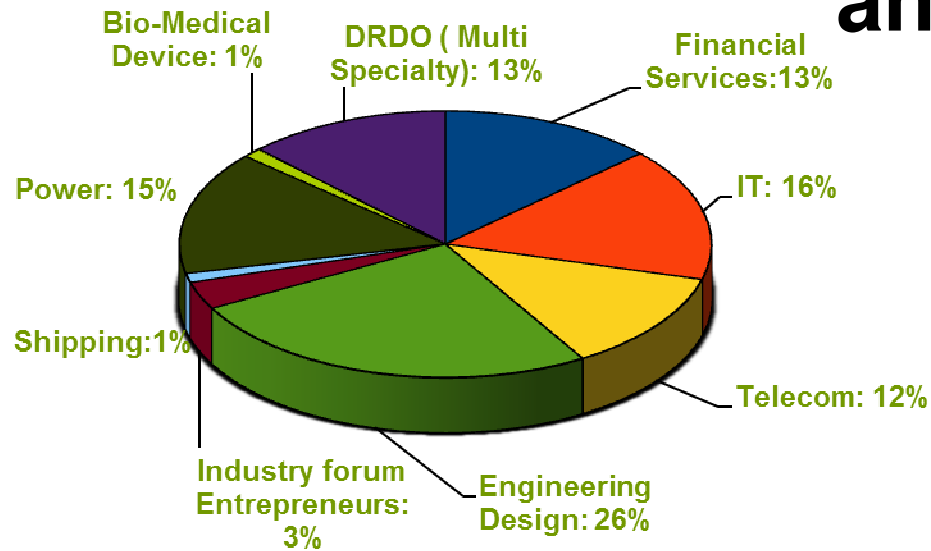
Measuring Collaboration: Credit Points System

Tenant should have 100 / 150 credits per year per 1000 square feet leased area
Contribution expected to be much more

Activity	Credits*
R&D projects to IC&SR (credits per Rs 1M)	200
Consultancy to IC & SR (credits per Rs 1M)	200
Royalty (credits per Rs 100k)	100
Sponsored Ph.D Students	100 per year
Sponsored M.S Students	75 per year
Adjunct faculty	200 per year
Teaching by Industry Personnel	2 per hour
Joint Ph.D guidance	100 per year
M.S/M.Tech guidance (per student)	75
B.Tech guidance (per student)	50
Part time employment for B.Tech students	2.5 per mnth
Part time employment for MS/Ph.D students	5 per month

- Joint Research projects
 - ✓ Technology development projects
- Consultancy
- Joint participation in large projects
- Industry personnel as Adjunct faculty
- IIT students as interns
 - ✓ During summer / winter / semester
- Industry employees registered as part-time students
 - ✓ At MS and PhD level
- Joint research guidance
- Technology Vision exercises
- Reports on Technology road-maps and state of art

and we got the variety



mapping IIT department diversity



And then there are IITM incubates



Incubates
RTBI
Aaum Analytics
Uniphore Solutions
Invention Labs
ROPE
EPMCR
Myeasydocs
Dhvani Research
DesiCrew



**and IITM- industry
collaboration has started
accelerating**



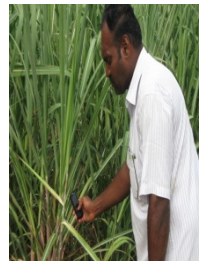
And products have started emerging



GramaTeller
vortex



invention labs
ENGINEERING PRODUCTS PRIVATE LIMITED



Slowly Overcoming Barriers

➤ Faculty

- ✓ **No incentives for collaboration with industry**
 - Does not count much towards promotions at IITs
 - Resistant from departments
- ✓ **But excitement is building up with interesting work**
 - Two-story apartments in 29 days
 - Push India's 50% of power by 2030 using solar energy

➤ Students

- ✓ **Internship at Park is a great benefit**
 - Will like to get academic credit for some work
 - Like projects

➤ Industry: Credit push

- ✓ **Mechanism still not fully operational at IIT**
 - Departments reluctant to accept non-academic type

We have just made the beginning

➤ Going forward

✓ Build towers II, III and IV

- Total infrastructure spend on Park: Rs 385 Crores (including pre-op exp)

✓ Get about 150 companies in Park to carry out R&D with IITM

- Contribute to development of a series of successful products
- Contribute to several significant innovations towards Indian and World market

✓ Incubate 25 companies every year out of IITM

➤ Lead in making a significant difference to India's growth story

➤ Next few years at IITM and IITMRP would be exciting