



BOARD OF REGENTS

SUMMARY OF ITEM FOR ACTION
INFORMATION OR DISCUSSION

TOPIC: UM Ventures Annual Report (information item)

COMMITTEE: Economic Development and Technology Commercialization

DATE OF COMMITTEE MEETING: June 18, 2013

SUMMARY: Through collaborative leadership between the University of Maryland, Baltimore and College Park, UM Ventures is bringing innovative products to market, expanding collaborations with industry, and creating new jobs in Maryland by integrating the commercialization and entrepreneurial programs of the two powerhouse universities. The Committee will be provided a report on progress in key areas at UM Ventures.

ALTERNATIVE(S): This item is for information purposes.

FISCAL IMPACT: This item is for information purposes.

CHANCELLOR'S RECOMMENDATION: This item is for information purposes.

COMMITTEE RECOMMENDATION:

DATE:

BOARD ACTION:

DATE:

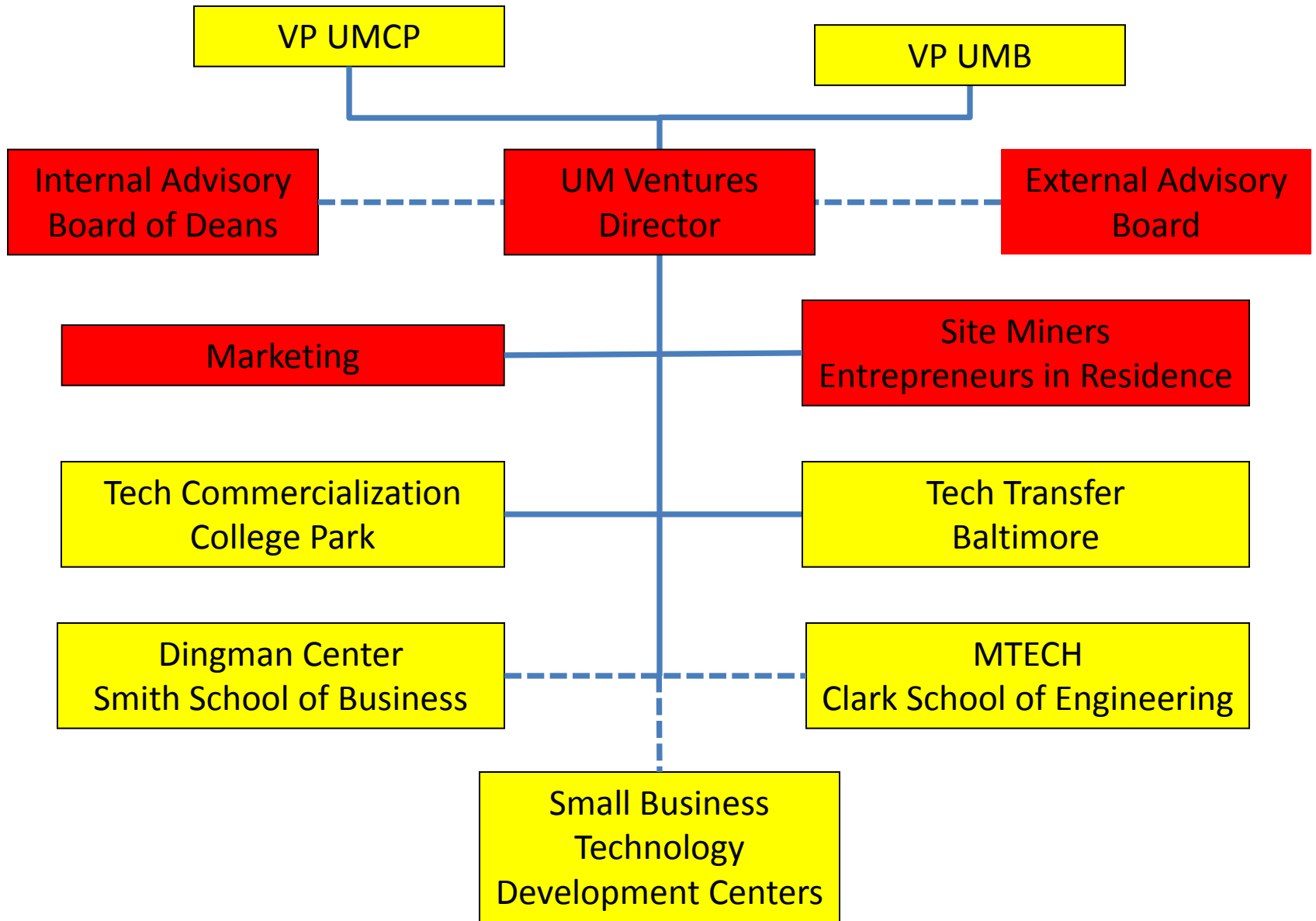
SUBMITTED BY: Joseph F. Vivona (301) 445-2783



- Commercialize discoveries
- Create economic impact
- Generate financial returns
- Recruit and retain entrepreneurial faculty
- Recruit and educate entrepreneurial students

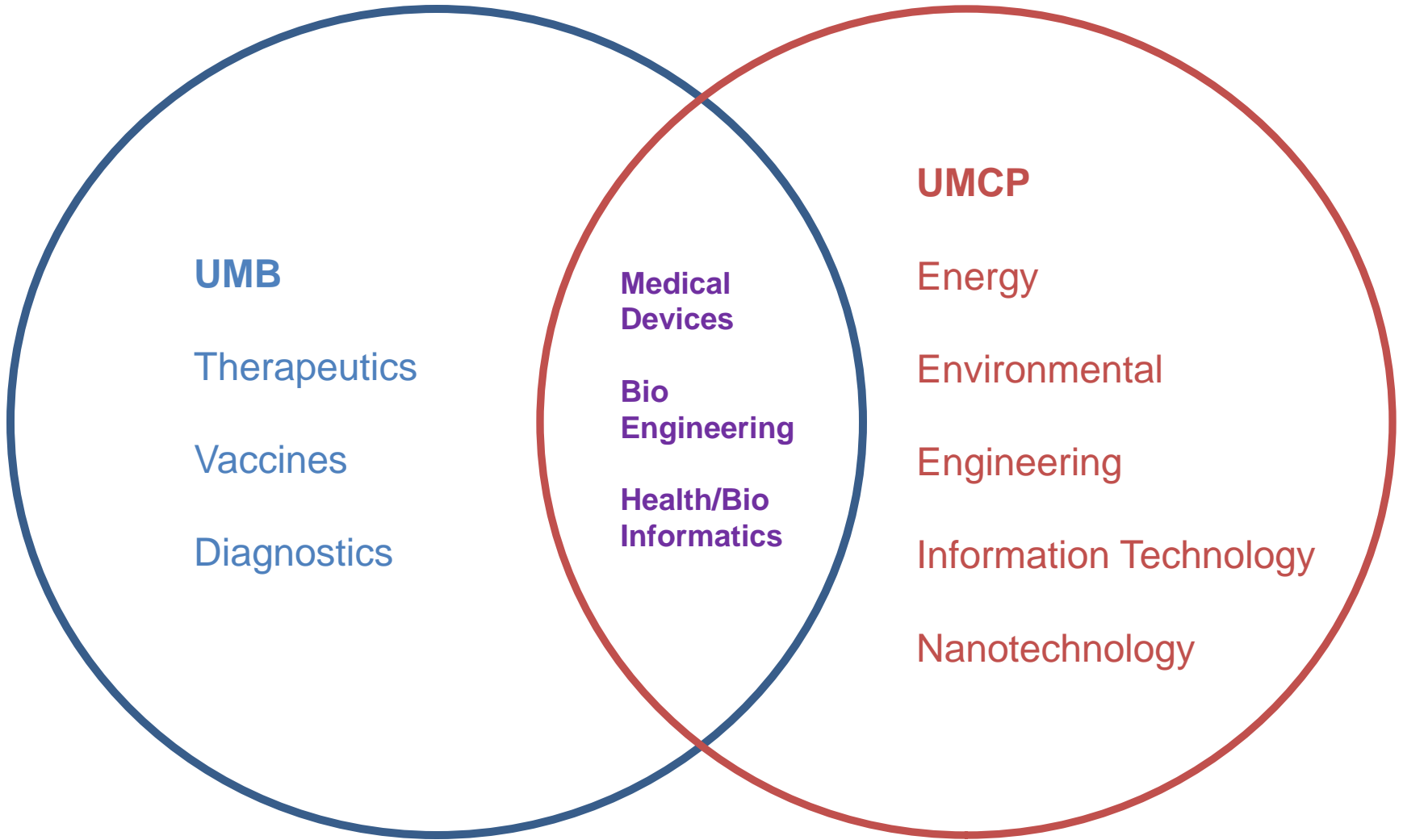


- Collaboration
 - Entrepreneurial Offices
 - Faculty
- Transactions
 - Licensing
 - Startups
- Resources/Capacity



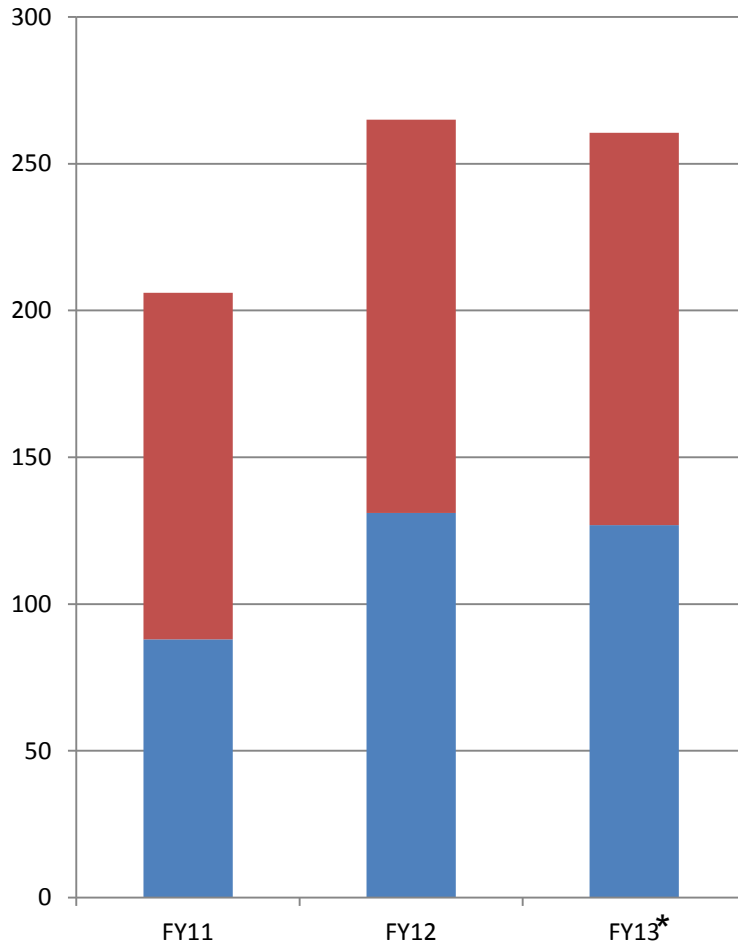
yellow = pre-dated UM Ventures
 red = new with UM Ventures





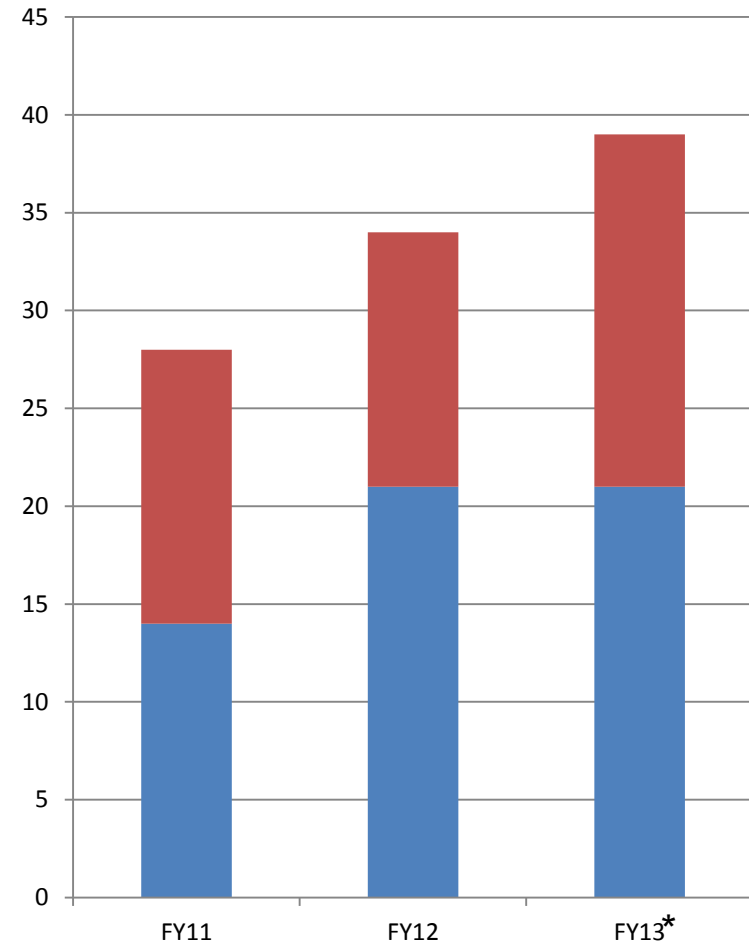


Invention Disclosures



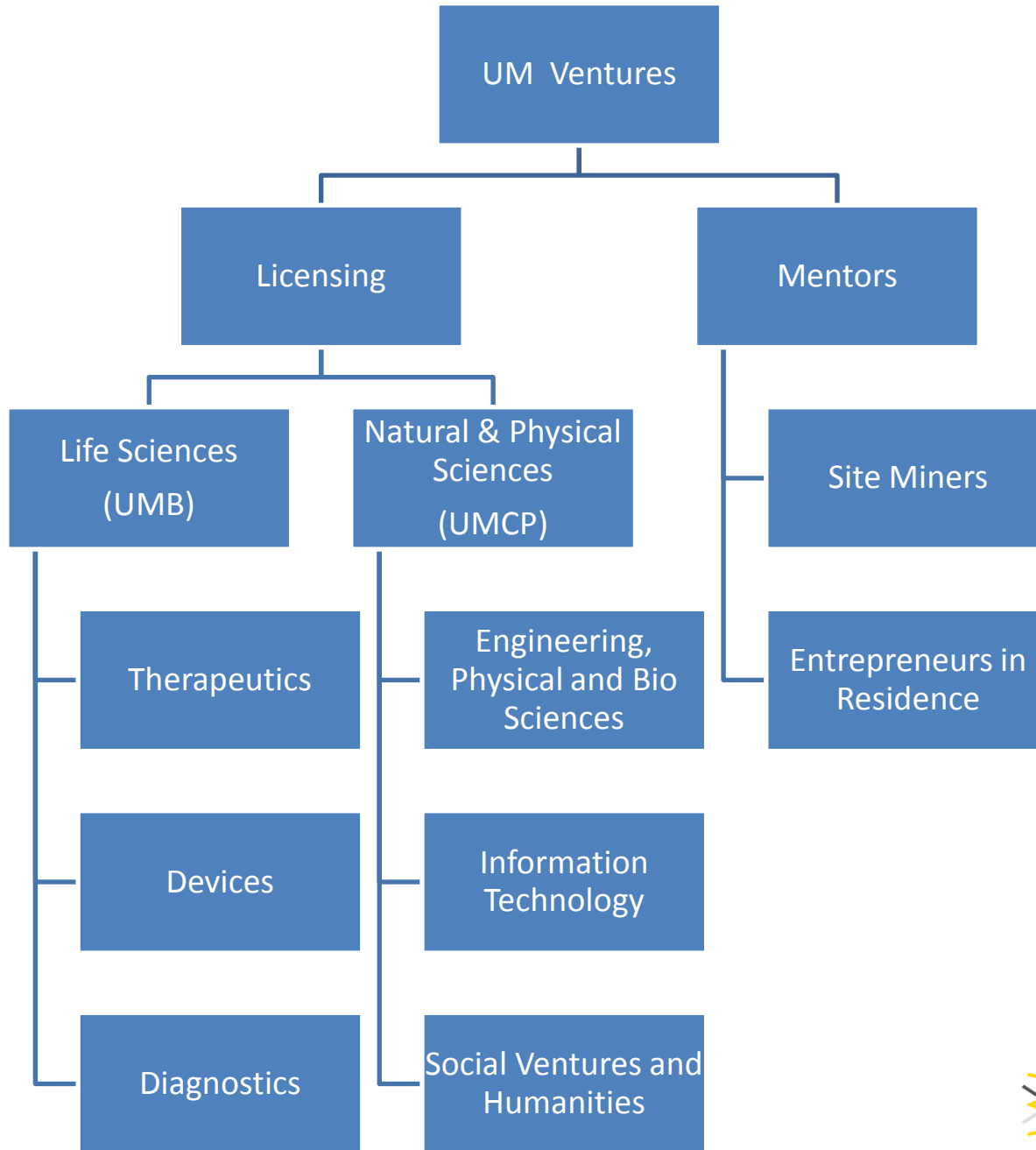
UMCP
UMB

Licenses



*Projected

Licensing



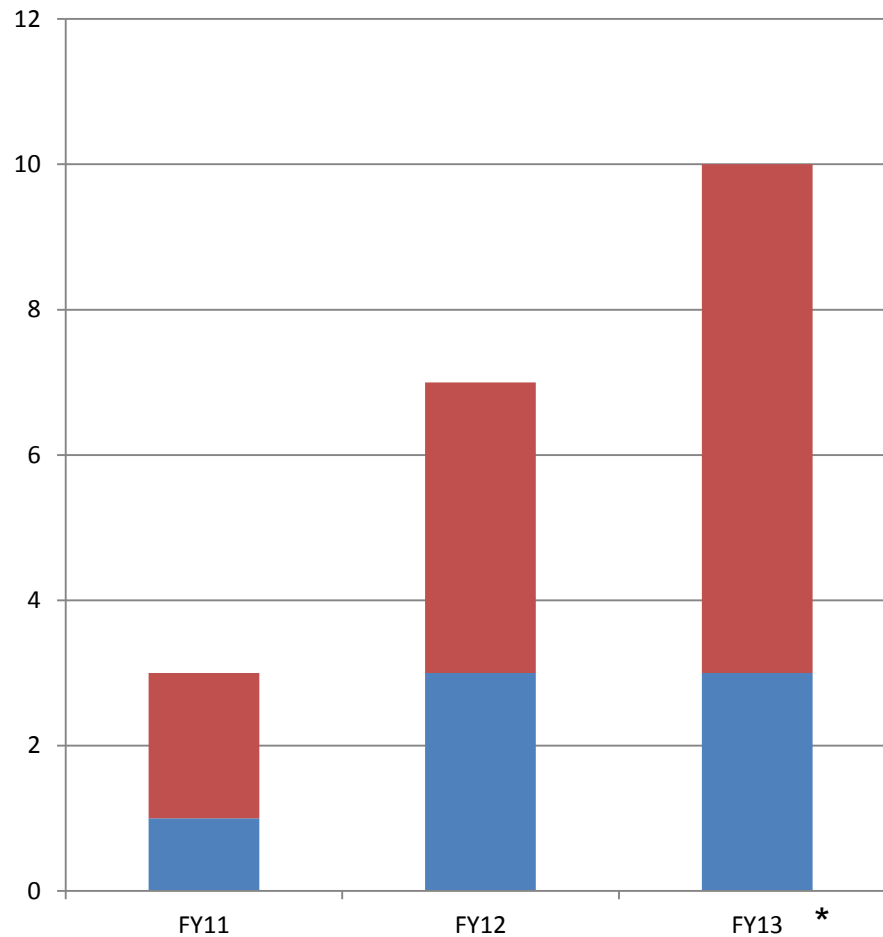


MII – Proof of Concept

Device	Inventors	Amount
Dental application of coherence gate Doppler	Cha-Min Tang (Medicine), Yu Chen (Engineering), Ashraf Fouad (Dentistry)	\$125,000
Development and testing of protocols for scour sensing post deployment	Norman Wereley (Engineering)	\$100,000
Hemostatic Bandages Based on a New Biocompatible Polymer	Srinivasa Raghavan (Engineering) Mayur Narayan (Medicine)	\$125,000
Commercial Development of a Vaccine Against Staphylococcus aureus	Mark Shirtliff (Dentistry)	\$100,000
Low Cost, High Performance, Polymer-Based Ultra-Miniature Fiber Optic Pressure Sensors	Mia Yu	\$100,000
Total		\$550,000



IP-based Start-ups



UMCP
UMB



- Three-year, \$3.75 million NSF award to create an I-CORPS regional node, one of five in the US.
- Led by Dean Chang, University of Maryland, in collaboration with George Washington University and Virginia Tech
- Intensive seven-week program to help student and faculty entrepreneurs bring their discoveries to market.
- 100 entrepreneurial teams per year:
 - 50 National teams will be brought to the region.
 - 150 teams from the Mid-Atlantic
- Create M-CORPS



Device	Inventors	Amount
Ink-jet printed sensors for authentication and trace contaminant detection	Diagnostic anSERS Eric Hoppmann (Engineering)	\$100,000
Treatment of Otitis without Ear Drum Puncture	Otomagnetics – Ben Shapiro (Engineering)	\$100,000
Advanced Molecular Modeling Software to Enhance Drug Discovery	SilcsBio LLC Alex MacKerell (Pharmacy)	\$99,556
Source Code Recovery from Executable Code for Cyber-Security Applications	SecondWrite Rajeev Barua (Engineering)	\$100,000
Real-Time Polling Application	React Labs, Philip Resnik (Linguistics)	\$100,000
Total		\$499,556



- Assist and track start-ups for first two years
 - Small Business Technology Development Centers
 - Dingman Center
 - Mtech
 - Tech Transfer Offices
 - BHI Entrepreneur in Residence



FY13 Highlights: Start-ups

- **A&G Pharmaceutical** (Columbia) \$300,000 grant from Avon Foundation
- **Alba Therapeutics** (Baltimore) 340 patients in Phase 2 Clinical Trial
- **Diagnostic anSERS** (College Park) \$175,000 in awards
- **FlexEI** (College Park) \$6 Million in industry funding
- **Gliknik** (Baltimore) \$4.9 million venture capital
- **Immotions Medical** (Baltimore) relocates to Maryland
- **OmniSpeech** (College Park) \$2.8 Million in grants
- **Remedium** (Baltimore) \$700,000 in grants
- **Remedy Pharmaceuticals** (NYC) \$3.7 million in Venture Capital and begins Phase 2 Clinical Trial
- **Tokai Pharmaceuticals** (Boston) \$33.5 million and begins Phase 2 Clinical Trial



- Approximately \$1.8 million in new funding
 - 8 licensing officers
 - Patent budget
 - 2 Venture Accelerator staff
 - M-CORPS
 - Proof-of-Concept Funding
 - Seed Equity Funding



- Building capacity
- Venture Capital
- Innovation Centers
 - College Park
 - Baltimore
 - Shady Grove

