

# NORTH EASTERN MARYLAND UNIVERSITY RESEARCH PARK (NEMD- URP)

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B. Danny DeMarinis – [bdemarin@mitre.org](mailto:bdemarin@mitre.org)

# Purpose of Presentation



- ❑ To provide an overview of current NEMD-URP efforts
- ❑ To solicit feedback on current efforts/solicit interest

**For the NEMD-URP to be a key regional/national education and technology resource, it must meet the requirements of Industry, government, and academia in the APG community.**

# Why Develop a (NEMD) University Research Park (URP)

- ❑ Business growth/BRAC activities in NEMD
- ❑ Ability to support/leverage MD's R&D for benefit APG/NEMD Community
- ❑ Support Region's (Advanced) Higher Education needs
- ❑ Ensure/Support correct Mix of Higher Education Degrees
  - ❑ Undergraduate, graduate (Masters, Doc, Post Doc) in STEM, Cyber, C4ISR, other domains
- ❑ Foster collaboration by providing location where researchers (companies, government, universities) operate in close proximity
- ❑ Foster interaction industry/university via proximity (promote, develop, transfer, and commercialization of technology)
- ❑ Interaction facilitates internships, high technology employment opportunities, collaborative R&D, equipment sharing, etc

**Environmental factors support creation of URP in NEMD area.**

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# NEMD-URP Overview

- ❑ Vision – A nationally recognized advanced multidisciplinary academic, science and research campus (aligned with Aberdeen Proving Ground) creating technology-led economic growth for the northeastern region of Maryland.
- ❑ Mission – The park provides a multidisciplinary distributed environment that strengthens national defense priorities through:
  - ❑ Advanced degree doctoral and post-doctoral opportunities
  - ❑ Research and high technology transfer collaboration
  - ❑ Critical-skilled, top tier, knowledge worker education
  - ❑ Business/technology incubation (mentoring business)

**URP-NEMD can create campus-like environment for developments created by universities or by local government with strong university input. Initial objectives are for university income-generating ventures and to become a regional development focus area, and also to be a mechanism for the commercialization of university technology through spin-offs in the NEMD region.**

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# NEMD-URP Planning Committee

- ❑ Mr. John Casner – Executive Director NMTC
- ❑ Mr. Danny DeMarinis – Director, Strategic Initiatives – MITRE
- ❑ B.G. Mike Hayes (USMC Ret) – Managing Director DBED/Office of Military & Federal Affairs
- ❑ Dr. Jim LaCalle – H-OED (Former President Harford Community College)
- ❑ Ms. Marlene Lieb. – AVP Continuing Education Harford Community College
- ❑ Mr. Mike Lombardi – Associate Director C2Directorate, USA CERDEC
- ❑ Warren Mullins – VP Battelle (Retired)
- ❑ Mr. Jim Richardson – Director, Harford Office Economic Develop (H-OED)
- ❑ Ms. Asuntha Chiang-Smith – Executive Director BRAC Sub Committee (Office Lt. Governor)
- ❑ Ms. Annabelle Sher – Assistant Director DBED
- ❑ Dr. John Stephenson – BRAC Coordinator and Cyber Security Liason – MHEC
- ❑ Ms. Nicole Funk (Mr. R. Truesdell) – Senior VP – BAH
- ❑ Mr John Wasilisin – Exec. VP & COO – TEDCO ( Technology Development Corp)

**Anticipate broadening committee as appropriate.**

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# Next Steps



- ❑ Broaden exposure of NEMD URP concept/efforts to Industry/Gov't/Academia Community
  - ❑ Incorporate feedback/broaden regional focus
- ❑ Develop White Paper explaining current concept/defining implementation
  - ❑ Identify R&D focus areas
  - ❑ Identify Stakeholders
  - ❑ Define Organizations Funding requirements
  - ❑ Define Interfaces
  - ❑ Define Policy Considerations
  - ❑ Define Governance options
  - ❑ Time Frames (near, far term)
  - ❑ Physical considerations
- ❑ Obtain funds for implementation IAW White Paper/Community guidance
  - ❑ County, State, Professional Associations, grants, etc.

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Back up

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# Potential Technology/Skill Focus Areas

**C4ISR**

- Information Management
- ▶ Biotechnology (BioInformatics)
- ▶ Human Language
- ▶ Computing Software
- ▶ Communications & Networks
- ▶ Sensors
- ▶ Information Assurance (Cyber)
- ▶ Decision Spt
- ▶ Electronics
- ▶ Modeling & Simulation
- ▶ Artificial Intelligence

**Chemical/Biological**

**Other**

- ▶ Math
- ▶ Medical
- ▶ Test/Evaluation

**The focus will be on technical disciplines/technology areas critical to APG needs.**

# Related STEM/Education/Technology Efforts

## STEM (K-12)

- Army Alliance Gap Analysis
- Harford County Public Schools Working Group/Strategic Plan
- NMTC Study/Plan
- HCC efforts

## Undergraduate

- HCC efforts
- UMUC at Soldier Ctr
- Several colleges / universities at HEAT Ctr.
- Bilateral Agreements
  - HCC/Towson,
  - Cecil College/UD
- Education Summit

## Graduate

- Several colleges/universities at HEAT Ctr.
- Education Summit
- Six HEAT Partners

## Doctoral/Post Doctoral

- NEMD-URP

**Several education efforts are ongoing which require coordination to ensure max benefit to community.**

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## Interested Colleges/Universities (Initial)



- University of MD – College Park
- Johns Hopkins University
- University of MD Baltimore County (UMBC)
- Morgan State University
- Stevenson University
- Towson University
- Etc.

**MHEC informed all the institutes of higher education in MD of URP project and several indicated interest. Others are expected to be involved in time.**

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## Ongoing Efforts/Accomplishments



- ❑ Developed URP Concept
- ❑ Obtained status as County's lead for URP (EDAB)
- ❑ Developed broad, community based team to implement/plan the URP
- ❑ Defined way forward