



Alternate R and D Funding for the SP-1 Environmental Panel

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NSWCCD Code 6101/NAVSEA 05DM

Environmental Panel Meeting

21 June 2006

NSRP-Associated R and D Initiatives

- NSRP Research Announcements
 - \$0.4M to \$4.0M
 - Multi-year
- NSRP Panel Projects
 - <\$100K
 - <12 months duration
- **Small Business Innovative Research Projects**
 - **Phase I - Feasibility (\$100K)**
 - **Phase II –Demonstration/Prototyping (\$750K)**
- **MANTECH**
 - **Funded at or Through a Center of Excellence**
 - **Funding Range of \$100K - \$6M**

NSRP-Related Alternate Investments Summary (FY-99 to FY-06)

ONR - Navy MANTECH	Navy MANTECH Centers of Excellence	FY00	\$996,000	
		FY01	\$1,065,000	
		FY02	\$1,075,000	
		FY03	\$973,000	
		FY04	\$700,000	
		sub-total	\$4,809,000	
ONR	Small Business with research institutions	FY99*	\$2,319,000	
		FY03	\$450,000	
		sub-total	\$2,769,000	
ONR	small business	FY00	\$2,405,000	
		FY01	\$2,150,000	
		FY02	\$2,410,000	
		FY03	\$4,900,000	
		FY04	\$1,770,000	
		FY05	\$1,072,000	
		FY06	\$1,195,000	
sub-total	\$15,902,000			
NAVSEA-PEO Ships	small business	FY04	\$420,000	
		FY05	\$2,640,000	
		FY-06**	\$3,115,000	
		sub-total	\$6,175,000	

Grand Total \$29,655,000

PEOSHIPS Funded, NSRP-Related SBIR History FY-05/06

- **FY-04 3rd Cycle** **Seven Phase I Projects Completed; Two Phase II Awards in Process**
- **FY05 1st Cycle** **Five Phase I Projects Completed
Four Phase II Awards In-process**
- **FY05 3rd Cycle** **Six Phase I Selection Made; Contracts Awarded**
- **FY06 1st Cycle** **Three Phase I Awards In-Process**
- **FY06 2nd Cycle** **Proposals due 14 July**



Current SP-1 SBIR Activities

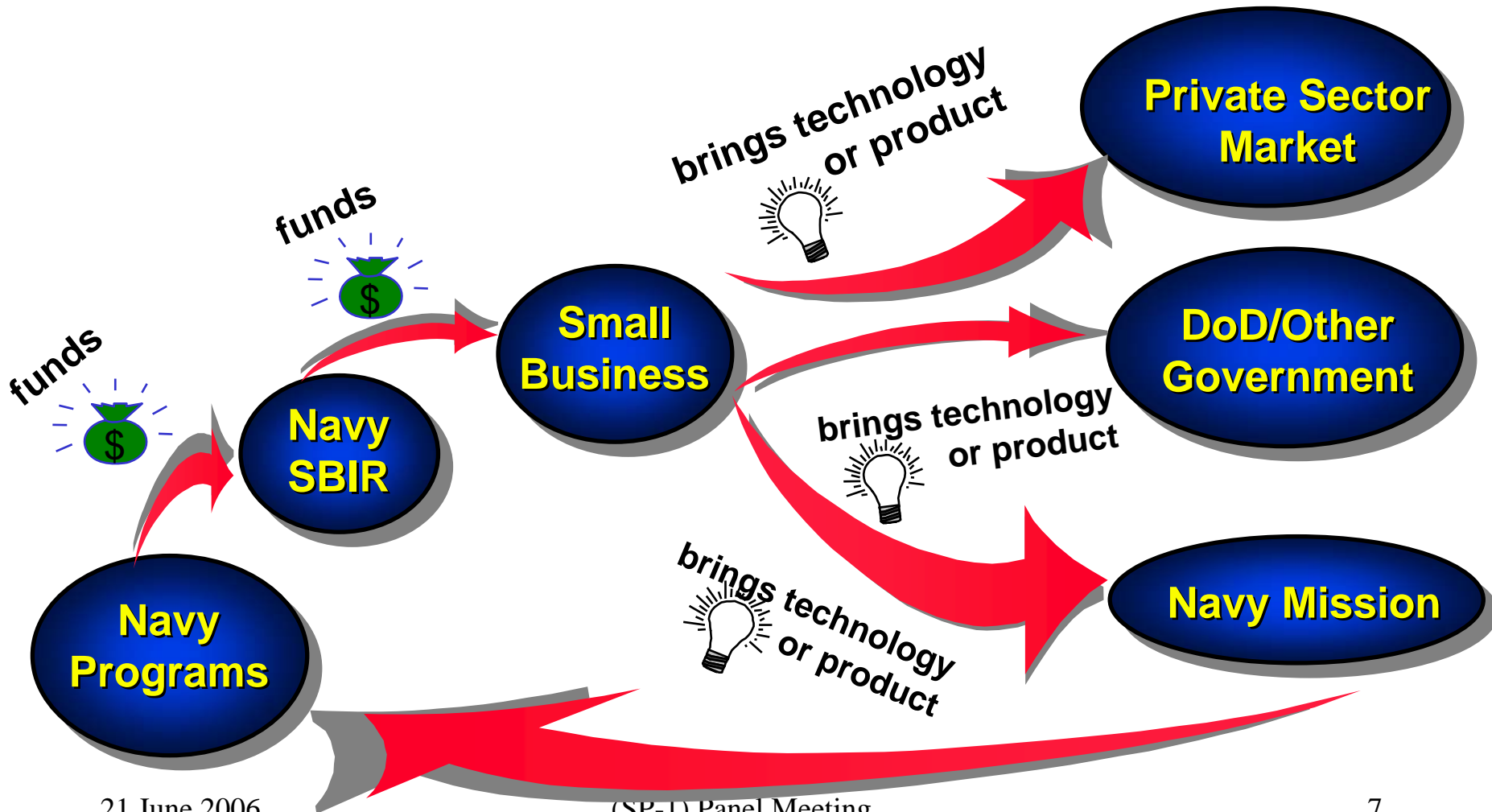
- PEOSHIPS-Sponsored
 - 5.1 Topic – Crane Diesel Engine Emissions Monitoring
 - Phase I completed
 - Phase II proposal under review
 - Awards Targeted for 15 July 2006
 - Total Expected R and D Investment >\$1M

SBIR FY2006 Round 2 – Submitted Topics

Topics posted on DoD website on 5/1/06; DoD *Proposals Accepted* beginning 6/14/06 and ending 7/14/06.

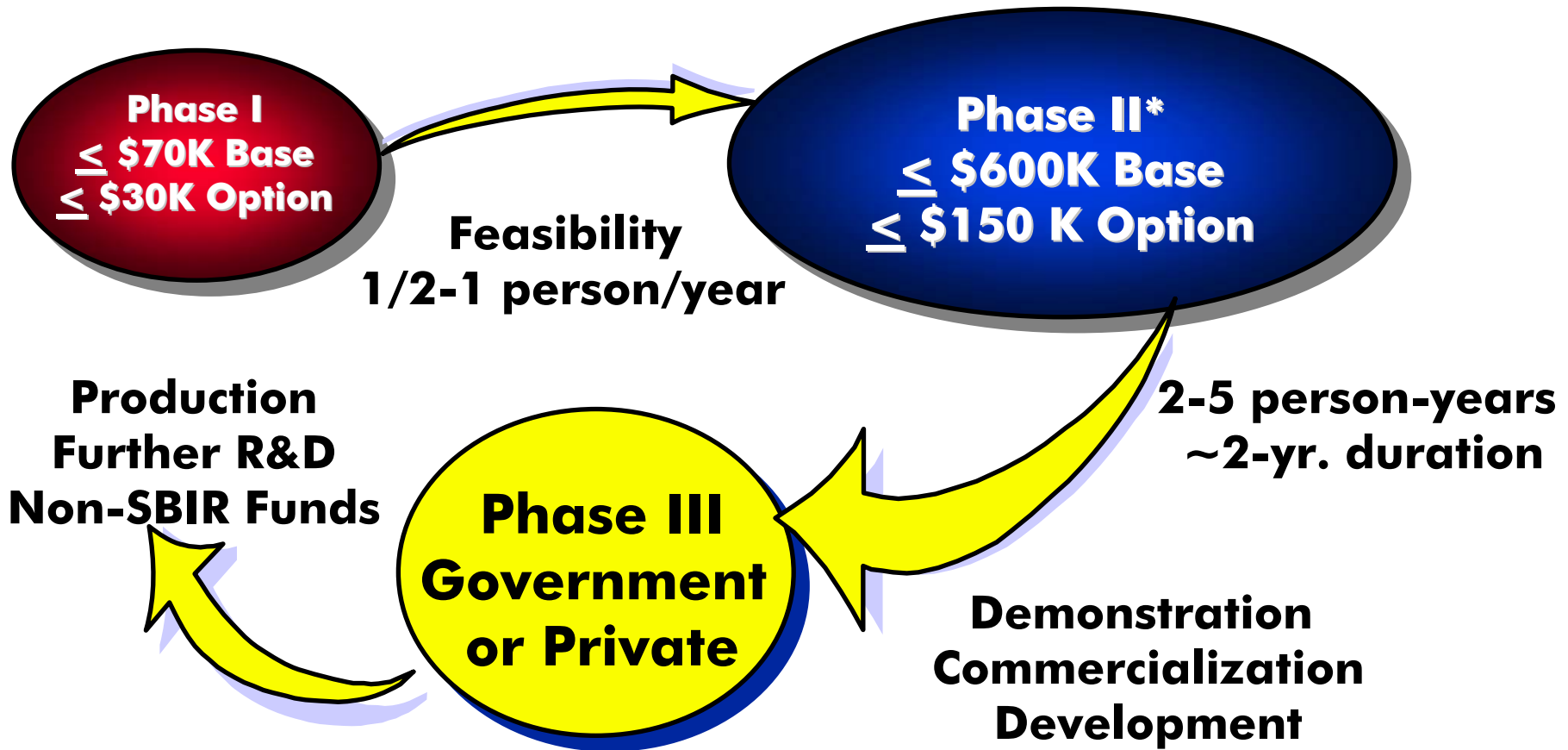
- **Advanced Environmental Monitoring Technology for Domestic Shipbuilding**
 - **Sensor technology , systems development and wireless technology for real-time NESHAP limit monitoring of storm-water and industrial waste water run-off**
- Improved Technology to Nondestructively Test Marine Aluminum Structures
 - Rapid, nontraditional surface inspection methods focused on fatigue cracks
 - Field methods to determine sensitized 5XXX aluminum plate

SBIR - Leveraging Investment in Small Business





Program Phases





SBIR Ground Rules

- To Qualify for SBIR Funding the Organization:
- Is Independently Owned and Operated
- Is Owned 51% by US Citizens
- Is Less than 500 Employees
- Is Based Principally in the US
- Is Not Dominant in its Field
- Is Organized for Profit
- Spends Minimum 2/3 of Funding Internally in Phase I
- Spends Minimum of 1/2 of Funds Internally in Phase II
- Employs PI a Minimum of 1/2 Time with SB Firm



SBIR Topic Schedule

- Three topic announcement per year
 - 2006
 - 6.1 Topics Completed
 - 6.2 Topic Proposals Due by 14 July 2006
 - 6.3 Topics Under Final DDR&E Review
 - Topic Announcement to be Issued on or about 1 Aug

Navy ManTech: Mission and Functions

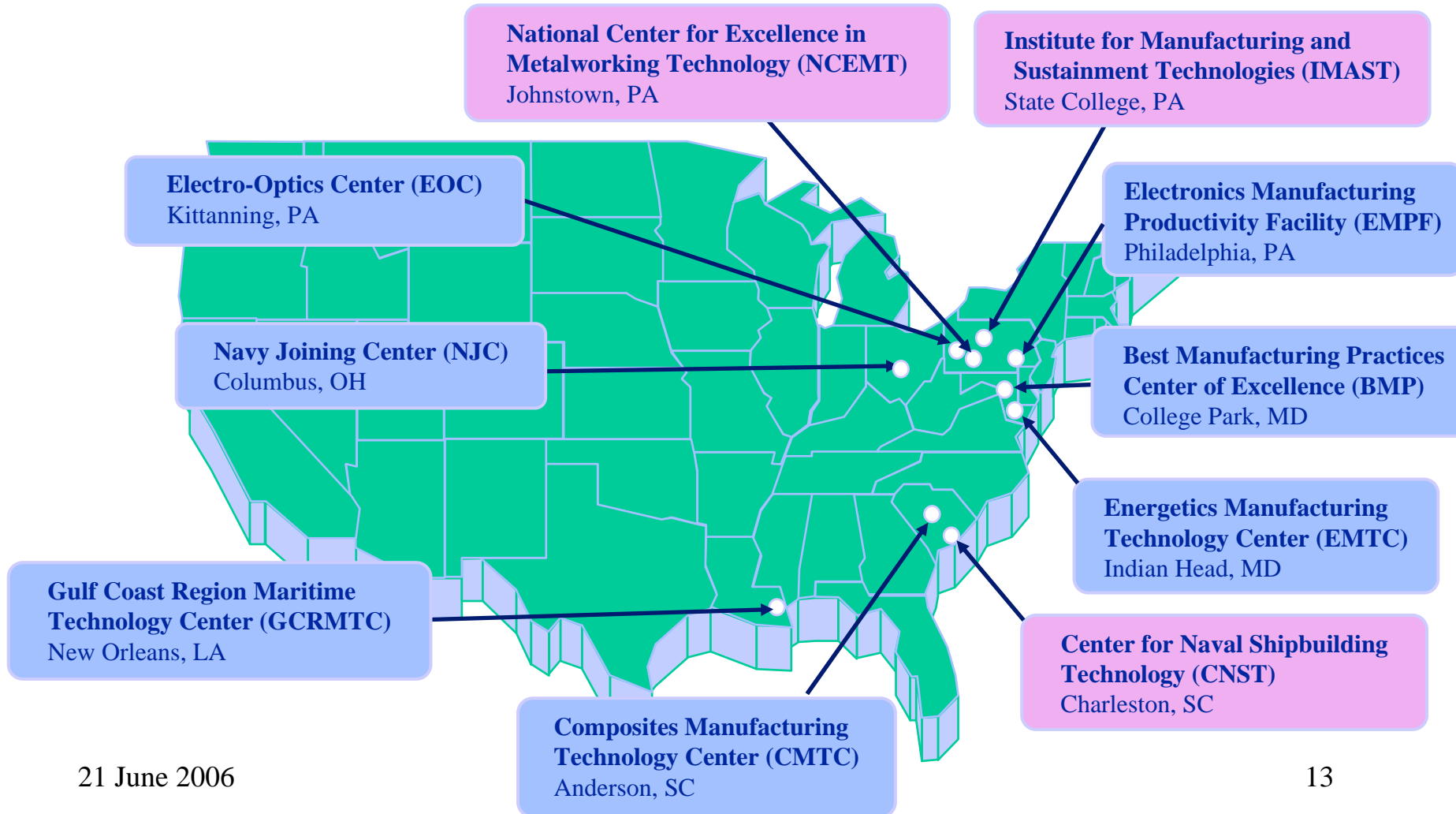
- A mechanism for the development of enabling manufacturing technology, in the form of new equipment and processes, and its implementation on DoD weapon system production lines:
- **DoD 4200.15 states investments should:**
 1. Transition emerging S&T results to acquisition programs
 2. Improve industrial capabilities in production, maintenance, repair and industrial base responsiveness
 3. Advance manufacturing technology to reduce cost, improve performance, and responsiveness

Navy ManTech executed through Centers of Excellence

NAVY MANTECH Program Planning

- MANTECH Uses Program Office-Centric Approach to Develop Program
 - Major NAVY Acquisition Office Used to Develop Important Issues and Proposal Areas
 - ONR Tasks MANTECH COE's to develop proposals based upon Prioritized Program Office needs
 - ONR prioritizes and down-selects proposals
 - COE prepares project plans based upon proposals
 - ONR awards contract based upon project plan
 - COE executes project

Navy MANTECH Centers of Excellence



MANTECH Program Planning Timeline

- **ONR Determines Investment Details** **January**
- **PEO/Program Offices Develop Needs** **Feb**
- **ONR Ranks Priorities with PEO/PO/COE** **March**
- **COE Develop Project Plans** **Apr-May-June**
- **ONR Approves Plans; Award Contract** **July-Aug-Sep**
- **COE Starts Project** **Oct**

Summary

- Substantial R & D Funds can be Directed to Panel Issues through Non-NSRP Sources
- SBIR topics Should be Forwarded to Chuck Kramer (kramer@ati.org) at ATI (With a copy to Bill Palko to assist in pre-planning william.palko@navy.mil)
- SBIR topics describe need, not a solution; they must allow for innovation; there should be a negative impact for no action
- NAVY MANTECH program are executed through the 9 Centers of Excellence
- Needs are principally identified by Navy PEO/PO's. Environmental panel needs could be forwarded through a member shipyard with major acquisition program (CVN, DDX, LCS). Each of the shipyards with the Major Navy acquisition programs have an identified MANTECH Rep.