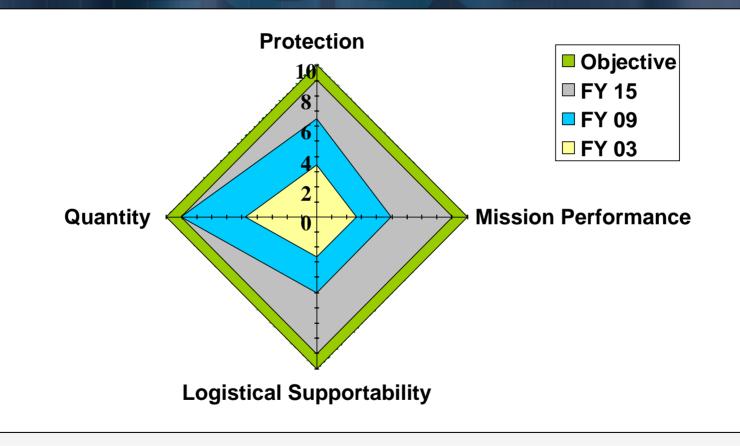
Corey M. Grove

Respiratory Protection Technology Team Edgewood Chemical Biological Center (410) 436-6651



User Assessment



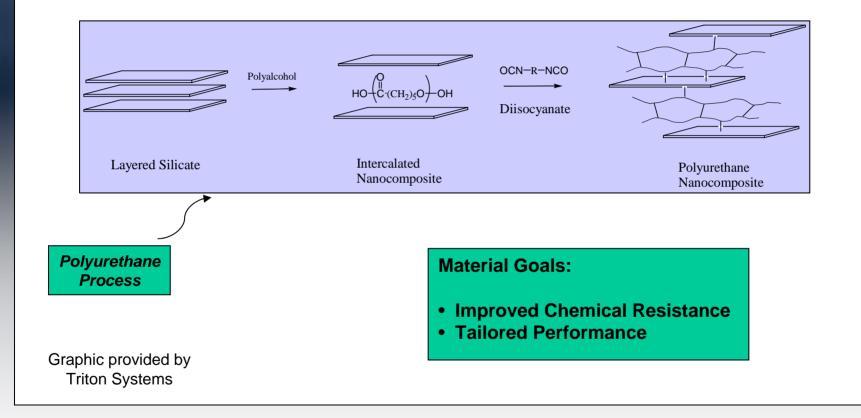


Technology Assessment

NGGPM	Enhanced NGGPM
Nanocomposite Materials	Powered Technologies
Nanocomposite Filter Media	Nanotechnology
System Pressurization	Microelectronics
System Integration	Micro-machines
Mid Term	Long Term
(3-6 years)	(6+ years)
Power	

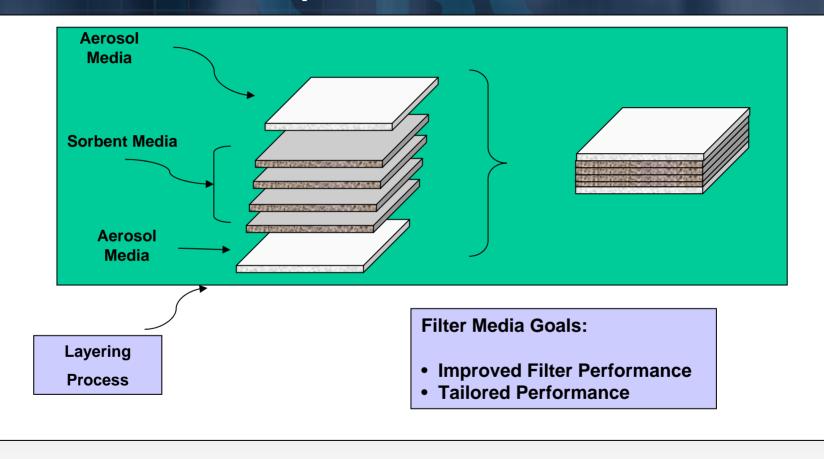


Nanocomposite Materials



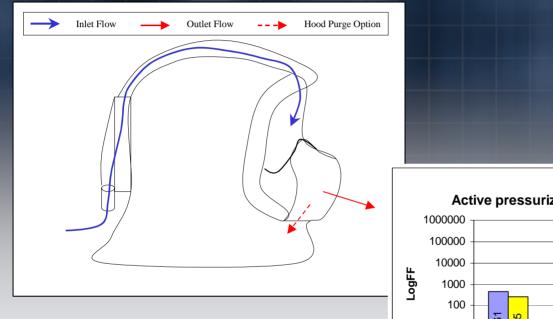


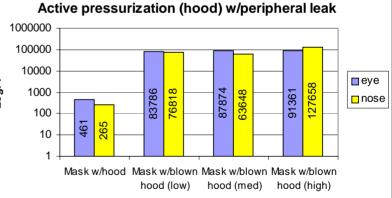
Composite Filter Media





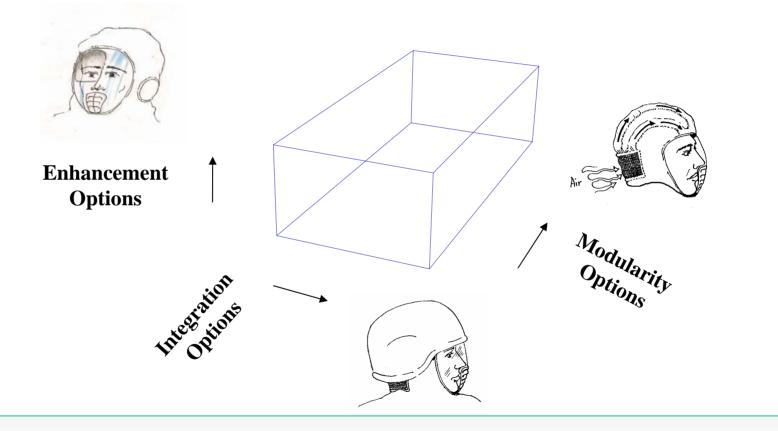
Advanced Mask Concepts System Pressurization



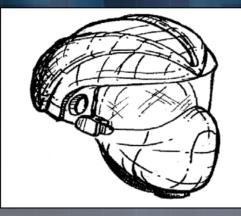




Advanced Mask Concepts System Integration







NGGPM Concept (An Integrated Approach)

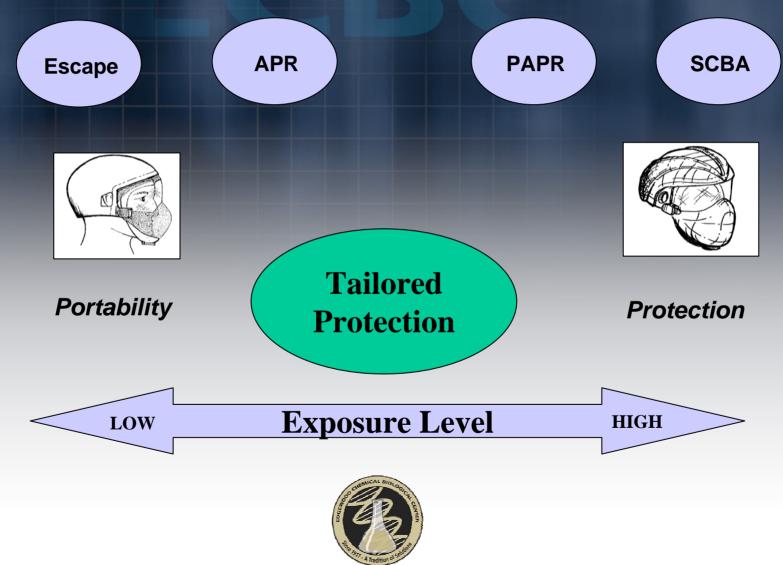


NGGPM Features

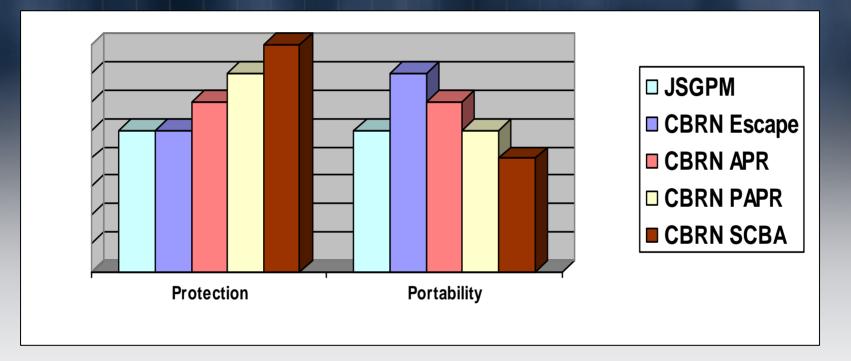
Family-of-Systems Tailored Protection Performance Optimization Operational Modularity Enhancement Adaptability



Family-of-Systems

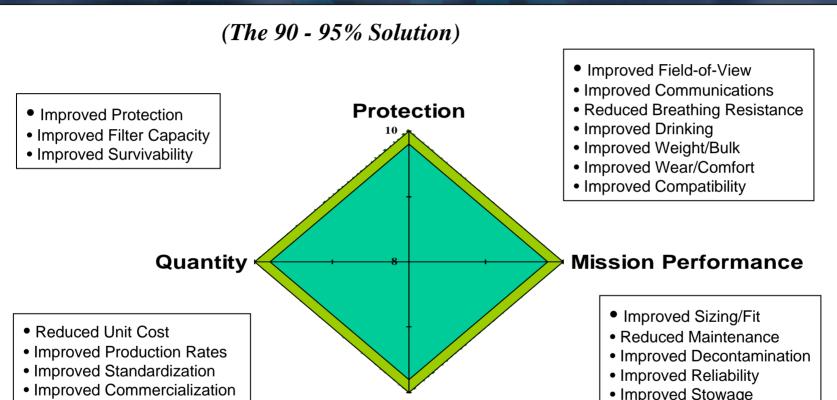


Advanced Mask Concepts Overall System Goals





Performance Optimization



Logistical Supportability

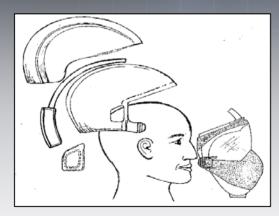


System Integration

Integration Benefits

- System Pressurization
- Communication Liner System
- High Surface Area Filters
- Helmet/Suit Interface Control









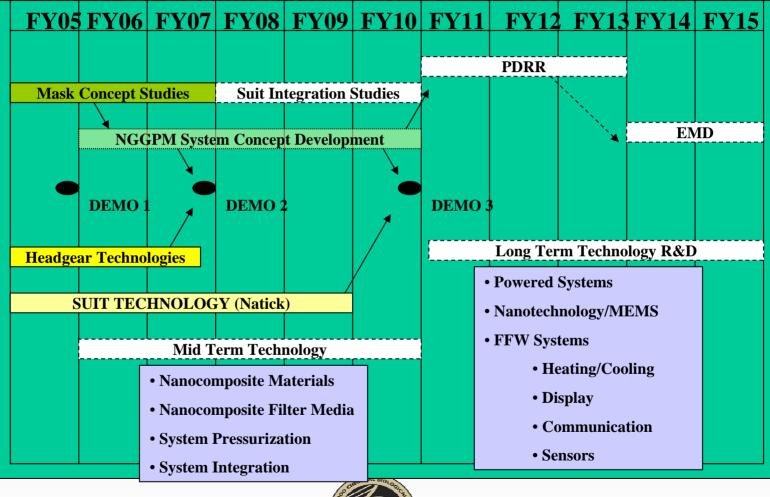
Microclimatic Cooling* Communications* Displays/Sensors*

* Leverage FFW





Advanced Mask Concepts Technology Roadmap





Advanced Mask Concepts Transition Roadmap

