



Product Director Mobile Collective Protection Systems (PD-MCPS) 23 Oct 07

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Agenda

- **PD-MCPS ROLE AND MISSION**
- **CAPABILITIES**
- **CURRENT ACTIVITIES**
- **GOALS**
- **CHALLENGES/NEEDS**
- **SUMMARY**



Product Director- Mobile Collective Protection Systems (PD-MCPS)

- Serve as the JPM-CP's PD-MCPS



“If it moves and doesn't float, we support it”

Definition: Providing Collective Protection for systems that are on the move

Mission: Serve as the Joint Project Management for Collective Protection focal point by providing overall direction and guidance for research, design, development, test, procure, field, and provide life cycle oversight for Collective Protection equipment and systems for Mobile Platforms that provide contamination free areas to protect personnel and equipment against Chemical, Biological, Radiological, and Toxic Industrial Material threats.



Mobile PD Focus Areas



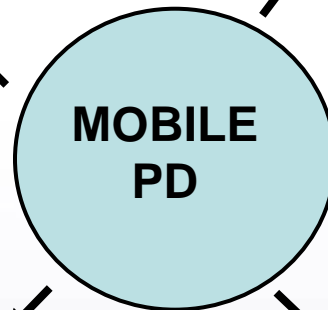
C-130 HERCULES



FAMILY OF MEDIUM TACTICAL VEHICLES



ANALYTICAL LABORATORY SYSTEM



BRADLEY FIGHTING VEHICLE



MOBILE SHELTER

- Wheeled Platforms
- Tracked Platforms
- Aircraft
- Vehicle Mounted Shelters



PD-MCPS Capabilities

- **Programmatic**
 - Extensive knowledge base exists regarding ColPro systems integration onto mobile platforms
 - Access to current Government Supply System/Databases
 - Understanding of the developmental life cycle
 - Serve as “honest” ColPro technology broker
- **Technical**
 - Knowledge of current technologies in the ColPro area
 - Understating of the Systems Engineering approach
 - Knowledge of future trends in ColPro
 - Advanced filtration (Advanced sorbent, regenerable, CatOx)
 - Egress/Entry



Current Activities

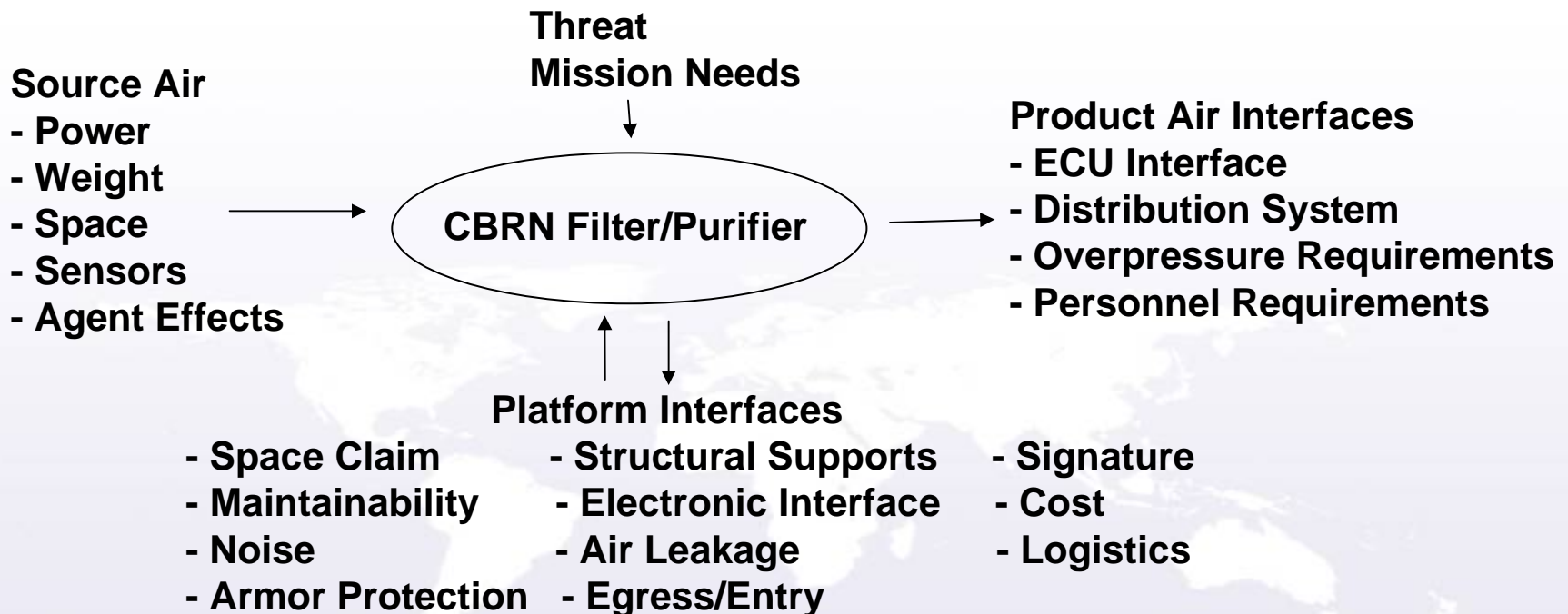
- **Developing a database of platforms and their current ColPro capabilities**
- **Answering current user questions regarding ColPro capabilities**
- **Assisting future platforms with ColPro system information and systems integration expertise**
- **Identifying data/capability gaps**
- **Executing ColPro advanced technology transitions efforts**
 - **Design, fabrication, and evaluation of a full scale (300 cfm) integrated regenerable filtration system**
 - **Design, fabrication, and evaluation of a full scale Catalytic Oxidation air purification system**



Systems Engineering

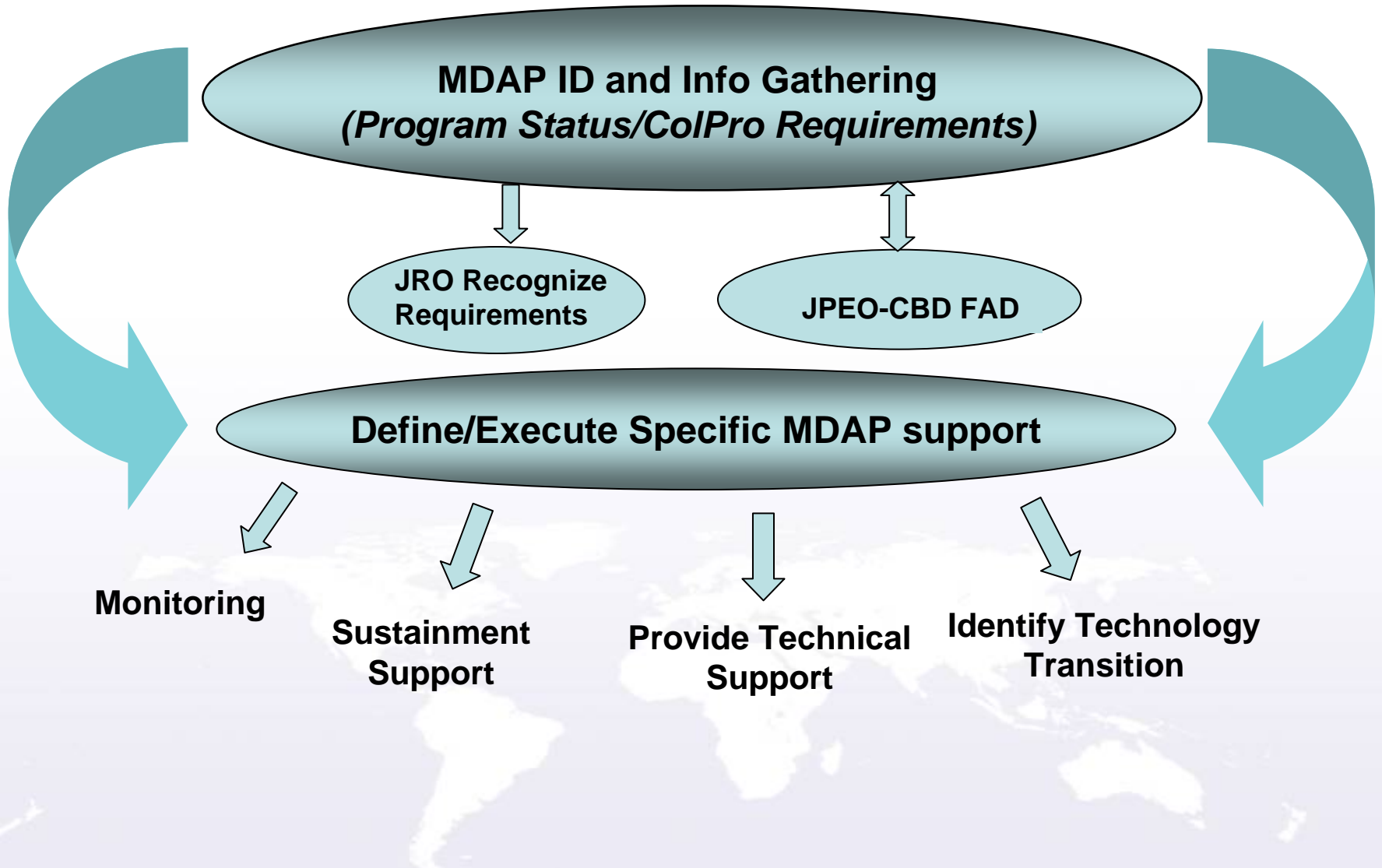
- ColPro systems will become part of the platform
- Must use the systems engineering approach to achieve an optimal ColPro systems integration concept

SOME INTEGRATION FACTORS TO CONSIDER





PD MCPS Effort Execution Flow





PD-MCPS Goals

NEAR TERM

- Identify legacy platforms and their current ColPro capabilities and deficiencies.
- Effectively communicate to PMs our applications expertise
- Establish relationships with the PMs and industry
- Provide Life Cycle Support to fielded Mobile Applications
- Conduct technology tradeoffs to determine optimal ColPro technology to meet specific mobile platform needs



PD-MCPS Goals

MID TERM

- Identify future mobile applications Collective Protection requirements
- Continue to effectively communicate to PMs our application expertise and support as required
- Maintain and continue to establish relationships with PMs and industry/academia to address ColPro needs
- Continue to conduct technology studies/evaluations to investigate optimal ColPro technologies to meet mobile platform needs:
 - ColPro air purification
 - Egress/Entry
 - Tentage Interface
 - Open Hatch operations
- Be the DOD wide recognized preferred provider of ColPro expertise for all mobile applications



Challenges/Needs

- **Flexible and efficient ColPro technology solutions for a wide range of mobile applications**
- **Reduced size, weight, and power requirements for Advanced CBRN filtration systems to make more attractive for mobile applications use**
- **Improved Egress/Entry and hatch cover technologies and techniques**
- **Establishing partnerships with industry/academia/others to develop innovative ColPro technology solutions**





Summary

- **Extensive knowledge base exists within the PD-MCPS regarding ColPro systems integration onto mobile platforms**
- **The PD-MCPS understands the life cycle**
- **Will tailor our support services to meet the Program Manager's needs**
- **The PD-MCPS is ready to assist, not hinder**
- **Need the best technology solutions for the warfighter**

