Reducing the Logistics Burden for Individual and Collective Protection

Joint Project Manager for Individual Protection and Collective Protection Industry Day

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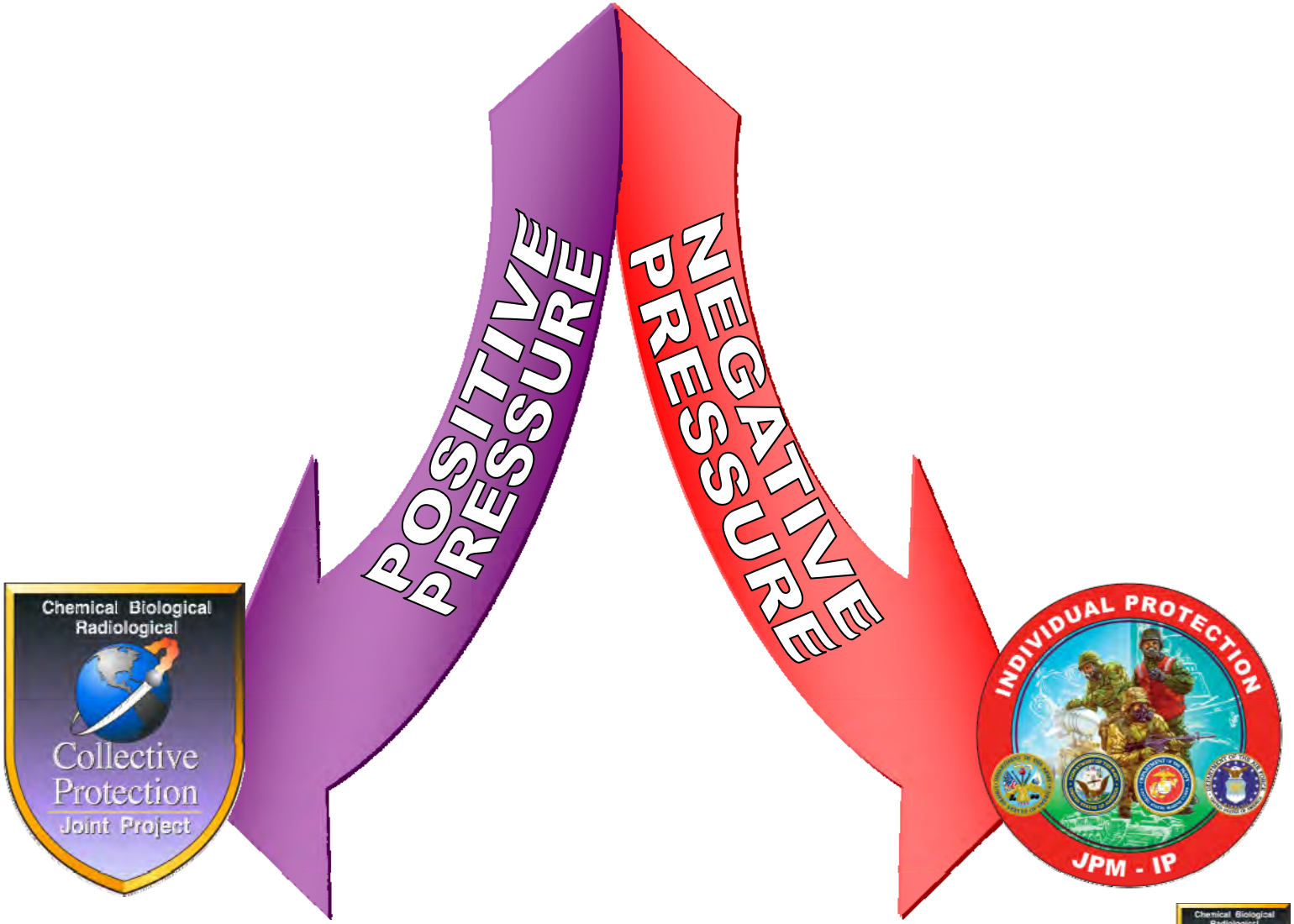
PURPOSE

- To discuss logistics issues associated with individual respiratory and collective protection through…

- Identifying Current Issues
- Considering Future Technology Sustainment
- Exploring Sustainment Trade-offs
- Reducing the Logistics Footprint
- Optimizing the Industrial Base

CURRENT STATE



WHAT'S CHANGED?

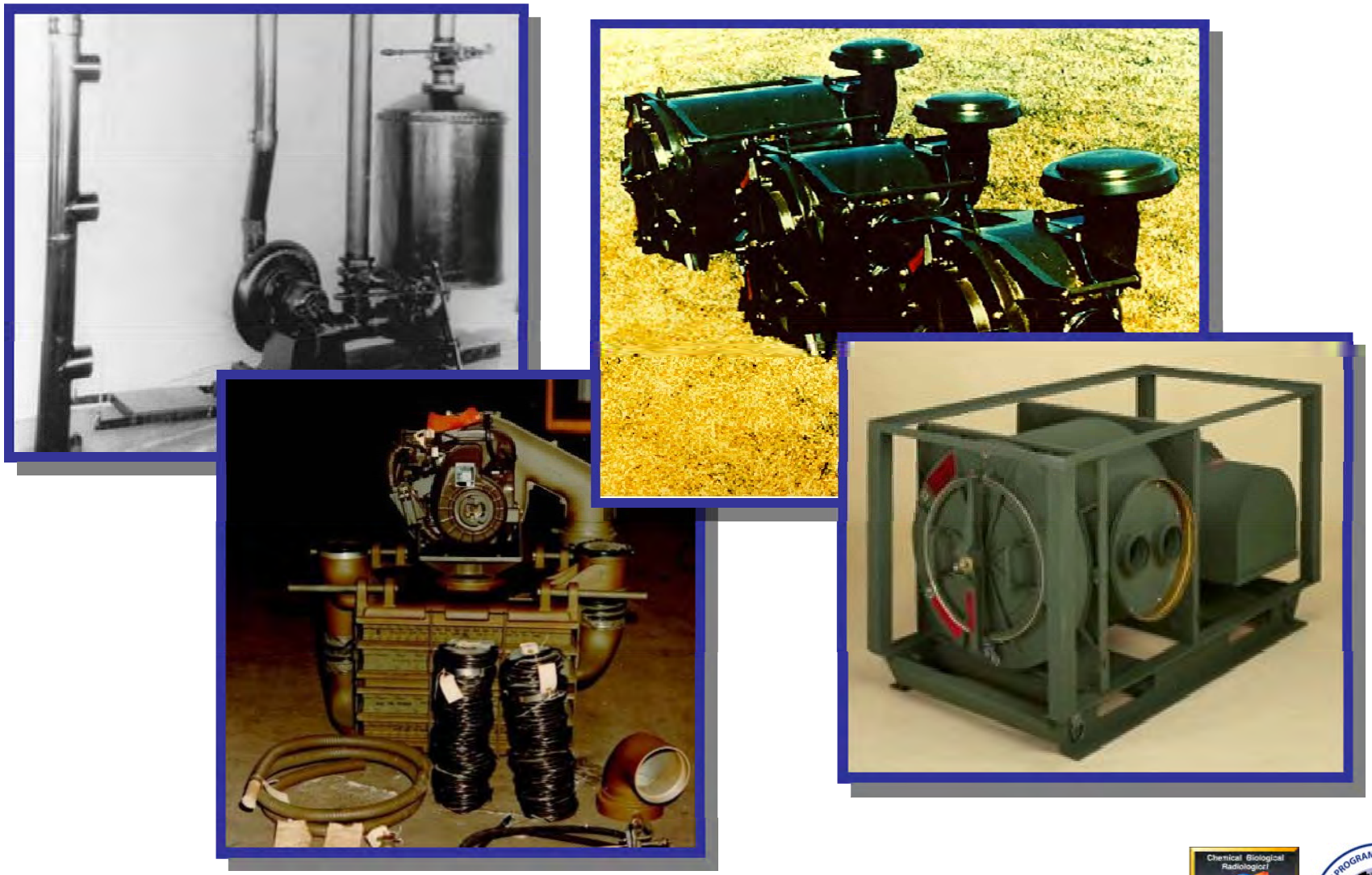
Today

CURRENT IP ISSUES

- Shelf Life…variable based on testing
- Wear Time…subjective based on environment
- Packaging, Marking, Asset Visibility
- Unique filters for unique threats
- Production
  - Quality
  - Sustainment/preservation

Increased Logistics Footprint

WHAT'S CHANGED?



CURRENT COLPRO ISSUES

- **Shelf Life Extension**
  - Cost of test to extend
  - Cost of items consumed in testing
  - Small lots not economical to test

- **Filter Life**
  - Differences in Concept of Operations precipitates different change-out criteria
  - Residual Life influenced by environment

COLPRO OUTLOOK

- **Performance Specifications**
  - Filters are transitioning to performance specifications
  - Opportunities to improve on legacy designs in packaging, marking, and transportation
- **Performance Based Logistics**
  - Business Case Analysis to be conducted within…
    - Chemically & Biologically Protective Shelter Program
    - Joint Expeditionary Collective Protection Program
    - Legacy Systems
  - Provide the optimal mix of Organic and Contractor support

FUTURE TECHNOLOGIES DESIRES AND CONCERNS

Desires

- Serviceability Indicators…Residual Life
- Reduction or elimination of special use filters
- Low cost durable packaging…package for recovery

Concerns

- Positive pressure…reliability & maintainability
- Integration issues…soldier as a system
- Power source…stand alone or integrated
- Disposal of new filter media
- Increase in logistics footprint

NEW TECHNOLOGY SUSTAINMENT

- New technologies will require new logistics support strategies
- Passive filtration technologies can draw on Individual Protection sustainment expertise with similar technologies
- Maintenance focused logistics vs. consumable item management
- Reusable filtration technologies may require trade-offs to sustainment support

SUSTAINMENT TRADE-OFFS

- Tradeoffs are usually focused between logistics and performance… what trade-offs exist WITHIN logistics to provide the best support to the warfighter?
- Modular Sustainment vs. Residual Life Indicators
  - Fixed change-out criteria
  - Change-out criteria based on indicators
- Shelf Life Testing vs. Disposal
  - Longer, non-renewable shelf life
  - Shorter, renewable shelf life
- Useful Life vs. Shelf Life
  - Balancing the investment to withstand field conditions with the ability to withstand storage

REDUCTION IN FOOTPRINT

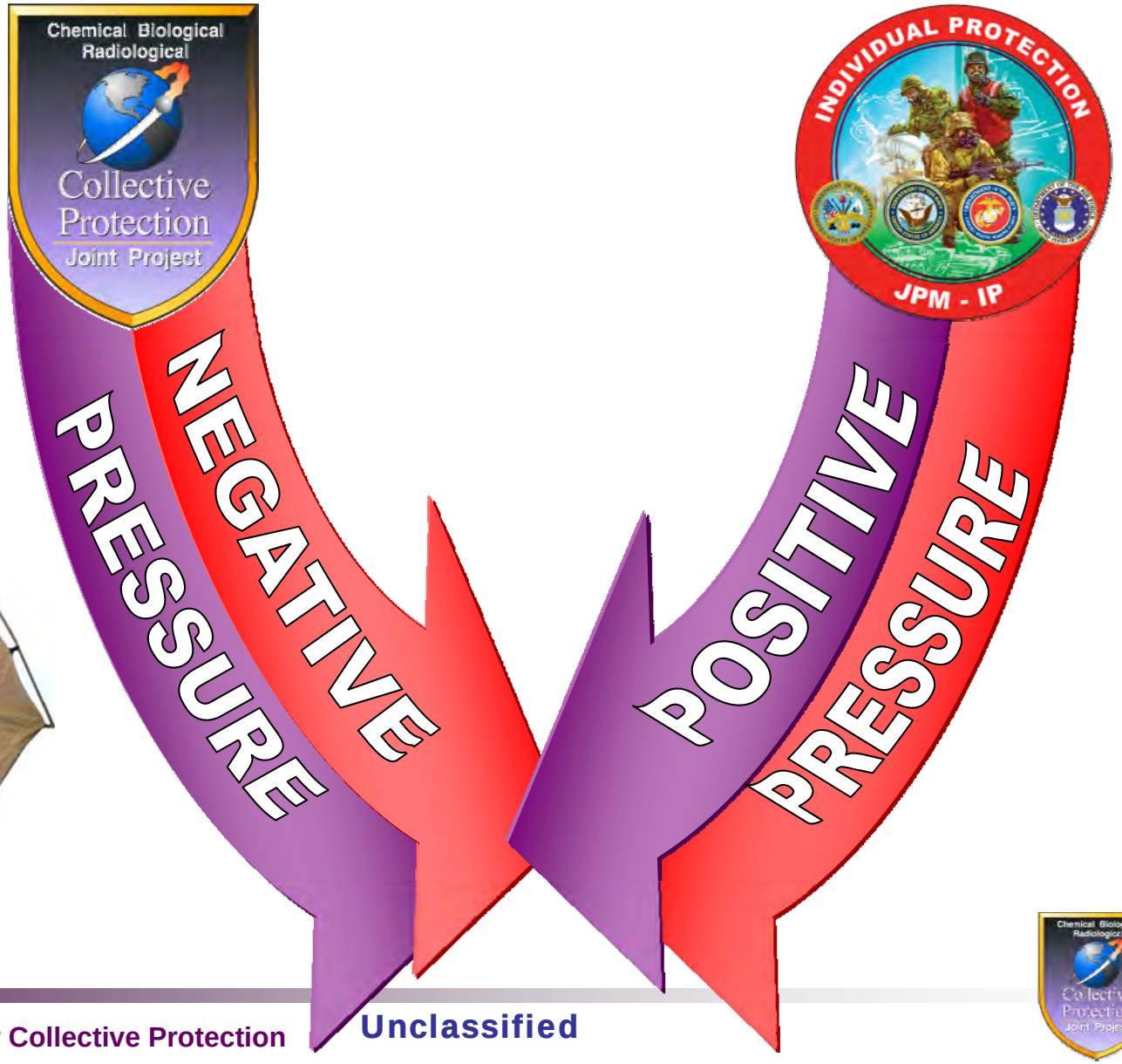
- **Small Changes have large effects.**

- **Large Issues have small solutions.**

INDUSTRIAL BASE

- **Survivable**
  - Creating an industrial base that functions during wartime and peacetime.
- **Responsive**
  - Minimize impact to the warfighter in large scale conflicts and small scale contingencies
- **Sustainable**
  - Mitigating single points of failure through public-private partnerships.

FUTURE STATE



CONCLUSION

- Current Logistics issues are not new
- Future technologies can address many of our current issues; however they present new logistics issues that will require new sustainment strategies
- Sustainment Trade-off Analysis provides valuable insight into the relationship of logistics elements associated with a given technology and allows for a balanced, best value sustainment strategy
- A survivable, responsive and sustainable Industrial base is critical in sustaining future technologies
- COLPRO and IP are exploring opportunities for collaboration on integrating new technologies

QUESTIONS?