Emerging Threats to One Health: Implications to National Security

National Security Entrepreneurship: Partnerships with the Private Sector
- The Role of Women Owned Businesses

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Systems Engineering Approach

- Data Collection
- Mission Performance
- Operational Data Collection
- Lessons Learned
- Test & Evaluation
- Product Development & Production
- Systems Engineering Approach
- Capabilities Improvement Needs
  - Definition
- Government
- Industry
- Analysis
- Prototype Development
- Performance Demonstration
- Critical Field Experiments
- Enabling Science & Technology
- Hypothesis, Concept Development Trade-offs & Critical Experiments
- Modeling and Simulations
- Data Collection
- Mission Performance Analysis
- Capability Assessment
- Concept Exploration
- Iterate
- Critical Needs
- Solution Validation
- Solution Implementation
- Deployment
- Operational Data Collection
- Lessons Learned
- Technology Knowledge Transfer
- Prototype Development
- Performance Demonstration
- Critical Field Experiments
Women Owned Business Opportunities

• National Security
  – Intelligence (Human, Communications, etc...)
  – Clearances Required

• Science and Technology

• Policy

• Federal Government Responsibility
  – Set Asides for Women Owned Small Business
  – Funding for large business support
Intellectual Property

• Intellectual Property (IP) refers to:
  – Human ideas
  – Exclusive rights to intangible assets

• Requires
  – Testing
  – Protection
  – Technology Transfer

• Protection of IP includes:
  – Copyrights
  – Trademarks
  – Patents
  – Trade Secrets
Technology Transfer

• Process of skill transferring, knowledge, technologies, methods of manufacturing, samples of manufacturing and facilities
  – Among governments and other institutions
  – Ensure scientific and technological developments are accessible to a wider range of users
  – Further develop and exploit the technology into new products, processes, applications, materials or services

• Technology brokers
  – Discover how to bridge the disparate worlds
  – Apply scientific concepts or processes to new situations or circumstances
Student Involvement

- Undergraduate and graduate students are often:
  - Source of new ideas
  - Educated through the technology transfer process
  - Intellectual property

- Curriculum development
Five Steps to Success

- Business Formation and Licensing
- Business Plan
- Mentoring and 8 (a or w) Certification
- Accounting and Taxes
- IP and Technology Transfer
THANK YOU!