

S&T Stakeholders Conference

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Human-Systems Research and Engineering

Sharla Rausch, Ph.D.
Human Factors Division Head
Science and Technology Directorate

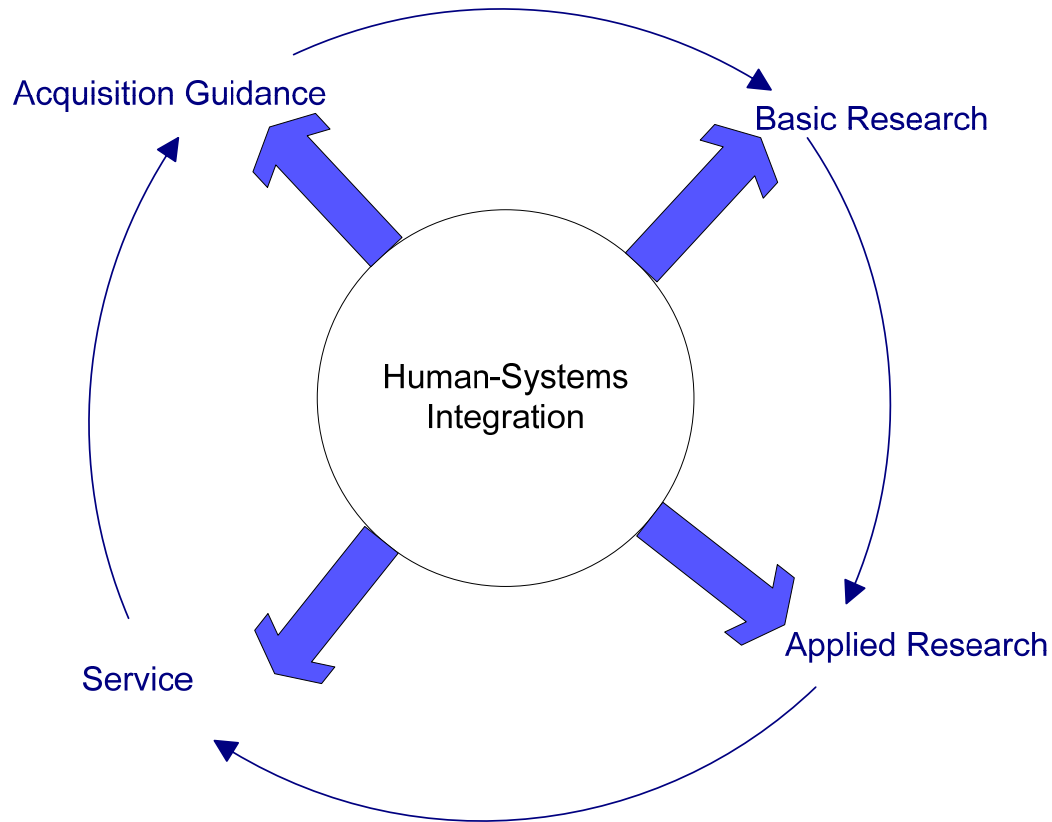
From Science and Technology... Security and Trust



Homeland Security



Human-System Research and Engineering Program Elements



HFD Goals

1. Enhance the capability to control movement of individuals into and out of the United States and its critical assets through accurate, timely, and easy-to-use biometric identification and credentialing validation tools.
2. Enhance safety, effectiveness, and usability of technology by systematically incorporating user and public input.
3. **Enhance the analytical capability of the Department to understand terrorist motivation, intent and behavior.**
4. Improve screening by providing a science-based capability to identify deceptive and suspicious behavior.
5. Mitigate impacts of catastrophic events by delivering capabilities that incorporate social, psychological and economic aspects of community preparedness, response and recovery.



Human-System Research & Engineering

- Design for *usability* – incorporate human factors research into technology development across science and technology divisions
- Design for public acceptance (e.g., Community Acceptance of Technology Panel)
- Maximize human factors expertise and resources through partnerships (e.g., Transportation Security Lab, NASA)
- Current program example
 - Developing a simple and effective multi-biometrics capability for diverse identification scenarios, such as border crossings, ports of entry, and visa application sites
 - TSL examples

Human factors research results in better system effectiveness and safety.



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