

# University Programs

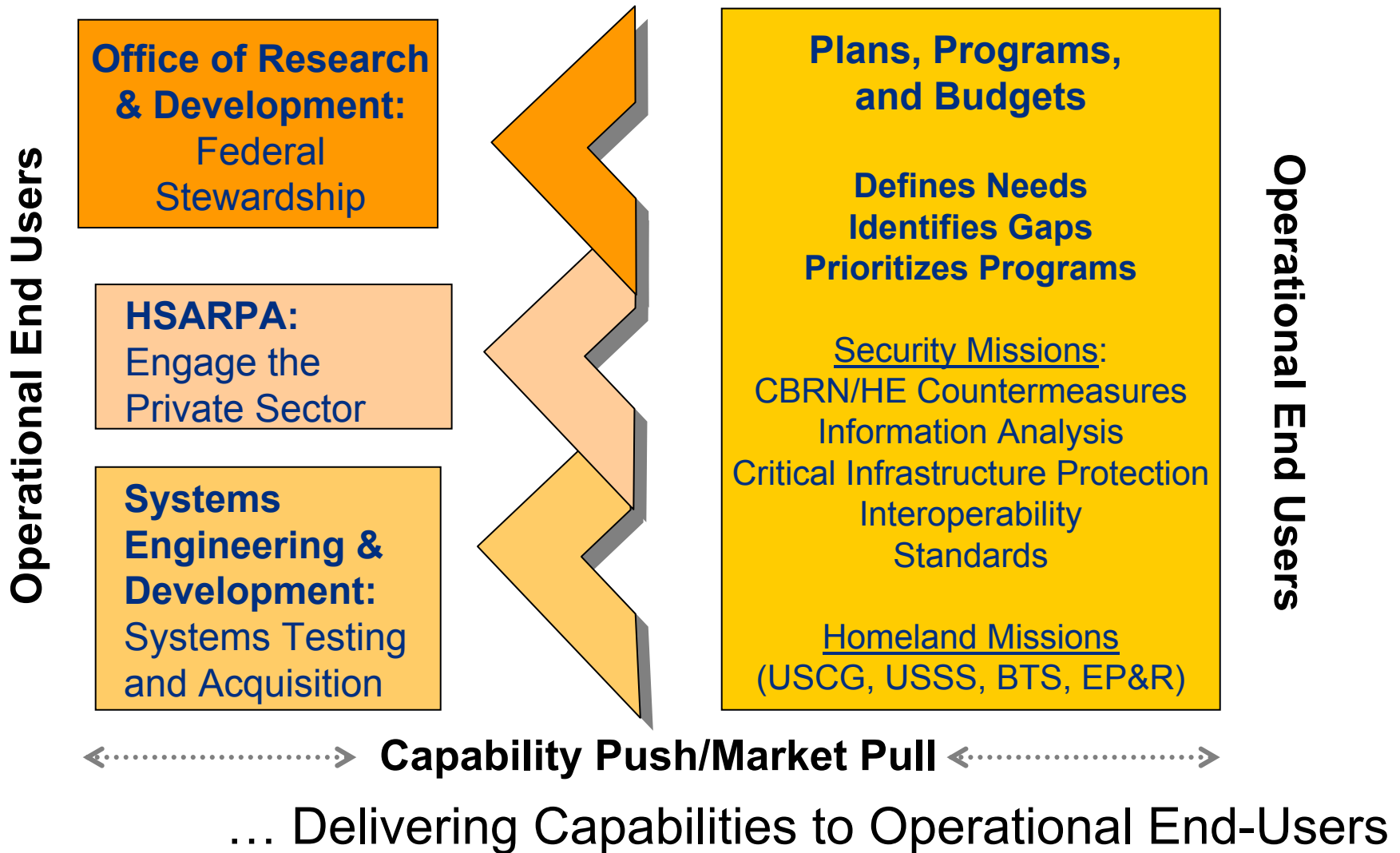
Scholarships, Fellowships, Centers of  
Excellence & Cooperative Programs

*Dr Mel Bernstein*

*Office of Research and Development*

*Science and Technology Directorate*

# S&T: RDT&E Execution



# Federal Stewardship



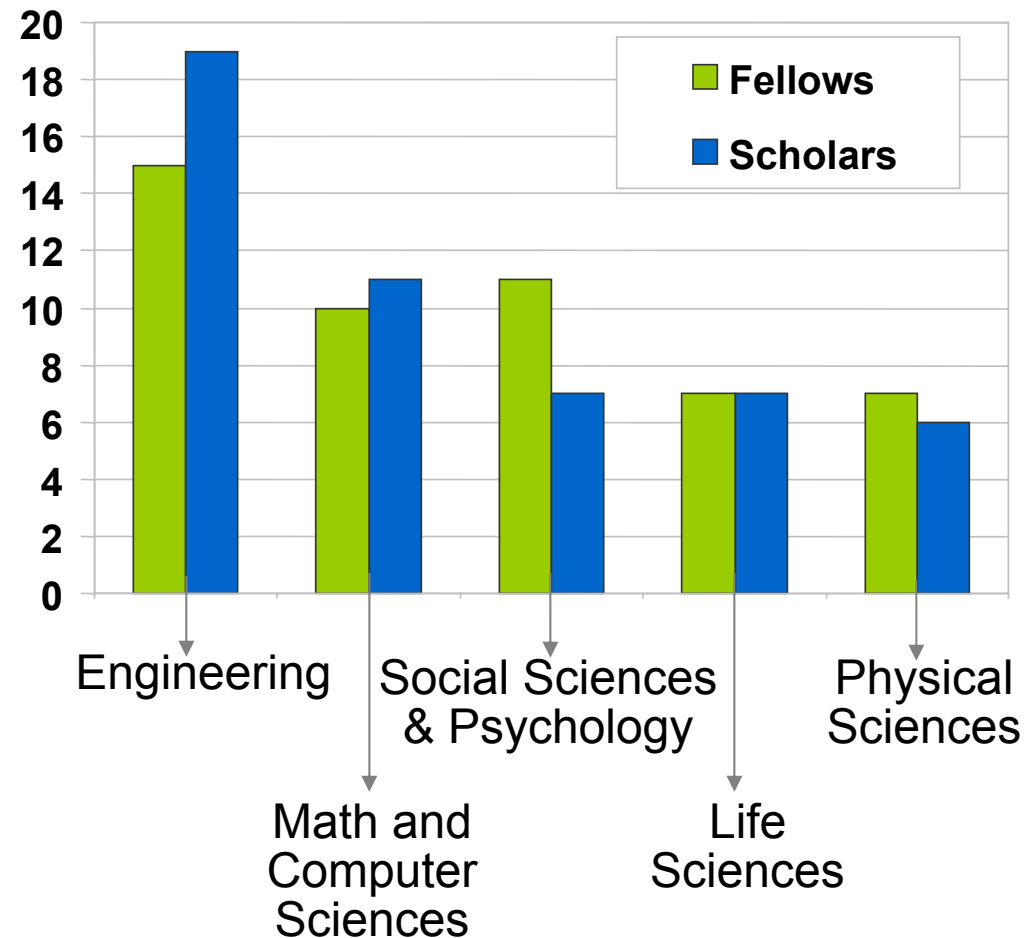
# People: Homeland Security Scholars & Fellows

## • 2003 Class

50 Scholars and 50 Fellows in engineering, math, computer science, social sciences, life and physical sciences

## • 2004 Class (2/19)

- New competition
- Quality internships
- Alumni network
- Post-doctoral program



# Building University Programs

- Link university capabilities with HS mission
- Ensure merit based selection process
- Encourage meaningful partnerships
- Build a model for collaboration between Centers
- Engage Undergrad., Grad students and Post Docs
- Link faculty and students to ongoing Nat'l and Fed'l lab research
- Coordination with other agencies

# Selecting An Academic Center

- Prioritize topics – informed by HS legislation
- Inform Universities of needs and goals
  - Mission orientation
  - Role of Partnerships
  - Network of Centers
- Develop merit review procedures: External area expert review + internal relevance review

# Risk Based Economic Modeling

- Developed tools to be available to future Centers
- Subject area addresses a clear and enabling priority
- Exploits university strength in interdisciplinary research
- Emphasizes shared roles of engineering, “hard” sciences and the social sciences
- Real potential to attract new disciplines and expertise to homeland security

# Selection Chronology

- Mid-August – Call for White Papers on Risk Based Economic Modeling – 72 received and reviewed by external and internal reviewers
- Early September – 12 invited to submit full proposals by early October and reviewed by external and internal reviewers
- Late October – Site visits to 4 institutions
- Early November – Recommendation forwarded for approval
- November 25 – Public and Federal Register announcement of USC as first Center of Excellence

# USC Proposal

- Demonstrated linkage with HS mission and flexibility to adapt to new areas of need
- Meaningful partnerships with U of Wisconsin-Madison, NYU, Berkeley and others
- Prior success in building collaborations between Centers on and off campus
- Clear plans for involving Undergrad, Grad students and Post Docs, and the use of distance learning for outreach
- Early, meaningful involvement of national labs, industry and state and local public safety agencies

# Possible Future HS-Centers

- **NEW BROAD AGENCY ANNOUNCEMENT**
  - Agro-terrorism countermeasures – addressing foreign animal diseases and food contamination (over 30 letters of intent-proposals due 2/9/04)
- **OTHERS UNDER CONSIDERATION\***
  - Response technologies and operations
  - Behavioral research on terrorism and countermeasures
  - Public health and safety technology transfer

\* NRC workshop to inform selection of future topics

# Educational Activities

- **Three areas: Public education; post-secondary & responder training.**
- Responder training has significant support but lacks coordination
- Public education recognized to be high priority but not yet effectively addressed
- Colleges & universities actively establishing HS courses, programs & degrees, with limited involvement of external constituencies

# Other Likely Initiatives

- Joint Programs With Other Agencies
- Security Related Curriculum Development
- Outreach Efforts (e.g. K-12; public education)
- Workshops and Conferences
- International Research and Education Linkages