ISRC Rationale

• Center leadership and advisors have significant intelligence and national security experience
  – Clearances; access to real community problems
  – Ability to translate and interpret IC problems for Mason, researchers, educators
  – Ability to consult individually with government sponsors

• ISRC formed and chartered to
  – coordinate university approaches to complex national security problems
  – create new, and enhance existing, collaborations and multi-disciplinary opportunities
ISRC Structure

• Recognized University Research Center
  – Element of Volgenau School of Information Technology and Engineering
    • Associated with Department of Applied Information Technology
      ➢ Origins in Document Forensics Laboratory

• Center Leadership and Advisors
  – Very senior former military and intelligence officials

• Center participants
  – Faculty, post-doctoral fellows, graduate students
  – University-wide
    • Engineering, Science, Liberal Arts
    • Other independent centers

• Operating Model
  – Teaming with prime contractors
  – Direct government contracts
ISRC Research Assets

- **Center for Secure Information Systems**
  - Network Attack Analysis; system vulnerability analysis
- **Department of Geography and Geoinformation**
  - Geospatial Intelligence Systems; Human terrain
- **C4I Center**
  - Battle Management Language; JIEDDO; Decision Support Systems
- **Document Forensics Laboratory**
  - Advanced mathematics and statistics; document analysis
- **Learning Agents Center**
  - Science of Evidence; Analytic Tradecraft
- **Electrical and Computer Engineering**
  - Telecommunications; wireless systems architecture/exploitation
- **Computer Science**
  - Exploitation of large databases; data mining; pattern recognition
- **Classical and Modern Languages**
  - Translation; cultural studies
- **Other organizations and individuals as required**
ISRC Activities

• Ongoing efforts
  – FBI – Statistics for Fingerprints
  – IC Agency – Document Forensics
  – NIJ – Statistical Evidence

• Pursuits in collaboration with industry (company not listed)
  – In work
    • IC Agency - Forensics
    • DOD – Language and contextual analysis
    • NGA – IT Systems, Geospatial
    • IC Agency – High Performance Computing, R&D Support
    • USMC – Cultural analysis, system development
    • USMC – Scientific and engineering support

• Pursuits directly with government
  – In discussion
    • NRO – Ground systems, virtualization, Security accreditation

• Pursuits with other universities
  – In discussion
    • Nuclear Forensics