Managing the Hybrid/IUCRC: Different Models, Different Challenges

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CITeR’s Multiuniversity Organization

**CITeR’s Scope:**
- Understand events in the envelope of human activity
- Enabling technologies for Identity Management
  - Human Biometric authentication and identification
  - Human credibility, deception detection

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**CITeR’s Multiuniversity Organization:**
- NSF CITeR
- WVU
- CITeR UA Site
- Clarkson
- UTenn
- St. Law
- UM-KC
- MSU
- U Miami
- UH
- Rutgers
- TSU
- U Chicago
- Rice
- OU

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The Center for Identification Technology Research
An NSF I/UCR Center advancing integrative biometrics research
Research Thrusts

- Vulnerability reduction
- Performance evaluation.
- Biometric Fusion, multibiometric systems.
- Biometric Modalities
- Socio-Legal/Policy Framework
Emerging Research Priorities

- **Surveillance applications**
  - Identification in non-ideal conditions
    - Night-time biometrics.
    - Fusion of all information sources.
  - Activity analysis.
  - Camera sensor networks, localization of processing.

- **Video-based Credibility Assessment**

- **System Level Design and Evaluation**
CITeR: I/UCRC Orthodox

• Cooperatively defined and funded research pool

~$800K/yr Center Membership Pool
Fund Supports Shared Research Portfolio

$50K/yr NSF I/UCRC

Industry:
- Shared IP, Royalty-free licensing.
- Opportunity for exclusive license

Government:
- MIPR ability
- March-in rights
Impact of Federal Membership

- Membership Stability: Agency and People
- Strong buy-in to Cooperative Operation
  - Longer term, capacity building perspective
  - Leveraging is highly sought after
- Federal – Industry Member Dynamic
- MIPRs
  - Enabling – Grant-like, not contract. Unified fund treatment from many sources
  - Agency - NSF handoff, accounting
Building on I/UCRC Orthodoxy

- Augmenting federal funding for shared portfolio
- Extra-portfolio projects – leveraging & feedback

Center Research

Shared, Cooperatively defined and funded research portfolio projects

IUCRC

Center Funding

Membership Pool

- Industry
- Federal

MIPR’d through NSF IUCRC Award

Direct Award/Contract or MIPR’d through NSF (OH bearing)

Awards based on IUCRC project outcomes (synergistic with current efforts)

Cert. Project Management
Leveraging CITeR’s I/UCRC Core: Center Activity

- DHS COE in Border Security and Immigration
  - Multiple University Collaborators on the northern and southern U.S. borders
  - University of Arizona is lead. $18 million over 6 years; renewal for 6 additional years
Leveraging CITeR’s I/UCRC Core: Center Activity

- FBI Biometrics Center of Excellence (CoE)
  - Serve FBI needs and those of its cooperating agencies for next generation systems.
  - WVU serves as CoE Academic Lead and portal.
CITeR’s Research Transition Center

- Cooperative definition and funding of projects by “Transition Assessment Group”

- Distilled from IUCRC project portfolio

Activities involve active interface between academic, gov and industry personnel.

Membership $ Pool
industry federal fed

Transition $ Pool
industry federal

Direct Award/Contract or MIPR’d, (OH bearing)

MIPR’d through NSF IUCRC Award

Cert. Project Management

Center Research

Center Funding

Shared, Cooperatively defined and funded research portfolio projects
## Summary and Best Practices

- Federal agencies make excellent IUCRC members
  - Know your community/member dynamic
  - Relationship Management

- With larger agency commitment comes need for ….  
  - Agency identity and control.
  - Balance with cooperative element of an IUCRC
  - Careful consideration of new/added structure’s impact, value, return to base IUCRC

- Program Management
  - *Program Management by a PMP key to government program interaction*

- Build on the cooperation and healthy dynamic in your center that is working.