

# Panel: CICI Regional Collaboration Projects – *Impact and Tales of Transition to Practice*

NSF CC\* and CICI PI Workshop  
September 25, 2018

NSF CICI: Regional:  
***SAC-PA: Towards  
Security Assured  
Cyberinfrastructure in  
Pennsylvania***



University of Pittsburgh  
School of Computing  
and Information



Pitt  
Information Technology



# NSF Program: CICI: Regional

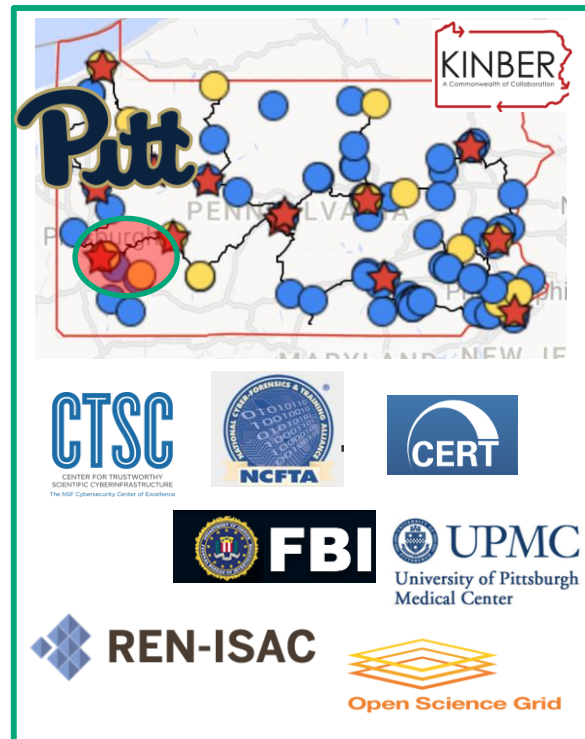
## SAC-PA: Towards Security Assured Cyberinfrastructure in Pennsylvania

### Approach:

- Bring together PA campus CI-practitioners (KINBER members) and IT security organizations in the region.
- Introduce the significant IT security resources in the region (supply) to the CI-needs in the scientific community (demand)
- Promote collaboration, trade, and awareness among participants

### Deliverables:

- Three workshops in Pittsburgh
- Collaboration framework to sustain and engage in promotion of security-assured cyberinfrastructure in the region.



### Broader Impact:

- Smaller schools attending the workshops will better understand how they can get help and support.
- Common language. Incentive structure. Motivators. Risk/Reward tolerances.
- Is conducting science-IT different?
- Consumers <- tuned in -> providers

### Metadata tags:

- <http://www.sis.pitt.edu/lersais/research/sac-pa/> <project url>
- First workshop held in June 2017 – 50 participants
- #sac-pa
- Next workshop – Feb 2018
- Next topics to include deeper dive into topics specific to scientific support on campuses

Award# 1642117

PI: J. Joshi

CoPI: B. Stengel, B. Palanisamy, D. Tipper, M. Spring

# SAC-PA Project Objectives

- Establish a regional collaboration and partnership framework, SAC-PA, within the state of Pennsylvania
  - Provide critical support to smaller academic institutions (schools and colleges, etc.), including resource constrained regional institutions that serve under-represented groups
  - Enable concerted activities to promote the use of effective cybersecurity techniques and practice of security-assured cyberinfrastructure.



SAC-PA will provide a regional cybersecurity collaboration and partnership model that can be adopted by other regions, or be extended for national level collaborations.

# Key Tasks:

- **Task 1:** Develop and Deliver Regional Workshops for Cybersecurity
  - 3 workshops in Pittsburgh area

## Goals:

- **Understanding** of CI resources and Cybersecurity capabilities, & challenges
- **Understand/Explore** existing/emerging cybersecurity challenges and solutions
- **Towards Developing** regional collaboration and partnership



## SAC-PA 1 Workshop (June, 2017)

- Identify regional resources related to cyberinfrastructure & cybersecurity that relates to the scientific research community
- Presentations and discussion on cybersecurity challenges to the scientific research community
- . . . .

## SAC-PA 2 Workshop (June, 2018)

- Cybersecurity Research to Practice
- Cybersecurity Tools and Techniques
- Security Standards, Best Practices, etc.

## SAC-PA 3 Workshop (**Expected in Feb/March 2019**)

- Delivery of training/tutorial modules developed
- Research, tools and techniques

**SAC-PA1 Workshop:** <http://www.sis.pitt.edu/lersais/research/sac-pa/ws1/index.html>

**SAC-PA2 Workshop:** <http://www.sis.pitt.edu/lersais/research/sac-pa/ws2/index.html>

**SAC-PA Project page:** <http://www.sis.pitt.edu/lersais/research/sac-pa/index.html>

# Key Tasks:

## Ongoing Task 2 & 3:

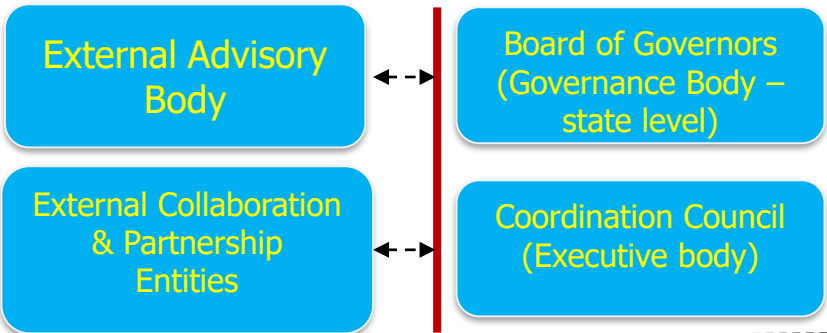
- **Task 2:** Collaboratively Develop Training/Awareness Materials

Develop and share cybersecurity training and awareness materials based on the needs and capabilities identified in the workshops

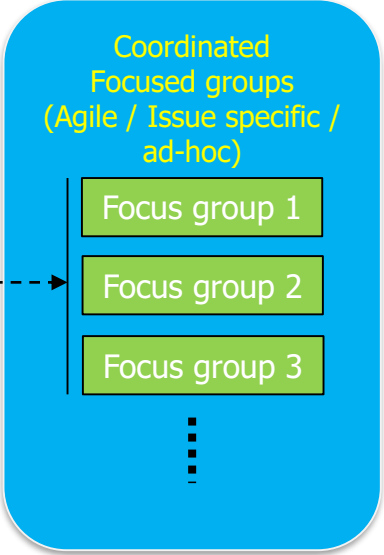


- **Task 3:** Establish Regional Partnerships and a Shared Repository of Cybersecurity Resources/Capabilities.





- Research & Development
- Cyber operation/forensics
- Security Management/ standards / Best practices
- Law, Policy, Ethics
- Research data curation
- High Performance/Super computing
- Cyber threats/intelligence analysis
- Cybercrime, IP
- SETA (e.g., CAEs)
- .....



Coordinate, Facilitate collaboration

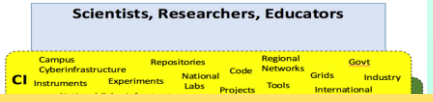


Broader representation; Elected/Selected

### Key Stakeholders

Any entity engaged in Cybersecurity or Cyberinfrastructure related to research and education – as solution providers, facilitators, users, customers etc.

- Universities, Colleges, Schools
  - IT departments
  - Cybersecurity and CI researchers/users/providers
- Research Centers/Labs and Institutes (e.g., PSC)
- Public, non-profit entities (e.g., NCFTA)
- Government entities (e.g., FBI)
- Private sector (e.g., ??)



**Transition to Practice:** through the establishment of SAC-PA Collaboration & Partnership Framework

