

# Technology Transfer To Practice

## SATC TTP

Alec Yasinsac

TTP@southalabama.edu

<http://soc.southalabama.edu/TTP/>

12/5/2016

School of Computing  
University of South Alabama



# Goals of This Presentation

1. **Attract submissions to apply to the NSF SATC solicitation under the TTP designation**
2. Familiarize PIs with TTP basics
3. Introduce TTP Ecosystem services
4. Solicit PI contact information and feedback
5. Solicit potential mentor contact information
6. Solicit potential industry partner contact info



# Acknowledgments

- Program Officer: Anita Nikolich
- National Science Foundation, ACI, “ Transitioning Funded Research Outcomes to Practice: Barriers, Opportunities, and Challenges ”, NSF 1503654, Aug 2014-Nov 2015
- National Science Foundation, ACI, Cyber Security Transition to Practice Workshop #2: Creating a TTP Roadmap”, NSF 1550544, Jul 2015-Jun 2016
- “A Principal Investigator’s Guide to Transferring Cybersecurity Technology to Practice (TTP)”, Rebecca Bace and Alec Yasinsac, Ph.D., University of South Alabama,  
[www.southalabama.edu/colleges/soc/research/resources/guidetotransferringtechnologytopractice.pdf](http://www.southalabama.edu/colleges/soc/research/resources/guidetotransferringtechnologytopractice.pdf)
- National Science Foundation, ACI, “EAGER: Creating a TTP Ecosystem Discovery and Support Resource for Cybersecurity Technology Transfer to Practice”, NSF 1636470, Aug 2016-Jul 2017, \$199,902



# Presentation Outline

- 1. TTP Overview**
- 2. SATC TTP Designation**
- 3. The Case for TTP**
- 4. TTP Ecosystem**



# TTP Defined

**For our purposes, Technology Transfer to Practice (TTP) is:**

The process of implementing an academic research result into operation in industry, government, or academia



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# TTP Further Defined

TTP involves the following three activities:

1. Producing a discernable outcome from federally funded, transformative research;
2. Establishing intellectual property protection for the outcome;
3. Delivering the outcome to productive use by society.



# TTP forms

- Start up
- Licensure
- Spin off
- Free distribution
- Informal TTP





# NSF SATC

## NSF 17-576

# TTP Designation



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# NSF-SATC TTP Designation

- Component of the regular SATC solicitation
- Transition existing research results to practice



# SATC TTP Designation

- TTP Designation objective:
  - Support the development, implementation, and deployment of later-stage and applied security research into an operational environment.
- The operational environment can be:
  - Commercial, Government, Academia



# SATC TTP Designation

- A Successful TTP-designated proposal should:
  - Have a well-defined user group
  - Include an industry partner as an early adopter
  - Have a solid, well-rounded project team
  - Show a good relationship with University TTO
  - Have a sound software development strategy
  - Present a convincing sustainability plan



# NSF-SATC

## Funding & Duration

- MEDIUM Projects
  - 4 years
  - \$501,000 - \$1,200,000
- SMALL Projects
  - 3 years
  - Up to \$500,000



# NSF-SATC

## Submission Deadlines

- **MEDIUM** Projects
  - October 3, 2017 -  
**October 10, 2017**
- **SMALL** Projects
  - November 01, 2017 -  
**November 15, 2017**



# TTP Stats

- 2017
    - 29 submissions
    - 5 awards
  - 2016
    - 16 submissions
    - 5 awards
- Andrei Lapets, Boston U
  - Di, U of Arkansas
  - Bellovin and Nieh, Columbia U
  - Uluagac, Florida Int'l U
  - Saxena, U Alabama Birmingham
- Ari Juels, Cornell
  - Mingyan Liu, U Michigan
  - Dingledine, The Tor Project
  - Sion Stonybrook U
  - Rasin DePaul U



# NSF SATC TTP Ecosystem





# TTP Ecosystem Services

- TTP Familiarization for Investigators
- Match-making
- Activities to identify prospective TTP-interested investigators;
- TTP training services for NSF PIs;
- Establishment of a TTP mentoring service for NSF/SATC PIs and prospective PIs;
- Development and implementation of a “Best TTP Practices” repository;



# Mentorship Service

- Bull pen of experts with TTP experience
- Low/no cost to NSF Awardees
- Topics
  - Lean startup
  - Market analysis
  - IP
  - Staffing
  - Finance
  - Etc.



# Special Interest Groups

- Virtual Peer Group
  - Sign up today
- Listserv
- Tips & Tricks
- FAQ
- Success stories
- Upcoming events



# Please Sign Up!

- Investigators' mailing list
- Mentors
- Industry partners
  
- Sign up forms here
- On the web  
([soc.southalabama.edu/TTP/](http://soc.southalabama.edu/TTP/))



# Questions?

Alec Yasinsac

The University of South Alabama  
School of Computing

[ttp@southalabama.edu](mailto:ttp@southalabama.edu)

<http://soc.southalabama.edu/TTP/>

Contact: Alec Yasinsac  
(251) 460-6390  
[ttp@southalabama.edu](mailto:ttp@southalabama.edu)

