

# TRANSITIONING TO PRACTICE – LEVERAGING NSF TTP

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# Technology Transfer To Practice

## SATC TTP

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# 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



# 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



# Why NSF-SATC TTP Designation

It is funding

It is substantial funding

It is NSF funding

Give up no equity



# 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 Small Projects

- 3 years
- Up to \$500,000
- November 01-15, 2017



# NSF-SATC Medium Projects

- 4 years
- \$501,000 - \$1,200,000
- ~~October 4-10, 2017~~  
(Target next year)



# 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
  - Andrei Lapets, Boston U
  - Di, U of Arkansas
  - Bellovin and Nieh, Columbia U
  - Uluagac, Florida Int'l U
  - Saxena, U Alabama Birmingham
- 2016
  - 16 submissions
  - 5 awards
  - Ari Juels, Cornell
  - Mingyan Liu, U Michigan
  - Dingedine, 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;



# Becky Bace

## 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/))

