

# Technology Transfer To Practice

## Introduction and Overview

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# Acknowledgments

- NSF Program Directors: Rob Beverly, Kevin Thompson, Anita Nikolich
- Trusted Cyberinfrastructure: Von Welch
- 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

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

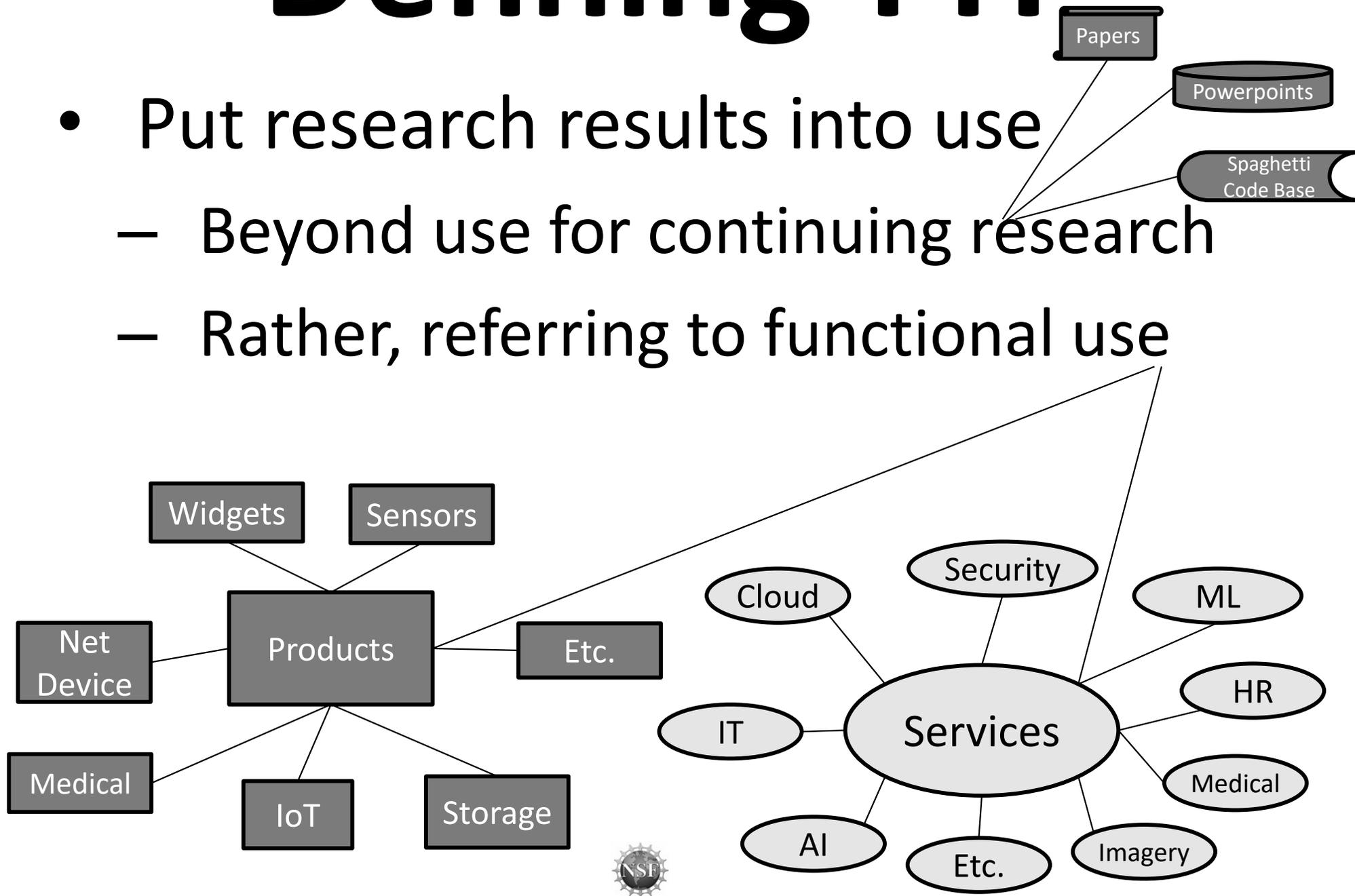


# Reflections of Becky



# Defining TTP

- Put research results into use
  - Beyond use for continuing research
  - Rather, referring to functional use



# Which form of TTP?

- Informal
  - TTP in the small
  - Free distribution
  - Consulting
  - Local industry
  - Etc.
- Formal
  - TTP in the large
  - Licensure
  - Spin off
  - Start up
  - Etc.
- On your own?
- You'll need help

"Over lunch"  
example



# A Local Industry Approach

## Academic Software Development Teams

- 1-3 MS Students\*
- 1-4 upper level UGs
- 1-2 lower level UGs\*\*
- Non-tenure track supervisor

\*Must pay tuition



\*\* Dirt cheap

# Academic Software Development Teams

## Pro Forma Annual Budget

- Students (1/4): \$ 60k
- Instructor: \$ 20k
- Overhead: \$ 30k
- Annual cost: \$110k



# Academic Software Development Team Management

- Run from our center
- Template contracts
- Manageable oversight
- Center director does marketing
  - Virtually no faculty-driven partners
- Facilitates IUCRC



Research =>  
Development

Production  
Environment

# Formal TTP

Polished  
Product

## 1. Technology

Sustainable  
Operations

Business Plan

## 2. Business:

Marketing

Funding

Risk  
Management

Contracts

## 3. Legal

IP Protection

Liability

Etc, etc, etc,  
etc, etc...

Build and retain  
the team

## 4. HR



# Getting TTP Help

- University TTP Offices
- NSF and USA
- Other Federal Agencies
- A2E

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

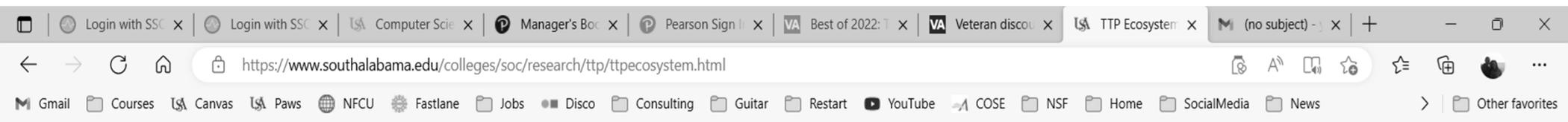


# University Tech Transfer

- Usually under the VP for Research
- Their goal is to promote innovation, but by my experience is that their first priority is: Protect the university
- That means:
  - #1: protecting against liability
  - #2: protecting IP
- They also probably provide some “incubator” services, e.g.
  - IP assistance
  - Office space
  - Pooled administrative staff
  - Mailing address
  - Etc



# USA TTP Resources Website



- About ▾
- Students ▾
- Parents ▾
- Alumni ▾
- Academics ▾
- Research ▾
- Athletics ▾

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[TTP Home](#)

[TTP Resources](#)

[Becky Bace Mentoring Program](#)

[NSF SaTC](#)

School of Computing  
University of South Alabama  
150 Student Services Drive, Suite 2101  
Mobile, AL 36688  
Ph: (251) 460-6390  
Fax: (251) 460-7274

## TTP Ecosystem

*Creating a TTP Ecosystem Discovery and Support Resource for Cybersecurity  
Technology Transfer to Practice*

### Resources

[Becky Bace Mentoring Program](#)

[Guidebook for TTP PIs](#)

[NSF Secure and Trustworthy Cyberspace \(SaTC\)](#)

[TTP FAQ](#)

[SATC PI Meeting Booklet](#)

[TTP Discovery & Support Resource Registration](#)

### Workshops

[Workshop1 : February 25-26,2015](#)

[Workshop2 : November 4-5,2015](#)

[Workshop3 : April 11-12,2018](#)

Transition to use is a stated priority of the National Science and Technology Council's subcommittee on Network and Information Technology Research Development (NITRD), recognizing the need to use funded research through its transition

# NSF TTP Resources

- This project
- iCorps
- SBIR
- STTR
- IUCRC
- Convergence Accelerators
- Core programs
- Etc.



# Questions?

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