Technology Transfer to Practice in Cyber Security Workshop

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The Goal

- The core problem is that "...that there remains a body of interesting security work that *could* be part of tech transfer, but isn't."   - Anita Nikolich

- What can we do to:

  – Get more NSF Funded projects into the TTP Pipeline?

  – Help NSF Funded Projects that enter the TTP Pipeline to be successful?

Underlying Premise & Question

- NSF does not want to fundamentally change the types of projects that they fund, i.e., they are happy with the distribution of basic-applied research

- Are there ways to change the way projects are solicited, funded, and managed that can lead to a higher TTP impact?
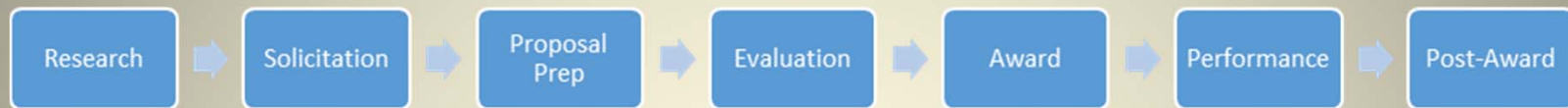
A Model for Assessing NSF TTP

- The NSF Project Pipeline

- The TTP Pipeline

- A set of Interventions

The NSF Project Pipeline

Research → Solicitation → Proposal Prep → Evaluation → Award → Performance → Post-Award

- Research
- Solicitation
- Proposal
- Evaluation

- Award
- Performance
- Post performance

A Few Project Pipeline Interventions

- TTP Process
  - Promotion
  - Networking
  - Financial incentives
  - Patent funding
  - Legal services
  - Consulting services
  - Required components

- PI
  - Familiarization
  - Training

- Post performance
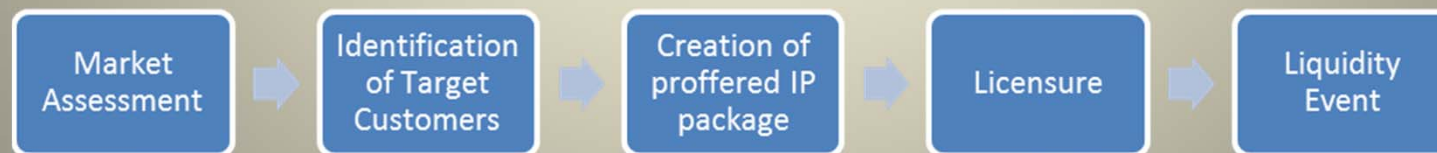
The TTP Pipeline

- Generic

Research → Pre-disclosure → Invention Disclosure → Assessment → Protection

- Dynamic Market

Market Assessment → Team formation → Business planning/formation → Financing → Execution → Growth → Liquidity event

- Open source

Market Assessment → Team formation → Financing → Execution → Release of code/findings → Support Organization

- Mature market

Market Assessment → Identification of Target Customers → Creation of proffered IP package → Licensure → Liquidity Event

Summary

- The goal is to get NSF projects into and out of the TTP Pipeline

- We consider some types of interventions and when they may be applied in the NSF Project Pipeline

Questions?

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