



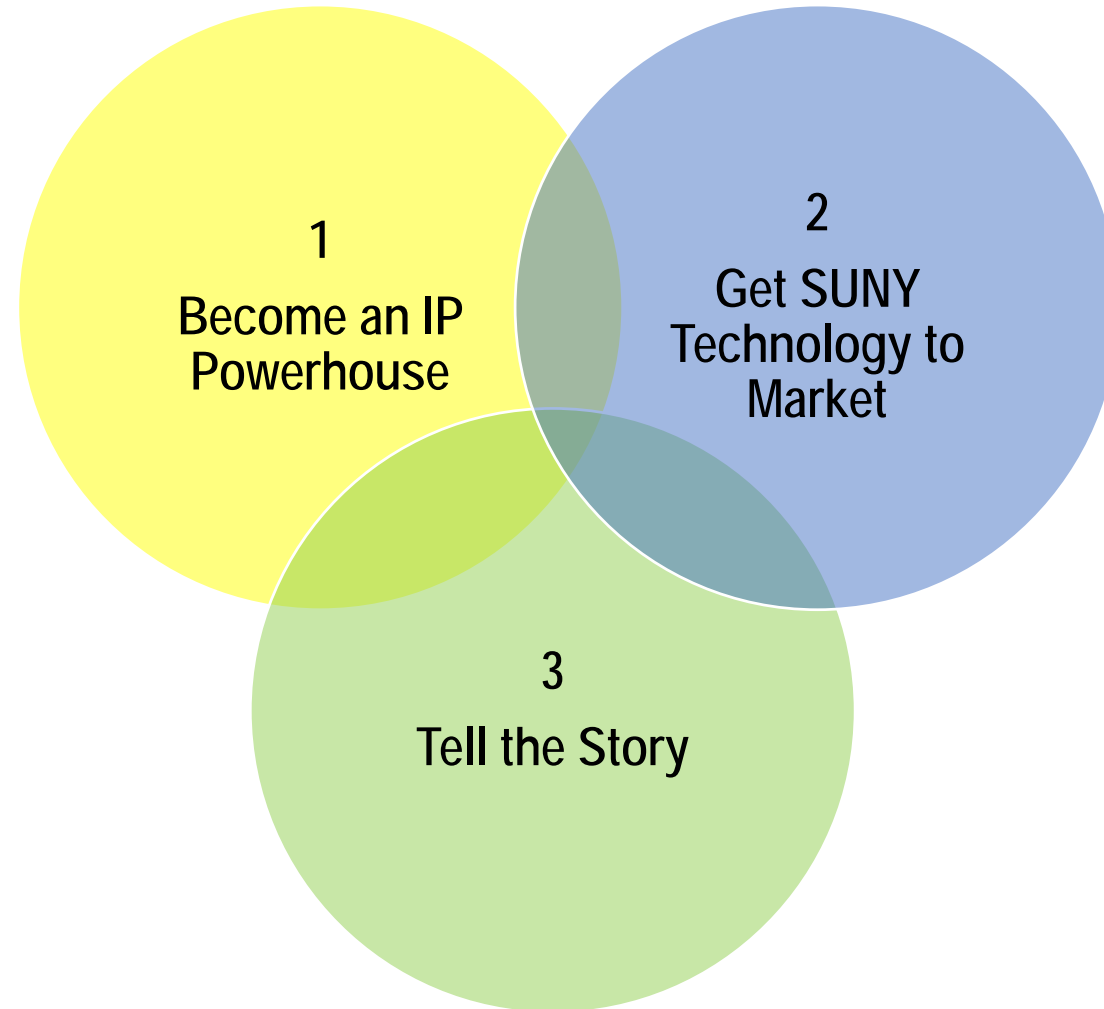
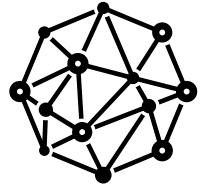
SUNY RF



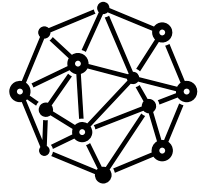
industry and  
external affairs



# IEA Departmental Goals



# Innovation & Partnerships



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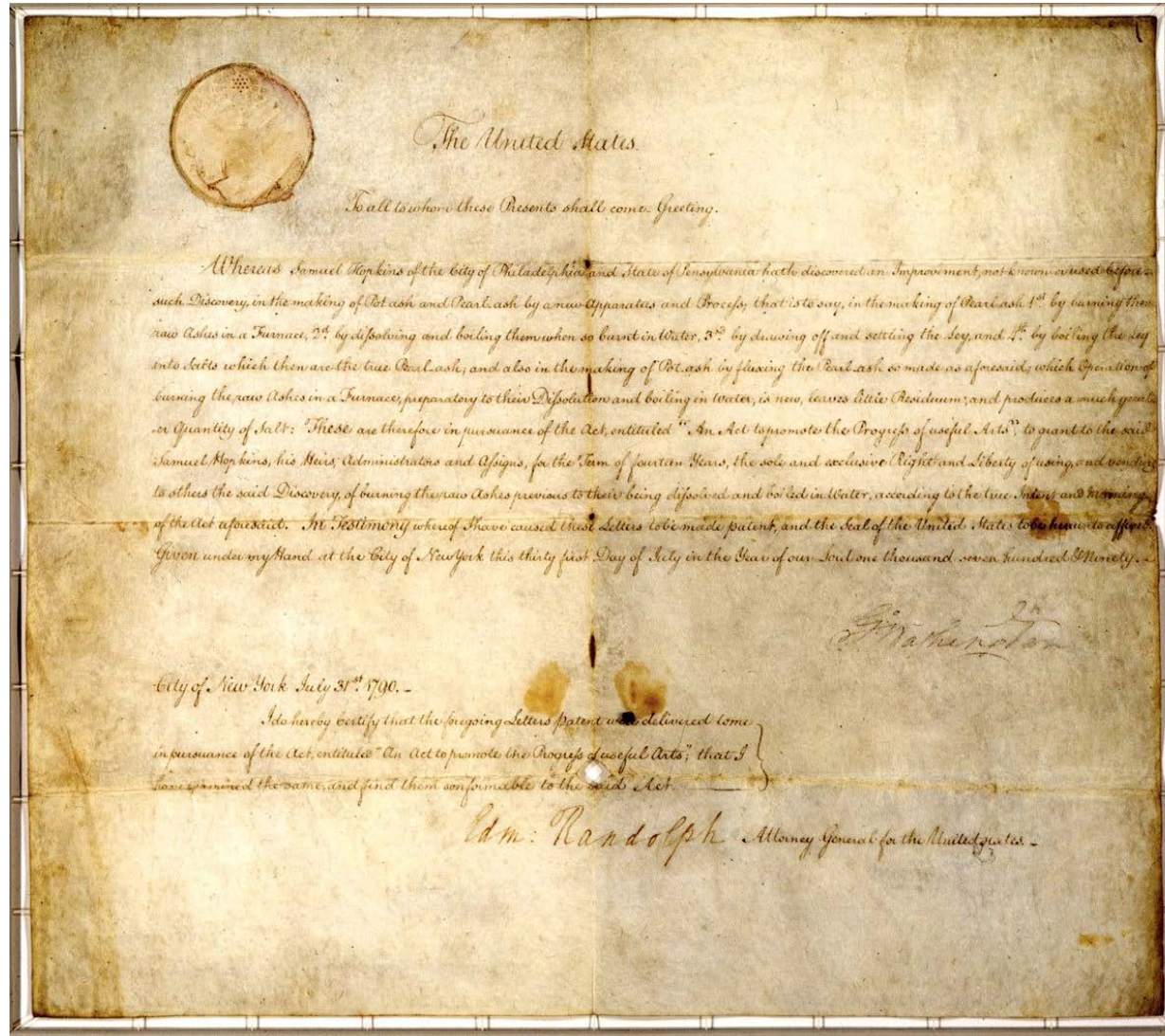


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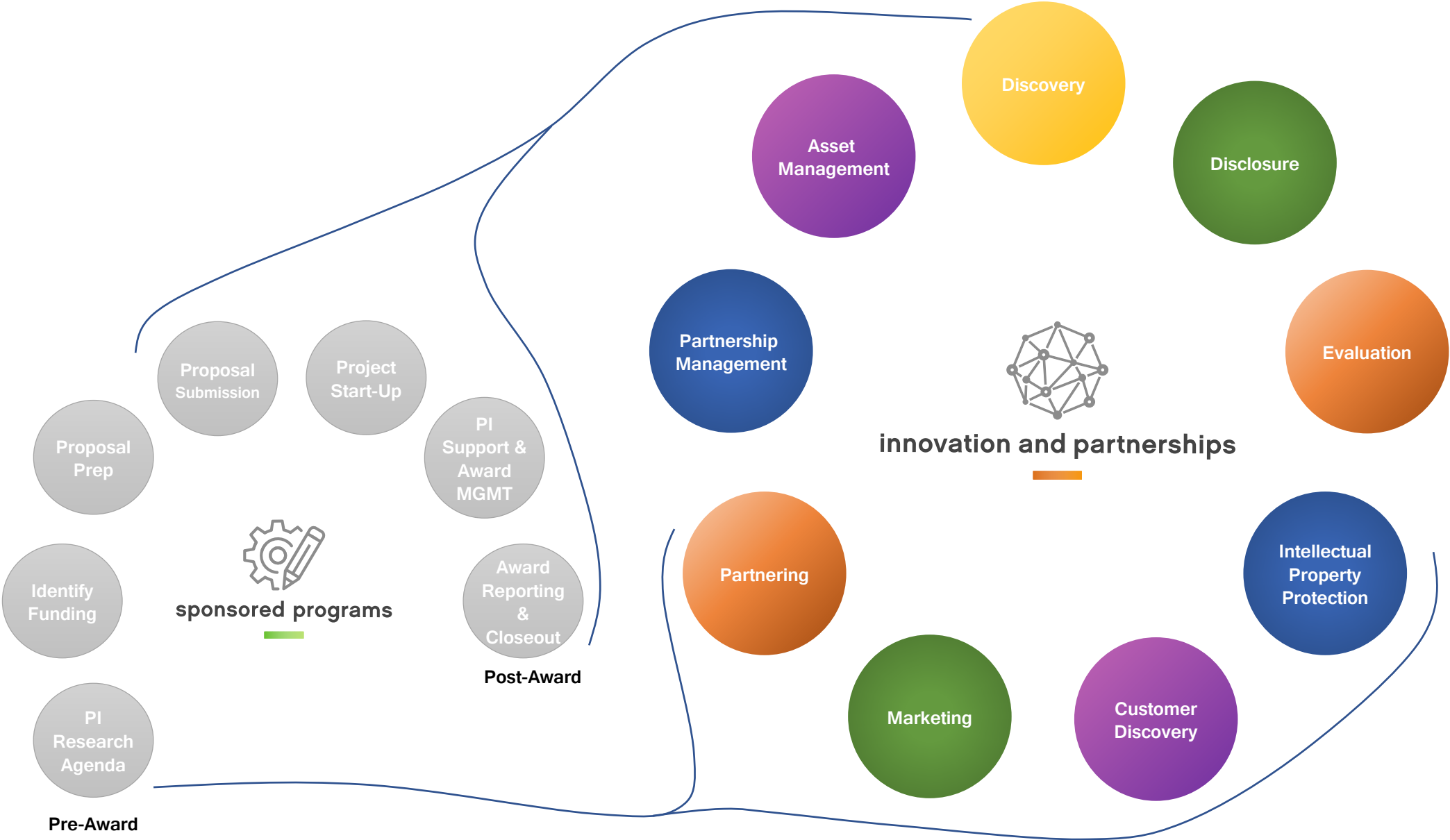
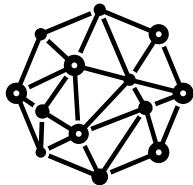
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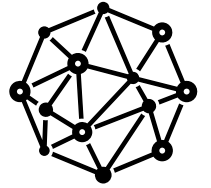
# Patents, Bayh-Dole and the Origin of US Tech Transfer





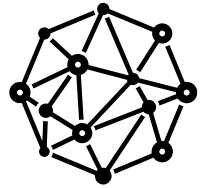
# Technology Transfer Life Cycle





**It all starts with our SUNY Inventors**

Disclosure



## [SUNY Inventor Portal](#)



### Login to Inventor Portal

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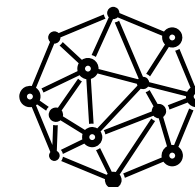
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# Disclosure



## Disclosure

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Portal ID:

2021/002-DFT

Disclosure Title:

Test Title 1

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### Draft

This disclosure is in draft status. When you are finished editing, Submit the disclosure for administrator review using the button below.

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Submit for Review

### Campus Location

Campus Location

Select the name of the SUNY campus where you developed the innovation (if more than one inventor/location, select the primary campus of the lead inventor).

### PLEASE BE ADVISED

Public disclosure prior to patent application filing in the U.S. Patent & Trademark Office may jeopardize foreign patent rights.

Rights are jeopardized even if the publication is electronic (i.e. websites or email) and even when the presentation is not accompanied by slides or handouts. Please submit your disclosure at least one month before submitting manuscripts, abstracts, etc. that are related to your innovation. Please describe ALL public disclosures of the innovation in the Public Disclosure section.

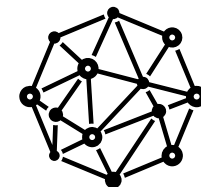


# Disclosure

## Description of Innovation

What kind of innovation are you disclosing?

Please select the closest description to the innovation you are disclosing. If you are uncertain which to choose, please contact us at [patents@rfsuny.org](mailto:patents@rfsuny.org) to request guidance.



Please respond to each item with as much information as possible. \*

### A) Detailed Description of the Innovation \*

Please provide a detailed summary of the innovation. Identify clearly what you consider your innovation to be, including materials/methods used, operation, and utility, focusing on unique features that distinguish it from existing intellectual property/technologies. Describe in such detail as to enable a person skilled in the art to make and use the innovation. SUBMIT PICTURES, CODE, DATA TABLES, MANUSCRIPTS, NUCLEOTIDE/AMINO ACID SEQUENCES, ETC., AS APPLICABLE, UNDER DOCUMENTS SECTION, BELOW.

### B) Problem Solved or Need Addressed by the Innovation \*

Describe the problem solved/market need addressed by the innovation disclosed. As part of this description, list as many actual/hypothetical products/services you can think of that might benefit from the innovation disclosed. Identify the customer/end user for each. Be creative: attempt to think of broader and narrower applications, including those outside of your field.

### C) Third-Party Content \*

☐ 1) Is this a modification of existing intellectual property? \*

Check box if the innovation includes a modification of previously existing work, software, etc., created by you or a third party.

☐ 2) Does this innovation incorporate third-party content? \*

Check box if the innovation incorporates third-party software, including Open Source software, or other third-party intellectual property.

# Disclosure

## Funding

If you used sponsored funding in the development of this innovation, please provide the name of the sponsor, the PI on the grant, and both the Award number and the sponsor-assigned grant number below.

*Sponsors can be federal or state government agencies, corporations, foundations, or institutions through which monies from sponsors flowed. Contact us at [patents@rfsuny.org](mailto:patents@rfsuny.org) with any questions about sponsored funding reporting.*

[Add Grants](#)

| Title           | Grant Number | RF Award # | Granted Date | Sponsors | Created | Manage |
|-----------------|--------------|------------|--------------|----------|---------|--------|
| No Grants Found |              |            |              |          |         |        |

## Inventors

• Percent contributions to the innovation should sum to 100.

*For any questions regarding inventive contribution, please contact [patents@rfsuny.org](mailto:patents@rfsuny.org).*

• PLEASE NOTE: All inventors must submit their home address and nationality before the disclosure can be approved.

*All inventors must keep The Research Foundation for The State University of New York advised of changes in legal name, citizenship, home address, and other contact information while this case is active. Please send updates to [patents@rfsuny.org](mailto:patents@rfsuny.org).*

[Add Inventor](#)

| First  | Middle | Last | Permission | Order | Contribution | Working for | Department | Role Type | Address  | Manage  |
|--------|--------|------|------------|-------|--------------|-------------|------------|-----------|--|---|
| Steven | A      | Wood | Editor     | 1     | 100.00%      |             |            |           | 35 State Street, 1st Floor Albany NY United States | <a href="#">Edit</a>   <a href="#">Delete</a> |

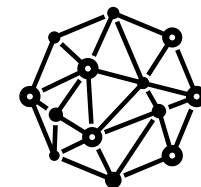
☐ 1) U.S. Department of Veterans Affairs Affiliation

*Please check the box above if any of the inventors listed above hold an appointment or are employed, with or without compensation, by both the U.S. Department of Veterans Affairs and SUNY.*

2) Nature of Each Listed Inventor's Contribution

*Please describe the nature of each inventor's contribution to the development of the innovation disclosed. (Format: Inventor 1 Name: contribution; Inventor 2 Name: contribution; etc.)*

# Disclosure



Documents

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Please enter the name of your disclosure in the Subject line of the email.

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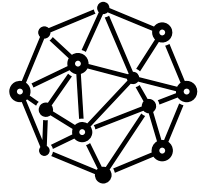
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## Evaluation

# Evaluation



*Keys: Marketability and Protectability*

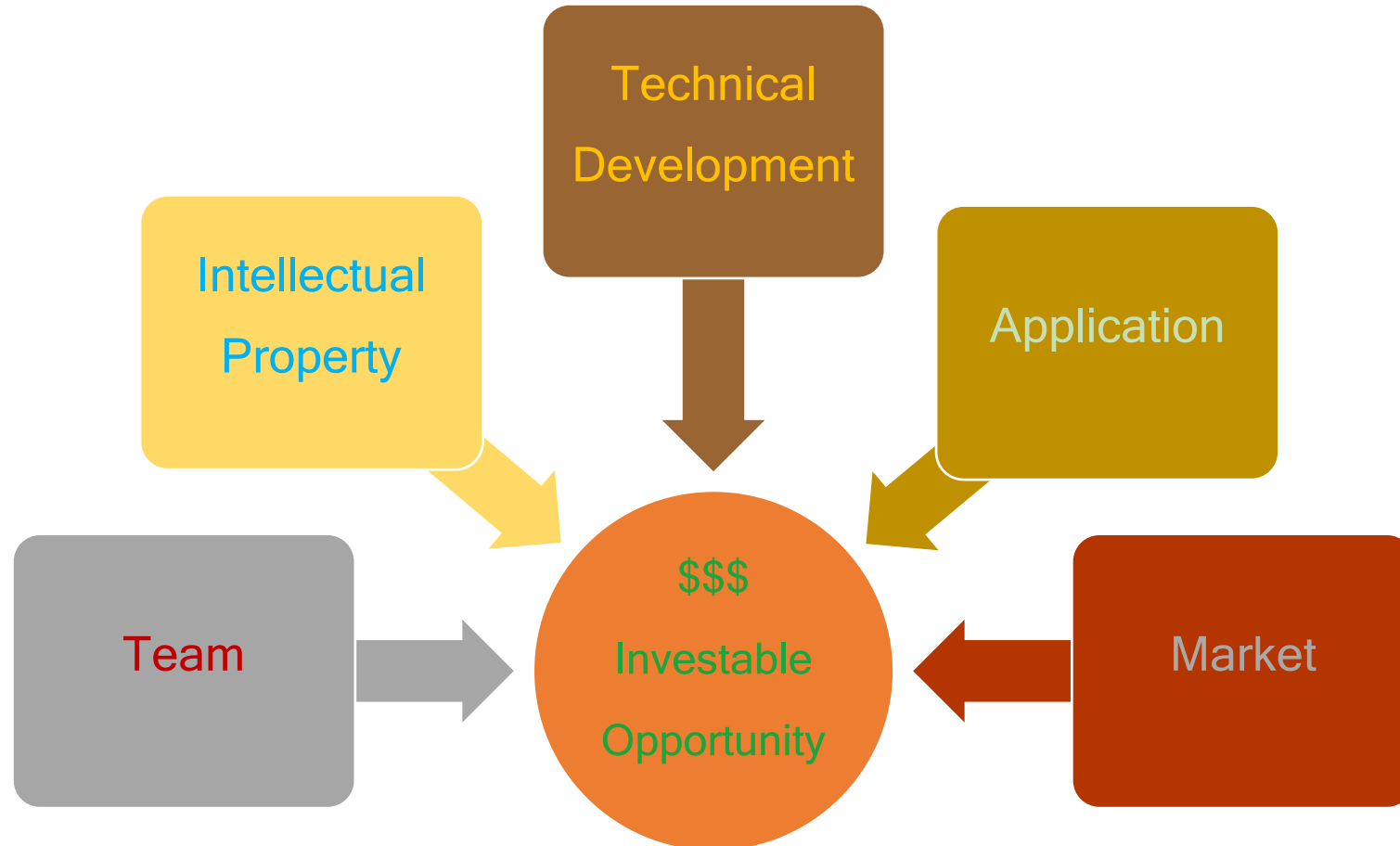
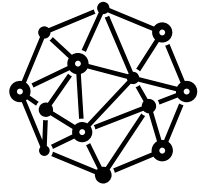
- ❑ Collaboration - inventors and tech transfer office
- ❑ Protectability depends on the types and strength of IP available
- ❑ Output is the Disclosure Evaluation Report
  - If we do not find “killer” prior art → US provisional patent application





Evaluation

# Marketability Factors



Intellectual  
Property  
Protection

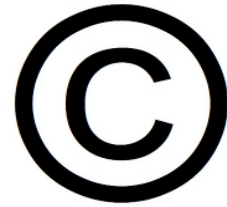
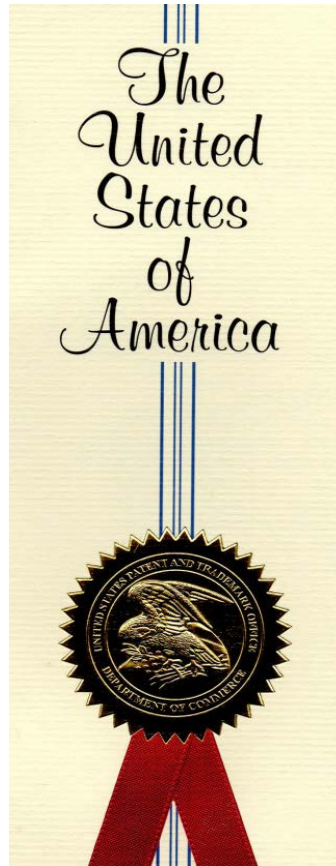
# What is Intellectual Property?



Patents

Copyrights & Trademarks

Know-How & Trade Secrets



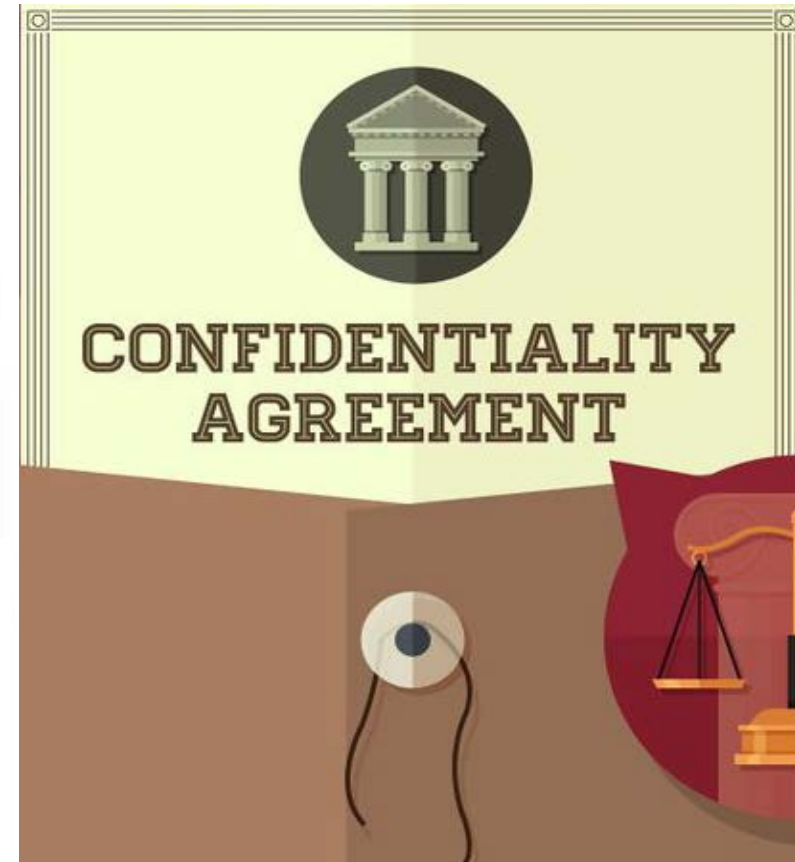
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Trademark

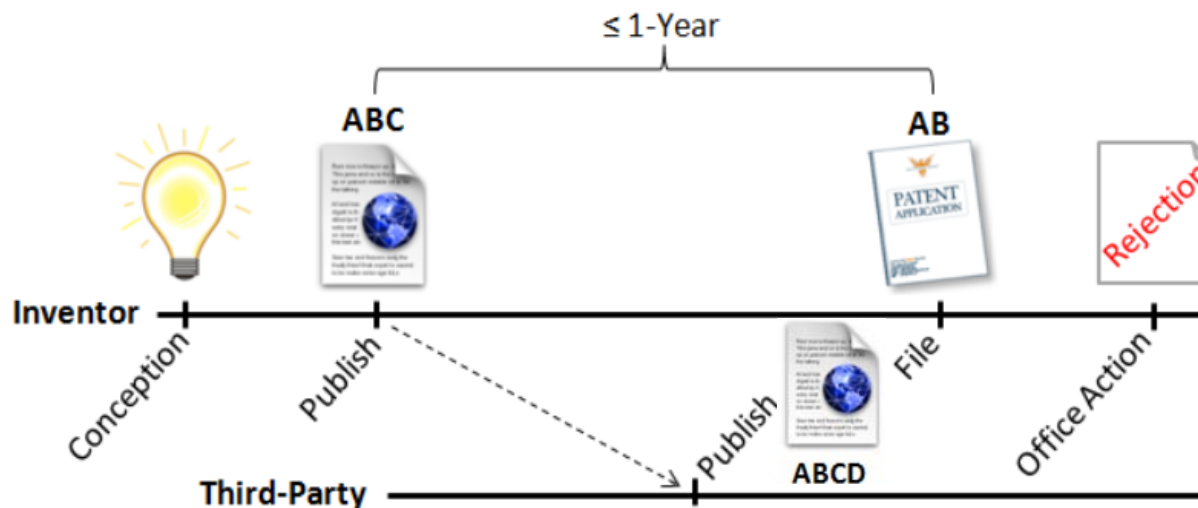
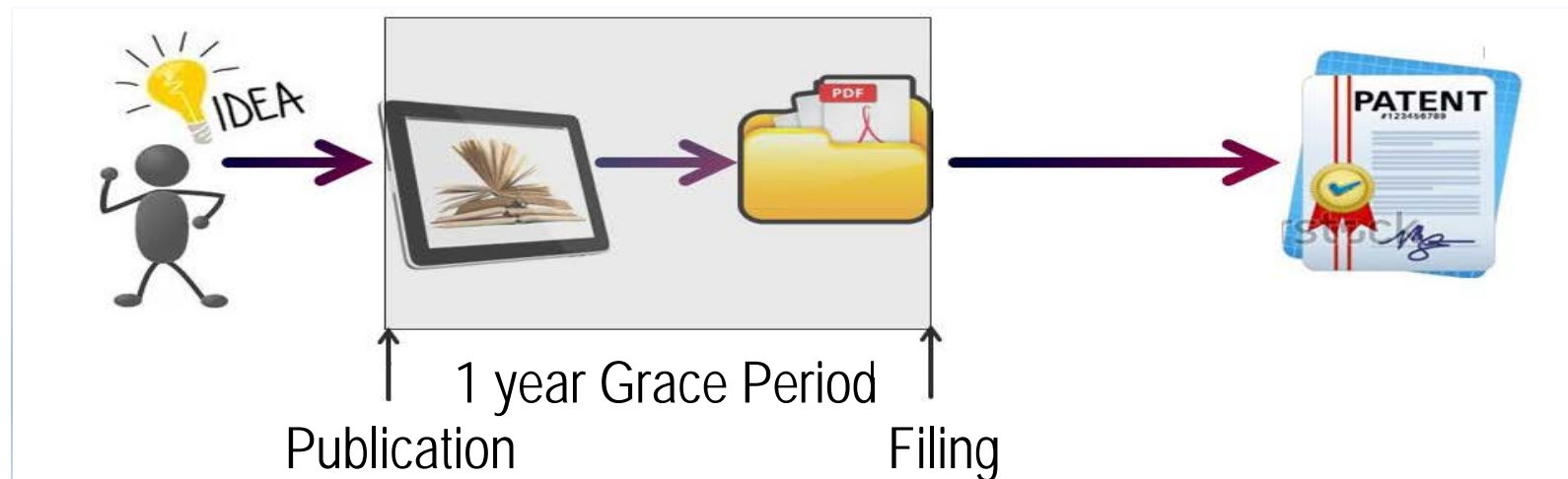
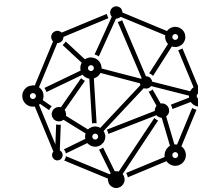
TM

Registered  
Trademark

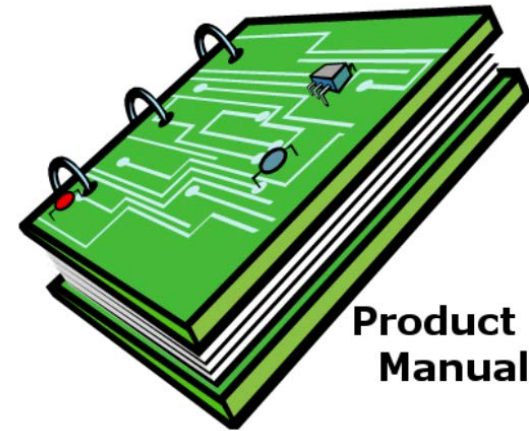


Enshrined in US Constitution: “To promote the process of science and useful arts” - Article I Section 8, Clause 8

# Public Disclosures and US Patent Application Timeline

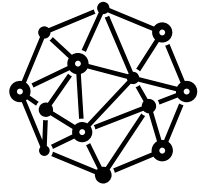


# Software Apps

A central black smartphone displays a home screen with various app icons like Messages, Calendar, Photos, Camera, App Store, etc. Surrounding the phone are numerous other icons representing different types of software: social media (Facebook 'f', Twitter bird, LinkedIn 'in'), productivity (Google Docs, calendar showing April 26), entertainment (video game controller, film reel), utility (clock, folder, download arrow), and general concepts (globe, shopping cart, speech bubble with 'Hi!'). The background is white, making the colorful icons stand out.



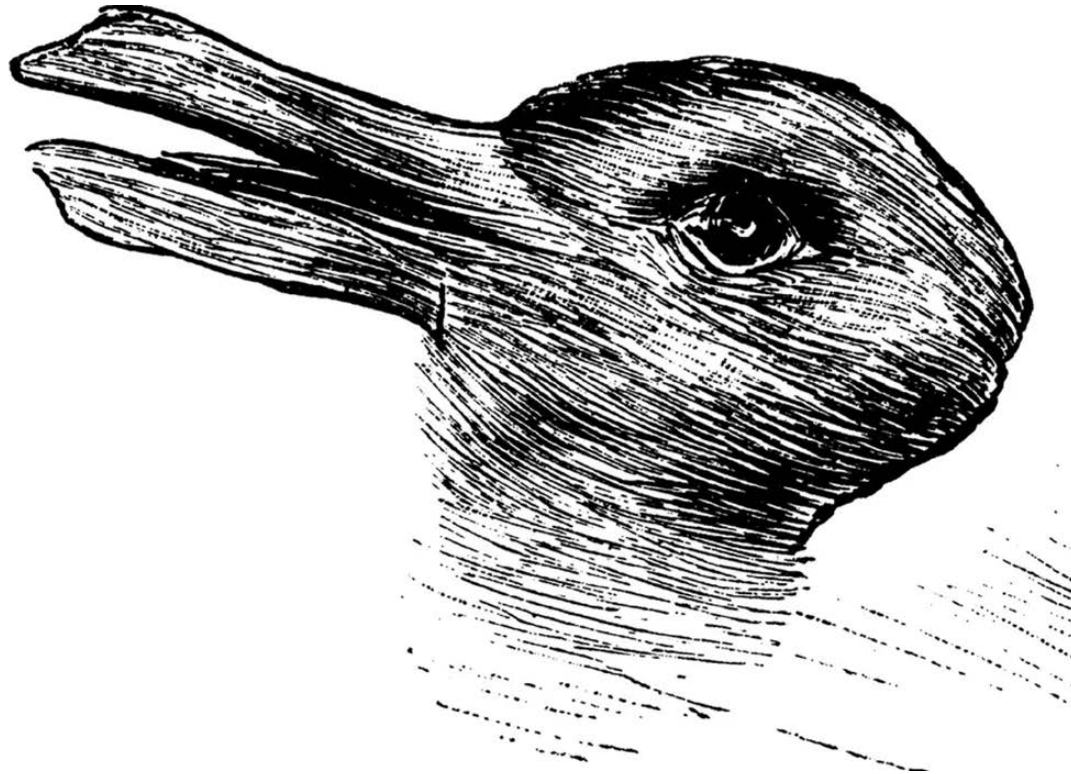
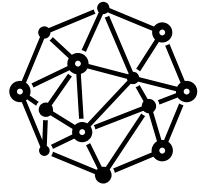
# Best Practices for Inventors



- Make New Technology Disclosures [Early and Often](#)
- Check in with us regularly, and especially inform us when you:
  - 1) plan to publish new research, before you publish
  - 2) think you may have new Intellectual Property
  - 3) before having confidential conversations
- Keep non-confidential discussions at a high level and do not give full detail
- Confidentiality for Federal grants differs agency to agency, program to program
  - NIH – handles grant proposal submissions confidentially (see [NIH Peer Review](#))

## Customer Discovery

# Why Is Customer Discovery Important?



The above image is from Thomas Kuhn's book *The Structure of Scientific Revolution* which introduced "Paradigm shift" in 1962

Customer  
Discovery

# SBIR/STTR - America's Seed Fund

## Opportunity of up to \$2.4 MIL from NSF



| Customer Discovery Regional Program →   | Customer Discovery National Program →  | Partnerships for Innovation →        | SBIR/STTR Phase I →  | SBIR/STTR Phase II & IIB  |
|---|--|--------------------------------------|--|---|
| Up to \$3k for travel, registrations, membership<br><br>SUNY Sites:<br>Binghamton<br>Buffalo<br>Stony Brook | Up to \$50k Sponsored Program to RF<br><br>50% odds versus 10% odds of getting a SBIR/STTR Phase I | Up to \$550k Sponsored Program to RF | Up to \$256k to Startup Company with portion Sponsored Program likely back to RF | Up to \$1.5 MIL to Startup Company with portion Sponsored Program likely back to RF |

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## Latest Technologies

- Use of Copper in the Detection of


## Components for Generating Orbital Angular Momentum in Electromagnetic Waves

Electromagnetic (EM) waves are used to provide modern telecommunications for transmitting and receiving data. Conventional modes of communication involve some form of modulation, such as amplitude, frequency and pulse-width modulation. Controlling the Orbital Angular Momentum (OAM) of EM waves is an advanced means of modulating EM waves and signals...

Patanjali Parimi, Ashutosh Patri



# Marketing

**IN-PART**

Discover

All Submissions

Portfolios

Technologies

+ New Submission

★ Action Required 3

⌚ Sent For Review

📄 Submissions

● Technologies 31

Interactions

📝 Feedback

👤 Introductions

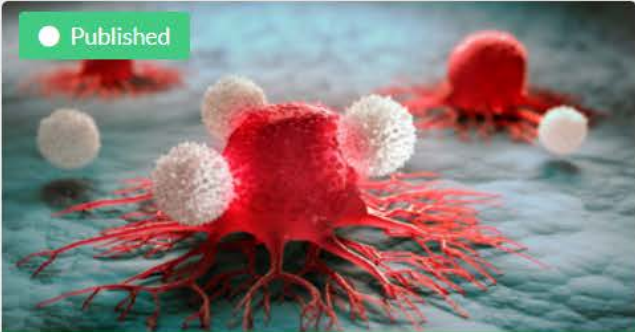
☰ All

Technologies > Technologies

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PUBLISHED ▾ ☰ 🔍

● Published




Agents for Prevention of Cancer Cell Mig...

● Published



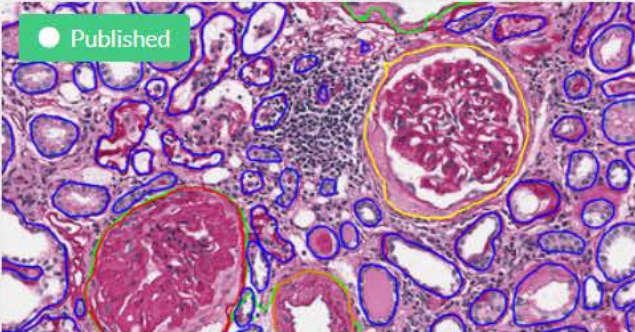
Deuterized Low-K Dielectric Materials fo...

● Published




An Eco-friendly Propulsion System for Lo...

● Published




Human-Teachable Histology and MRI Me...

● Published



Radar Doppler Detecting Good Codes for...

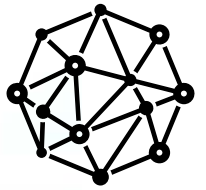
● Published



Detection and Identification of Forgeries ...



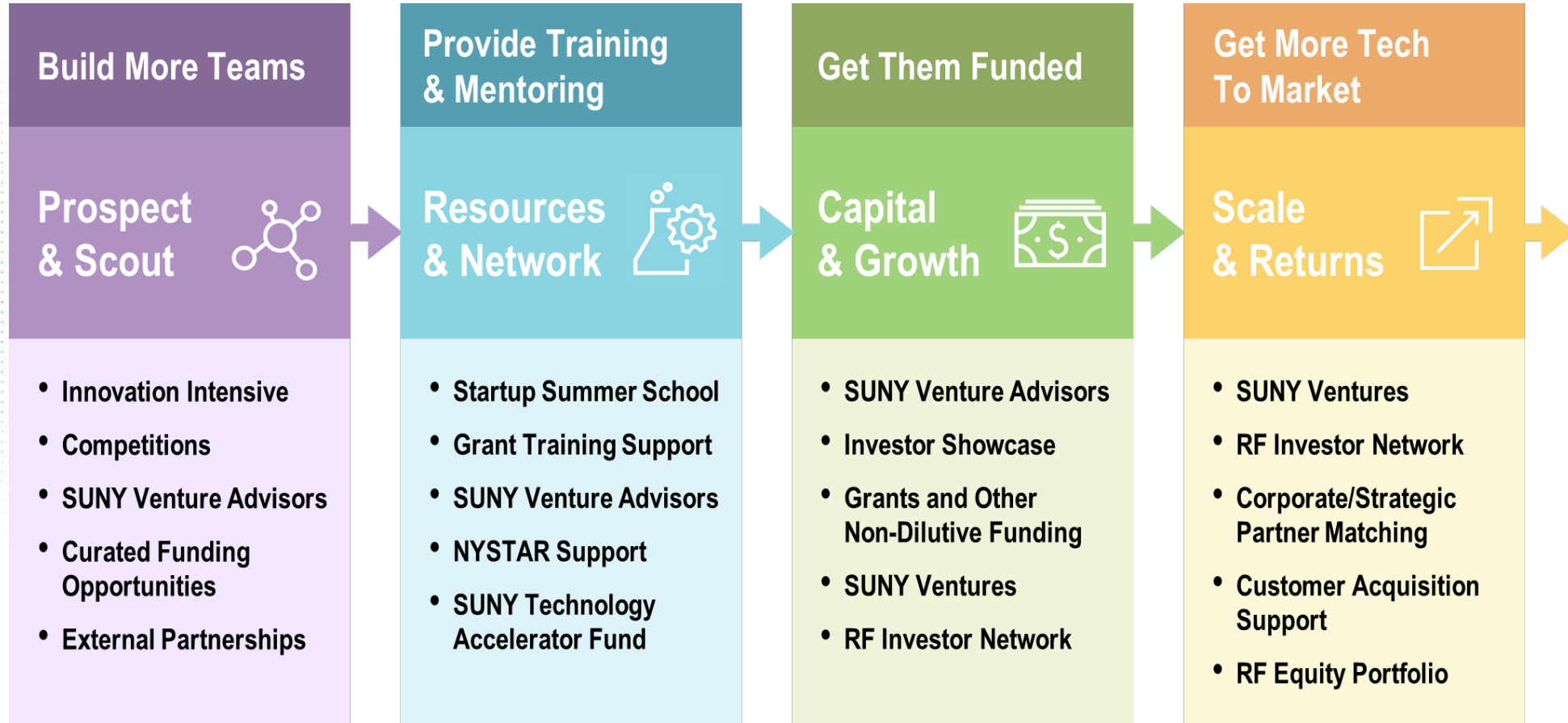
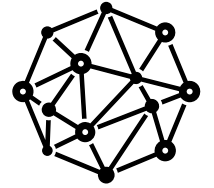
Partnering  
Contracts to Structure the  
Relationship with Industry



- Non-Disclosure / Confidentiality Agreements
- Material Transfer Agreements
- Joint Development Agreements
- License Agreements
- Operating Agreements
- Shareholders Agreements
- Stock Purchase Agreements

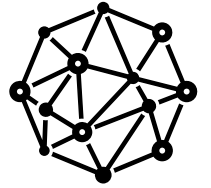
# New Ventures – Industry & External Affairs

## Entrepreneurship Objectives





# Innovation Intensive Clinic

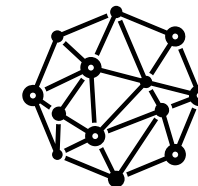


SUNY Polytechnic Institute, Albany Law School, and SUNY Research Foundation Partner to Offer Experiential Learning Collaboration, the Innovation Intensive Clinic

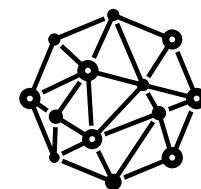


[What is Innovation Intensive?](#)



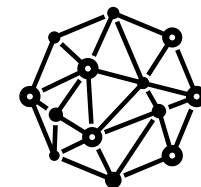


[SUNY TAF MVP](#)



Why do we do it?

# Questions?



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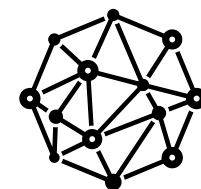
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Why do we do it II?