



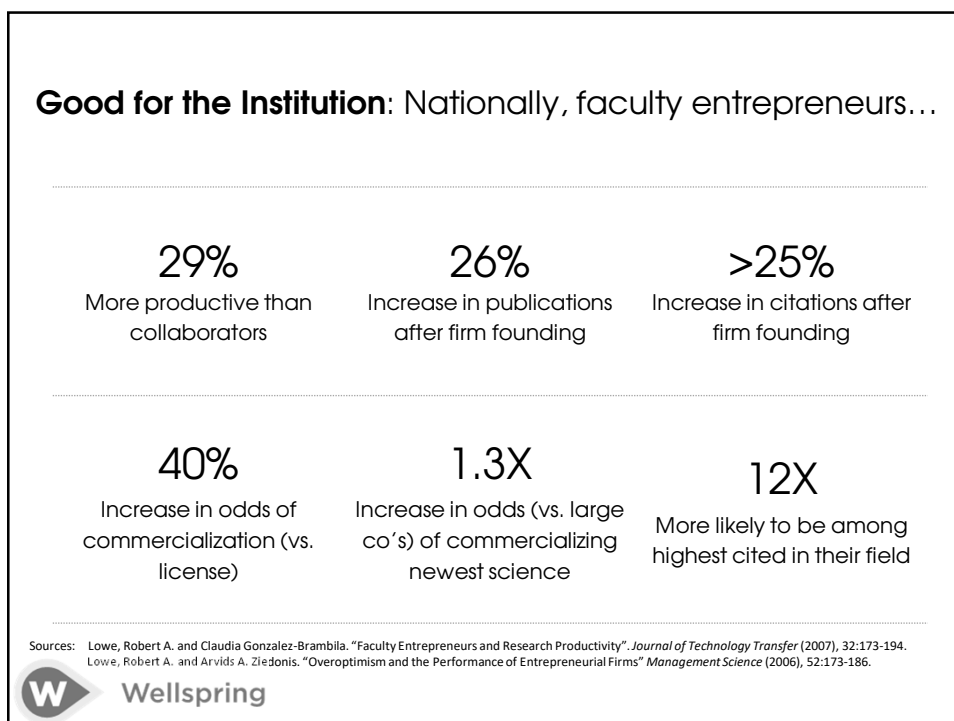
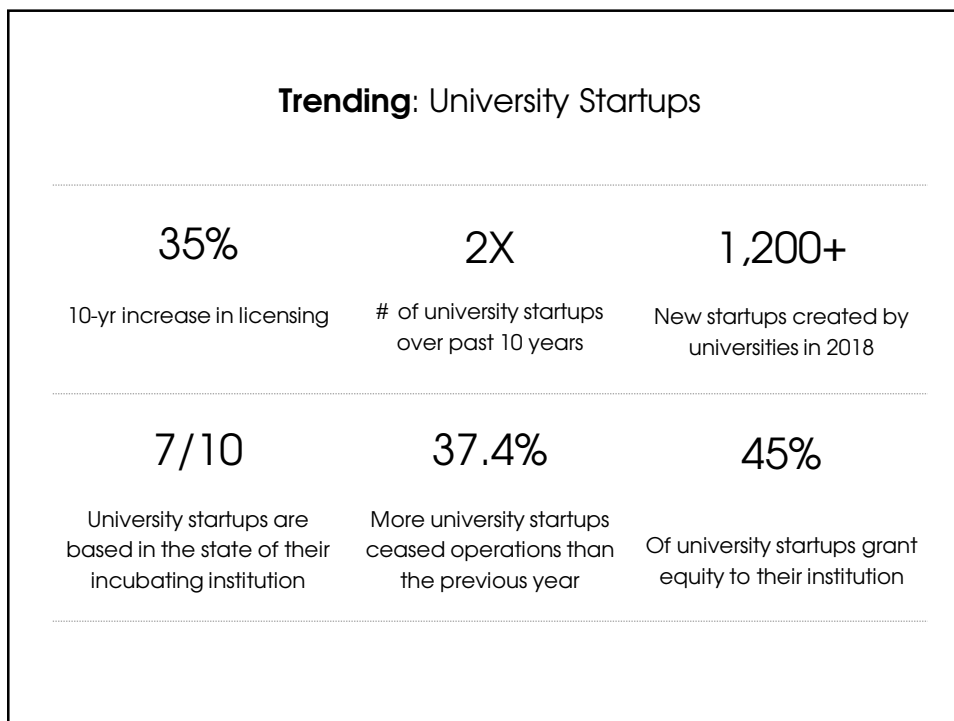
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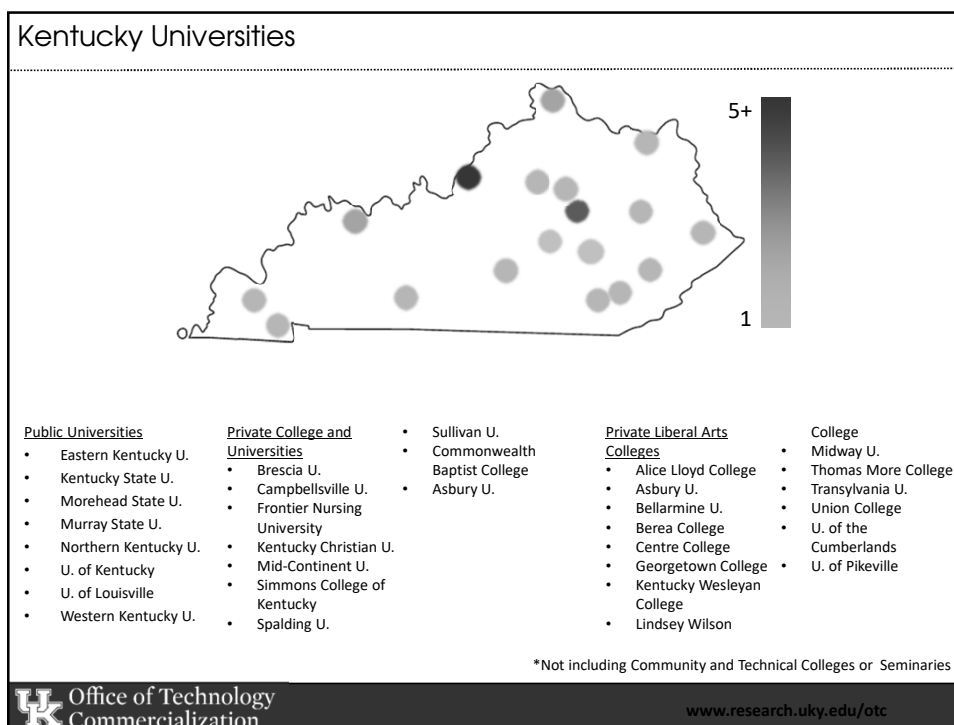
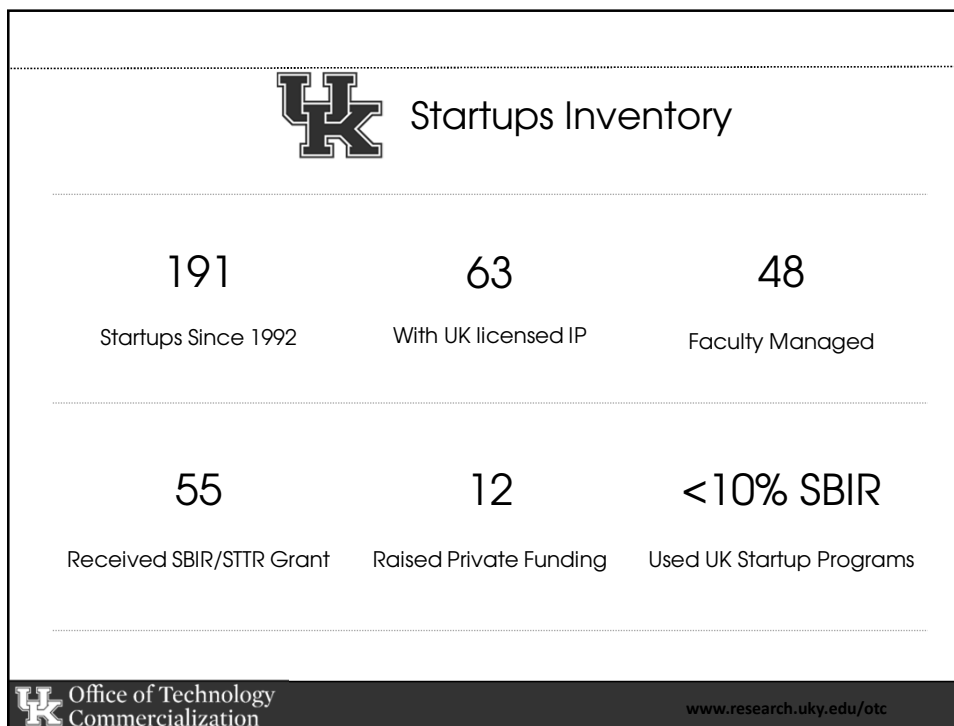
Talent to Technology: Is Entrepreneur
Talent the New Patent for Tech
Transfer?

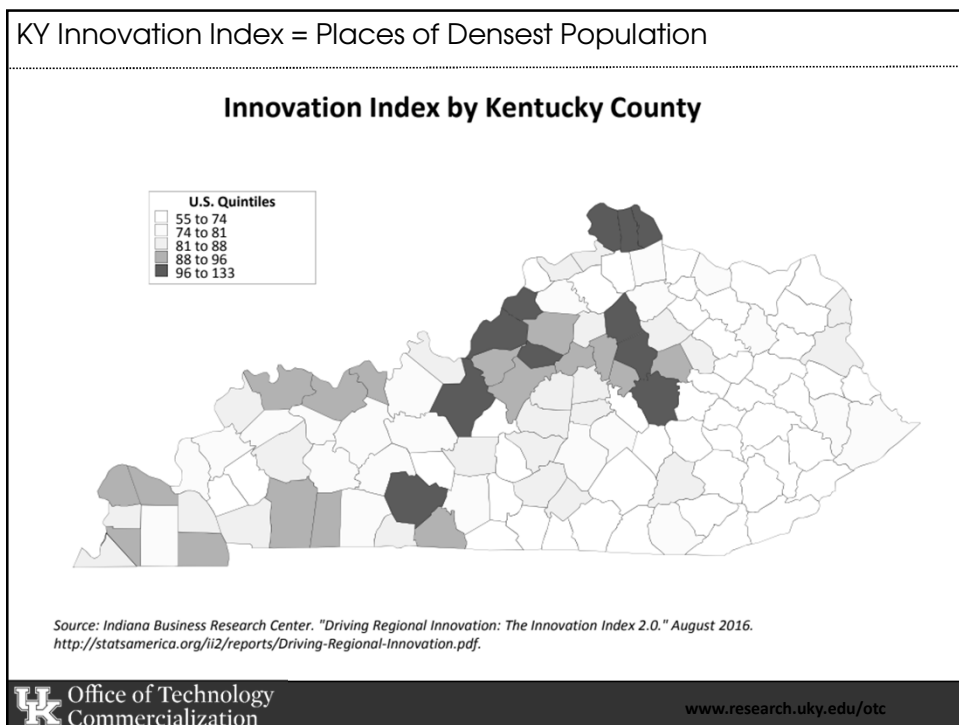
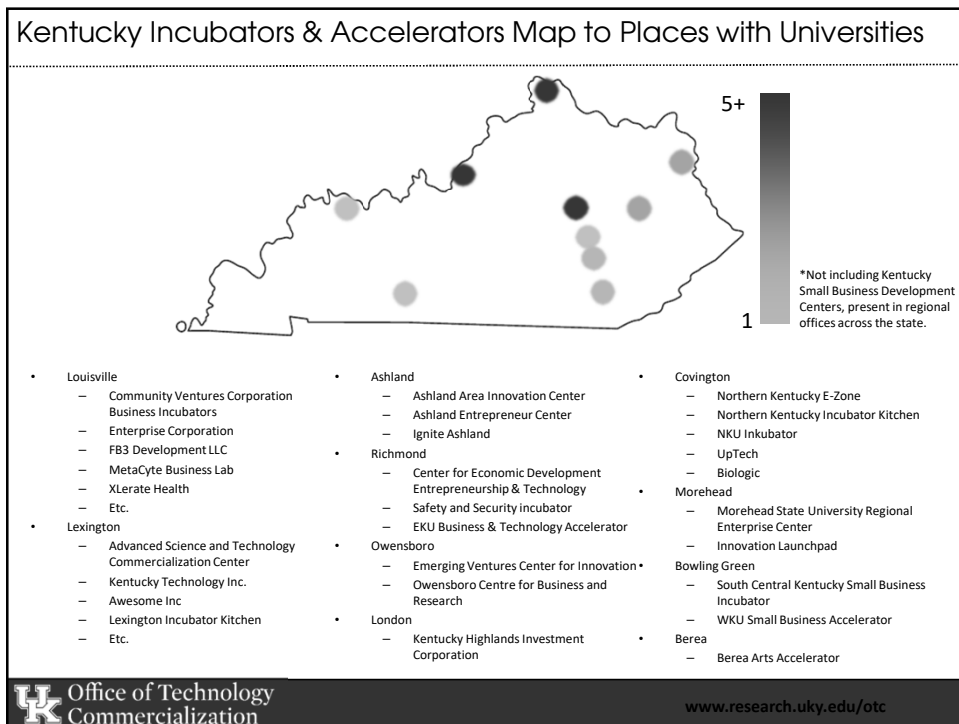
April 2019

Today's Agenda

1. Taking Inventory of University Startups
2. The Startup Recipe: Larger Dose of Talent
3. Executive Talent Matching Platform: XOR
4. Executive Recruitment Best Practices



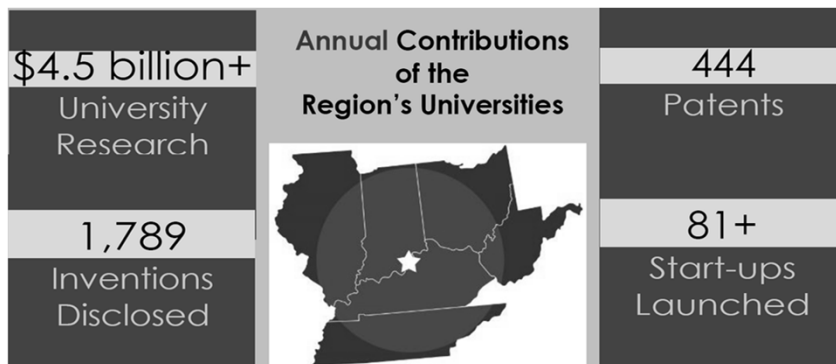




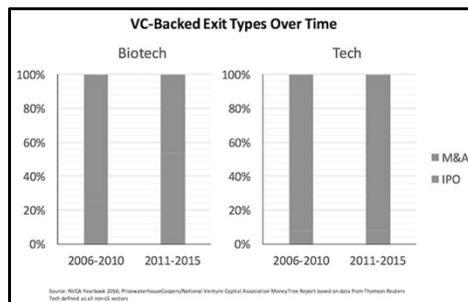
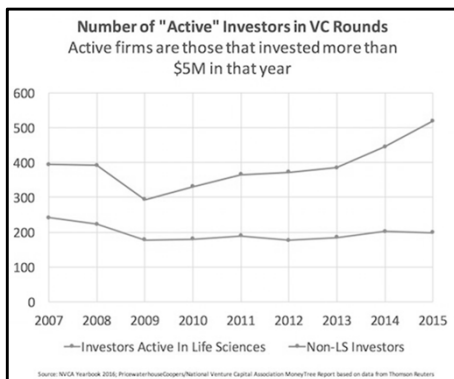
Source: Indiana Business Research Center. "Driving Regional Innovation: The Innovation Index 2.0." August 2016. <http://statsamerica.org/i12/reports/Driving-Regional-Innovation.pdf>.

We are in a Top-5 U.S. Innovation Region

Louisville and Lexington are the central cities in a **250-mile radius innovation region** connecting 5 major cities and nine major research universities – all within a 3-hour drive. There is no other city outside New York, Boston, Philadelphia and San Francisco that can match the following annual numbers from the same sized region.

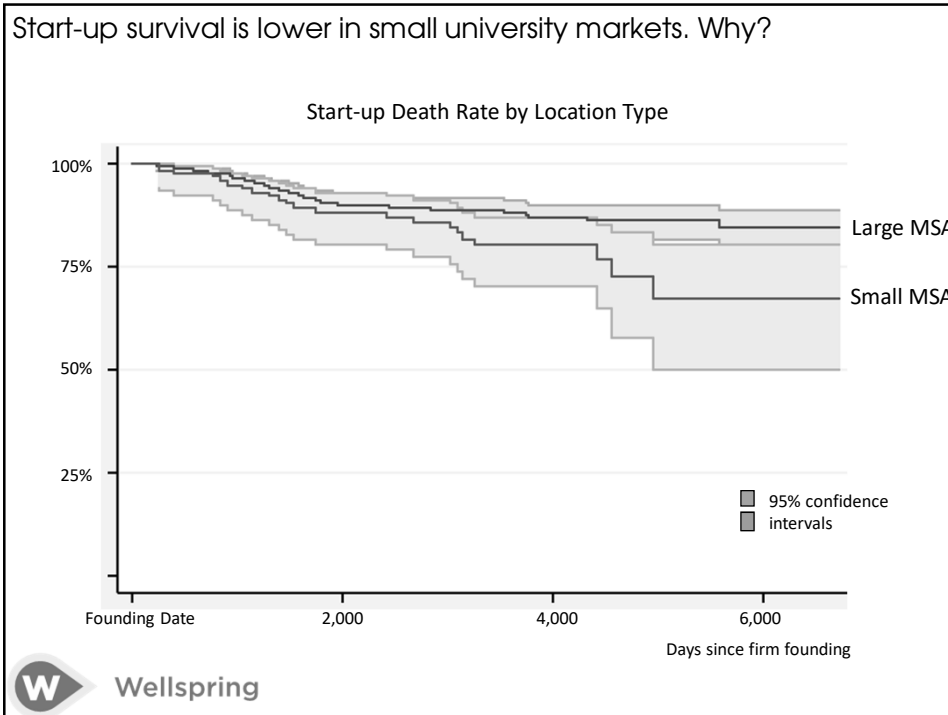


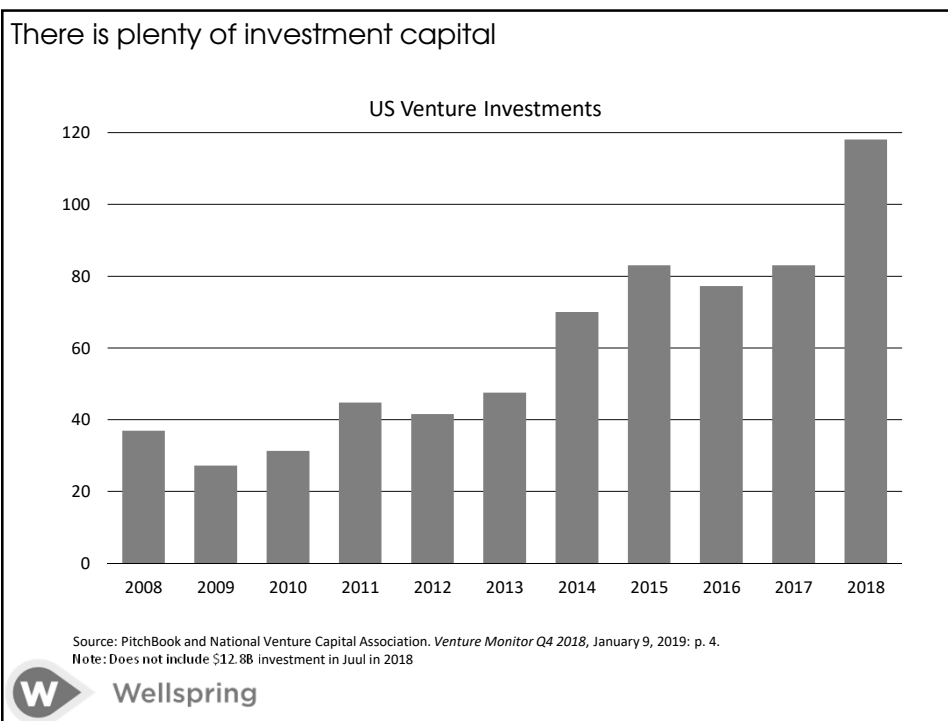
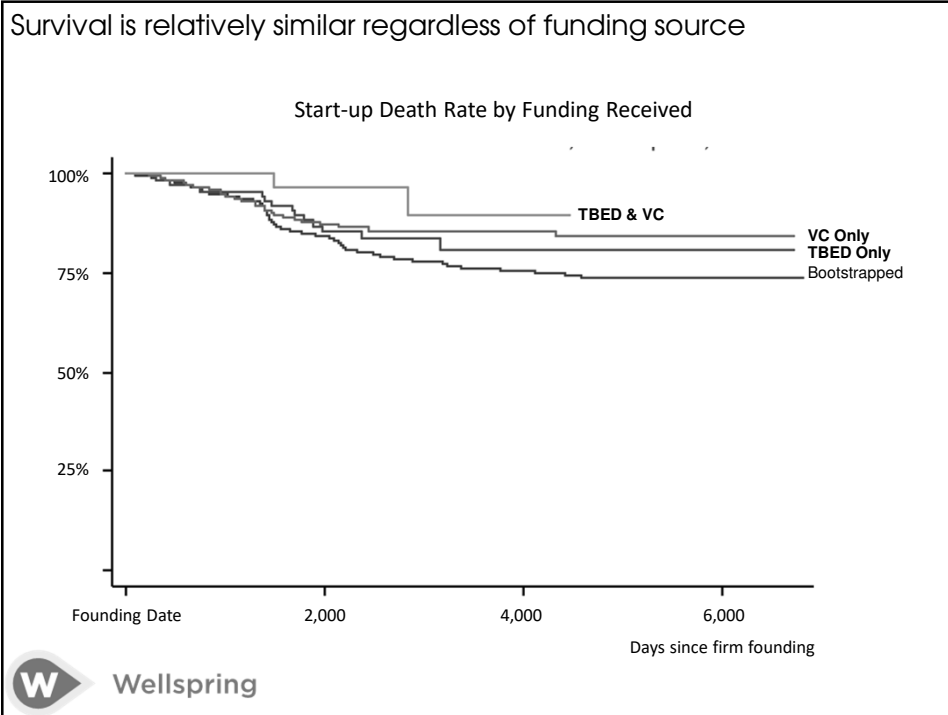
An Entrepreneur ≠ An Entrepreneur



- New university startups increased by **~1%***
- University startups failures increased by **37%***

The "Gap": Capital





VC and Angels Distribution

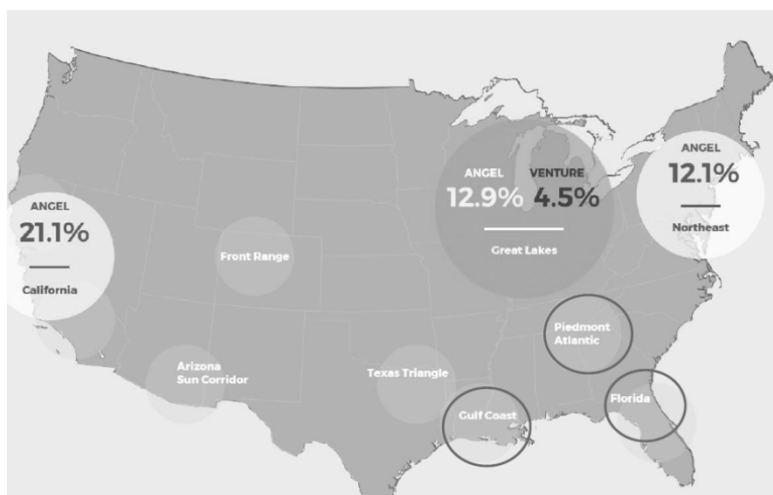


Fig. 1. U.S. Concentration of Angel and Venture Capital Investment

Source: Refinery Ventures; The Angel Resource Institute & Pitchbook Q3 2015 Halo Report

In Kentucky, you can find capital . . . If you're fundable

- No VC-level firms in the state
- Increasing VC activity in neighboring states (Cincinnati/Columbus + Chattanooga/Nashville)
- Cohesive angel investment communities in Louisville and Lexington, and they are starting to combine wealth and syndicate more (see increasing participation from Louisville investors in Bluegrass Angels' successive funds (4))
- SBIR-Match draws tech development stage companies (26/50 states for SBIR funded companies)

Fill It: Talent

University Startup Ecosystem Equation

Tech

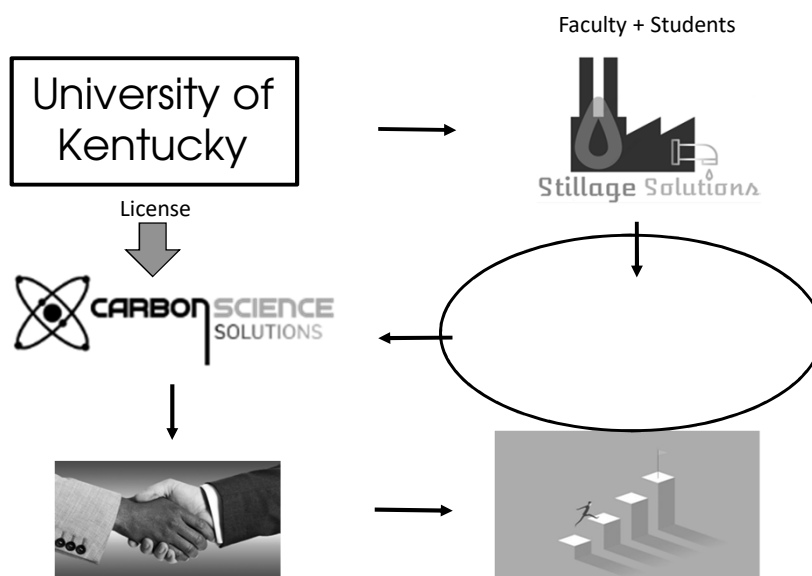
Talent

Capital

Key Reminder:

Startups in chemical, life sciences, energy, or manufacturing sectors have significantly different funding dynamics and capital requirements than typical “tech” startups

Case Study That Kicked Us Into Gear



Our Project: XOR

Executives-on-Roster (XOR)

Matches university start-ups in need of business executive(s) with experienced entrepreneurs in a particular industry

Benefits:

- Startups needing a business executive can find someone with ties or other nexus to the region
- Entrepreneurs can review broad pipeline of startup opportunities
- Matched entrepreneurs can become startup executives
- Universities can engage alumni network of successful entrepreneurs

Features:

- Central online platform created by Wellspring (developers of Sophia)
- Regional federated approach – schools have access to all execs in region
- Standardized approach with Procedures Guidebook
- Selective entrepreneur application process & access to only qualified applicants

XOR by the Numbers

Midwest XOR

Southeast XOR

- Launched Fall 2018
- 2 regionally affiliated networks
- 29 universities
- 71 entrepreneurs
- 56 startups

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Take a Look: XOR Platform

Companies By Industry Area

Industry Area	No. of Companies
Biotechnology/Lif...	8
Agriculture	7
Clean Tech (Wind, ...	4
Biometrics	4
Artificial Intelligen...	3
Other Industry Are...	19

Recent Startups

Organization	Company Status	Industry Area	Company Short Description	Posted Date
Waste the Waste	Completed	Agriculture, Biotechnology/Life Sciences, Oil & Gas	Be Kind to one another	Oct 13, 2018
One at a Time	Completed	Agriculture, Built Environment, Energy/Power Management	Be Kind to one another	Oct 13, 2018
Viral Protection	Completed	Cyber Security, E-Commerce	Lets bring hope back into this world	Oct 13, 2018
Smiles for All	Completed	Health & Wellness	We're gonna save the world	Oct 13, 2018
Ray of Sunshine	Completed	Agriculture, Artificial Intelligence, Clean Tech (Wind, Solar, Renewables)	My company is pretty awesome	Oct 13, 2018

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Take a Look: XOR Platform

The screenshot shows the XOR platform interface. At the top, there's a navigation bar with 'Home', 'Contacts', and 'Help Center'. Below that, the 'Startup Search Results' section is displayed. It includes a search criteria input field, a 'Related University' section with the University of Kentucky logo, and an 'Export Results' button. The main content is a table of search results with columns for Organization, Company Status, Industry Area, Company Short Description, and Posted Date. The table lists 10 startups, including Lepidex, LLC, LARGUS, ENEPRET, Avast Therapeutics, OptiMol, Enzymes, MOSQUITO, MosquitoMate, CoFlex, Bluegrass Advanced, and Brockman-Hastings.

Organization	Company Status	Industry Area	Company Short Description	Posted Date
PowerTech Water	Incorporated With Team	Chemicals	University of Kentucky	Sep 28, 2018
Lepidex, LLC	Incorporated With Team	Agriculture	Improving the way key lepidopteran insect pests are controlled, and thereby	Jul 23, 2018
LARGUS	Incorporated With Team	Medical Devices	None	Jul 18, 2018
ENEPRET	Incorporated With Team	Biotechnology/Life Sciences	None	Jul 9, 2018
Avast Therapeutics	Incorporated With Team	Pharmaceutical	None	Jul 9, 2018
OptiMol	Incorporated With Team	Biotechnology/Life Sciences	None	Jul 9, 2018
Enzymes	Incorporated With Team	Biotechnology/Life Sciences	None	Jul 9, 2018
MOSQUITO	Incorporated With Team	Biotechnology/Life Sciences	None	Jul 9, 2018
MosquitoMate	Incorporated With Team	Pharmaceutical	None	Jul 9, 2018
CoFlex	Incorporated With Team	Pharmaceutical	None	Jul 9, 2018
Bluegrass Advanced	Incorporated With Team	Biotechnology/Life Sciences	None	Jul 9, 2018
Brockman-Hastings	Incorporated With Team	Medical Devices	None	Jul 9, 2018

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Take a Look: XOR Platform

The screenshot shows the XOR platform interface for the 'Avast Therapeutics' profile. The page includes a 'Customize Page' button, the Avast Therapeutics logo, and a 'Related Files' section with a table of files. Below that is a 'Company Profile' section with various details.


File Name	File Type	Uploaded By	Uploaded Date	Download
Avast_Logo.png	Photo	System Admin (LA)	Jul 9, 2018	Download
Avast Pitch Deck - revised	Pitch Deck	Ian McClure	Sep 25, 2018	Download

Company Profile




- Contact Name / Email: Mariam Gorjan, New Ventures Manager, mariamgorjan@uky.edu
- Talent Needed: Seeking CEO
- Industry Area: Pharmaceutical
- Company Status: Incorporated With Team
- Elevator Pitch: Avast Therapeutics novel neuroprotective molecule is highly bioavailable, with non-invasive administration.
- Year Founded: 2016
- Company URL: None
- Media URL: <https://www.bizspedia.com/ky/avast-therapeutics-llc.html>
- Company Short Description: None
- Value Proposition: Current treatments for neurodegenerative diseases provide only symptom management. There are no approved therapies which target the cause of neurodegeneration or which manage disease progression Avast Therapeutics provides these therapies with non-invasive Novel Therapeutic Candidate for Neurodegenerative Diseases
- Product Concept: Proof-of-Concept (e.g., animal testing and/or patents filed)
- Product Development Stage: Lexington
- City: Lexington
- State: Kentucky
- Clients and Partnerships: None


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Take a Look: XOR Platform


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Alternative Recruitment Mechanisms

<p>Industry Secondment:</p>	<ul style="list-style-type: none"> ▪ Executive seconded by employer ▪ Salary paid by employer ▪ Amount of salary paid = investment in startup ▪ Investment = equity (at set valuation) ▪ Executive may return or stay 	
<p>University or State Stipend:</p>	<ul style="list-style-type: none"> ▪ Economic Development unit or similar provides stipend for commitment 	
<p>Venture Search Fund:</p>	<p>Collaboration between VC and State/University and Company</p>	

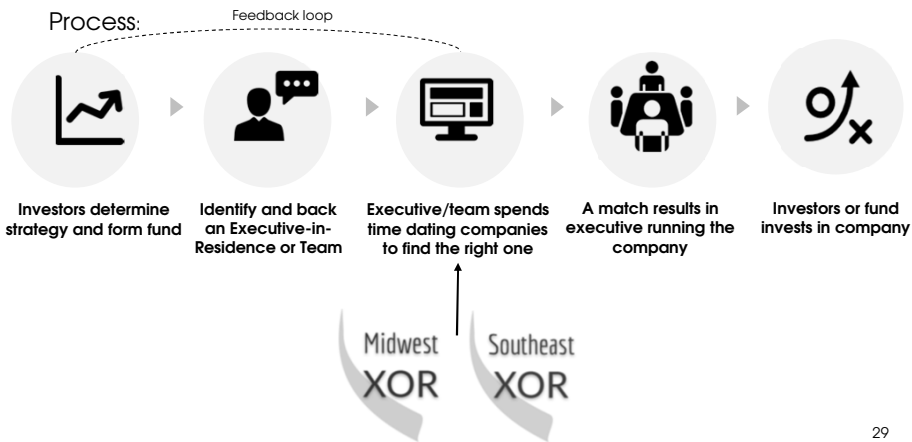

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Venture Search Fund Model

"accelerate the car rather than build the car."

Objective: Back an executive, then find a company

Process:



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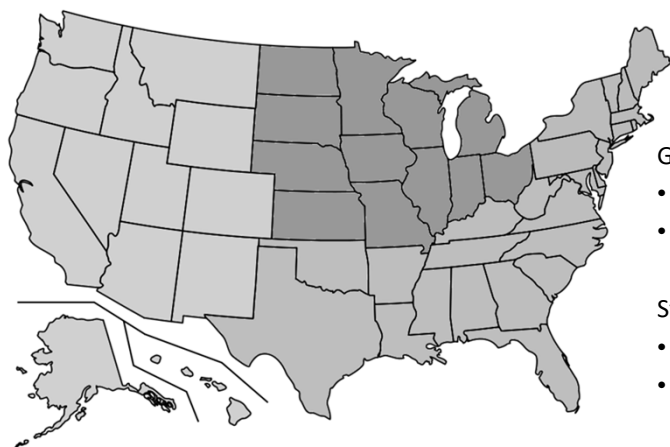
Engage Your Alumni



Engage Your Alumni



Other Networks Developing



Grow Current Platforms

- Midwest
- Southeast

Starting New Platforms

- Northeast/Atlantic
- West

What We've Learned: Executive Matching Best Practices

What We've Learned

- Success requires proactivity (being on the platform alone won't create matches)
- Matching process takes a lot of dates
- Rigorous process forces companies to look in the mirror
- We need to work with our alumni associations and development offices
- Find alums with data tools (Navigator, Crunchbase, Wellspring Research, etc)
- License = leverage (and we lose it once we license)



Dedicated New Ventures Staff: "Co.Create" Team

co.create

Verb: to bring different parties together in order to jointly produce a mutually valued outcome

- Three FTEs + 3 "Co.Create Ambassadors"
- Support startup company creation and entrepreneurship initiatives for UK *and Lexington Startups*
- Housed within UK OTC

Talent Matching Do's

Your StartUp is on the XOR Platform

----- What are some best practices? -----

- ✓ Complete an initial "Interview" with your StartUp's inventors / founders.
- ✓ This will open the discussion to know the status of your StartUp such as:
 - ✓ Licensing agreements
 - ✓ Funding
 - ✓ Non-dilutive federal funds supported?
 - ✓ Raised private funds?
 - ✓ Identified Target markets?
 - ✓ Completed any accelerator programs?

Talent Matching Don't's

Your StartUp is on the XOR Platform ----- What should be avoided? -----

- ✓ TTO's should be the initial contact – not the entrepreneur or startup independent of your office
- ✓ **Due diligence** – don't start matching before you know what your startup is really looking for.
 - ✓ Be knowledgeable of your startup's goals well before calling any entrepreneurs.
 - ✓ This will avoid confusion of what is expected of the Entrepreneur (CEO) you're matching

How to make an Executive-Level match ----- Clues for a good fit -----

-
- ✓ After having initial conversations with your startup and entrepreneur....What did you discover?
 - ✓ Does the background of the entrepreneur make sense for the company's goals at this time?
 - ✓ Character - do you have a sense of personalities?
 - ✓ Knowing what you know about the startup
 - ✓ Initial impression of the entrepreneur

Maintaining Good Relationships is Key

- ✓ Always follow-up with your startups – at least once a month do an email blast
- ✓ Periodically check in with entrepreneurs even if a match wasn't made. There might be other opportunities they're willing to help with:
 - ✓ Mentoring other companies (1-hour pro bono)
 - ✓ Guest speaking at events

Maintaining Good Relationships is Key

- ✓ Maintain an email list with only your startup contacts
- ✓ At least once a month do an email blast and make phone calls to see if your startups need any help
- ✓ Periodically check in with entrepreneurs even if a match wasn't made. There might be other opportunities they're willing to help with:
 - ✓ Mentoring other companies (1-hour pro bono)
 - ✓ Guest speaking at events

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