

# Ohio Third Frontier Commission Meeting

September 14, 2017



Development  
Services Agency



**Third Frontier**  
Innovation Creating Opportunity

# Technology Validation & Start-up Fund Program



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# Technology Validation & Start-up Fund Program

## Lead Applicants/Phases

- Phase 1: Track A – Technologies developed at Ohio research institutions needing additional validation/proof before an Ohio start-up company will license. Up to \$50,000 with 1:1 cash cost share.
- Phase 1: Track B – Ohio research institutions with sufficient internal deal flow to support a multitude of Phase 1:Track A type projects. Awards from \$200,000-\$500,000 with 1:1 cash cost share.
- Phase 2 – Ohio start-ups and young companies that are a prospective licensee of a technology from an Ohio institution. Up to \$100,000 (or \$150,000 if in MedTech) as initial capitalization with no cost share.

**External Evaluator: Quantum Commerce**



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# Technology Validation & Start-up Fund Program

**14<sup>th</sup> Cycle of the TVSF program.** To date, including this cycle:

	Proposals	Awards
Phase 1: Track A	232	93
Phase 1: Track B	9	9
Phase 2	181	68

## Current cycle

- 15 proposals with 4 recommended for award
- 2 proposals are re-submits, both of which are recommended



# Phase 1 Progress

To date, **76** Phase 1 complete.

**\$3,732,800 Awarded**

**\$2,992,929 Spent**

**59** Not Yet  
Licensed

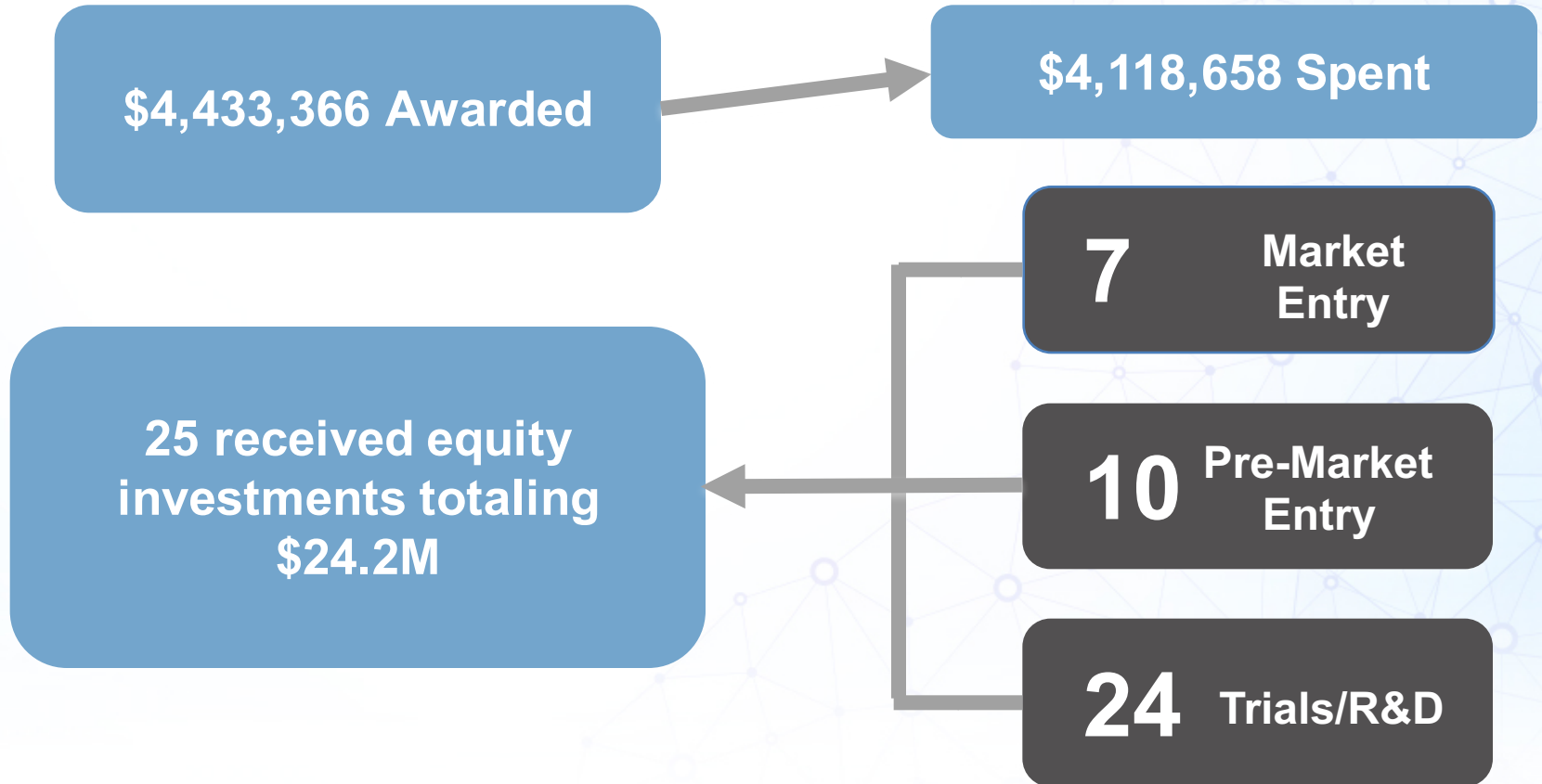
**11 of which have  
progressed to Phase 2**

**14** Licensed  
To Startup

**3** Licensed To  
Non-Startup

# Phase 2 Progress

To date, **43** Phase 2 complete.



# Overall Metrics

Across the entire program: 148 Projects Reporting

**170**

Total Jobs Created



**134**

For Profit Jobs Created

**\$58.4M**

Total Leverage



**\$4.5M**

Product Sales

**\$14.9M**

Federal Grants

**\$9.7M**

Other

**\$29.3M**

Follow On Equity

QUANTUM COMMERCE, LLC

OTF TVSF – ROUND 14  
EVALUATOR REPORT

14 SEP 2017

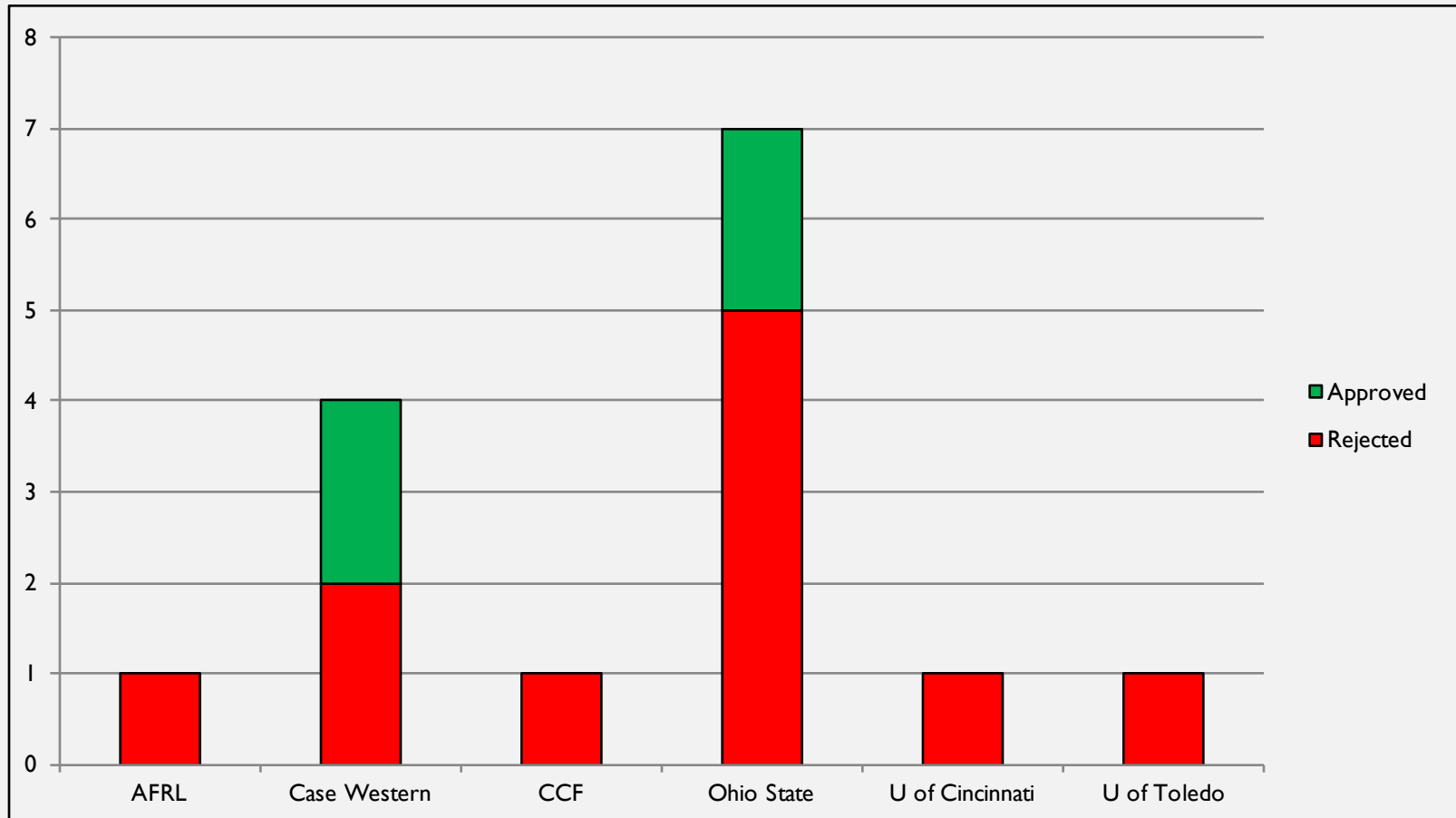
## OVERVIEW – ROUND 14

- 4 of 15\* proposals submitted this round are recommended for approval.
- Total grant dollars recommended is \$498,832.

Round	Approval Rate	\$\$ Recommended
1 (APR 2012)	35%	\$950,000
2 (AUG 2012)	52%	\$900,000
3 (DEC 2012)	44%	\$610,000
4 (JUN 2013)	30%	\$864,000
5 (FEB 2014)	46%	\$1,462,000
6 (JUN 2014)	39%	\$998,000
7 (OCT 2014)	57%	\$1,100,000
8 (FEB 2015)	37%	\$710,000
9 (JUN 2015)	31%	\$550,000
10 (DEC 2015)	38%	\$925,000
11 ( APR 2016)	46%	\$1,239,000
12 (OCT 2016)	46%	\$3,537,269
13 (MAR 2017)	38%	\$1,567,500
14 (SEP 2017)	27%	\$498,832
Overall	40%	\$15,911,601
Average		\$1,136,543

*\*Note: One proposal withdrawn; total originally submitted = 16 Phase 2.*

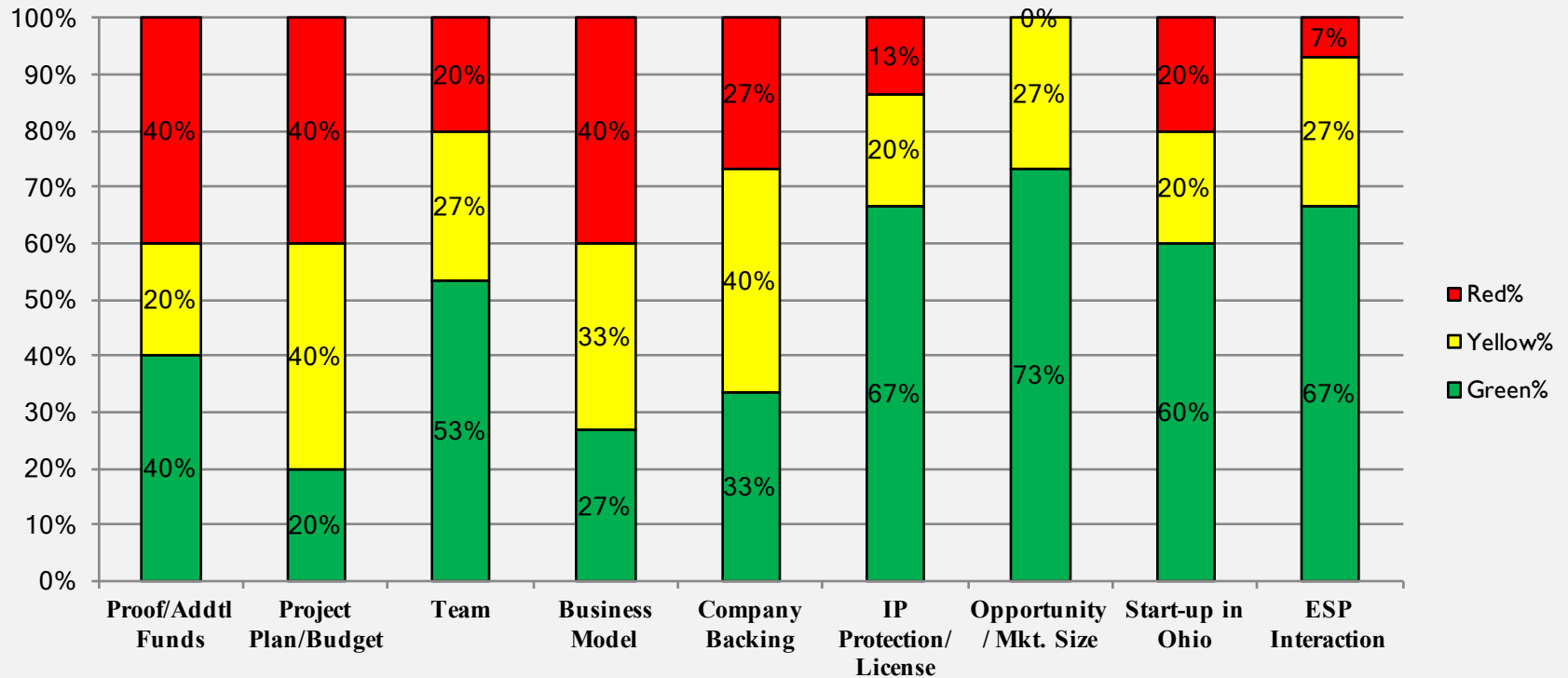
## ROUND 14 RESULTS - APPLICATIONS BY INSTITUTION





# TRENDS - ROUND 14

## Phase 2 Category Ratings



Quantum Commerce, LLC

## PHASE 2 PROPOSALS RECOMMENDED FOR FUNDING

### Round 14

<i>PROPOSAL #</i>	<i>Licensing Institution</i>	<i>Lead Applicant</i>	<i>PROJECT TITLE</i>	<i>State Funds Requested</i>	<i>Total Project Budget</i>	<i>Recommended</i>	<i>Capital Raised to Date</i>	<i>Time to Market</i>	<i>Additional Capital to Market</i>
18-0221	The Ohio State University	Innovate IP, Inc.	Innovate IP - Full Featured SaaS Implementation	\$98,832	\$98,832	\$98,832	\$25,000	6 mo	\$600,000
18-0224	The Ohio State University	Noxsano Inc.	Powered Wound Care Bandage	\$150,000	\$150,000	\$150,000	\$85,000	2 yr	\$2.25MM
18-0232	Case Western Reserve University	Dyad Medical Inc.	Software for Stent Analysis and Visualization Using Intravascular Optical Coherence Tomography (IVOCT)	\$150,000	\$150,000	\$150,000	\$250,000	2 yr	\$4.45MM
18-0233	Case Western Reserve University	Wave# LLC	FastRAM, Hyperspectral Raman Imaging System for Advanced Materials	\$100,000	\$100,000	\$100,000	\$5,000	1 yr	\$0

Quantum Commerce, LLC

# RESUBMISSION AND CARRY THROUGH

Round 14

## ■ Resubmission

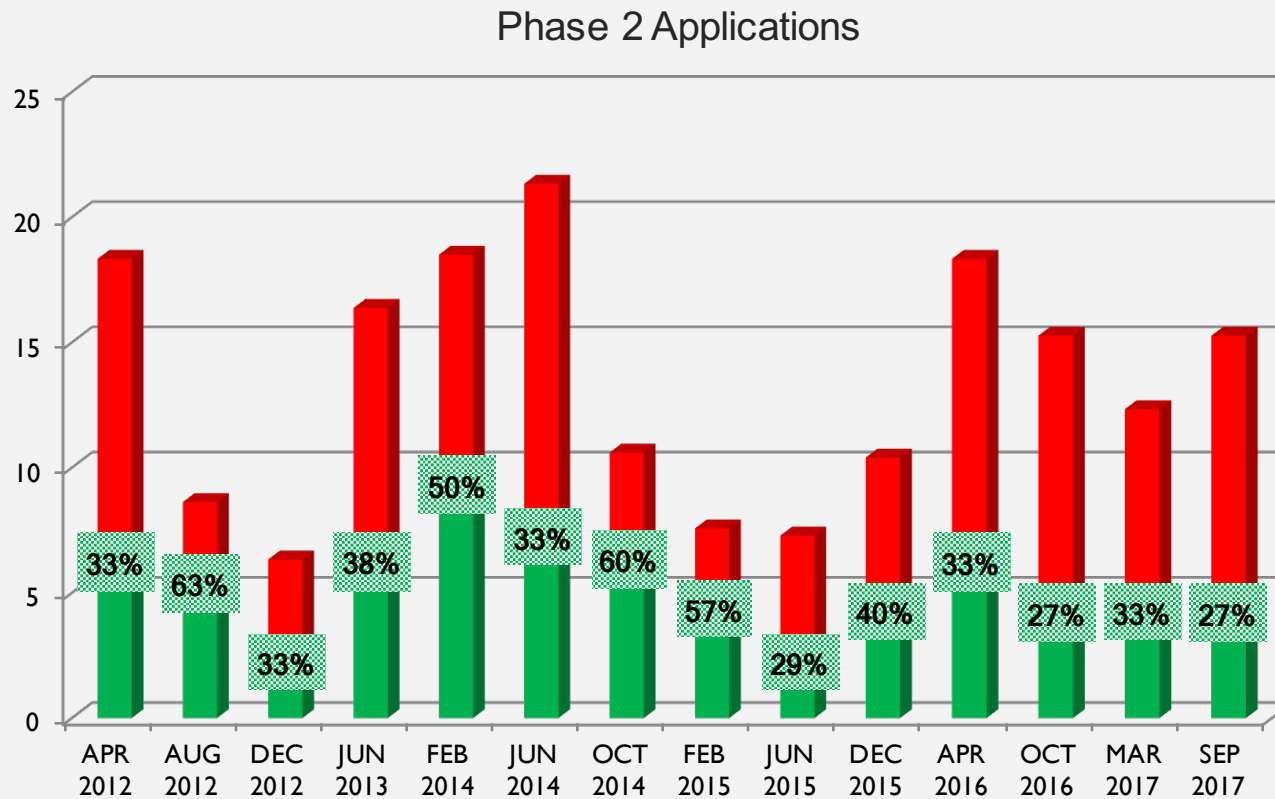
- *Phase 2*
  - Two of fifteen (13%) Phase 2 proposals are resubmissions.
  - Both (100%) are Recommended for Funding.

## ■ Carry Through

- *Two of fifteen (13%) Phase 2 proposals were previous Phase 1 awardees.*
  - One of those two (50%) is Recommended for Funding in this round.

# TRENDS -COMPARATIVE RESULTS (ALL ROUNDS TO DATE)

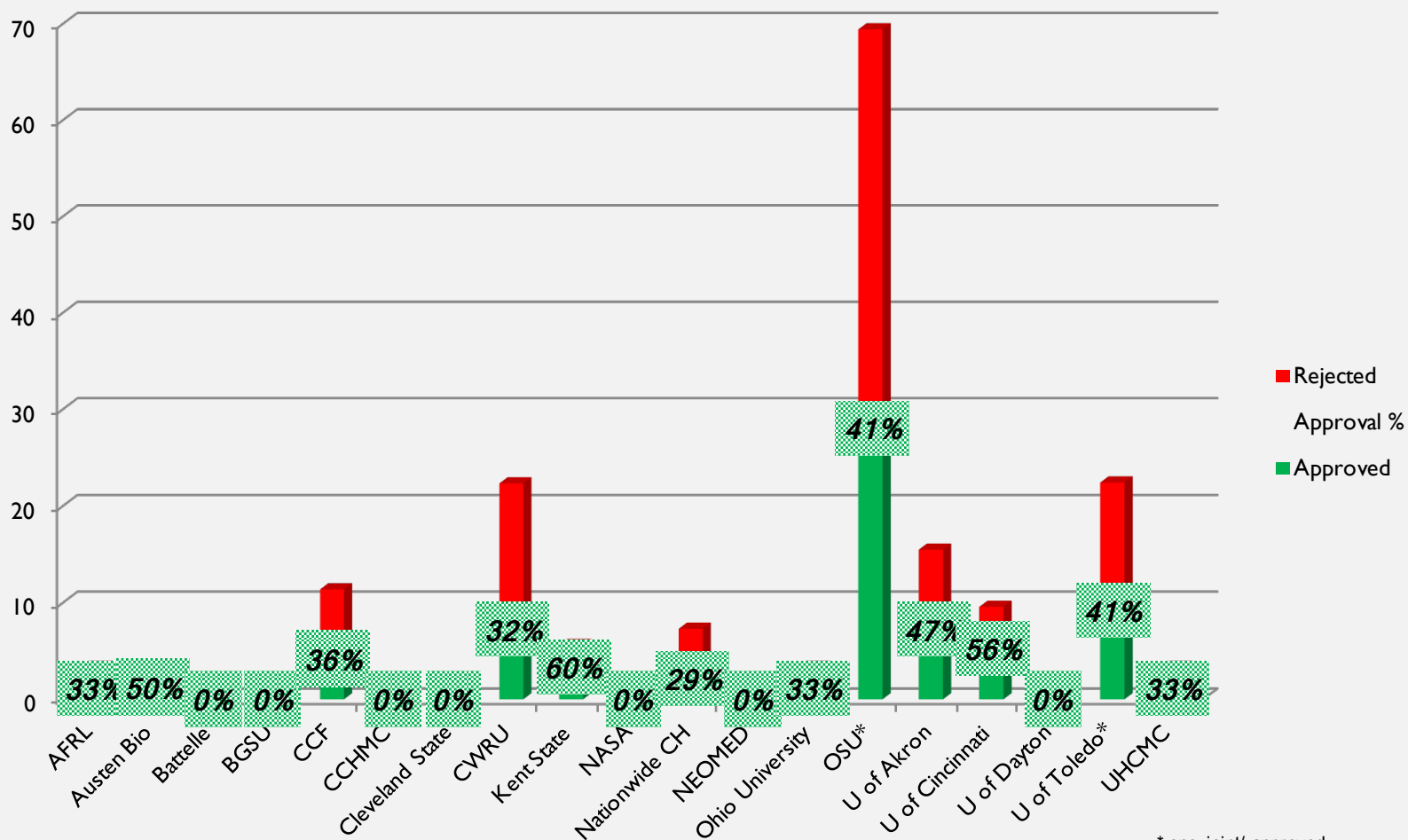
## Rounds 1 – 14 Results



38% Cumulative Approval

## CUMULATIVE RESULTS – PHASE 2 (ALL ROUNDS TO DATE)

### Phase 2 Approved/Rejected by Institution



\* one joint/ approved

# Ohio Third Frontier Retreat

## September 14, 2017



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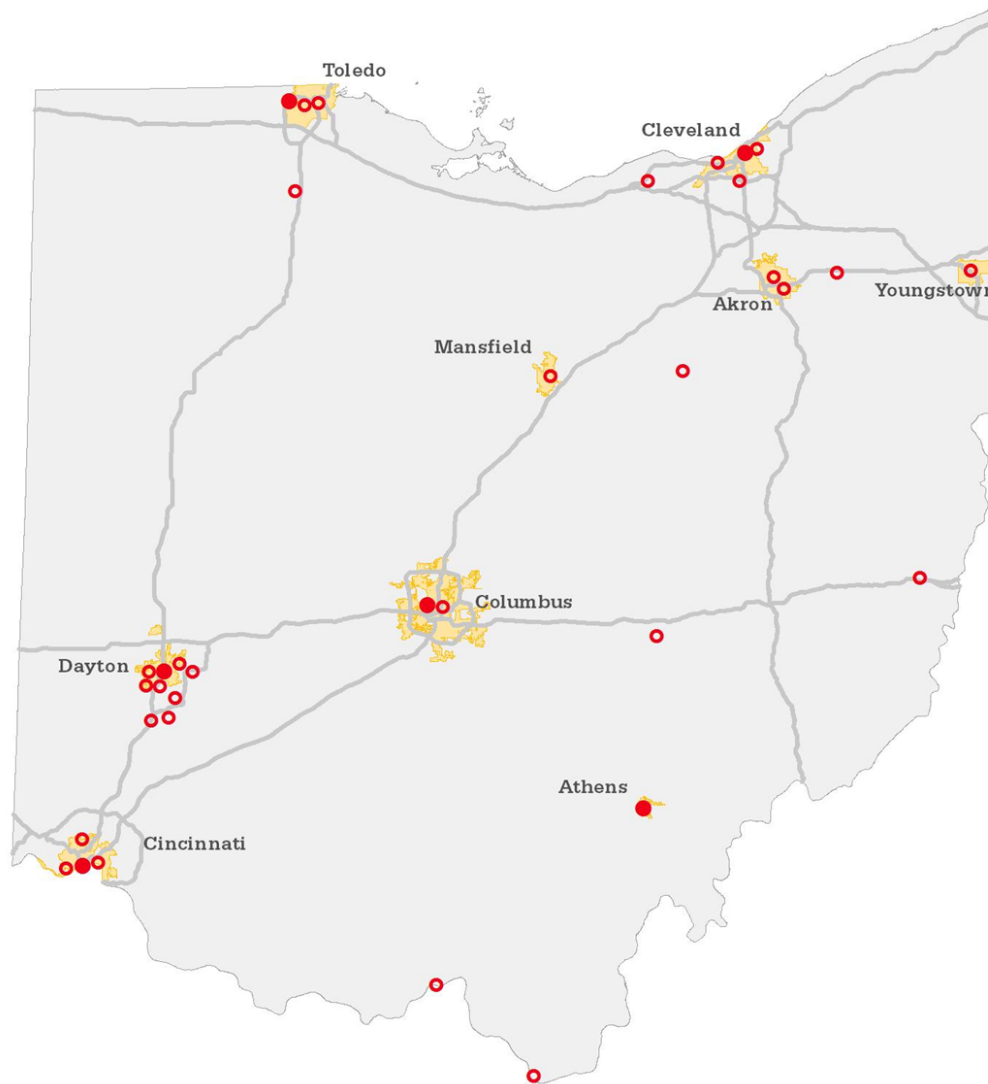


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# Meeting Objectives

# Ohio's Growing Entrepreneurial Ecosystem



# Ohio Third Frontier Commission

## Entrepreneurial Services Provider Program

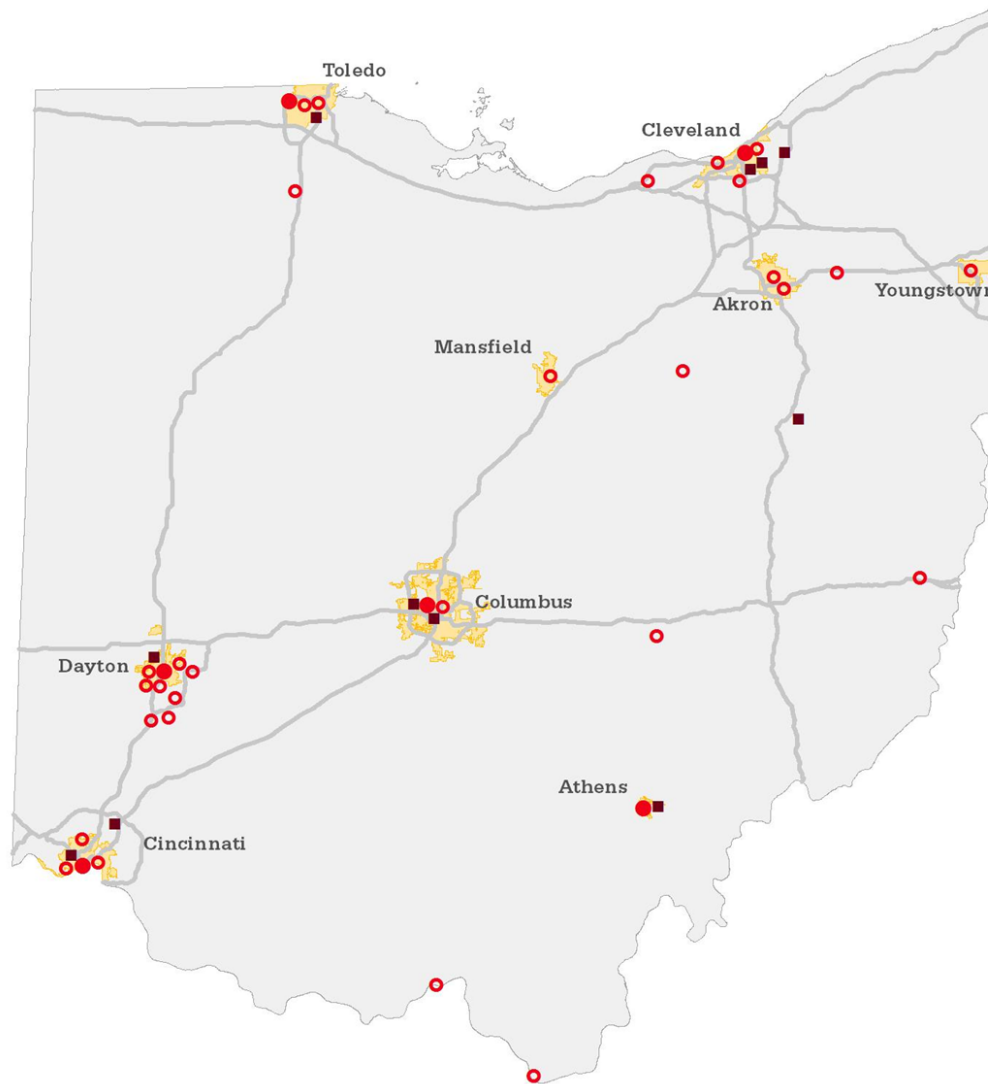
### Legend

- Entrepreneurial Services Provider Program (ESP)
- ESP Collaborator

### Key

- Interstate Highway
- City or Village

R090717A



# Ohio Third Frontier Commission

## Entrepreneurial Services Provider Program

### Legend

- Entrepreneurial Services Provider Program (ESP)
- ESP Collaborator
- Pre-Seed

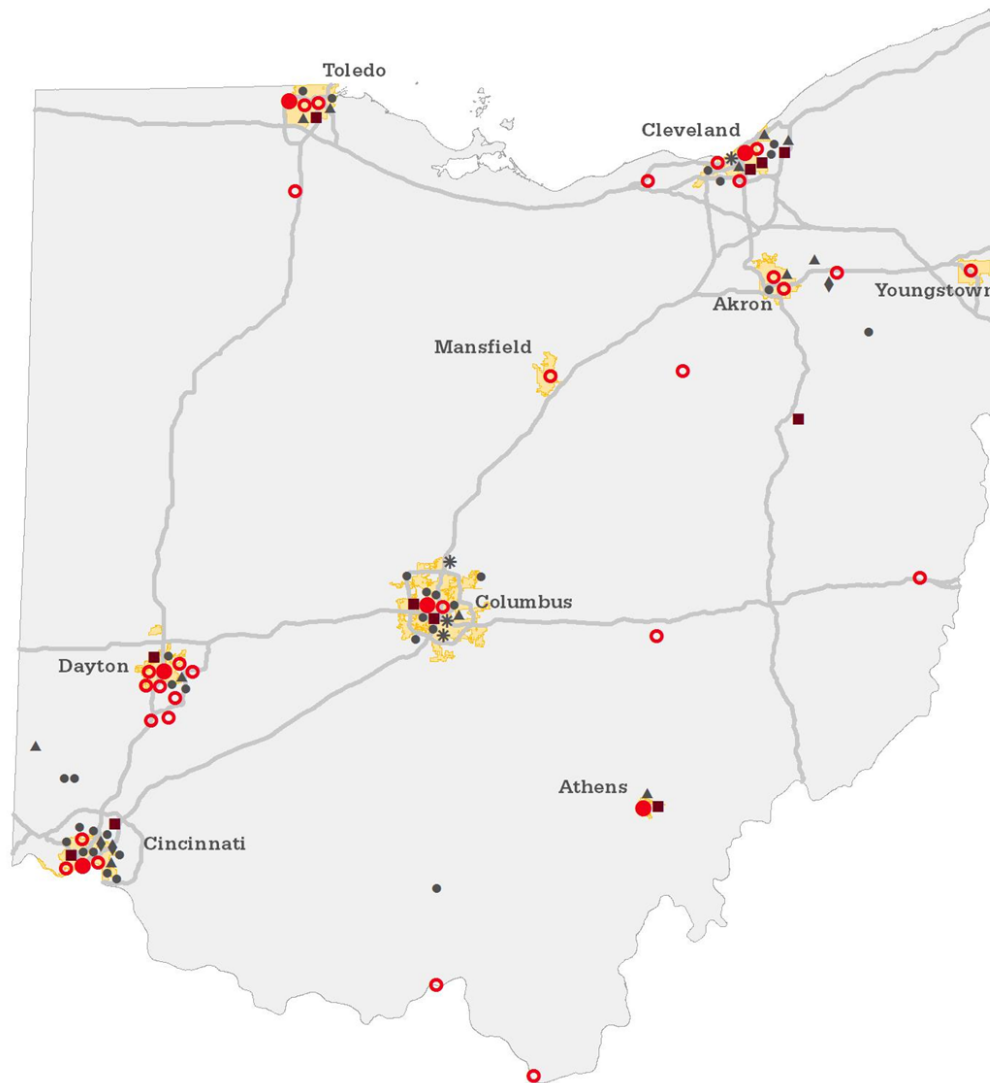
### Key

- Interstate Highway
- City or Village

R090717A

# Ohio Third Frontier Commission

## Entrepreneurial Services Provider Program



### Legend

- Entrepreneurial Services Provider Program (ESP)
- ESP Collaborator
- Pre-Seed

### Non-OTF Funded Activity

- Services
- ▲ Network
- \* Capital
- ◆ Talent

### Key

- Interstate Highway
- City or Village

R090717A

# Ohio's Growing Entrepreneurial Ecosystem

## Panel

- Bill Nemeth, Moderator
- Alvin Givens, Chase Columbus Startup Week
- Todd Whittington, Singularity University,  
Smart City Accelerator
- Adele Roth, Bounce
- Malcom Cooke, Sears think[box]



# Program Status



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# CALF Portfolio Update

# Commercial Acceleration Loan Fund

## Reconciliation – OTF Approvals to Current Portfolio

31 CALF Transaction Approved by OTF (2013 - 2017) \$38.7 MM

(7) Transactions De-Risked Prior to Closing ( \$9.9 MM)

**24 Transaction Closed (Max Principal Exposure) \$28.7 MM**

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Less Amounts De-Risked After Closing ( \$1.8 MM)

**Prospective Portfolio Size \* \$26.8 MM**

\* Assumes all milestones are met by deadline and all available funds are requested.

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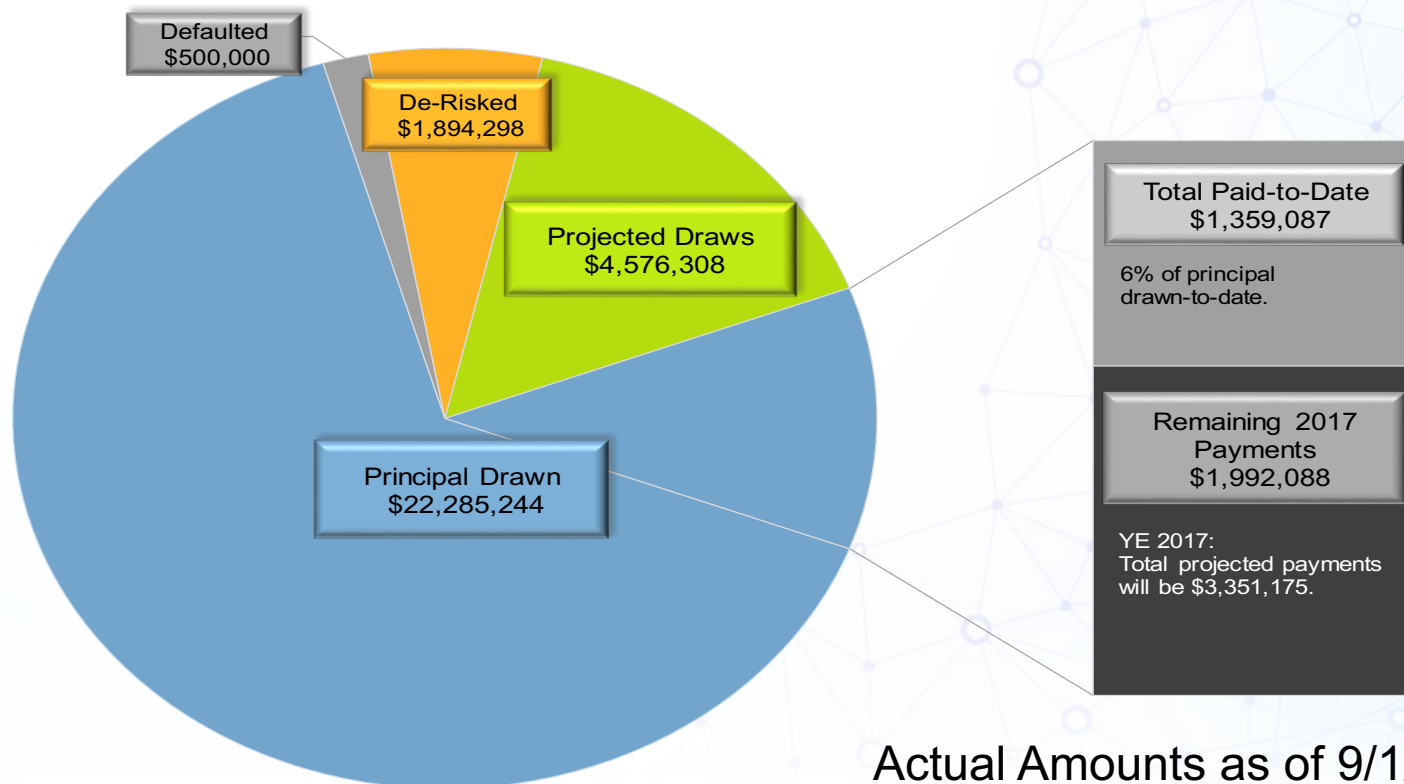
**Portfolio Size as of 9/1/2017 \$22.2 MM**

Less Principal Repayments Received ( \$1.3 MM)

**Current Principal Exposed as of 9/1/2017 \$20.9 MM**

# Commercial Acceleration Loan Fund

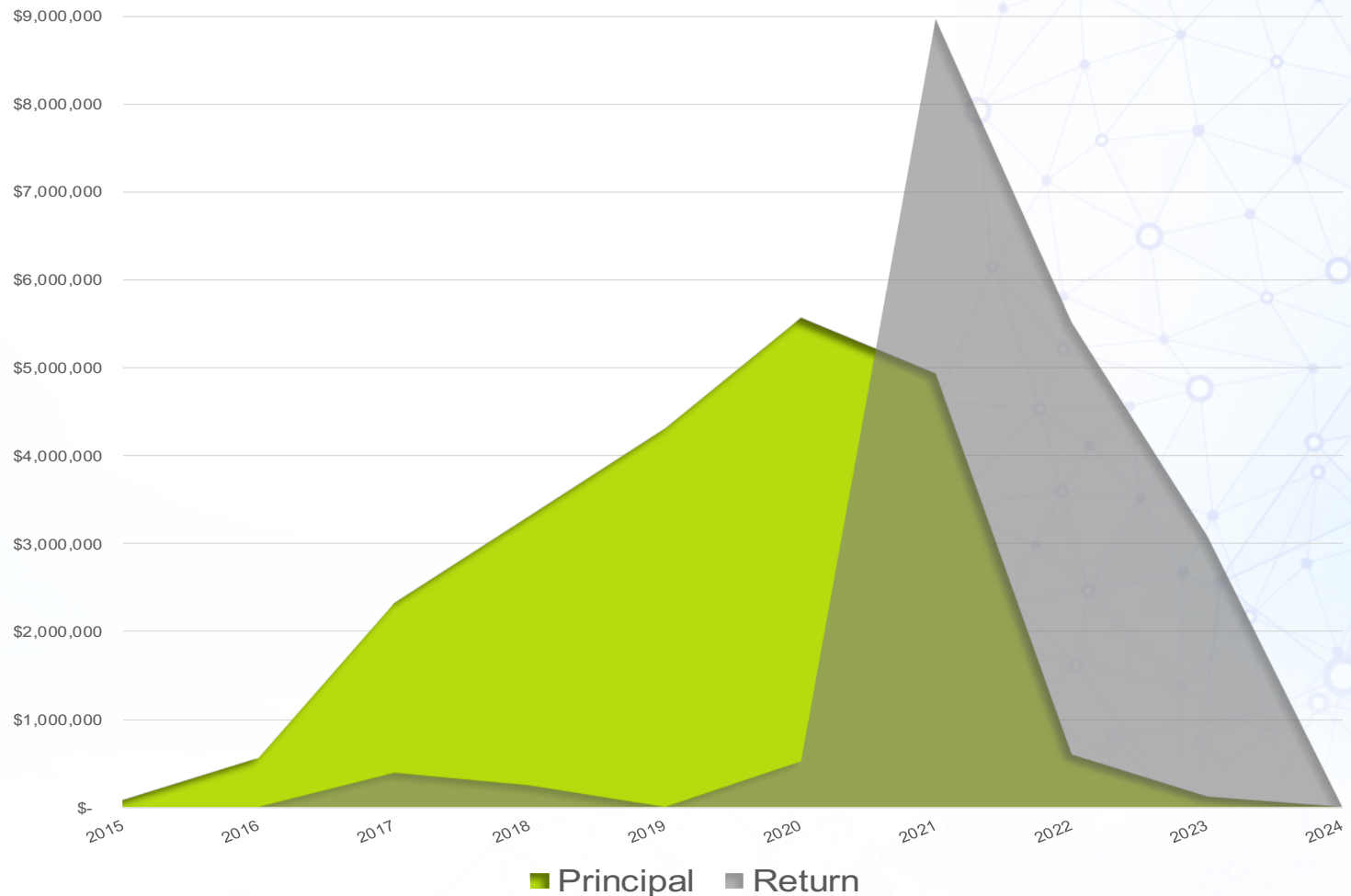
## Active Portfolio – Based on 24 Closed Loans



Current Default Rate = 1.29% (Approved Loans), 1.75% (Closed Transactions and 2.15% (Principal Drawn)

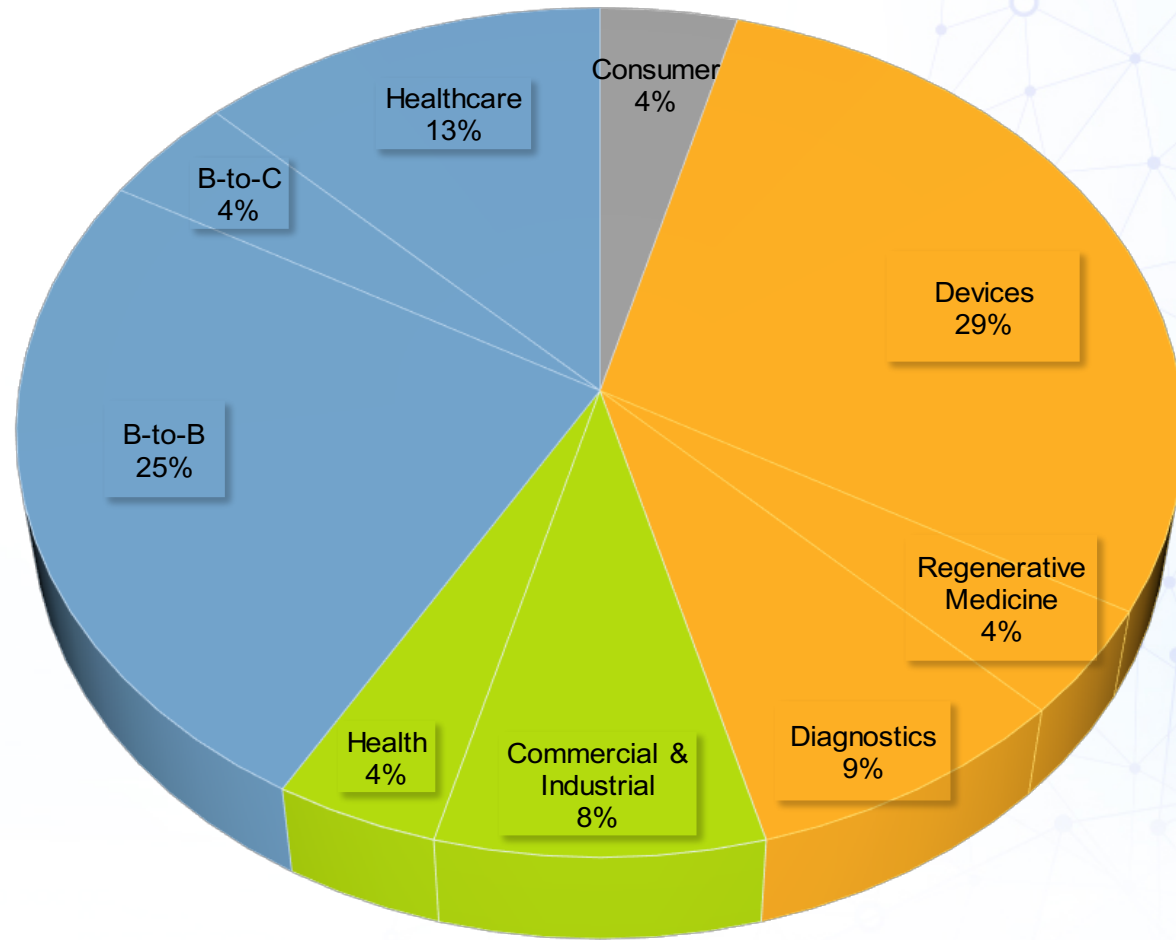
# Commercial Acceleration Loan Fund

## Max Return, \$40.5 M on \$22.2 M Drawn to Date



# Commercial Acceleration Loan Fund

## Portfolio: Industry Percentage (# Closed Loans)



BIOMEDICAL (42%) SENSORS (12%) SOFTWARE / IT (42%) LIFE SCIENCES (4%)



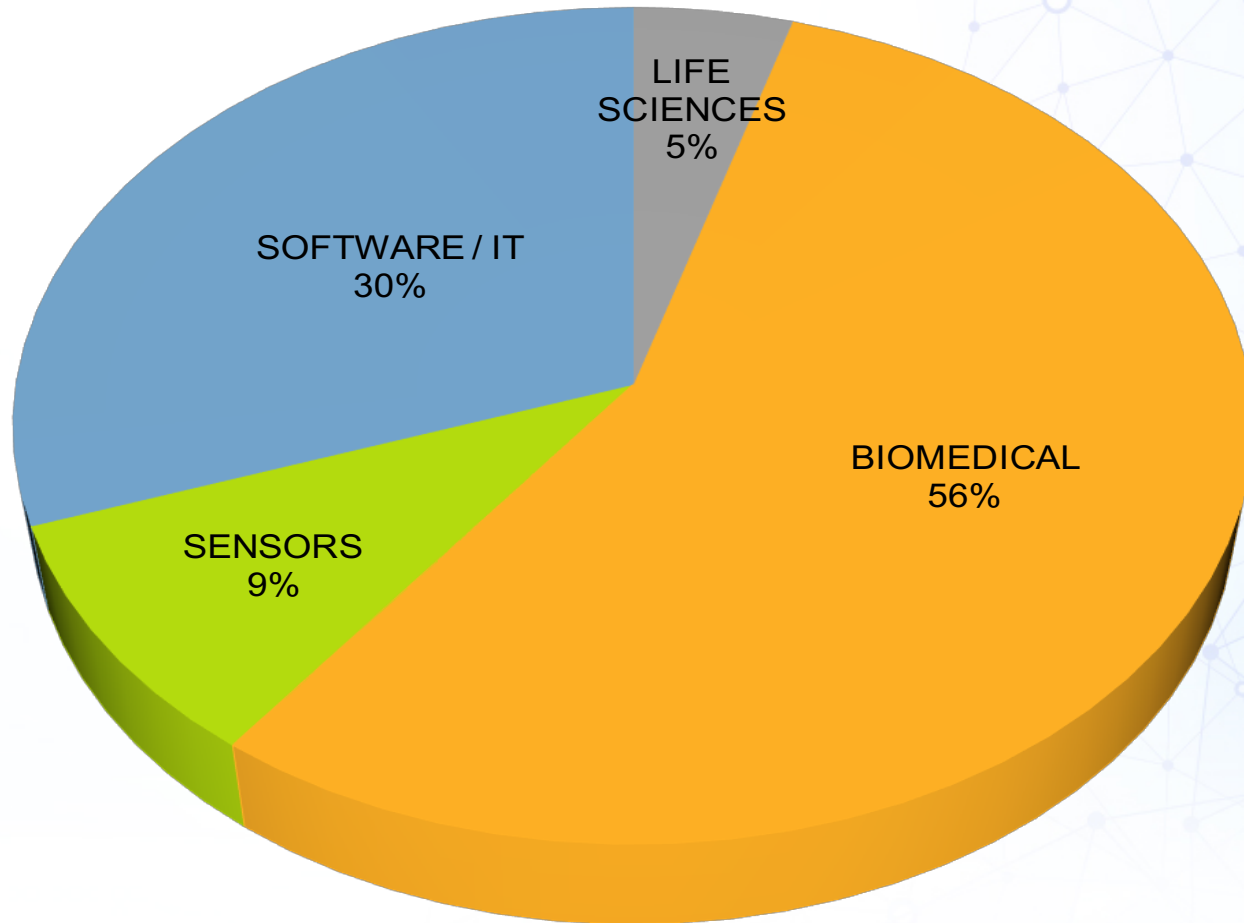
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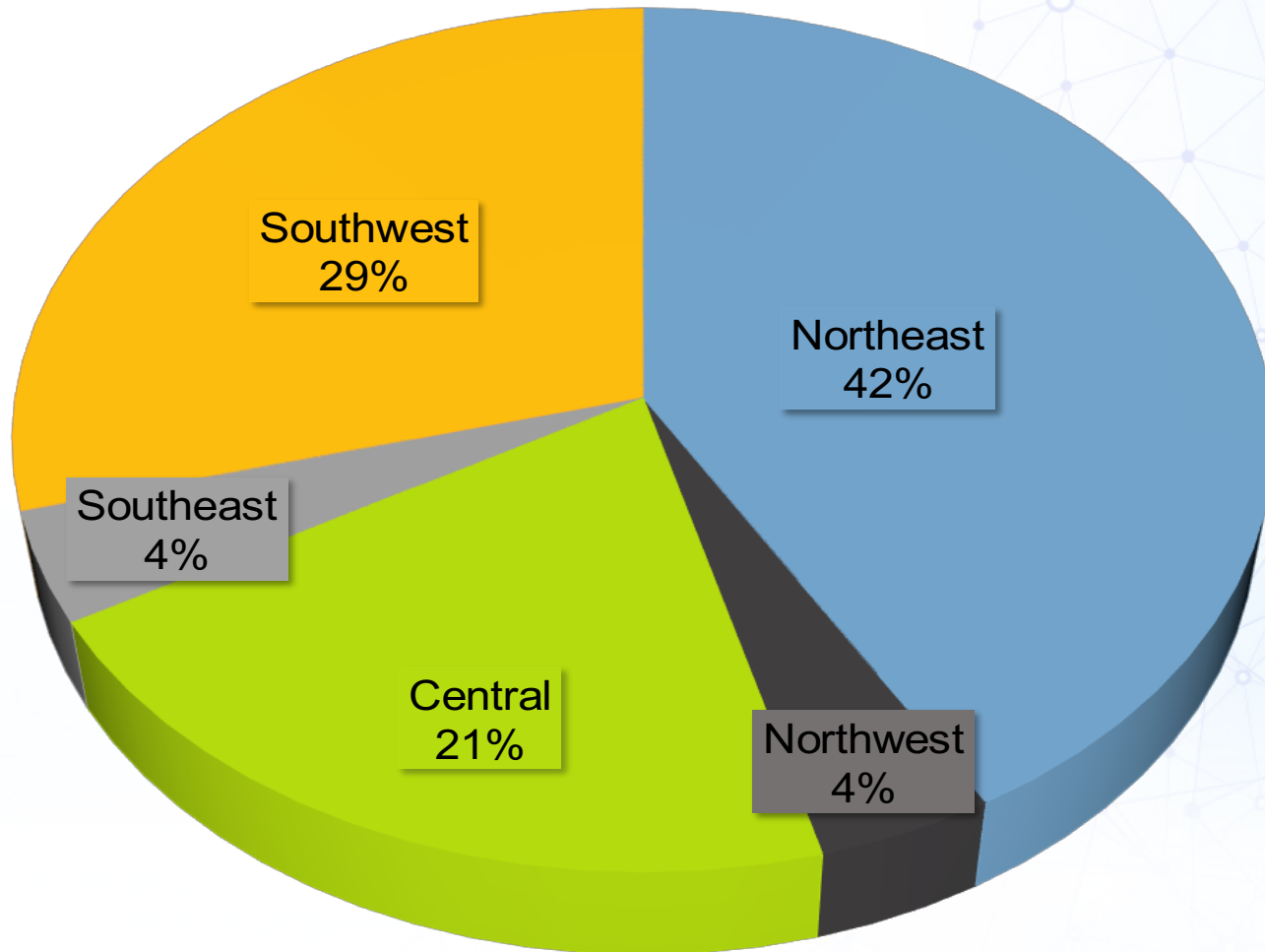
# Commercial Acceleration Loan Fund Portfolio: Industry Percentage (\$ Exposed)



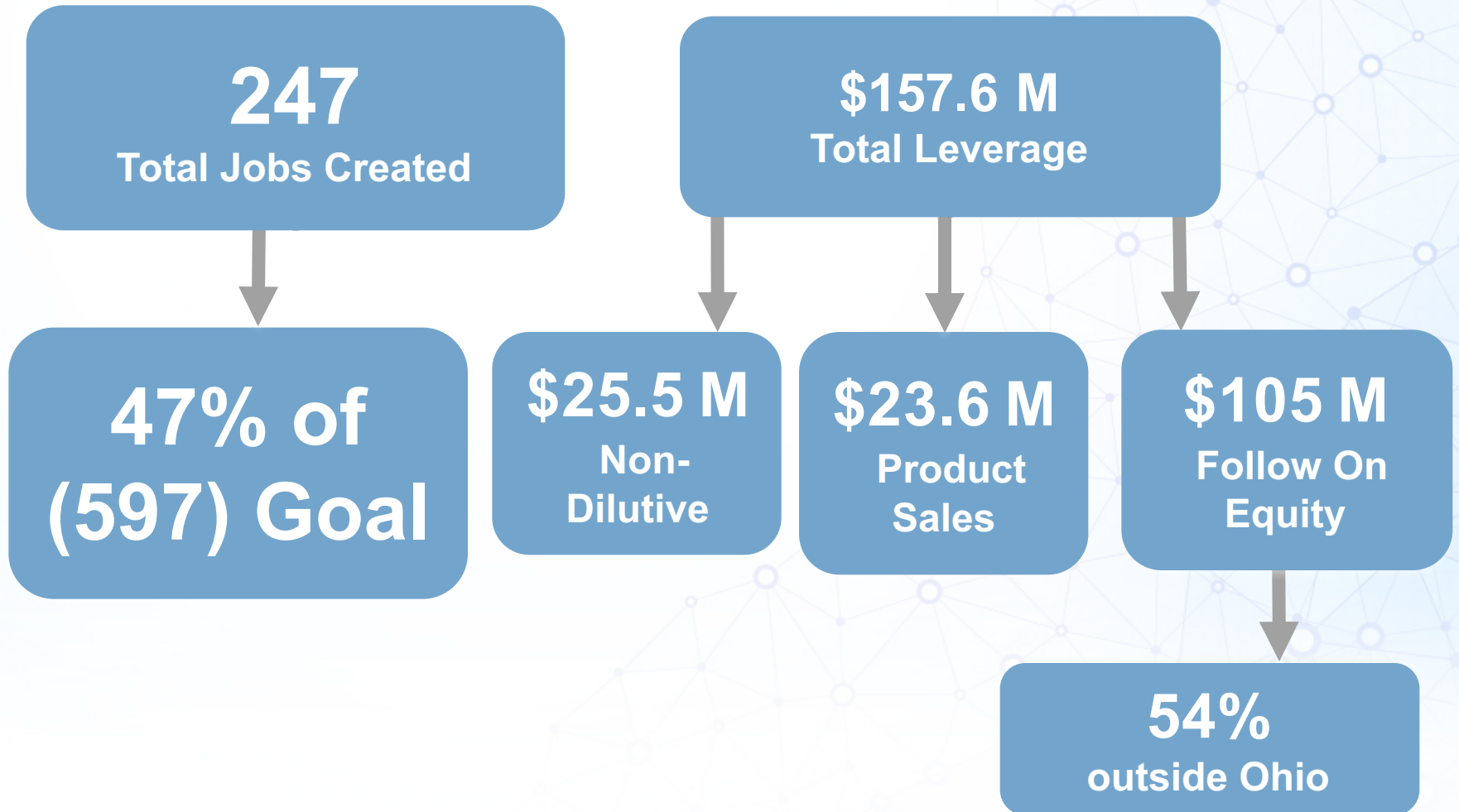
Note: 20 companies are still considered to be pre-revenue/early revenue

# Commercial Acceleration Loan Fund

## Portfolio: Representation by OTF Region



# Commercial Acceleration Loan Fund Program Metrics



# Commercial Acceleration Loan Fund

## Research & Development



# Commercial Acceleration Loan Fund

## Company News



# Seed Fund of Funds System

## Deal Flow Trends

## Metrics



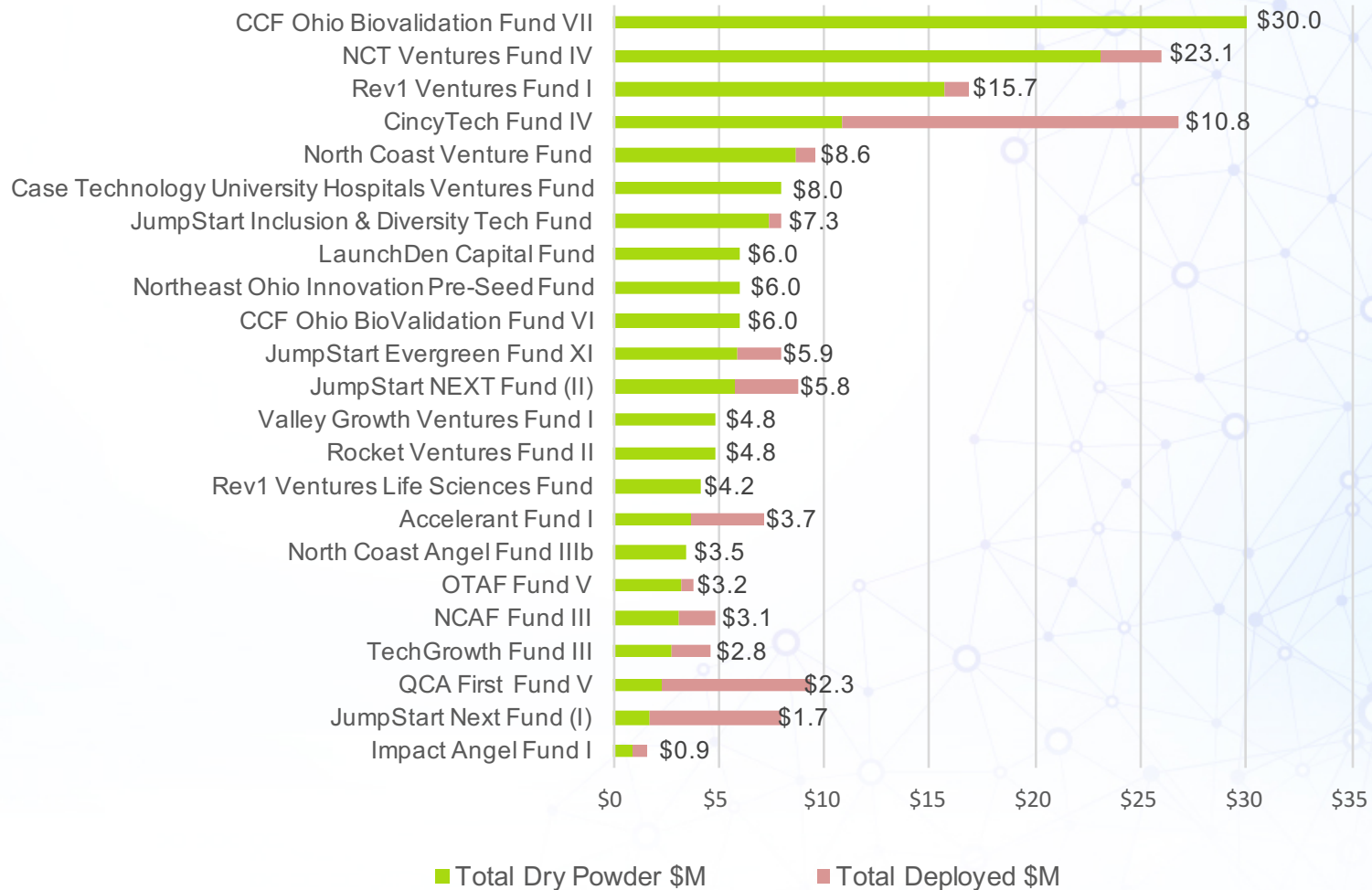
# Active Pre-Seed/Seed-Plus Portfolio

34 total funds awarded in 2013, '15 and '16

- 23 have funds remaining
- 7 fully invested
- 4 declined

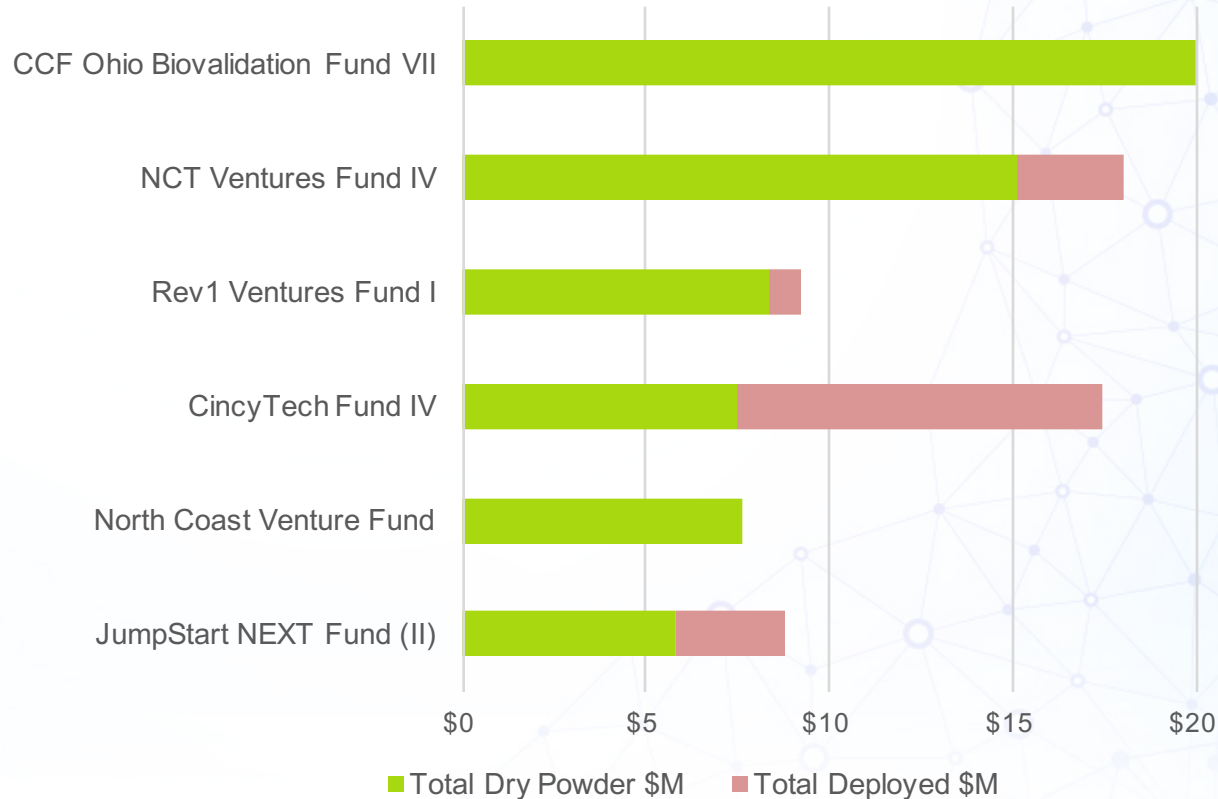
\$ Millions	OTF + Match	OTF Only
Total Original Award	\$262	\$109
Total Dry Powder	\$168	\$67
Pre-Seed Dry Powder	\$104	\$51
Seed-Plus Dry Powder	\$64	\$16

# Dry Powder by Fund: \$168M





# Seed-Plus Dry Powder: \$64M



# Dry Powder by Region

**\$4.8M / \$2.4M**  
**1 Fund**

- RGP

**\$3.8M / \$1.2M**  
**1 Fund**

- Accelerant

**\$13M / \$5M**  
**2 Funds**

- CincyTech
- QCA

**\$98M / \$31M**  
**14 Funds**

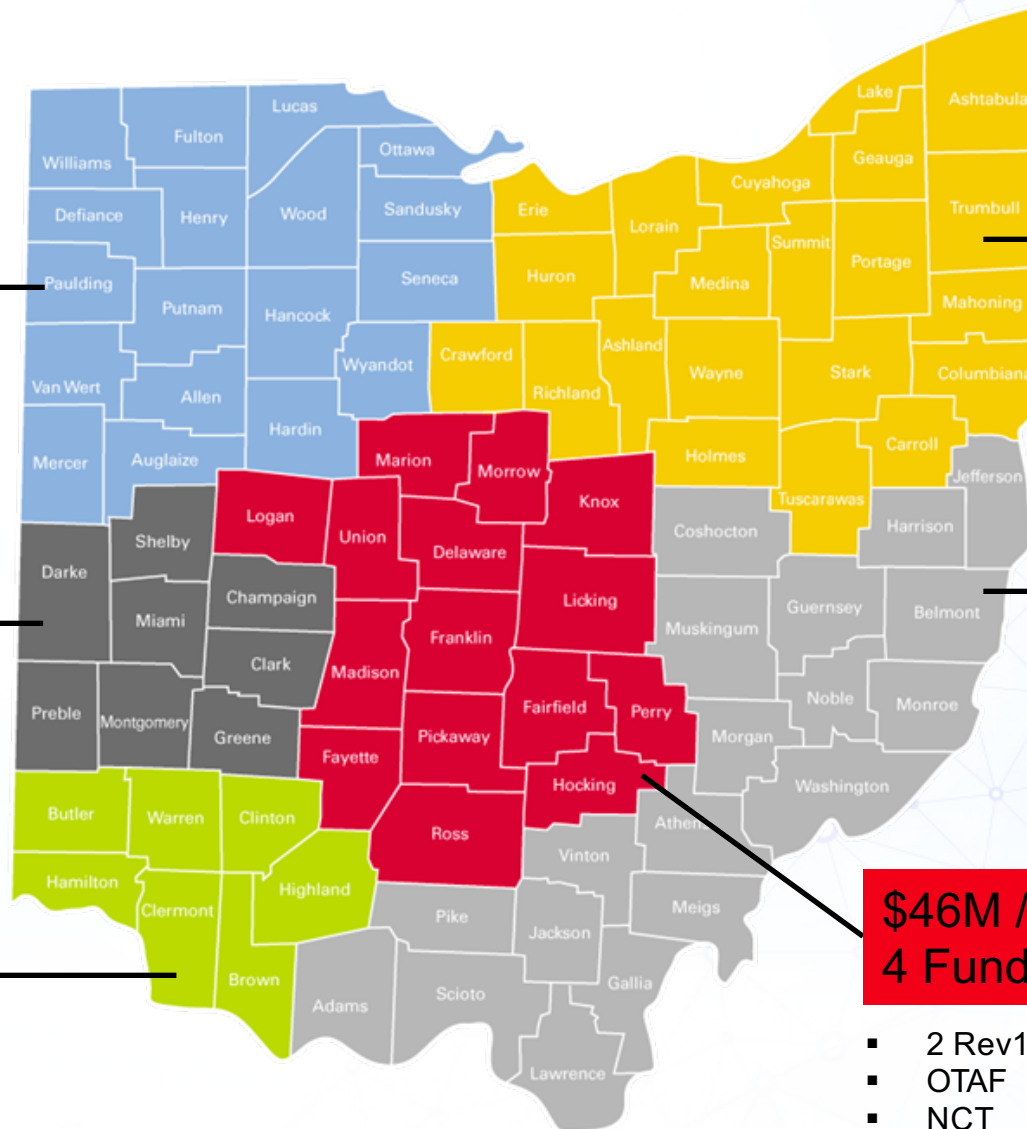
- 4 JumpStart
- 3 NCAF
- 2 CCF
- 1 each, 5 others

**\$2.8M / \$1.1M**  
**1 Fund**

- TechGrowth

**\$46M / \$17M**  
**4 Funds**

- 2 Rev1 Ventures
- OTAF
- NCT



# Dry Powder by Organization

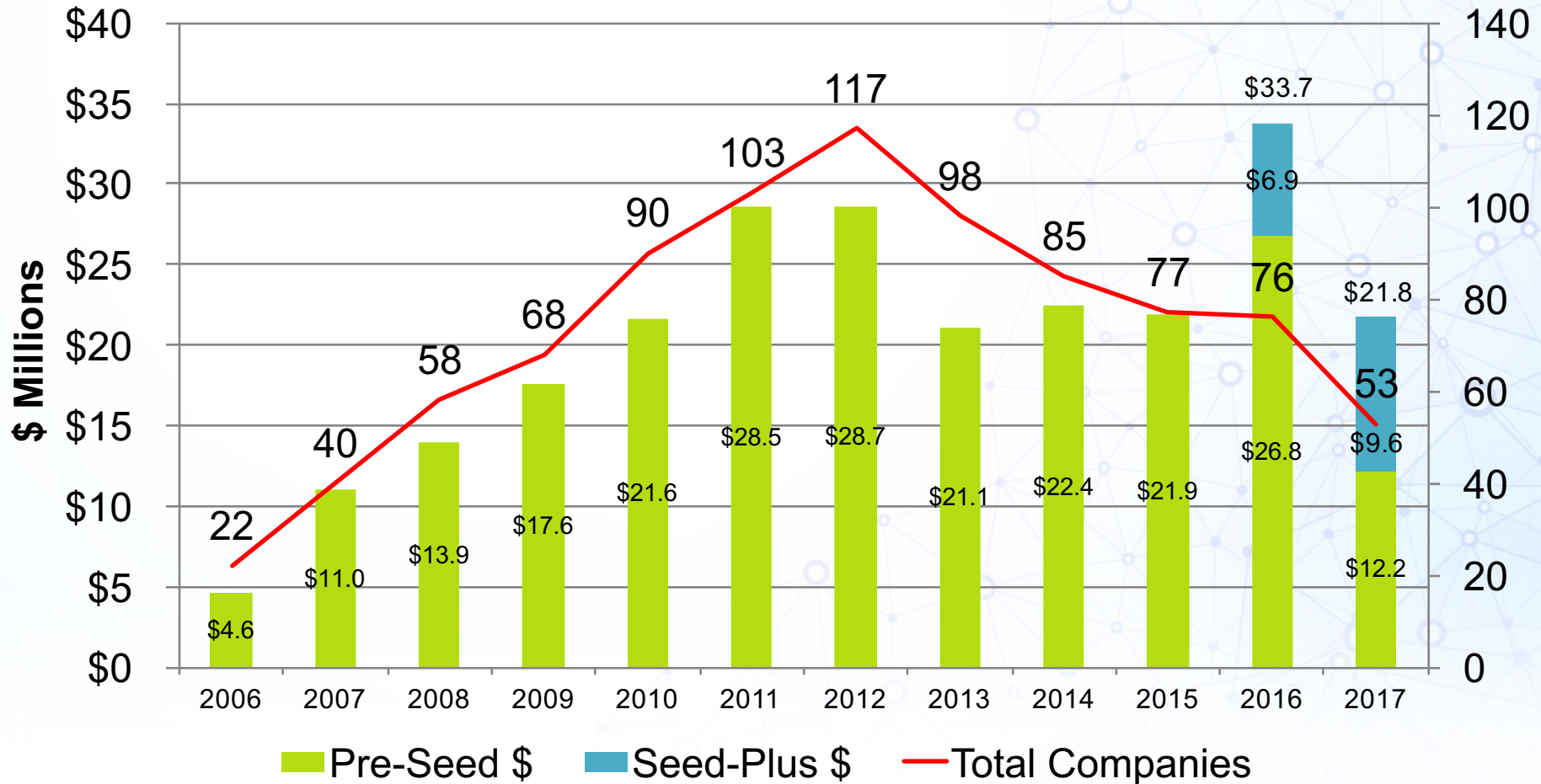
ESPs	\$
JumpStart (4)	\$20.7
Rev1 (2)	\$19.9
CincyTech	\$10.8
Toledo	\$4.8
TechGrowth	\$2.8
Dayton	\$3.7
<b>Total (10)</b>	<b>\$62.7</b>

Angels	\$
NCAF (3)	\$15.2
OTAF	\$3.2
QCA	\$2.3
Impact	\$0.9
<b>Total (6)</b>	<b>\$21.6</b>

Private/NP	\$
Clev. Clinic (2)	\$36.0
NCT	\$23.1
Case	\$8.0
LaunchDen	\$6.0
LCCC IF	\$6.0
Valley Growth	\$4.8
<b>Total (7)</b>	<b>\$83.9</b>

# Total Fund Activity

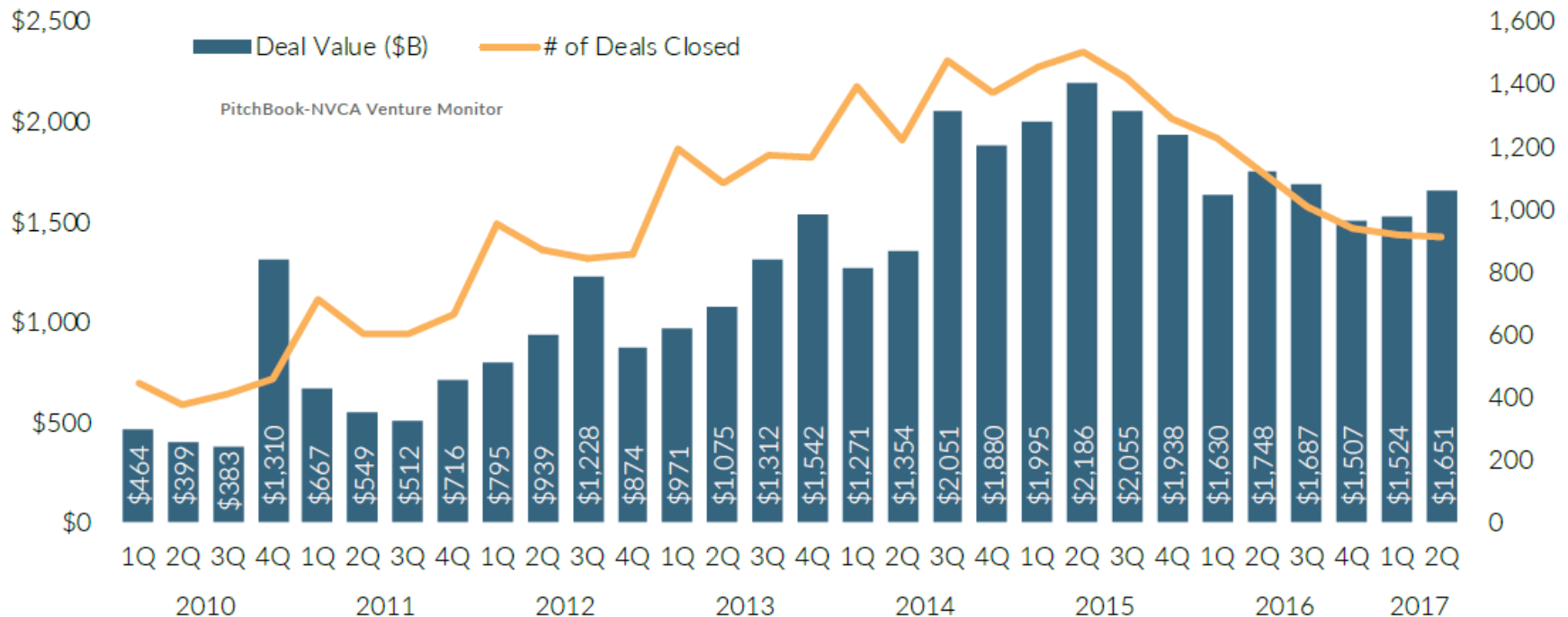
Total # of deals/year has declined, while total investment has increased



# US Angel and Seed Activity

The trend nationally is similar, although much more recent

US angel & seed activity



PitchBook-NVCA Venture Monitor

\*As of 6/30/2017



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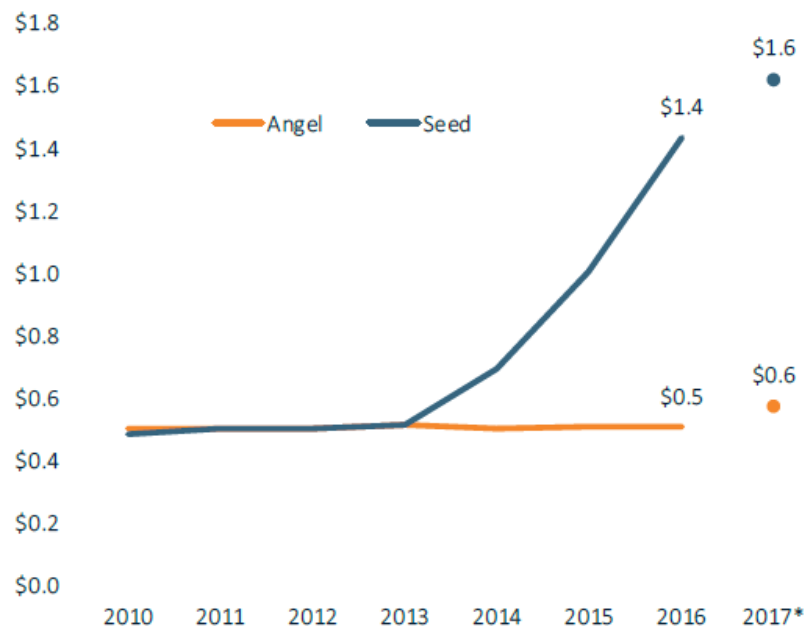


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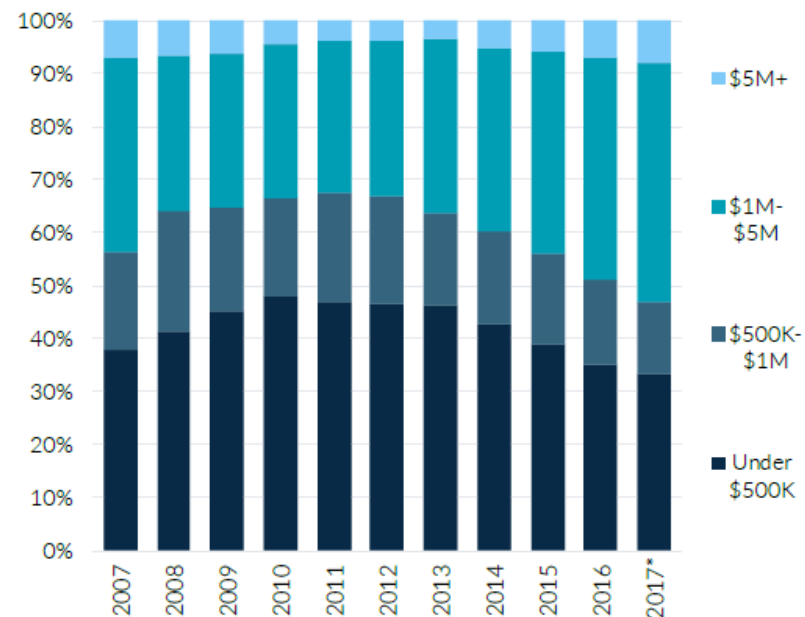
# US Angel and Seed Activity

As 'A' rounds have gone later, deal sizes have increased significantly

Median US angel & seed deal size



US angel & seed activity (#) by size



PitchBook-NVCA Venture Monitor

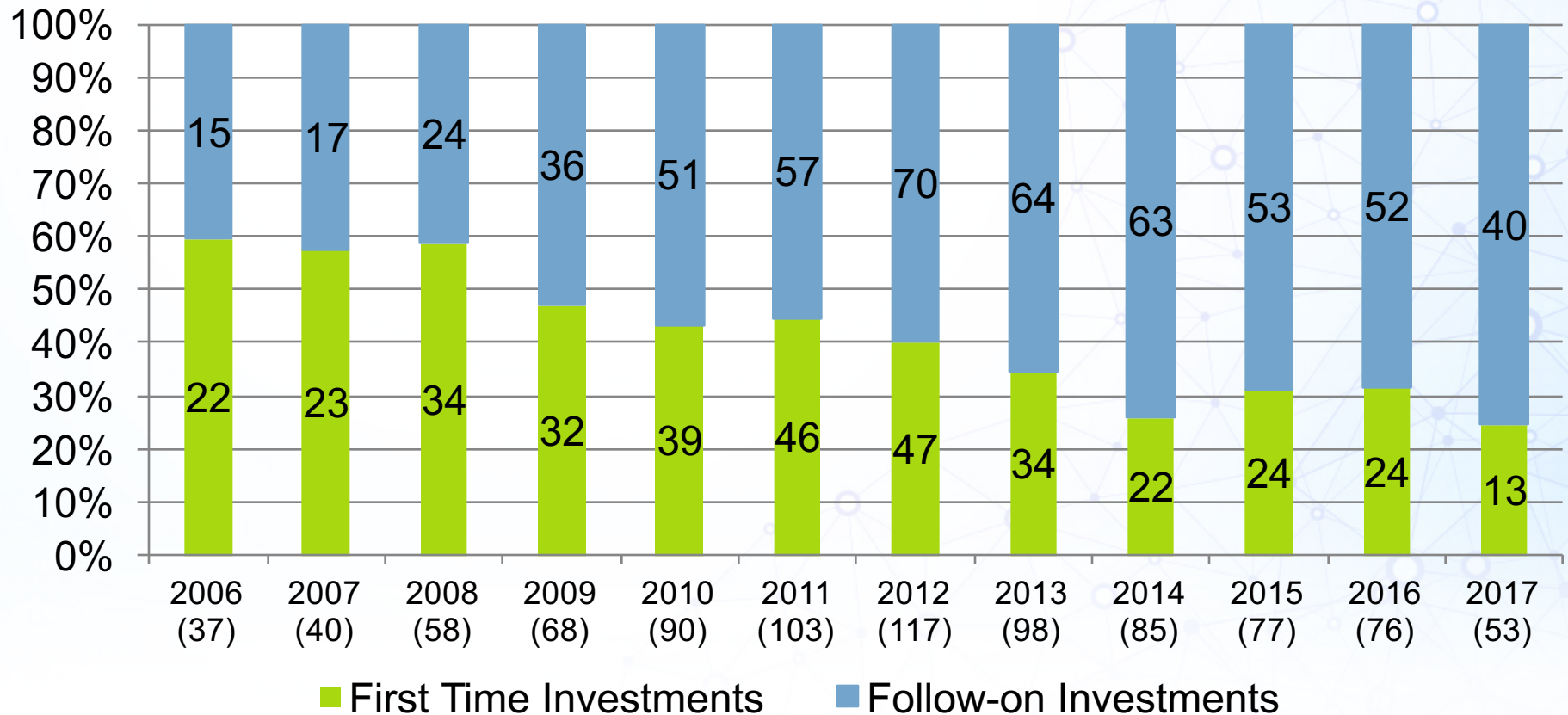
\*As of 6/30/2017



# Share of First-Time Investments

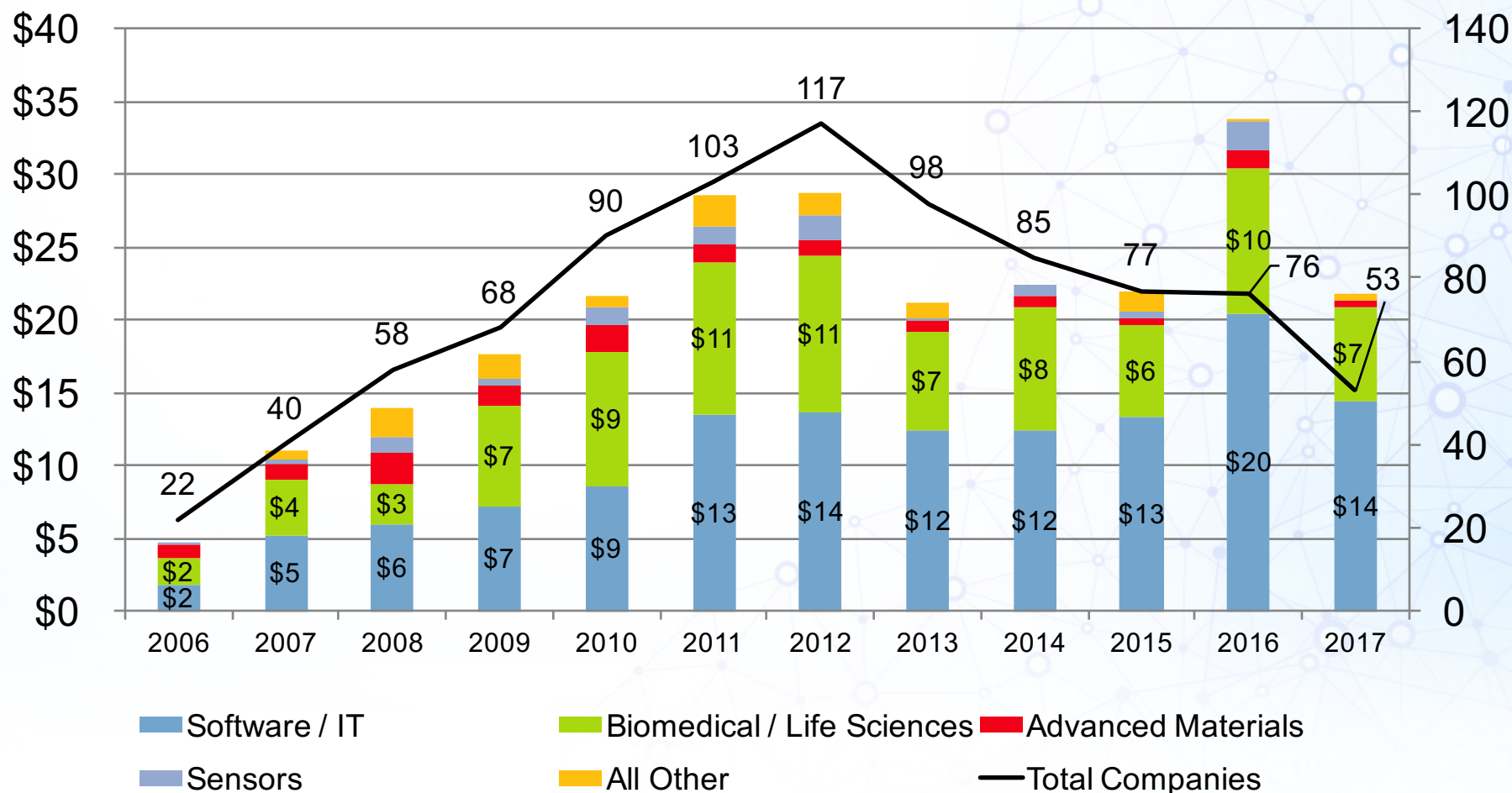
The number of deals to follow-on investments has risen

## # of Companies by Frequency



# Total Investment by Tech Focus Area

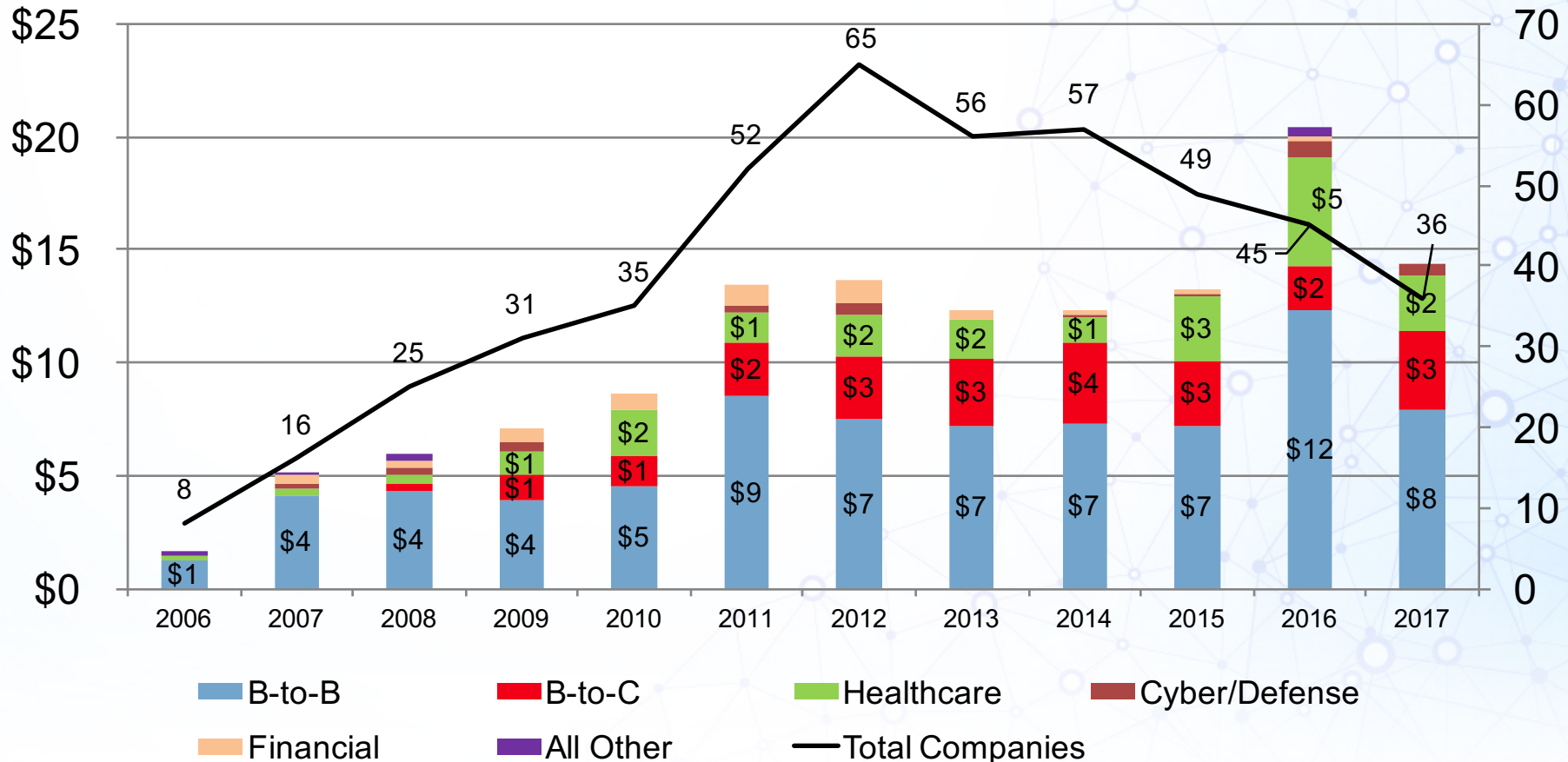
Software / IT investments increasing; all others tech areas remain steady





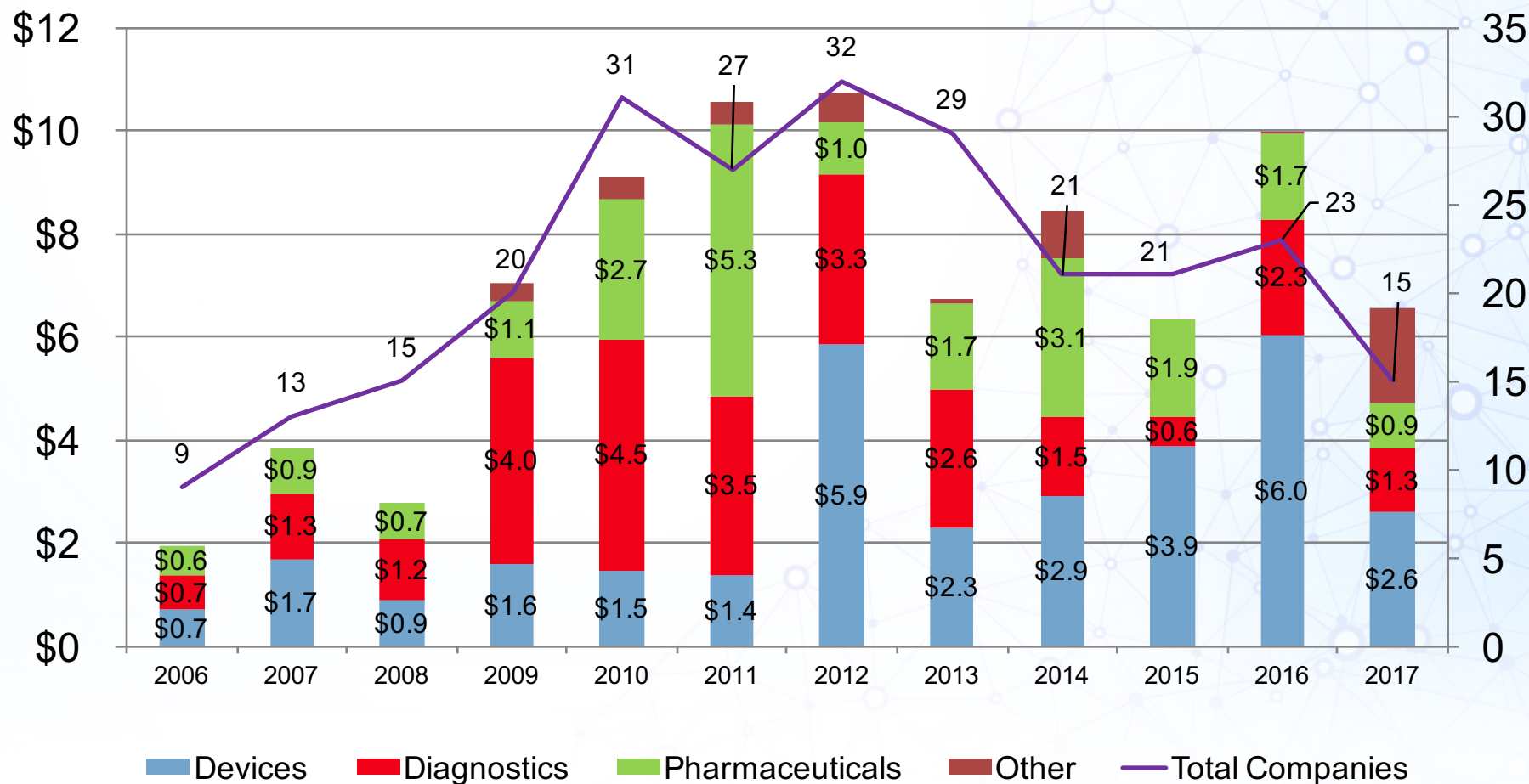
# Investment in Software / IT

Most of the increase in software / IT investment is driven by B-to-B



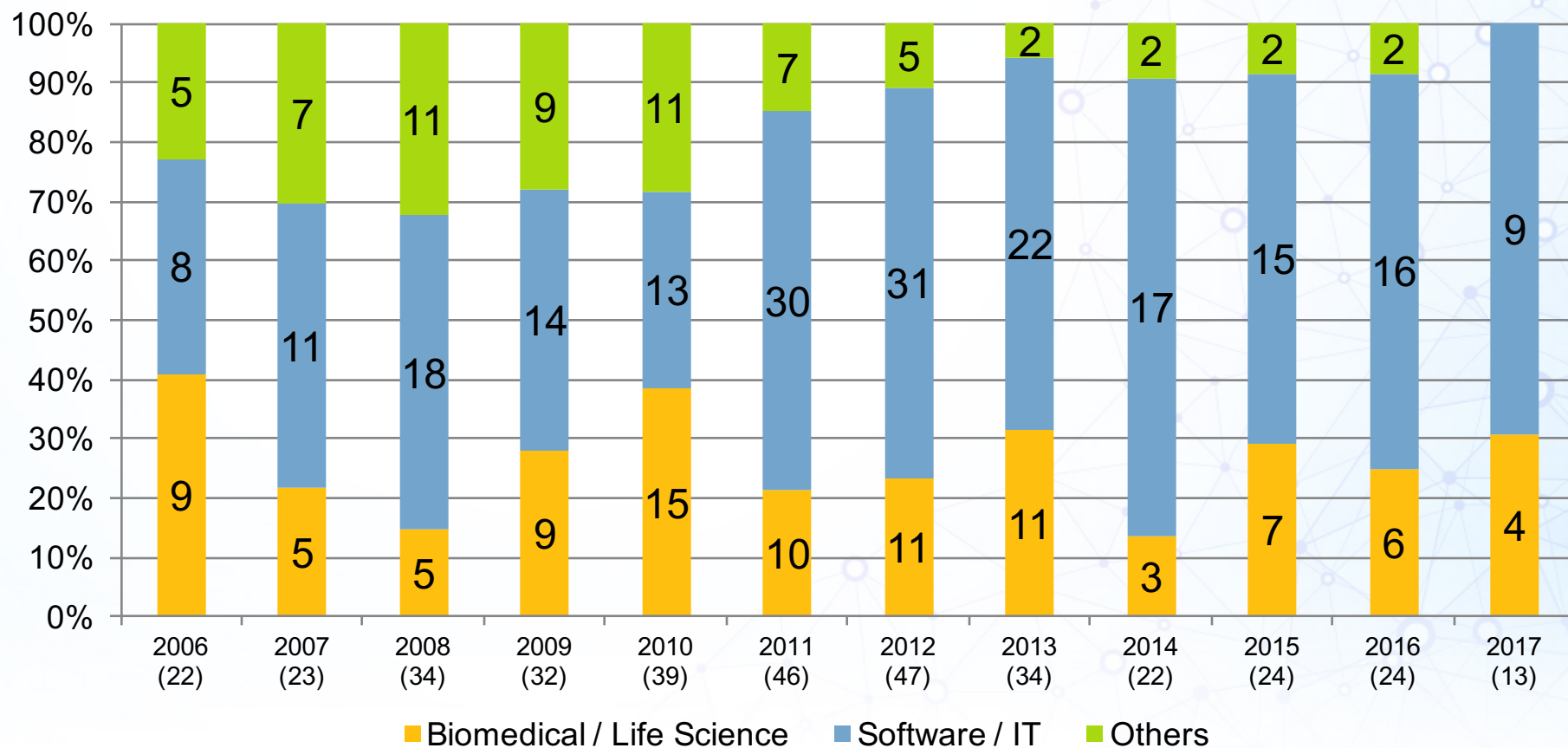
# Investment in Biomed / Life Science

Biomedical / life sciences investment is consistent between \$7-\$11M annually



# Vintage by Tech Focus Area

The percentage of new companies each year are increasingly software / IT



(# companies in that class)

# Pre-Seed Investments Since 2006

**360 companies**

\$247M total invested: \$113M OTF / \$134M Match

**3,288**

New Jobs

**\$1.75B**

Follow-on  
Equity

**\$1.77B**

Product  
Sales / Rev.

**\$1.65B**

Exits



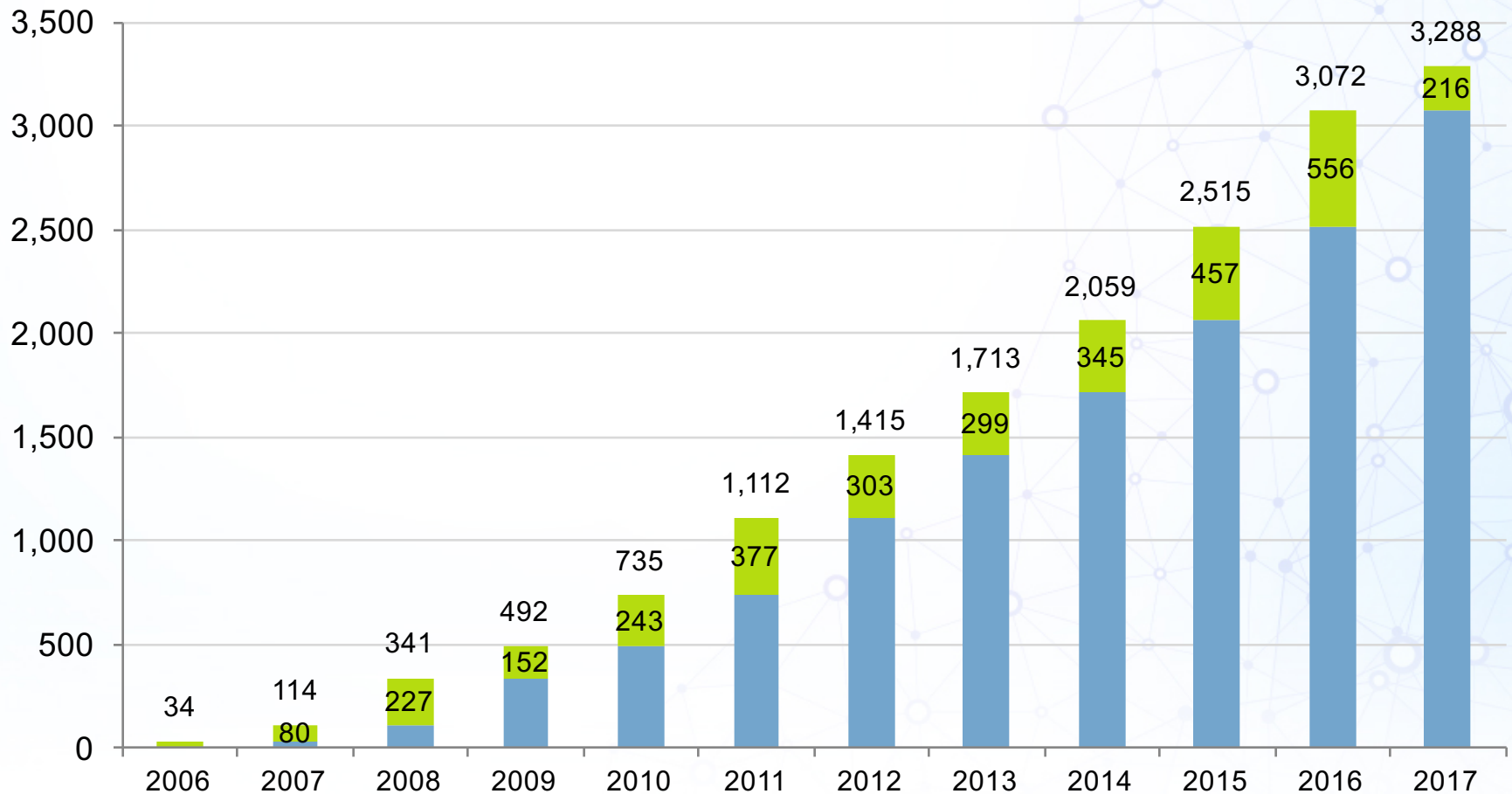
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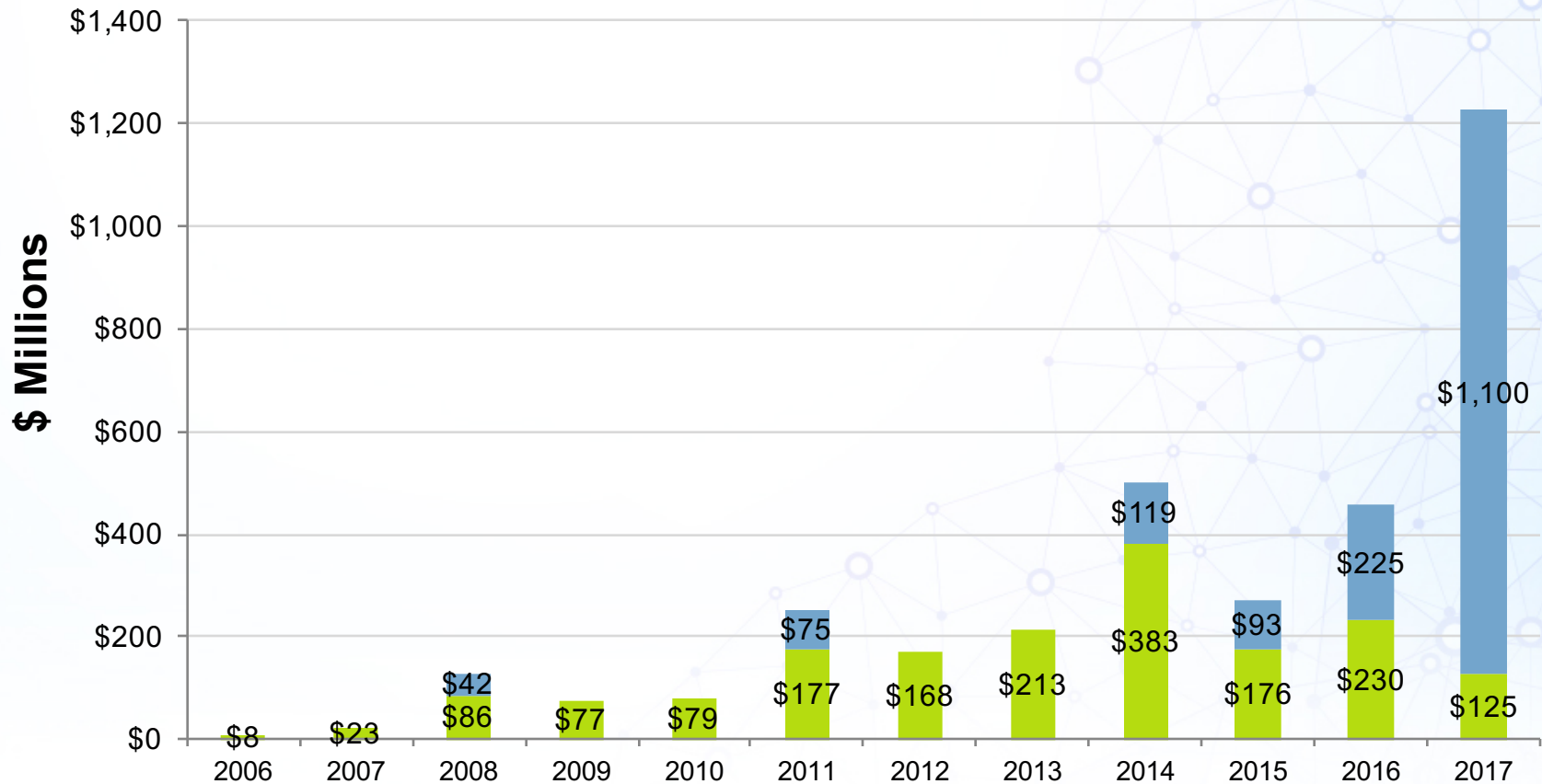
# Total New Jobs Created

Green indicates net new job creation from the prior year



# Follow-on Equity and Exits

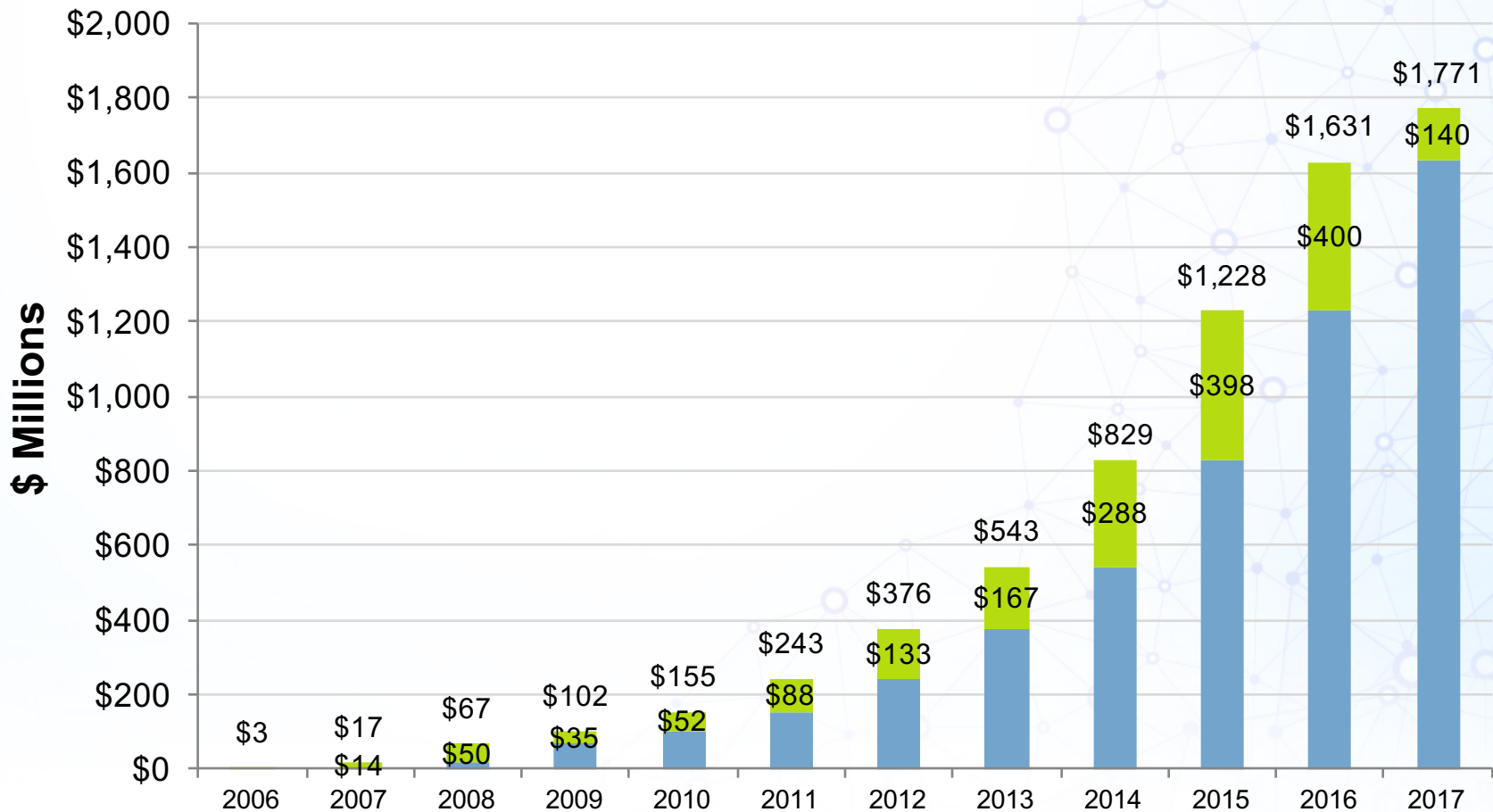
■ Follow-on Equity = \$1.75B    ■ Exits = \$1.65B





# Product Sales / Revenue Generated

Green indicates new product sales / revenue generated in that year



# Questions?



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# ESP Option Year Evaluation Criteria

# Lunch KeyBank/JumpStart Partnership



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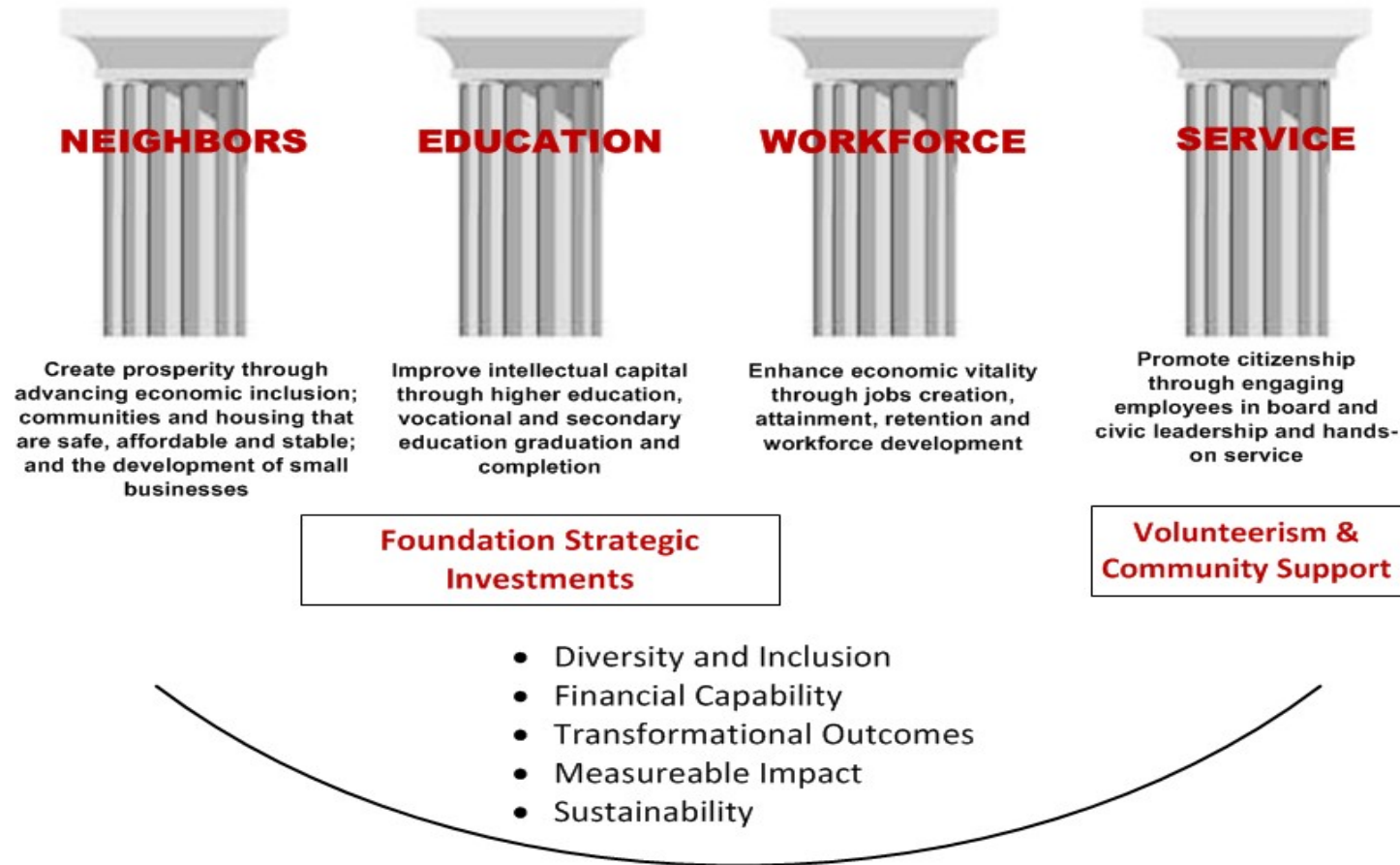
## Business **Boost & Build**

Powered by JumpStart

Ohio Third Frontier Retreat  
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# KeyBank Foundation Strategic Framework

## THRIVING COMMUNITIES



# KeyBank and JumpStart's Long Term Partnership

- KeyBank has been JumpStart's most significant single corporate partner since 2004, through funding, board leadership and community engagement
- The KeyBank Foundation has provided more than \$1.1M, to match ESP funds, to support JumpStart's identifying and supporting minority and female entrepreneurs
- KeyBank values the alignment of Ohio Third Frontier and the ESP program, and JumpStart's capabilities, with its own goals and objectives
- The KeyBank Business Boost and Build Program, powered by JumpStart, reflects a long-term (4 year) commitment to these goals at a dramatically new scale of commitment

## Business Boost & Build

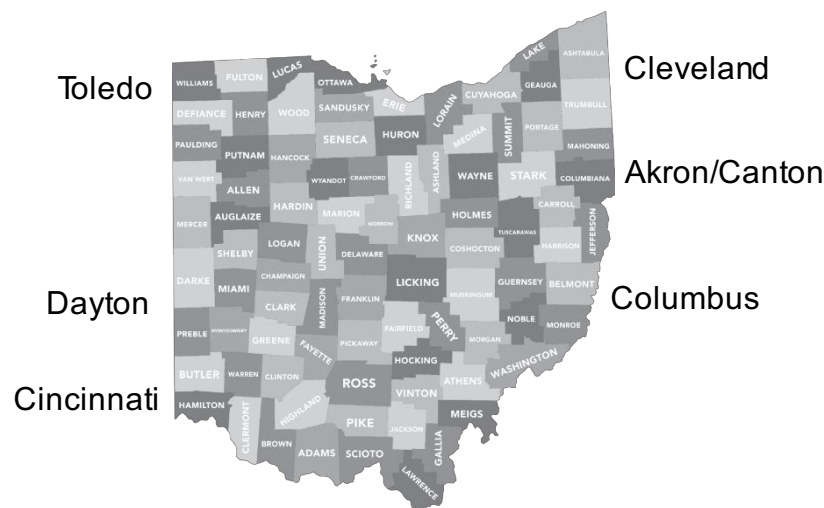
Powered by JumpStart

Ohio Activity for Four Years: 2017 - 2021	Outcomes Over Four Years of the Program		
	Businesses or individuals engaged	% Minority, Female-led	New Jobs Created
#1 Accelerate NEO Tech Startups and Scaleups with technical assistance (aligned with the ESP)	2,000 businesses	25%+	4,000+
#2 Support “Core City” companies located in Cleveland neighborhoods	1,200 businesses	70%+	600+
#3 Internships and job placement for Cleveland Metropolitan School District students	1,000 students	70%+	
#4 Dramatically increase the participation of minority, female, and rural entrepreneurs and those seeking to work in their companies through the statewide KeyBank Center for Technology, Innovation, and Inclusive Growth	1,000 individuals 500 businesses	100%	750+
Total in Ohio	4,000+ businesses 2,000 individuals or students		5,300+ new jobs created



# How We Can Work Together to Increase Diversity of Our Ecosystem via the KeyBank Center

KeyBank Market Presidents, Corporate Responsibility Officers, JumpStart, and others will meet to identify potential partnerships, particularly for the statewide KeyBank Center for Technology, Innovation, and Inclusive Growth



Through our discussions, we will seek:

- Programs with proven impact to scale the participation of minorities, females, and those in rural communities in the innovation economy, and complement/fill in gaps in the existing ecosystem
- Additional partners who value these activities and through financial and other support, provide opportunities for even more Ohio residents

# KeyBank/JumpStart Partnership Panel

- Cathy Belk, JumpStart
- Lamont Mackley, JumpStart
- Karen White, KeyBank



# TechOhio

*The Voice of Ohio Third Frontier*

## Impact Report



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# Another Big Win for Ohio: CoverMyMeds



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# In Their Words



“The story of Sense Diagnostics is the story of resources in Ohio to help entrepreneurs. At no point have we felt we were going it alone. That’s Ohio’s commitment to entrepreneurs.”  
–**Dan Kincaid**, CEO, Sense Diagnostics

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“Entrepreneurship in Ohio is great. We have access to tremendous talent and an ability to keep costs lower than other parts of the U.S. Everybody has been wonderful, and there’s certainly a spirit of community you sense in the state.”  
–**Darrel Bass**, Founder and CEO, Bass International Software

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“When you talk about the startup ‘community’ in Ohio, it’s real and we’ve felt it. Having a support system like that is invaluable to us.”  
–**Sam Malik**, Co-founder and CEO, Meelance

# Growing Content

On the topics of: *Capital, Companies, Entrepreneurship, Founders, Industries & Research*

**39 Original Founder Stories**

**160+ Original Videos**

**330+ Original Articles**

**2,400+ News Articles**





# Focus on Diversity and Inclusion

[TOPICS](#) [ABOUT](#) [CONTACT US](#)

[Home](#) » [Entrepreneurship](#) » [Hillman Accelerator Helps Minority and Women-Led Startups Succeed](#)

## Hillman Accelerator Helps Minority and Women-Led Startups Succeed

Posted on August 17, 2017 by [llsacolbert](#) In [Entrepreneurship](#), [Featured Stories](#) // 0 Comments



This is a two-part story on a new business accelerator founded in Cincinnati, Ohio. Part One provides background on the program designed to assist minority and women-led startup companies. Part Two, released following the completion of the program in October 2017, will highlight the experiences of the companies in the inaugural class.

- *‘Diverse talent is crucial to a company’s success’ – i.c.stars leader*
- *Former Bengal launches minority business accelerator*
- *Don’t ignore the innovative power of inclusion*
- *BlkHack meetup to share pathways to the startup world for minorities*

# Ohio Third Frontier Tackling Opioid Crisis

## High-Tech Ideas to Fix Opioid Crisis Compete for Ohio Grants

**U.S. News** & WORLD REPORT

*A call by Ohio Gov. John Kasich for scientific breakthroughs to help solve the opioid crisis is drawing interest from dozens of groups with ideas including remote controlled medication dispensers and pain-relieving massage gloves.*



Opioid crisis sparks innovative proposals in fight against epidemic

### The Columbus Dispatch

Massage gloves, pain blockers:  
Ohio turns to tech to battle opioid crisis



NineSigma Inc. of Beachwood receives \$8 million to run Ohio Opioid Technology Challenge



Can tech solve the opioid crisis?



High-tech ideas to fix opioid crisis compete for Ohio grants

## Video Clips



Ohio's Governor is helping find a way to end the heroin problem



Governor John Kasich giving an incentive to innovators who want to help fight the states incredible opioid crisis



Innovators Fighting Opioid Epidemic



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Home » Ohio. Find it here. » 10 Best Places to Visit in Ohio

## 10 Best Places to Visit in Ohio

Posted on May 3, 2017 by lisacolbert in Ohio. Find it here. // 0 Comments



*Story excerpt provided by Touropia.*

Smack dab in the heart of the Midwest is the state of Ohio. Created in part by natural borders, Ohio is shaped by both Lake Erie and the Ohio River. The state boasts an appealing combination of interesting cities, pristine natural scenery and charming farms. Whether you're exploring Ohio for a weekend visit or a long vacation, there is lots to see. While major cities like **Cleveland**, **Columbus** and **Cincinnati** are among the best places to visit in Ohio, this guide also suggests some wonderful additions to your Buckeye State itinerary.

Click here to read the **complete** article.

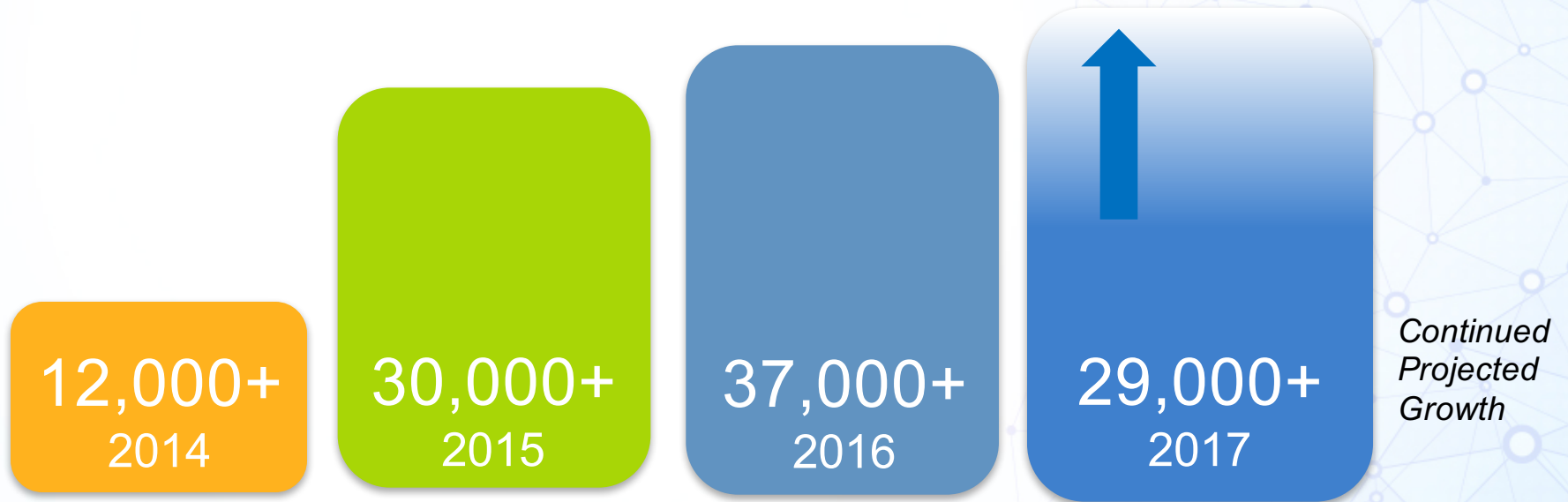
# Focus On Lifestyle



# Focus on Lifestyle

# TechOhio

# Spreading the Word – Our Metrics

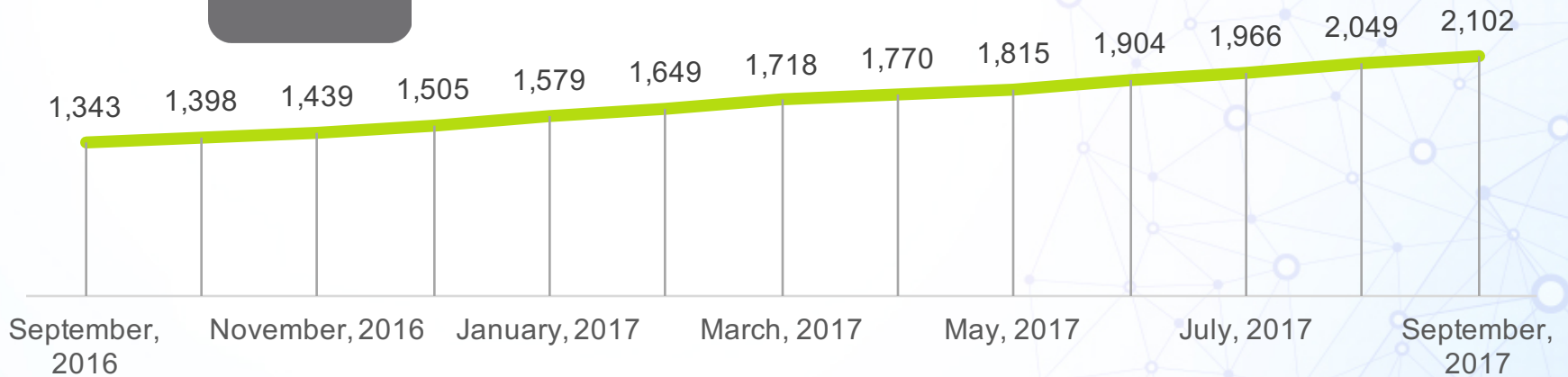


- More than 109,000 views since launch
- Growing year over year

# Social Media

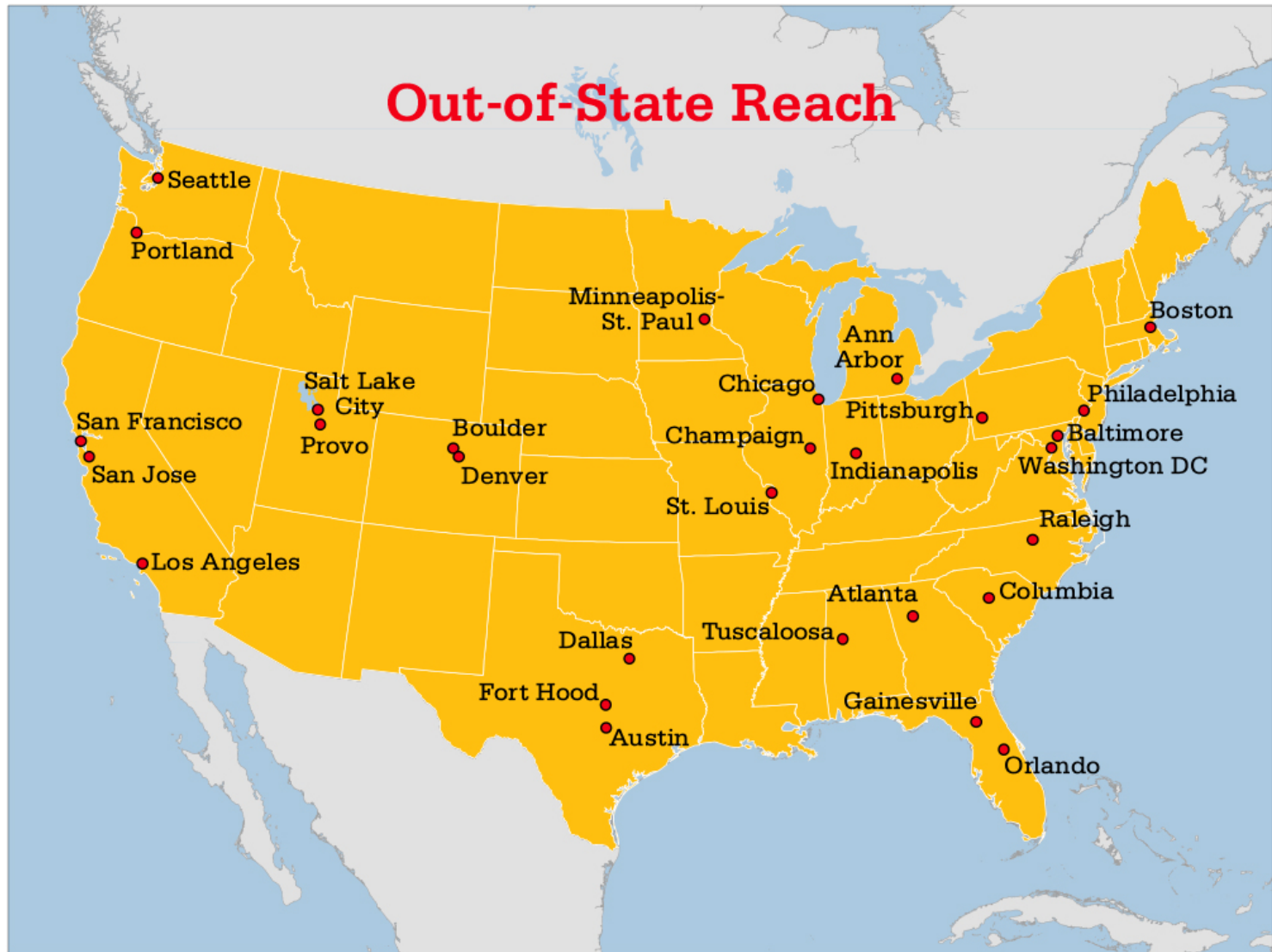


**2,100+ Twitter followers**



**425+ Facebook page likes**

## Out-of-State Reach



RO006178



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# What's Next?

- *Continue to grow TechOhio distribution list, out-of-state outreach*
- *Leverage our partnerships to maximize messaging*
- *Continue to evaluate performance, reach and impact*
- *Opportunities to co-brand with Ohio. Find it Here.<sup>TM</sup>*

# It's Happening in Ohio





# TechOhio

*The Voice of Ohio Third Frontier*

## Impact Report



Development  
Services Agency



**Third Frontier**  
Innovation Creating Opportunity



# Roundtable Discussion



Development  
Services Agency



**Third Frontier**  
Innovation Creating Opportunity

# Moving Forward: CY 2018

# Opioid Programs Update

# Opioid Programs Update

**Proposals Received:**

29

**OTF Funds Requested:**

\$53M

**Proposal by Product Categories:**

Health Technology:

9

Medical Devices:

9

Pharmaceuticals:

6

Diagnostics:

5

**Proposal by Type of Organization:**

Companies:

18

Universities/Research Institutes:

8

Non-Profits:

3

# Opioid Programs Update

Ohio Opioid Abuse, Prevention and Treatment  
Technology Initiative

**Evaluator: Quantum Commerce**  
**Greg Workman**

# Opioid Programs Update

Ohio Opioid Technology Challenge

**Challenge Manager: NineSigma**  
**Angela Herblet**

# AGENDA

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## Program Overview

## Challenge Timeline & Structure

- Idea Phase
- Challenge Phase
- Product Phase

## Next Steps



# PROGRAM OVERVIEW

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- **The Ohio Third Frontier is investing \$20 million to accelerate scientific breakthroughs that could help address the U.S. opioid crisis.**
  - *\$12 million dedicated to competitive research and development grants*
  - *\$8 million for the Ohio Opioid Technology Challenge (OOTC)*
- **The OOTC will use an innovation competition model to solicit a broad set of new ideas, approaches and technologies to combat the crisis.**
- **Three phases of the challenge program:**
  - *Idea Phase*
  - *Challenge Phase*
  - *Product Phase*

# CHALLENGE PHASES

