THE 2018 CINCINNATI TECH CENSUS REPORT



THE TRENDS POWERING CINCINNATI'S TECH BOOM

On May 17, 2018, the Powderkeg national innovation network launched a data initiative called The Cincinnati Tech Census. More than 150 tech **founders, employees, investors,** and other Greater Cincinnati tech leaders weighed in on the growing tech community they call home. #WhyCincy

DEDICATION

This project is dedicated to the Greater Cincinnati tech community.

#STARTUPCINCY

The Cincinnati Tech Census is a collaboration between members of the Greater Cincinnati tech community and our contributing partners.

Community members, thank you for the hours you've spent completing the survey and sharing your honest feedback. We'd also like to give special thanks to Eric Weissmann and rest of the team at Cintrifuse for closely assisting us in completing the census.

The report is presented with little editorializing or commentary from Powderkeg. Rather, it largely consists of intriguing data and opinions straight from the Greater Cincinnati tech community on what makes it special.

We hope the data presented in this report inspires a broader conversation about tech in Cincinnati, and what we're capable of building together as united tech communities.

–The Powderkeg Team



CORPORATE AND LOCAL PARTNERS

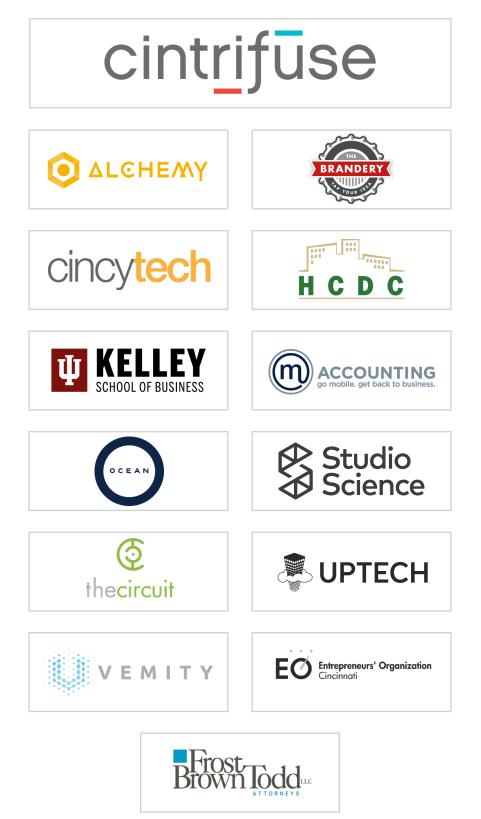




TABLE OF CONTENTS

SECTION 1 SURVEY PARTICIPANTS	5
RESPONDENT AGES & COMPANY PARTICIPANTS	6
SECTION 2 STARTUP PERFORMANCE	7
CUSTOMER CHURN & STARTUP COSTS	8
STARTUP CUSTOMERS	9
EXPECTED EXITS & VALUATIONS	10
TECH STARTUPS TO WATCH	11
SECTION 3 TECH COMMUNITY & CULTURE	12
DIVERSITY & INCLUSION	13
SOCIAL RESPONSIBILITY	14
WHY FOUND HERE? #WHYCINCY	15
STARTUP RESOURCES	16
SECTION 4 TECH STARTUP TALENT	17
SALARIES & HOUSEHOLD EXPENSES	18
WHY WORK HERE? #WHYCINCY	19
COLLEGES & RECRUITING	20
WORKFORCE DIVERSITY	21
SECTION 5 TECH STARTUP FUNDRAISING	22
TECH STARTUP FUNDRAISING	23
STARTUP GROWTH RESOURCES	24
INVESTMENT FUND STATS	25
ANGEL INVESTOR STATS	26
GROWING TECH INDUSTRIES	27
CONCLUSION	28

(*

SECTION 1

SURVEY PARTICIPANTS

BROUGHT TO YOU BY ο Διςμελγ

Filmmakers with a passion for telling remarkable brand stories. alchemyfilmco.com

RESPONDENT TECH ROLES

NUMBER OF RESPONDENTS (one respondent may have multiple roles)



RESPONDENT DEMOGRAPHICS





3% LGBT **28% Identified** as LGBT Allies



RESPONDENT AGES & COMPANY PARTICIPANTS

RESPONDENT AGES

1% 27% Teens 20s	32%	19%	17%	3%	1%	. BADDAA
Teens 20s	30s	40s	50s	60s	70s	₽₩₽₩₩₽₽ſ

TECH STARTUPS REPRESENTED NUMBER OF COMPANIES

Marketing & Sales Tech 11 Human Resources Tech 10 IT & Infrastructure Tech 8 Ecommerce & Retail Tech 8 Logistics & Distribution 4 Tech 4 Healthcare Tech 3 Energy Tech 2 Sensors & IOT 2 Fashion Tech 2 AI & Data Science Tech 8 ARR DISTRIBUTION	FUN FACT Cincinnati is named
IT & Infrastructure Tech 8 Ecommerce & Retail Tech 8 Logistics & Distribution 4 Tech 4 Healthcare Tech 3 Energy Tech 2 Sensors & IOT 2 Fashion Tech 8 Al & Data Science Tech 8	
Ecommerce & Retail Tech 8 Logistics & Distribution 4 Tech 4 Healthcare Tech 3 Energy Tech 2 Sensors & IOT 2 Fashion Tech 2 Al & Data Science Tech 8	
Logistics & Distribution 4 Tech 4 Healthcare Tech 3 Energy Tech 2 Sensors & IOT 2 Fashion Tech 2 Al & Data Science Tech 8 ARR DISTRIBUTION	
Tech 4 Healthcare Tech 3 Energy Tech 2 Sensors & IOT 2 Fashion Tech 2 AI & Data Science Tech 8	
Healthcare Tech 3 Energy Tech 2 Sensors & IOT 2 Fashion Tech 2 Al & Data Science Tech 8 ARR DISTRIBUTION	
Energy Tech 2 Sensors & IOT 2 Fashion Tech 2 Al & Data Science Tech 8 ARR DISTRIBUTION	
Sensors & IOT 2 Fashion Tech 2 AI & Data Science Tech 8 ARR DISTRIBUTION	
Fashion Tech 2 Al & Data Science Tech 8 ARR DISTRIBUTION	
AI & Data Science Tech 8 ARR DISTRIBUTION	Cincinnati is named
ARR DISTRIBUTION	Cincinnati is named
400/	after Quintius Cincinnatus (c. 519 – c. 430 BC) a statesman and
48% <\$500K 19% \$500K -	• \$1M Became a legendary
14% \$1M - \$5M 19% \$5M - \$1	figure of Roman

(¥)

SECTION 2

STARTUP PERFORMANCE

BROUGHT TO YOU BY



Outsourced accounting and CFO services for busy, scaling tech companies. maccounting.com

2017 CINCINNATI STARTUP GROWTH VS. NATIONAL STARTUP GROWTH RATES

2017 Cincinnati Software Startup Growth Rates (best fit line regression)

2017 Cincinnati Software Startup Growth Rates 95% Confidence Interval

Median National Startup Growth Rates From Pacific Crest**

CLICK TO TWEET: Earlystage Cincinnati startup growth rates outpace the nation. See The 2018 Cincinnati Tech Census Report by @powderkegco #WhyCincy #UNVALLEY



*Cincinnati startup growth rates include responses predominantly from tech startups in Cincinnati that sell subscription-based software products as their primary offering, otherwise known as Software as a Service (SaaS).

**Benchmark data from Pacific Crest (KeyBanc) 2017 Private Saas Company Survey Results. 73% of companies surveyed by Pacific Crest reside in the United States, with 47% residing in coastal US tech hubs, such as Silicon Valley, New York City, and Boston.

Average Annual Recurring Revenue for surveyed Cincinnati startups* Average ARR **Growth Rate** neurship and tech. for surveyed Cincinnati startups*

*Sample set = 33 companies. Not all tech companies surveyed chose to share detailed financial information.

Cincinnati is going through a renaissance. This is no longer a flyover city, and Ohio is no longer a flyover state when it comes to entrepre-

-BJORN K. SIMMONS Co-founder, Wyzerr





CUSTOMER CHURN & STARTUP COSTS



27%* Average Cincinnati software startup revenue spent on sales and marketing. *Sample set = 33 companies.

39%^{*} Median SaaS startup revenue spent on sales & marketing per Openview 2017 SaaS Benchmarks Report.

*Startups with less than \$10MM in revenue. Mean not available.

32%* Average Cincinnati software startup revenue spent on R&D.
 *Sample set = 33 companies.
 Median SaaS startup

revenue spent on R&D per Openview 2017 SaaS Benchmarks Report.

*Startups with less than \$10MM in revenue. Mean not available. **CLICK TO TWEET:** Cincinnati startups have a lower average customer unit churn than the national benchmarks. See The 2018 Cincinnati Tech Census Report by @powderkegco #WhyCincy #UNVALLEY

AVERAGE CINCINNATI SOFTWARE STARTUP CUSTOMER UNIT CHURN



*Pacific Crest (Keybanc) 2017 Private SaaS Company Survey Results. 47% of companies surveyed by Pacific Crest reside in coastal United States tech hubs, such as Silicon Valley, New York City, and Boston. Mean not available.

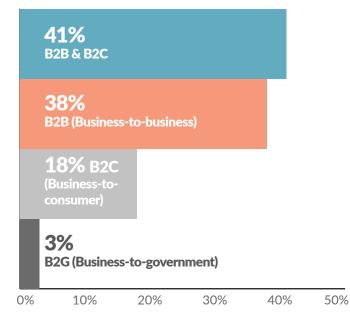
WHY DID YOU FOUND YOUR TECH STARTUP IN CINCINNATI?

#1 My Social Network Resides Here
#2 Affordable Cost of Living
#3 Affordable Office Space
#4 Affordable Talent
#5 The local tech culture

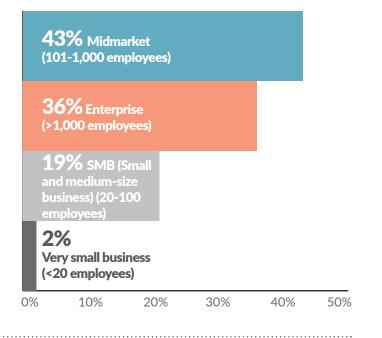
CLICK TO TWEET: Cincinnati Startups are some of the leanest operating startups in the country, per The 2018 Cincinnati Tech Census Report by @powderkegco #WhyCincy #UNVALLEY

STARTUP CUSTOMERS

WHAT CATEGORY OF CUSTOMERS DO YOU SERVE?



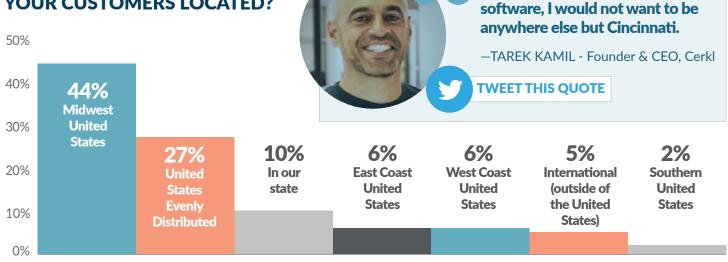
WHAT SIZE B2B CUSTOMERS DO YOU SERVE?



If I were starting from scratch and

I was going to build enterprise

WHERE ARE THE MAJORITY OF YOUR CUSTOMERS LOCATED?





EXPECTED EXITS & VALUATIONS

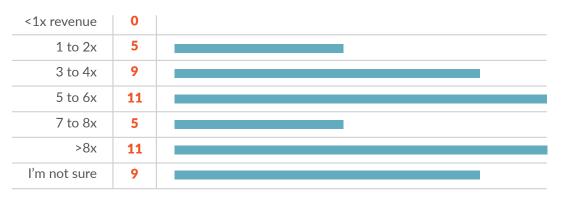
IF YOU EXPECT TO SELL YOUR COMPANY, WHAT TIMEFRAME IS REALISTIC? NUMBER OF COMPANIES



FUN FACT

Cincinnati is home to 10 Fortune 500 companies.

WHAT DO YOU BELIEVE IS A REALISTIC EXIT VALUATION REVENUE MULTIPLE FOR YOUR COMPANY? NUMBER OF COMPANIES





When you look at the Cincinnati ecosystem and what we call StartupCincy, I always like to say that we're going through our third wave of entrepreneurial growth right now. The amazing thing about Cincinnati is that it was a city started by entrepreneurs, the pioneers that drove West back in the 1800s. That first wave of entrepreneurship gave us companies like Kroger, Procter and Gamble, and the Fortune 500s of today.

-DAVE KNOX - Author & Co-founder of Brandery

In Cincinnati you have access to very large companies, while maintaining a small town feel.

while maintaining a small town feel. Before long you're networking with huge companies and powerful people. That kind of B2B access is amazing.

-SHWETHA PAI Co-founder & CEO, OrgAnalytix





TECH STARTUPS TO WATCH

BEST CULTURE

BY POPULAR VOTE OF SURVEY PARTICIPANTS

1	<	Losant
2	· A *.	Astronomer
3		Lisnr
4	Ś	Cladwell
5 Ahalogy		Ahalogy
6		Cloverleaf
7	Cerkl	Cerkl
8	tilr	Tilr
9		Spatial
10	Di	Differential

MOST INNOVATIVE

BY POPULAR VOTE OF SURVEY PARTICIPANTS

1	<	Losant
2		Lisnr
3	$(\widehat{\mathbb{O}})$	Spatial
4		Immersed VR
5	* A *.	Astronomer
6		Eccrine Systems
7	Ś	Cladwell
8	tilr	Tilr
9	Ahalogy	Ahalogy
10		Cloverleaf



SECTION 3

TECH COMMUNITY & CULTURE

BROUGHT TO YOU BY cintrifuse

Connecting StartupCincy's doers, dreamers, and disruptors. cintrifuse.com

WHAT IS THE CINCINNATI TECH COMMUNITY'S CORE VALUE?

150 respondents were asked, "What word or phrase best describes the Cincinnati tech community's core value?"



FUN FACT

Cincinnati is home of the second largest Oktoberfest in the world!

CLICK TO TWEET:

The Cincinnati tech community's top 3 values: community, collaboration, hustle. See The 2018 Cincinnati Tech Census Report by @powderkegco #WhyCincy #UNVALLEY

66 The most authentic relationships I have formed as an adult are in the Cincinnati tech community. We are doing something really hard and really worthwhile together.

-KIRSTEN MOOREFIELD COO & Co-founder, Cloverleaf

TWEET THIS QUOTE

Cincinnati's core value is community. We're committed to making sure the Cincinnati environment will work for and with startups.

-VINEET ERASALA Chief Operations Officer, Genetesis







DIVERSITY & INCLUSION

HOW MUCH DO YOU AGREE WITH THE FOLLOWING STATEMENTS?

	DISAGREED	UN	DECID	ED	AGREED
We have a collaborative & open tech community					
open tech community		16%	20%	64%	
We have an inclusive					
tech community		20%	21%	59%	
We have a diverse community					
		37%	22%	41%	



70% of respondents worked at a tech company that was more than 25% female





of respondents worked at a tech company with a staff of more than 25% ethnic minorities Cincinnati tends to attract a lot of talent from outside of Ohio and internationally. We also have quite a few African American-led startups here. It's turning into a hub for African American innovation.

-SHWETHA PAI Co-founder & CEO, OrgAnalytix

TWEET THIS QUOTE



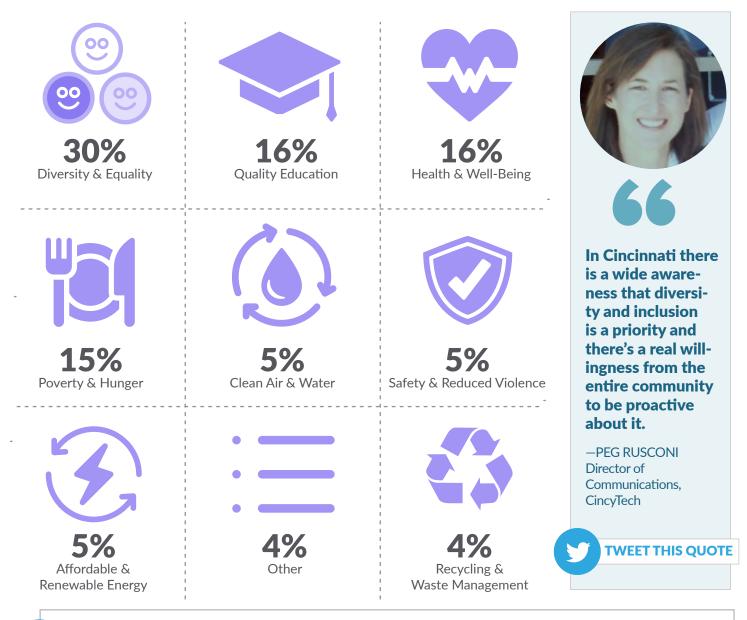
Cincinnati is open. It's not cliquish. There's a great sense of diversity and inclusion. Everyone is open to participate. The #StartupCincy hashtag unites us. The biggest barrier to getting involved is yourself.

-LAWRENCE McCORD Founder & CEO, Frayt Technologies, Inc.



SOCIAL RESPONSIBILITY

WHICH SOCIAL ISSUE WOULD YOU LIKE TO SEE YOUR TECH COMMUNITY MOST IMPACT OVER THE NEXT FIVE YEARS?



CLICK TO TWEET: The Cincinnati tech community is ready to impact social issues, including diversity and equality, education, and health and well-being. See The 2018 Cincinnati Tech Census Report by @powderkegco #WhyCincy #UNVALLEY



WHY FOUND HERE? #WHYCINCY?

FOR WHAT REASON DID YOU CHOOSE TO LOCATE YOUR TECH COMPANY IN YOUR REGION?

My Social Network is Here	32%	
Affordable Cost of Living	19%	
Affordable Office Space	13%	
Affordable Talent	12%	
The Local Tech Culture	8%	
Access to Mentorship and Guidance	5%	
Local Sales Leads	4%	
Other	4%	
State and City Growth Incentives	2%	
Access to Funding	1%	—

FUN FACT

Cincinnati residents have a love affair with chili. There are more than 140 chili restaurants in Cincinnati. 65% of respondents grew up in areas outside of Cincinnati

35%

TWEET THIS QUOTE

Cincinnati has a lot of programs and accelerators that are available to early-stage companies. There's a half-dozen really prominent accelerators, as well as incubators, boot camps, and other programs that they can take.

-TIM METZNER - Founder & Partner, Differential



STARTUP RESOURCES

Among the benefits of having a strong startup community is the ability for us to move the region forward faster. When we're all operating in conjunction with each other as opposed to silos, the effect is evident in the execution-we're able to accelerate each other's momentum.

-ERIC WEISSMANN VP Communications, Community & Economic Inclusion, Cintrifuse

TWEET THIS QUOT

IS THERE ADEQUATE ACCESS TO LOCAL STARTUP SUPPORT RESOURCES?

	DISAGREED	UNDECID	ED	AGREED
Local Service Providers		4% 7%	89%	
Community Organizations		11% 3%	86%	
Mentors & Advisors		17% 9%	74%	
Local Media Opportunities		24% 16%	60%	
Local Sales Opportunities		20% 24%	56%	
Government Incentives		29% 33%	38%	

*Answered by 93 Greater Cincinnati technology founders, executives, investors and commuity leaders.

SECTION 4

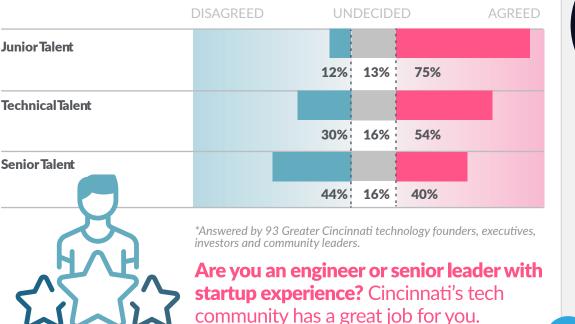
TECH STARTUP TALENT





Helping high tech make better business decisions with top-ranked online graduate programs. kelley.iu.edu

IS THERE ADEQUATE ACCESS TO STARTUP TALENT IN GREATER CINCINNATI?





There's great talent all around us in Cincinnati and the best startups in town can easily attract it.

—Ry Walker, CEO, Astronomer



Executives that are able to come into a startup in order to help move it forward. We still lack a little bit of that experience in Cincinnati, but we're starting to see some executive boomerangs. These people are going out to the coasts, getting experience, and then coming back to work here.

-CHARLIE KEY Co-founder & CEO, Losant TWEET THIS QUOTE





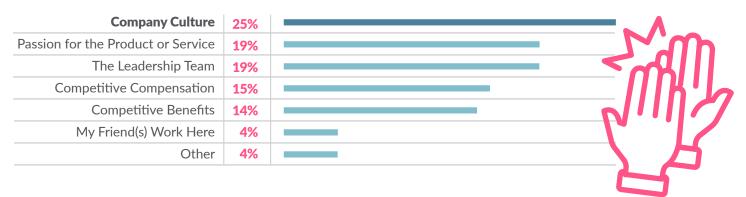
SALARIES & HOUSEHOLD EXPENSES

TECH STARTUP EMPLOYEE RESPONDENT STATISTICS:



CLICK TO TWEET: The majority of tech employees surveyed in Cincinnati make more than \$80k, and the majority of employees surveyed have annual household expenses of less than \$50k. See The 2018 Cincinnati Tech Census Report by @powderkegco #WhyCincy #UNVALLEY

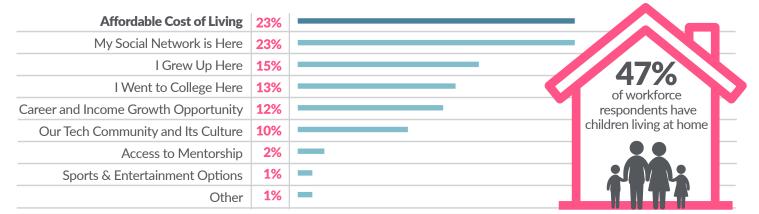
WHY DO YOU CHOOSE TO WORK AT YOUR CURRENT EMPLOYER?





WHY WORK HERE? #WHYCINCY?

WHY DO YOU CHOOSE TO WORK IN YOUR REGION?

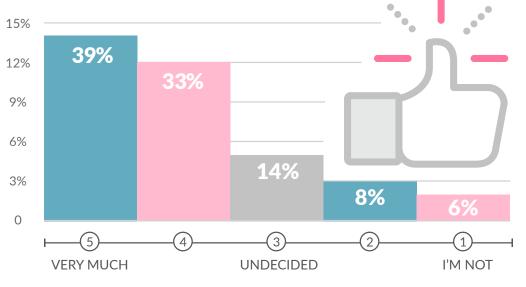




Cincinnati has some of the hardest working people I've ever had the experience of knowing. When you get down to it, there are people here that can create products and businesses that compete anywhere in the world.

TWEET THIS QUOTE

HOW MUCH ARE YOU ENJOYING YOUR JOURNEY AS A TECH PROFESSIONAL IN YOUR REGION?



COLLEGES & RECRUITING

WHAT UNIVERSITY DO YOU **RECRUIT THE MOST FROM?**



Miami University	10%
Northern Kentucky University	10%
Ohio University	5%
Xavier University	2%
Other	17%



We should not be apologetic for being from the Midwest. We grow up thinking we've got to get out of Ohio or get out of the Midwest and get to the big city. Well, I did that and I boomeranged right back.

-SUMMER CRENSHAW

COO/CMO & Co-Founder, tilr



We have really strong colleges and universities, but I think Cincinnati is also doing a great job of becoming an attractive city to people outside of Cincy. As we do this, we're getting more and more talent coming to the area, and that's a big help.

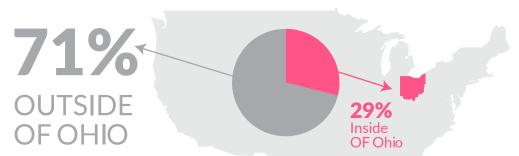


-FERNANDA HORNER - Marketing Activator, Cincinnati USA Regional Chamber

FUN FACT

The Cincinnati Reds were America's first professional baseball team, formerly named the Cincinnati Red Stockings.

GEOGRAPHICALLY, WHERE DID YOU GO TO COLLEGE?



CLICK TO TWEET: Cincy is a magnet for tech talent. 71% of tech startup employees surveyed in Cincinnati went to college outside of Ohio. See The 2018 Cincinnati Tech Census Report by @powderkegco #WhyCincy? #UNVALLEY

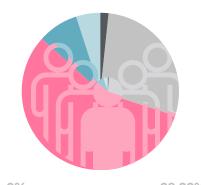
WORKFORCE DIVERSITY

WHAT PERCENTAGE OF YOUR WORKFORCE IS FEMALE?



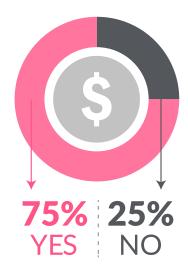
0%	
1% to 25%	21.67%
26% to 50%	46.67%
51% to 75%	20.00%
76% or More	3.33%

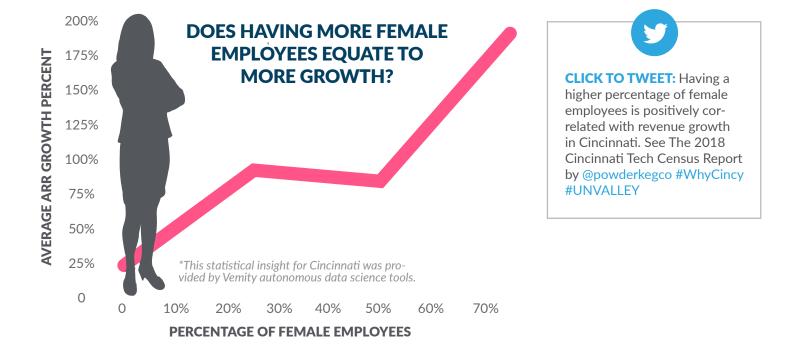
WHAT PERCENTAGE OF YOUR WORKFORCE IS AN ETHNIC MINORITY?



0% 1% to 25%	
26% to 50%	8.33%
51% to 75%	5.00%
76% or More	1.67%

DO YOU HAVE AN EQUITY/ OWNERSHIP PLAN FOR YOUR EMPLOYEES?





SECTION 5

TECH STARTUP FUNDRAISING

BROUGHT TO YOU BY Brown Todd

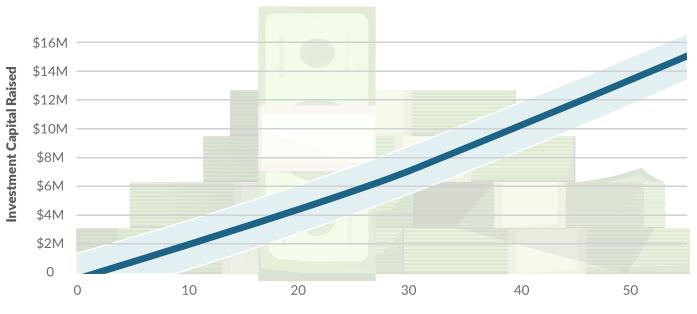
Delivering sound legal counsel, responsive service, concise communication, and efficient representation. frostbrowntodd.com

CINCINNATI TECH STARTUP FOUNDER RESPONDENTS

TOTAL INVESTMENT CAPITAL RAISED FOR YOUR CINCINNATI TECH STARTUP

Average Cincinnati Startup Capital Raised (best fit line)

Cincinnati Startup Capital Raised 95% Confidence Interval



Number of Employees

Since 2007, CincyTech has invested in over 70 companies, so about eight a year on average. We're on our fourth fund. It's a \$30,000,000 fund. We've invested about \$51,000,000 out of our funds. Those companies have now imported about \$850,000,000 of venture capital into the region.

-MIKE VENERABLE -President, CincyTech USA TWEET THIS QUOTE





TECH STARTUP FUNDRAISING

FUN FACT

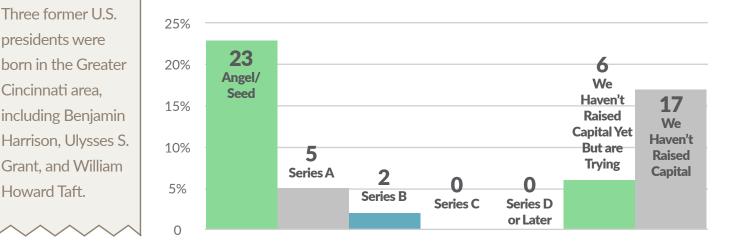
presidents were

Cincinnati area.

Howard Taft.

WHAT SERIES WAS YOUR LAST FUNDING ROUND?

NUMBER OF COMPANIES



My advice to an entrepreneur raising capital in Cincinnati is to start early, well before they need it. I encourage taking early meetings and asking for advice, not money, early on.

-TIM METZNER Founder & Partner. Differential

TWEET THIS QUOTE



Cincinnati is good for early stage rounds. For later stage rounds it needs some improvement though. Most of our A round was funded locally. For series B and beyond we're really having to look outside of Cincinnati for access to capital.

-VINEET ERASALA Chief Operations Officer, Genetesis

TWEET THIS QUOTE

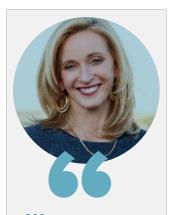


My favorite form of financing is revenue. When Cintrifuse facilitates pilots with big names such as Children's Hospital, Procter & Gamble, and Kroger, that not only has a major impact on the startup, but the entire region.

-TAREK KAMIL Founder & CEO, Cerkl



STARTUP GROWTH RESOURCES



We measure. very definitively, the paid pilots between startups and BigCos in **Greater Cincinna**ti. Over the last few years we've had over 100 of these partnerships. We hope that transaction revenue will likely go towards hiring someone at the startup-that's where we get net new jobs for the region.

-WENDY LEA **CEO**. Cintrifuse

TWEET THIS QUOTE

IS THERE ADEQUATE ACCESS TO INVESTMENT CAPITAL, PARTNERSHIPS, AND GOVERNMENT INCENTIVES IN **GREATER CINCINNATI?**

	DISAGREED	UNDECIDED	AGREED
Enterprise Partnerships		23% 23%	54%
Seed Capital	R S F	40% 20%	40%
Government Incentives		29% 33%	38%
Growth Capital		42% 30%	28%

*Answered by 86 Greater Cincinnati technology founders, investors, and community leaders.

28% of surveyed founders have state or local growth incentives



76%

of surveyed founders struggled to raise capital in Greater Cincinnati

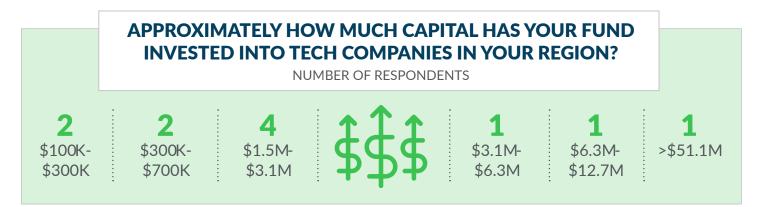


CLICK TO TWEET: The working relationship between enterprises (or BigCos) and startups in Cincinnati is unprecedented in any other tech hub Powderkeg has reviewed so far. See The 2018 Cincinnati Tech Census Report by @powderkegco #WhyCincy #UNVALLEY



INVESTMENT FUND STATS

CINCINNATI FUND MANAGER RESPONDENTS

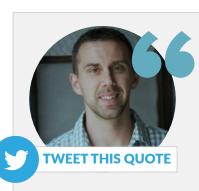


WHICH OF THE BELOW COMPANY CATEGORIES DOES YOUR FUND HAVE THE MOST INVESTMENTS IN? NUMBER OF RESPONDENTS

Information Technology & Infrastructure	3	
Marketing & Sales Tech	3	
Biomedical Tech	1	
Ecommerce and Retail Tech	1	
Human Resources Tech	1	
Life Sciences	1	
Other	1	

FUN FACT

In 1880 Cincinnati became the first and only city to build and own a major railroad.



The best types of startups to think about launching in Cincinnati are still predominantly going to B2B SaaS companies. These are organizations that can take advantage of the great existing BigCos we have in our area as potential clients.

-TIM METZNER Founder & Partner, Differential



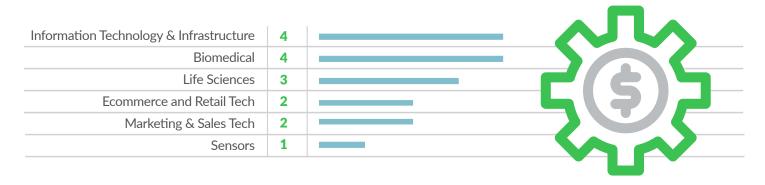
ANGEL INVESTOR STATS

FUN FACT

CINCINNATI ANGEL INVESTOR RESPONDENTS



WHICH OF THE BELOW COMPANY CATEGORIES DO YOU PERSONALLY HAVE THE MOT INVESTMENTS IN? NUMBER OF RESPONDENTS





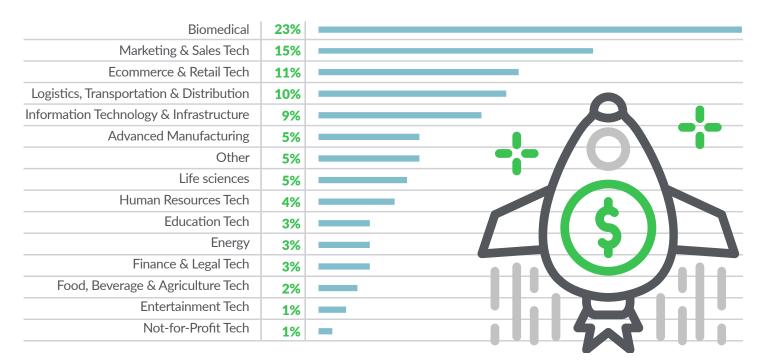
Greater Cincinnati has a massive amount of intelligent, high networth individuals that can truly affect their return as opposed to just putting that money into the stock market. Because of their personal connections, industry experience and network, it's a huge advantage to both them and the companies they invest in.

-PATRICK HENSHAW VP of Growth, Startups & Technology, Cintrifuse

GROWING TECH INDUSTRIES

ALL CINCINNATI RESPONDENTS

WHAT INDUSTRY DO YOU SEE GROWING THE MOST IN GREATER CINCINNATI OVER THE NEXT 5 YEARS?





My hope for the StartupCincy tech ecosystem is that we continue to grow, and that we're not afraid to innovate and embrace the people who are coming. Those young people who are in college now, and those minority and female professionals. Let's have a conversation now about how we raise up the next generation of leadership who five years from now are the ones who will be starting companies and hiring people.

-LAUREN TIFFAN

Program Manager, Air Force Research Laboratory Transition Accelerator; The Entrepreneur Center

CONCLUSION

"The best way to predict the future is to create it." - ABRAHAM LINCOLN

Technology is integral to how humans shape the future. Moore's Law supports the concept that technology is accelerating at an exponential rate. Therefore, technologists are shaping the future at an unprecedented pace.

Ninety-two percent of Cincinnati Tech Census respondents expect the Cincinnati tech community to grow materially over the next five years. Data from the 2018 Cincinnati Tech Census shows that Cincinnati has made significant investments to realize that growth.

As Cincinnati matures into a national hub for tech, it is earning the right to help shape the future of humanity with its technology. Cincinnati faces similar social challenges as the rest of the nation, but it also has considerable opportunities for prosperity and growth.

The Powderkeg network looks forward to working hand in hand with Cincinnati's tech community and startups to ensure they have the resources necessary to fulfill their visions. We all can amplify that effort by helping tech professionals and investors around the country and world see the insights from this report.

Please take a moment to share the 2018 Cincinnati Tech Census on social media.

Thank you!

#WHYCINCY #UNVALLEY



