"Reboot" Venture Capital Investing in the 21st Century

# "Reboot" Venture Capital Investing in the 21st Century

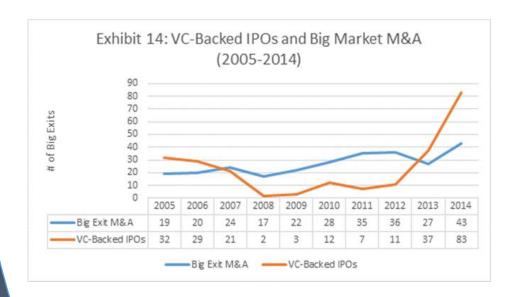
- "State-of-the-Union" Venture Capital (2014)
- Warning Signs?
- Going "Direct": A New Paradigm In Venture Capital Investing
- Confronting Risks Direct Investing
- Rules Based Co-Investing
- Sources of Potential Superior Outcomes in Direct Investing
- Financial Technology Enabling Direct Investing
- Key Takeaways and Next Steps



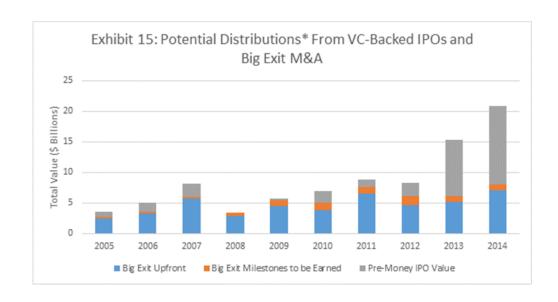
"State-of-the-Union" - Venture Capital (2014)

#### **IPO'S AND DISTRIBUTIONS**

"The number of IPOs doubled and big exit M&A soared 50%."



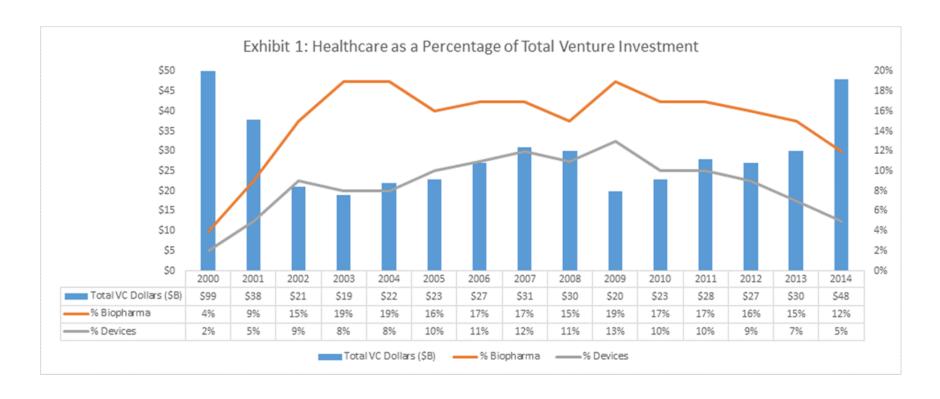
"This environment led to record high potential distributions in 2014, topping \$20 billion. This is the largest return on investment measured since SVB began tracking the information a decade ago."





#### **VENTURE CAPITAL FUNDING**

"Healthcare investment into companies grew significantly, reaching \$8.6 billion in 2014. Biopharma companies had the major share of that total, at \$6 billion – the highest level since SVB started tracking the data in 2005."



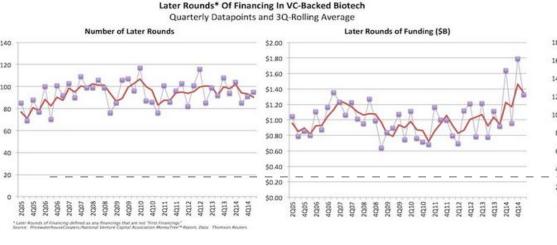


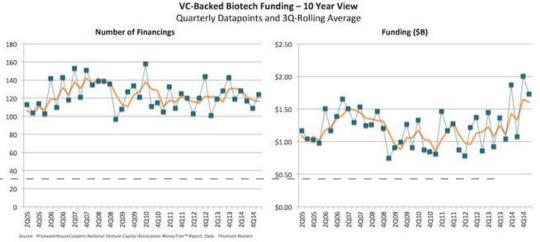
Jonathan Norris, Kristina Peralta, "Trends in Healthcare Investments and Exits 2015," Silicon Valley Bank (SVB)

#### **CROSSOVER INVESTORS**

"In the past two years, we have seen the emergence of non-VC investors, particularly hedge funds, providing "top-up" financing to IPO-ready companies prior to entering the market."

Jonathan Norris, Kristina Peralta, "Trends in Healthcare Investments and Exits 2015," Silicon Valley Bank (SVB)





- "The later-stage financings driving up the aggregate numbers are almost without exception driven by crossover investors (hedge funds and mutual funds who typically invest in public companies) or non-traditional partners like financial institutions.
- For example, The Alaska Permanent Fund put nearly \$300M into Juno Therapeutics during their private round."

"....based on discussions with a few bankers who track crossover activity, and an appreciation of Corporate Venture Capital (CVC) contributions, only around 50% of the \$6B invested in private biotech's came from "conventional" venture investors (meaning independent venture firms backed by groups of LPs)."

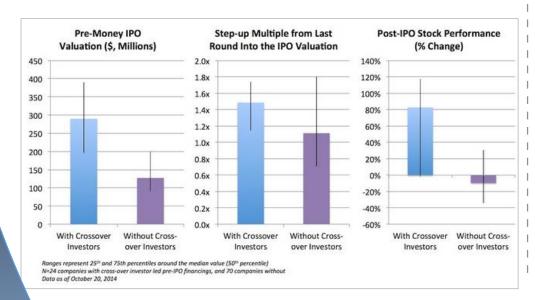
Booth, "Venture-Backed Biotech Today, Reflections on Exits, Funding, and Startup Formation," Forbes, 1/22/15 and "Data Snapshot: Venture-Backed Biotech Financing Riding High," Forbes, 4/21/15



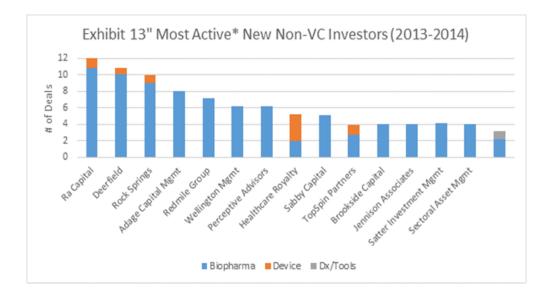
#### **CROSSOVER INVESTORS**

Companies with cross-over led pre-IPO financing rounds have:

- Significantly higher pre-money valuations at IPO (128% higher valuation \$290M vs. 127M).
- Cross-over support IPOs at bigger step-ups in price at IPO (multiple over the last private round valuation is 34% higher).
- Post-IPO stock appreciation vastly outperforms for companies with cross-overs in their pre-IPO round (83% stock appreciation, at the median, versus trading down by 10% without cross-overs).



- "Everyone in venture-backed emerging companies acknowledges that going into the public markets with a solid list of blue chip cross-over investors in the capital structure is a good idea conceptually.
- It makes sense to line up big future owners of the stock early to help support the book-building process in the offering."

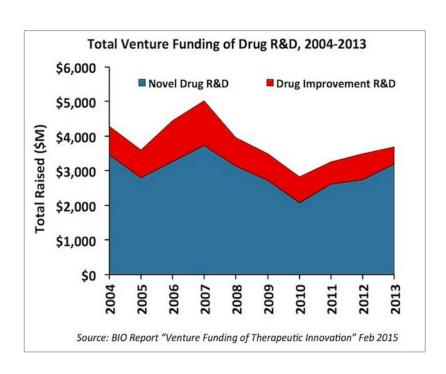


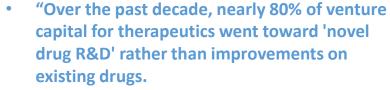
Bruce Booth, "The Biotech Cross-Over Phenom: Biomarker of Quality?" Forbes, 11/7/14

Jonathan Norris, Kristina Peralta, "Trends in Healthcare Investment and Exits 2015," Silicon Valley Bank (SVB)

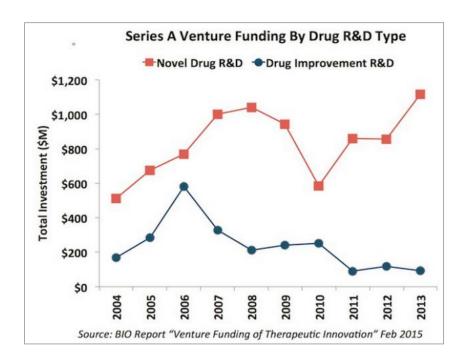


#### WHERE IS THE MONEY GOING? NOVEL DRUG TARGETS





 This trend is in contrast to the rise of 'low technical risk' spec pharma investment model of the 2001-2007 period."

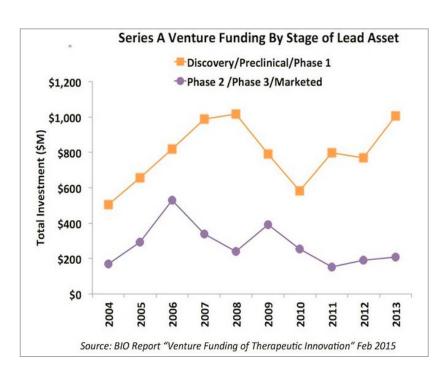


- "Initial rounds of funding (Series A's) for novel drug R&D reached their highest levels in a decade in 2013.
- The importance of 'high innovation quotient' investment thesis to gather initial venture funding is clearly on the rise."

Bruce Booth, "Where Does All That Biotech Venture Capital Go," Forbes, 2/9/15 - Data Source: HBM; "Venture-Backed Biotech Today, Reflections on Exits, Funding, and Startup Formation," 1/22/15



## EARLY STAGE — CORPORATE VENTURE CAPITAL (CVC)



"Most of the Series A funding of new startups has gone toward early-stage assets (drug discovery, preclinical, and Phase 1), and this has increased over the past five years. Further, the majority of the early-stage financings went to discovery/preclinical (~75%) vs. Phase 1."

"On the early stage side, nearly one-third of all Series A funding comes from corporate venture capital (CVC) – and this has been increasing over time."







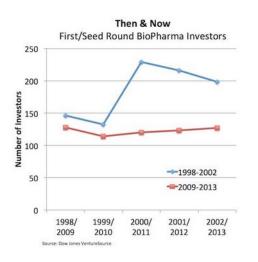


Bruce Booth, "Where Does All That Biotech Venture Capital Go," Forbes, 2/9/15 - Data Source: HBM; "Venture-Backed Biotech Today, Reflections on Exits, Funding, and Startup Formation," 1/22/15, Forbes



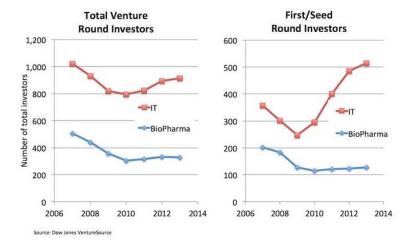
Warning Signs?

"With only ~100 new biotech startups being formed each year, and only a few dozen firms actively doing it, there's a tiny universe of players responsible for creating the next wave of biotech's likely to mature in the 2nd half of this decade."

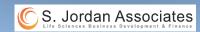




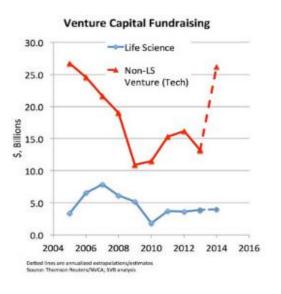
 By contrast, the last few years – even with one of the biggest/longest IPO windows in biotech history, have been defined by restraint and constraint in terms of early-stage biotech venture and startup formation."



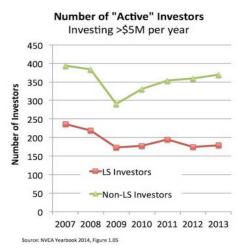
 "Investors participating in BioPharma venture deals declined by ~40%, and never recovered those numbers. This represents a major culling of the herd."



"With only ~100 new biotech startups being formed each year, and only a few dozen firms actively doing it, there's a tiny universe of players responsible for creating the next wave of biotech's likely to mature in the 2nd half of this decade."



 "The take home message from these data is clear: there's a huge influx of capital into venture, mostly into technology, and there remains a limited pool of capital flowing into life science venture, and even smaller into early-stage funds – despite the IPO and M&A markets."

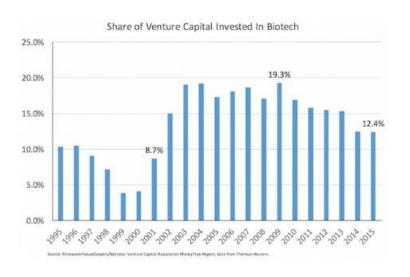


- "Active life science investor numbers (including BioPharma and Medtech) dropped by 25% since 2007, and haven't rebounded.
- FLAG Capital Management did a further refinement of 'active investors filtering for only investors that had made at least four new investments with at least \$4M in aggregate during 2013, they identified only ~25 active healthcare venture capital investors, and only a subset of those VC's actually help start or back drug discovery and research stage biotech's.
- Probably only a dozen firms regularly start or fund more than 4-6 new biotech companies a year."

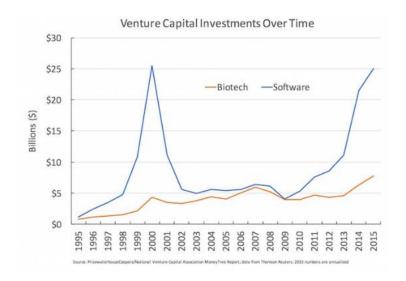


Bruce Booth "Early Stage Biotech Venture Scarcity: Fitness, Fear, and Greed," Forbes, 9/22/14 – Data: Dow Jones Venture Source, Franklin Park Associates, NVCA

# Within Venture, A Booming Biotech Sector is Shrinking (2015)



- "Biotech is at it's lowest share of venture capital investments since 2001 – only 12.4% of total venture capital disbursements in 2015.
- Biotech topped out as a share of the industry in 2009 at 19.3% in part because the contraction in biotech funding was far less severe than in the tech sector as the financial crisis bottomed out in that year."

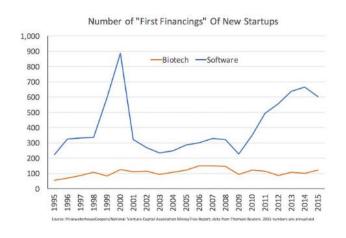


- "Software investing has skyrocketed relative to Biotech, with a spike in funding that echoes of 2000 bubble.
- Although biotech venture funding has progressed upwards since the 2009 bottom, now up nearly 2fold since then, software VC investing is up a staggering ~525%, on track for 2015 to meet or exceed the 200 funding level of \$25B.
- By comparison biotech is likely to surpass \$7.5B this year. Much of the "venture" money that's plowed into biotech in recent quarters has come from crossover investors rather than conventional investor firms."

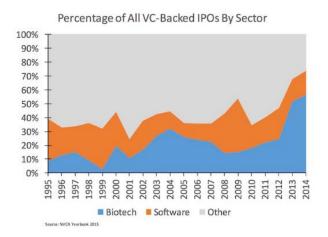


Bruce Booth, "Within Venture, A Booming Biotech Sector is Shrinking, Forbes," October 19, 2015

# Within Venture, A Booming Biotech Sector is Shrinking (2015)



- "The pace of new startup formation remains largely flat in biotech, unlike the explosion in tech startups. ....the pace of biotech "first financings" (a good proxy for startup formation) remains largely flat, tracking to 100-120. companies per year over the past decade.
- In software, this number has risen by ~100% over the past few years, pushing out over 1,600 new tech companies in the past three years.



- "Fortunately, biotech has grown in its share of the number of IPO offerings.
- Not surprising to those observing the biotech IPO window over the past couple years, and the increasing number of private tech unicorns struggling to get public.
- "Both sectors have experienced higher funding rates per new startup and biotech in particular: the average funding level per first financing in biotech is up nearly 2x in 2015 vs. 2014.

# Within Venture, A Booming Biotech Sector is Shrinking (2015)

- Should more funding be going into a larger number of young startups, exploring a broad range of science?
- Or does the increase in funds-per-startup mean that we're building fewer, but healthier companies?



- "The latter rests on an often faulty premise that picking winning science early and powering it up quickly is smart.
- History would suggest it's not easy, especially where the false positive rate (irreproducible science) is so high."
- Powering up young companies with lots of capital is great if there's a "premium value" off-ramp via a accommodative IPO market: otherwise, over-capitalizing young companies is a recipe for future down rounds."



#### 2016?

- "We expect increases in fundraising and investment levels will lead to a very active 2015-2016, with a note of caution, however;
- When the window closes, and non-VC investors pull back, the industry could be left with a crowded private market and lack of investors."

Silicon Valley Bank



**Out of the Ashes Re-Investing VC** 



# **Kauffman Foundation – Report**

- Most VC Funds do not generate returns of 3-5% better than public markets
- Recommendations
  - ✓ <u>Invest directly</u> in a small portfolio of new companies, <u>without high fees/carry</u>
  - ✓ <u>Co-Invest</u> in later-round deals side-by-side with seasoned investors
  - ✓ Invest in VC funds of less than \$400M with consistently high public market equivalent performance (PME)
  - **✓** Move a portion of capital invested in VC into the public markets

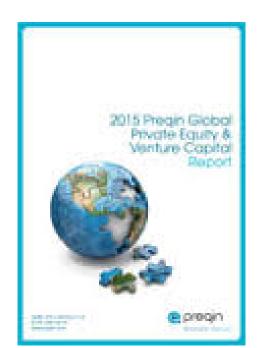
# KAUFFMAN

The Foundation of Entrepreneurship



## **Preqin Private Equity Survey, June 2014**

- 92% of investors expect to "increase" or "maintain" allocations to Venture Capital over long term
- 55% of Limited Partners (LPs) with fund investments in healthcare identified management fees as the principal motivation for shift in investment strategies
- 77% of LPs are "actively" or "opportunistically" engaging in direct investments
- 24% of LPs allocate more than 10% of AUM to direct investments
  - ✓ By 2016, direct investments will increase by 50% to 15% of AUM
- 86% of LPs assert that direct investing yields "significantly better" or "slightly better" returns
- 87% of LPs intend to "increase" or "maintain" their direct investment activity during the next five years





Going "Direct": A New Paradigm In Venture Capital Investing

# **New Paradigm in Venture Capital Investing**

- Co-Investment Definition Direct investments into portfolio companies alongside a fund at the invitation of General Partner (GPs)
- Strategy's popularity has grown as institutional investors increasingly seek ways to invest more private capital with select GPs at reduced cost
- GPs are offering more co-invest—a preferred approach over investing alongside other GPs as a consortium— as a way to:
  - ✓ Differentiate themselves with the LP community
  - **✓** Deepen relationships with key investors
  - ✓ Manage risk
  - ✓ Maintain greater investment flexibility



# Investors have at least four different ways to pursue co-investments

- Invest in a fund-of-funds (FOF) with an allocation to co-investments
- Invest in a diversified co-investment fund
- Invest in a single GP's co-investment fund
- Directly co-invest alongside a GP in one or more companies.



# **Fund-of-Funds (FOF)**

- Co-investments typically compose 5% to 15% of some FOFs
- Sometimes FOFs charge slightly higher fees on the capital they deploy in co-investments than charged on fund investments
  - **✓ FOF fee drag of 2% 4%**
  - ✓ At other times, the FOF fee is flat across all types of underlying investments.
- While a co-investment portfolio adds risk to the FOF portfolio, the performance is embedded within the FOF's fund portfolio

Performance

FOFs typically deliver lower losses but fewer outsized wins



#### **Diversified Co-Investment Fund**

- Multi-sponsor co-investment funds, typically managed by an advisor, FOF, or similar asset manager with many GP relationships
- LPs invest in a basket of co-investment opportunities advisors or FOF sources from its own manager relationships
- Charge ~1% management fee and 10% carried interest (less than traditional 2/20 model)
- Products are ultimately diversified by the number of investments included and by sponsoring GP
  - ✓ Reduces the overall risk profile of the co-investment program and potentially the return profile as well
- This approach can also provide participating LPs with an association upon which to build a relationship for access to GPs not in their own programs

Performance

- The performance of multi-sponsored co-investment funds has been mixed;
- Of 34 funds analyzed in this report, 25 were performing below the median performance levels of direct funds of the same vintage years and strategies



# Single Sponsor Co-Investment Funds, "Annex Funds"

- GPs raise separate co-investment funds to operate alongside the main fund
- Given GPs may be sensitive about alienating LPs with which they have pre-existing direct co-investment relationships;
  - ✓ Type of vehicle may not receive as complete an allocation as expected, as opportunities may also be offered to LPs outside of the vehicle
- Some GP co-invest funds invest in all deals with excess capacity while others invest only in later rounds of portfolio company financings
- These single sponsor vehicles often have a lower fee structure than the core fund
  - ✓ Charging fees only on drawn capital, or for administration, or confine themselves to only carried interest to demonstrate some alignment with investors
- Require LPs to understand the guidelines and expected portfolio construction prior to committing
- LPs committing to annex funds do not make investment decisions on individual transactions
- LPs accumulate additional exposure to a single GP when (in the GP's view) circumstances warrant

Performance

- Diversification itself generally places this approach lower than direct co-investing on the risk-reward spectrum
- Of the 39 annex funds raised between 1998 and 2012 analyzed;
- 25, roughly two-thirds, outperformed the sponsor's corresponding main fund as of "Making Waves: The Cresting Co-Investment

December 2013

"Making Waves: The Cresting Co-Investment Opportunity," 2015, Cambridge Associates



#### **Direct Co-Investments**

- Directly co-investing alongside a GP is the traditional approach
  - **✓ LPs access opportunities via their GP fund commitments**
- LPs are not obligated to participate or deploy a specified amount of capital
  - ✓ Positioned to see deal flow from sponsors and then make co-investment decisions on a caseby-case basis
- With control over investment decisions, LPs can design a co-investment portfolio based on their desired investment characteristics and corresponding return expectations
- GPs often charged a co-investment fee in these situations
  - ✓ Most managers have been offering traditional direct co-investing on a carry-free and management fee—free basis (though administrative costs are involved)
- Requires an LP to have a strong relationship with the GP for access to opportunities, quick reaction times, and an internal evaluation process leverages the GP's due diligence
- A direct approach affords investors greatest control over the co-investment portfolio created

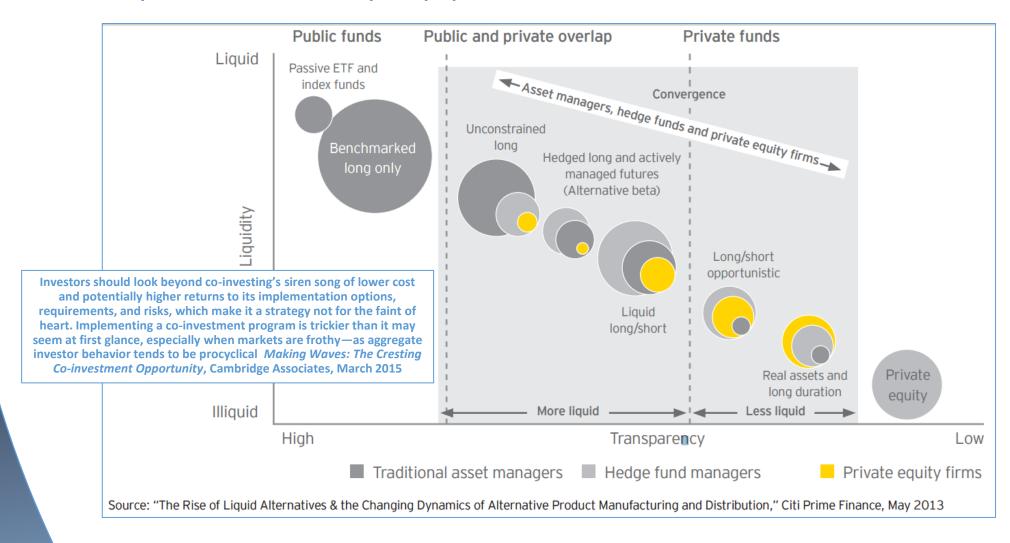
**Performance** 

• Depending on the desired portfolio characteristics, it can offer the highest potential returns, however, it also entails the most risk



# **Confronting Risks – Direct Investing**

# An exchange focused on private direct investing in emerging growth companies needs to protect the investor in illiquid, opaque, and difficult investment context



## **Confronting Risks – Limited Partners**

- Direct Co-Investing Requires the Right Skillset
  - ✓ Consider whether to add appropriate skills in-house, work with advisor, or outsource
- One Must Find One's Own Co-Investments
  - ✓ Co-Investors must regularly remind target GPs of their interests to see sufficient/attractive deal flow
- Timing Is Unpredictable
  - **✓** GPs syndicate co-investments to investors when capital accessible via main fund is low
- Approval in "30 Minutes or Less"
  - ✓ Once GP decides to pursue an investment, co-investors may have as little as two weeks to review and secure internal approval
- Finding a Pearl....Or Just an Oyster
  - ✓ Offer investors the potential to "try their hand" at selecting which GP co-investments opportunities will outperform
- Too Good To Be True
  - ✓ Investors should be cognizant of adverse selection risk



# Risks of Venture vs. Direct Investing

RISKS OF VENTURE	Summary Description	DIRECT Investment Solution
Illiquidity	Capital Velocity / Access to Cash	■Reduce investment horizon
iniquiaity	Capital Velocity / Access to Cash	■ Create "Evergreen" fund mechanism
Adverse Selection	"Investors should be cognizant of the	■Establish stringent investment criteria –
	possibility that managers may be sharing	"Rule Set" – stipulating that every Direct
	their less attractive opportunities." –	investment be subject to leadership from
	Cambridge Associates	new, third-party institutional investor
Diversification	Achieving a Portfolio Effect	■Invest at same rate as top-decile GPs
		■# of General Partners, multiplied by the # of
Correlation	Targeting pure "Alpha"	institutionally-backed portfolio companies,
		equals the potential for non-correlated IRR.
		■Eliminate "J-Curve"
Volatility	Extrama disparsion of roturns on	■ Mitigate "downside" through deal selection
	Extreme dispersion of returns on	based on "Rule Set"
	company-by-company basis	■ 65.3% of Standard Deviation of Returns in
		VC due to "upside" events
Danie marane	Comparation association IRR / MOIC	■No Fee, No Carry.
Performance	Generating superior IRR / MOIC	■ Gross Return = Net Return
Caalabilia af Varia	"At fund sizes greater than \$200	-(000) direct transportions
Scalability of Venture	million, performance suffers"	■(900) direct transactions
Capital	<ul> <li>Kaufmann Foundation</li> </ul>	■ \$11 billion opportunity
	"Increasingly challenging to get	
	into top tier funds since VC funds	■Broad exposure to top-tier funds
Access to Best	are getting smaller and access is	■ 'Dating Prior to a Marriage'
Managers / GPs	limited."	■ Eliminating the effect of fees and carried
	<ul> <li>National Venture Capital</li> </ul>	interest enables greater universe of GPs
	Association	to achieve top-decile Gross IRR
	"As early-stage investors seek to	
	preserve their positions in companies	
Valuation	in early rounds of financing,	■Every direct investment made on "pari
	venture co-investments are more	passu" basis, subject to discrete,
	often offered at late-stage rounds	independent pricing as established by new
	when they may also be subject to	institutional "Lead" investor with like-minded
	high valuations."	return expectations
	<ul><li>Cambridge Associates</li></ul>	
	_	■Single Purpose Investment Vehicle ("SPV")
"Zeros"	High loss ratios associated with	permits diversification, attenuates impact of
20103	write-offs	losses, preserves return profile of portfolio
		■Continuous distributions upon "exit" of
Inconsistent Cash	"Cash flows from venture capital	each discrete portfolio company
Flows	are lumpy."	■ Continuous liquidity following investment
IIOWS	– Preqin	period of initial portfolio companies
Relationship with GPs	"GPs assume significant reputational	period of milital portrollo companies
	risk with their investors when	
	offering co-investment opportunities.	
	Poor interactions with LPs	■Third-party, "Arms-Length" structure
	and poor results could cost future	■ Deal-by-Deal decision making
	fund commitments."	
	– Coller & Company	
	- Collet & Company	



**Rules Based Co-Investing** 

# **Rules Based Co-Investing**



Externally priced term sheet creates the context for a passive co-investor to participate without suffering from adverse selection or an informational disadvantage on terms

- Lead Investor is not a member of the existing issuer shareholders, has raised a new fund since 2012 in excess of \$50 million, is a recognized Family Office of greater than \$500MM, or Corporate Strategic Investor – ensures the pre-money valuation is market-based and arms-length by a recently validated sponsor
- Lead Investor owns at least a 10% ownership interest post-money we believe this ensures that Lead Investor is making a significant bet and has appropriate influence
- The Direct Investors in aggregate make up no more than two thirds of the round we believe that this ensures that the Partnership does not assume the Lead Investor role
- The Direct Investors are at least half of the Lead Investor, and not more than twice the Lead Investor we believe this ensures that the Direct Investors and Lead Investor are tied together strategically
- The Direct Investors invest on the same terms as the Lead Investor, and the Lead Investor's economics with the issuer arise solely out of the purchased security



**Sources of Potential Superior Outcomes in Direct Investing** 

# **Sources of Potential Superior Outcomes in Direct Investing**

GENERAL PARTNERS:			
Transition from Traditional GP Role to	"LEAD" INVESTOR		
Reduce Financing Risk	■ Access to \$11 billion in available co-invest capital		
Enhanced Control	■ Direct investors are passive participants		
Lower Investment Expense	■ Eliminate costs and complexity of syndication with other GPs		
Rapid Decision Making	■ Direct investors depend upon diligence and track record of Lead		
Greater Strategic Flexibility	■ Ability to fi nance to "Peak Value"		
Higher Capital Effi ciency	■ Tighter reserves		
Stronger Portfolio	■ More companies, broader diversifi cation		
New LP Relationships	■ "Deal-by-Deal" leads to stronger relationships		
LIMITED PARTNERS:			
Transition from Traditional GP Role to	"DIRECT" INVESTOR		
No Fee, No Carry	■ Gross IRR = Net IRR		
Shortened Investment Horizons	■ Average "Hold" period for discrete healthcare investment = 4.7 years		
Accelerated Liquidity	■ Distributions made immediately upon "Exit" of each Company		
Maximize MOIC	■ \$100 to \$150 million of annual investment potential in (12) to (15) deals		
Participation with Top-Tier Managers	■ (8,300) Lead investors have made at least (1) investment since 2012		
Extensive Deal Flow	■ 900+ Direct healthcare co-investment opportunities, annually		
Established "Exit" Pathway	■ Institutional leadership and strategic validation		
Transparency	■ 8-week due diligence; Online portfolio management and reporting		
Access To Management & Board	■ Opportunity evaluation, performance measurement, "exit" planning		
Tailored Portfolio	■ Focus on sectors, stage of development, asset class, Lead investors		
Favorable Valuation & Structure	■ "Pari Passu" investment directly alongside institutional Lead investor		
'Deal-By-Deal' Discretion	■ Flexibility in decision-making, customizing portfolio		



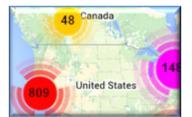
**Financial Technology – Enabling Direct Investing** 



- >3,300 members Accredited Investors, Early- Stage/Growth Company Executives, Investment Professionals, Strategic Buyers
- >800 "Active" healthcare companies in 46 Market Sectors Seeking Licensing Partners, Financings, and/or "Exits"
- Sponsors S. Jordan Associates and Healthios, Chicago-Based Healthcare Investment Bank









**U.S.** and Europe



- The World's Premier "Direct Investing" Platform
- Sponsored by the Singapore Stock Exchange (SGX), Venture Capital Firm - Clearbridge Accelerator, and HealthiosXchange
- SGX Raise, Capital for Small-Medium Size Enterprises (SME), Fund Allocation, Shares depository ("IPO On Ramp")









Launching 11/01/2015

**Asia Pacific** 

**Key Takeaways & Next Steps** 

# **Key Takeaways**

- # of Limited Partners Investing on a "Direct" Basis is Accelerating
- Institutional Investors/Managers Seeking "Best Practices" to Participate on a Direct Basis
- Emerging Growth Companies Increasingly are Pursuing Alternative Vehicles to Raise Capital
- FinTECH will Continue to Support this Financing Trend (e.g. Capbridge)



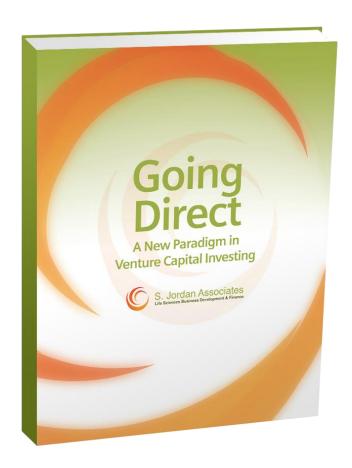
# **Next Steps – Companies Seeking Capital**

- Contact S. Jordan Associates to Learn More About How to Leverage Direct Investing to Secure Your Next Round of Financing including:
  - ✓ Preparing/Updating Core Documents and Valuation
  - ✓ Regulatory Filings 506 (b) or (c) General Solicitation
  - ✓ Identifying Most Active Institutional Investors Participating on a "Direct" Basis
  - **✓** Centralizing Investor Relations List On Following Portals:
    - ☐ HealthiosXchange <a href="http://www.healthiosxchange.com/">http://www.healthiosxchange.com/</a>
    - ☐ Capbridge, <a href="http://www.capbridge.sg/s/">http://www.capbridge.sg/s/</a>
  - ✓ Marketing Driving Investors to Company Page

# **Next Steps – Institutional Investors/Managers**

- Contact S. Jordan Associates to Learn More About the Essential "Eight" Best Practices for Direct Investing
  - ✓ Subscribe to Receive SJA White Paper, "Going Direct: A New Paradigm in Venture Capital Investing," Completion Date, 12/1/15

# Going Direct A New Paradigm in Venture Capital Investing



#### **Contact S. Jordan Associates**

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