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Innovation Funds – Approaches and Challenges of Direct Cash Investing

Welcoming remarks will begin at 11:55 a.m. Eastern Time.

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Innovation Funds – Approaches and Challenges of Direct Cash Investing

Speaker:

Louis P. Berneman, EdD, CLP, RTTP, Osage University Partners and HealthCare Royalty Partners

Sept 24, 2014



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Questions?

We look forward to answering your questions today.



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Innovation Funds

Louis P. Berneman

AUTM Webinar September 24, 2014

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Louis P. Berneman, EdD, CLP, RTTP

Founding Partner, Osage University Partners Lead Academic Advisor, HealthCare Royalty Partners Managing Director, Texelerate, LLC

- Licensing transactions
- Expert witness services

Previously

- Managing Director, U Penn CTT
- Co-founder, 4 "academic" startups
- Past President, AUTM
- Former VP and Trustee, LES and LES Foundation
- Columbia University Teachers College, MA, MEd, EdD
- UC Santa Barbara, Teaching Credential
- Penn State, B.A.



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Direct Cash Investing Approaches and Challenges

- In recent years, universities and their TTOs have established a variety of innovation funding vehicles to:
 - promote local economic development;
 - foster the entrepreneurial / innovation ecosystem; and
 - facilitate the commercialization of discoveries.
- These innovation funding investment vehicles come in a variety of forms, but can be characterized generally as:
 - proof-of-concept funds;
 - seed funds; and
 - growth (or venture) funds.



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Why All This "investing" Activity Now?

- The primary catalysts for this trend, I believe, are:
 - the scarcity of financial resources for de-risking and adding value to embryonic technologies and the further exasperating of the "valley of death";
 - Top down pressure from Trustees, Presidents, Provosts, Deans and other institutional leaders to advance the innovation ecosystem and promote entrepreneurism;
 - Pressure from local/state/regional government officials to promote economic development; and
 - Bottom up pressure from faculty (and students) to facilitate commercialization (for a variety of reasons).



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Direct Cash Investment Considerations

- What are the goals for your fund(s)?
- How will you measure success?
- · From whom and how will funds be obtained?
- Who and how will "investment" decisions be made?
- Who and how will these funds/programs be managed?
- · Today, we'll address these and related questions.
- Unlike other webinars, I would like this one to be highly interactive with YOU engaged – asking questions, making comments, and contributing – throughout.



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Innovation Funds Have a Variety of Goals

- Promote innovation
- · Facilitate commercialization
- Recruit faculty
- Add-value pre licensing
- De-risk embryonic technologies
- · Advance the innovation ecosystem
- Create more (investable) start ups
- Improve the quality of new ventures
- Recruit investable entrepreneursObtain angel and VC financing
- Generate financial returns
- Appease Trustees
- Other goals?



Different Goals for Different Types of Funds

PoC Funds are about de-risking

Resolve key questions

Seed Funds are about the "i"

Build the "i" ecosystem Create more start ups Promote "i" culture Support econ development Brand institution as "i"

Co-investment Funds are about the ROI

Drive \$ returns Generate \$ gifts to U

De-risk and Create value Build the "i"

Ecosystem

Generate Financial Returns



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Different Types of Innovation Funds

- Proof-of-Concept (PoC) Funds Faculty Driven
 - Promote innovation, de-risk, add-value, and facilitate commercialization
- Seed Funds Mission Driven
 - Funds to advance the innovation ecosystem (mission driven) by launching new ventures, recruiting management, and obtaining VC financing
- Growth (Venture) Funds ROI driven
 - Funds to drive growth and financial returns

Proof-of-Concept Funds

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Proof-of-Concept Funds

- · Proof-of-concept / translational research / bridge-the-gap
- Becoming ubiquitous
- \$0.5 M to 2 M Fund Size
 - \$25,000 to \$250,000 per project
 - Generally managed by TLO personnel
 - Other institutional stakeholders often participate
 - Preferably folks from industry/venture participate and serve in an voluntary, advisory capacity
 - PoC funds often also include provision for mentorship/oversight
 - What is the size of your PoC fund?
 - Who manages?
 - Do industry/venture folks contribute/participate?

Success Metrics for PoC Funds

Project Metrics

- Number of projects completed?
 - Of these, how many had a successful scientific outcome i.e. achieved major technical milestones?
- Strength of IP filed
- Number / percentage of projects subsequently partnered -- licensed to established companies / start ups

Financial Metrics

- Number of licenses, options or sponsored research agreements executed
- · Cash on Cash return for funds invested
 - often happy with break even
- External capital raised post PoC funding



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Examples of Proof-of-Concept Funds

- Boston University Ignition Grants
- Caltech Grubstake Program
- Cass Business School Entrepreneurship Fund
- Harvard Technology Development Accelerator Fund
- NYC Research Institutions Translational Research Fund
- Royal Society Enterprise Fund
- St Louis Research Institutions Translational Research Fund
- UCSD Von Liebig Program
- University of Cambridge Discovery Fund
- University of Chicago Innovation Fund
- University of Michigan MTRAC
- University of Oxford Innovation Fund
- University of Wisconsin Catalyst Fund
- Other?

Seed Funds

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Seed Funds - Goals

- Mission driven build the Innovation (entrepreneurial) ecosystem
- Create more start-ups
- Promote a culture of innovation among faculty and students
- Support economic development
- Brand the university as a hub of innovation

Seed Funds

- Opinions differ regarding the need for experienced investment personnel to manage seed funds
 - Small funds are difficult to staff professionally (venture economics)
- Funds help provide access to support professional services
- Funds help attract management and advisors with business development and capital formation expertise
- Funds also often support student start-ups
- Critical for success is clear remit and providing support services beyond capital in terms of recruiting management and followon capital

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Seed Funds - Success Metrics

- Ultimate return is in creating start-ups (licensees) that, theoretically, but for the availability of seed funds, would not get launched
- Most seed funds have shown a track record of creating more start-ups, attracting follow-on capital, and generating financial returns from licenses (e.g. fees and royalties)
- Traditional ROI financial return is uncertain (at best)
 - Average holding period very long
 - Ability to participate in follow on rounds is critical to ROI

Examples of Seed Funds

- · Connecticut Innovations (state funded)
- Illinois Ventures (UIUC funded)
- Utah Kick Start \$15M
- WARF 3 @ \$10M (Endowment funded)
- Mission Bay/QB3 \$12M (LPs)
- Innovate Indiana \$10M
- Ohio State and Ohio University \$35M
- W \$20M (U Washington) (mix of funders)
- · Other?



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Venture/Growth/Co-Investment Funds

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Venture, Growth, Co-Investment Funds

- ROI Driven
- Preferred investment access is critical (e.g. participation rights)
- Essential to have access to a robust pipeline -- quality and quantity -- of scientifically and commercially superior investment opportunities
 - Pipeline is essential to avoid adverse selection
- · Often partnered with professionally managed funds



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Examples of Growth Funds

- Osage University Partners Fund -- \$100 M
 - Participation Rights
 - 8 University Partners and 38 Associate Partners
 - \$25 B research base
- MINTS U Michigan \$25 M
- UT Horizon Fund
- GRA Venture Fund
- Imperial Innovations \$140 M
- Partners Innovation Fund (MGH and W & B) \$35 M
 - \$1.4 B research base
- Mayo Medical Ventures \$25 M
 - \$600 M and 3,000 MDs research base

Other?



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Sources of Capital

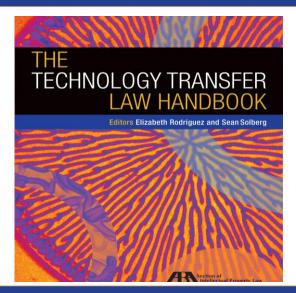
- · Royalty monetization
- Retained revenues ('earnings')
- Endowment
- Operating funds
- Donors
- State / other public funds
- Patient advocacy and venture philanthropy funds
- · Other?



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Christopher F. Wright and Louis P. Berneman, "The University as a Venture Investor: Models and Challenges for Equity Licensing, Direct Investment and Partnering Methods" in the American Bar Associate Technology Transfer Law Handbook, Elizabeth D. Rodriguez and Sean D. Solberg, Editors, 2014.





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VC 101: A PRIMER LES NOUVELLES



Louis P. Berneman and Christopher F. Wright, "Venture Capital 101: Financing Mentality, Jargon, Term Sheets, and Documents - Primer for Academic Technology Transfer Managers and Industry Licensing Executives," in *les Nouvelles*, the Journal of the Licensing Executives Society, March, 2014



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Contact

SUMMARY

Osage University Partners (OUP) invests in startups that have licensed technologies from universities and research institutions. OUP has partnered with over 65 academic institutions to invest in pioneering technologies and visionary entrepreneurs targeting large market opportunities. The Fund invests across a range of technology sectors and company stages, and typically co-invests with other leading venture funds.

Louis Berneman

Founding Partner

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Questions? Comments?





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AUTM Western Region Meeting

Date: Oct. 2 – 3, 2014 Seattle Marriott Waterfront Seattle, WA USA



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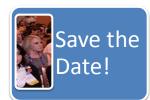
AUTM Essentials / TOOLS Courses

Oct. 13 – 15 Westin Denver Downtown

Denver, CO USA

AUTM Successful Practices in Small Technology Transfer Offices

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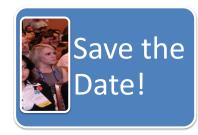


AUTM Partnering Forum (Energy Technologies)

Oct. 22-23 Hosted by Rice University Houston, TX USA

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Feb. 22 – 25

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