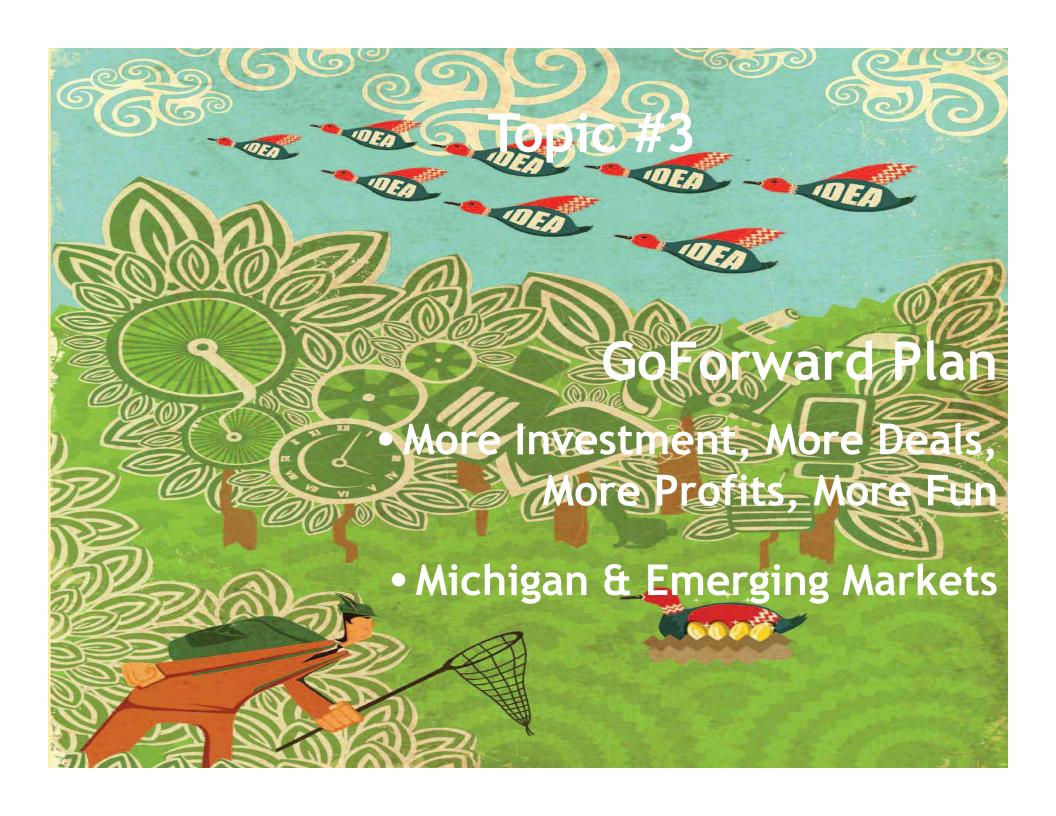


Thomas D. Nastas Innovative Ventures Inc (IVI)
Lecture, Class of Dr. Zsuzsanna Fluck, Venture
Capital & Private Equity,
Eli Broad Graduate School of Business, MSU
2 February 2012











My 1st Fund

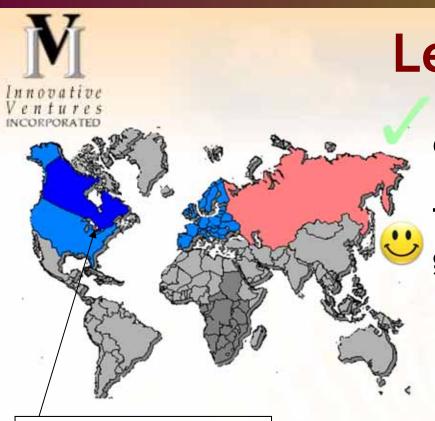
- Seed/Early Stage Tech, SMEs in Valley of Death
- State of Michigan Founding Investor
- Goal: Make \$ & Advance Economic Development
- Structure: Royalties in Perpetuity, No Cap
- Royalty Investment in a Tech, a Product (Design)

USA (1986)

The Michigan Product Dev. Fund (\$4MM)



Oops! SWOSSE BBONS ARNED



Lesson #1

Royalty structures are great for early & fast cash returns

Terrific to finance medium growth & family-held SMEs

But

USA (1986)

The Michigan Product Dev. Fund (\$4MM)

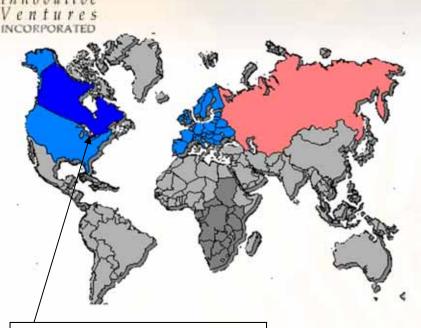


Not so good: Investment in a single platform-SMEs obsolete products



= no (or little) ROI

Lesson #2



USA (1986)

The Michigan Product Dev. Fund (\$4MM)



Structure investment to market needs satisfied, not platform or product design

Circumvents risks of product replacement, obsolescence

Gives investor multiple cash streams from multiple products

Emulates equity w/o the disadvantages of equity

Lesson #3

Cash payments can become onerous for the investee with royalty payments for multiple products

USA (1986)

The Michigan Product Dev. Fund (\$4MM)





When cash payments become too much for the investee company



Sell the royalty claim for equity

Innovative Ventures incorporated

Some Results

- \$700k investment in Applied Intelligent Systems Inc., \$500K in royalty returns, years 1 & 2. Sold royalty claim for equity, 10%, exit @ \$120MM
- \$700k investment in Neogen.
 Little royalty ROI, but later,
 Wow, IPO. 2010 valuation
 \$750MM

USA (1986)

The Michigan Product Dev. Fund (\$4MM)





All on a \$4MM fund. Lucky!

• Demonstrated new uses-royalty financing, creative & flexible



What Happened Then

Canada (1992)

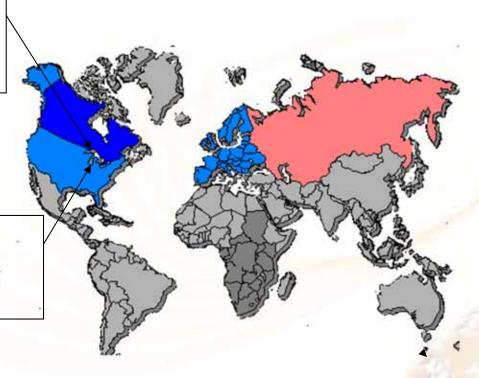
C\$100MM-Canadian Bus. Dev. Bank



USA (1986)

The Michigan Product Dev. Fund (\$4MM)







And Then

Canada (1992)

C\$100MM-Canadian Bus. Dev. Bank



USA (1986)

The Michigan Product Dev. Fund (\$4MM)





Europe (1992/94)

Tech Fund, \$10MM-EU, \$5MM Financière St Dominique, Paris





Africa (1993/96)

E. Africa \$5MM, Sub-Saharan, \$280MM, South Africa,\$30MM, IFC/World Bank



Next

Canada (1992)

C\$100MM-Canadian Bus. Dev. Bank



USA (1986)

The Michigan Product Dev. Fund (\$4MM)







Russia (2005) Shell Tech Ventures

Africa (1993/96)

E. Africa \$5MM, Sub-Saharan,

\$280MM, South Africa, \$30MM,

IFC/World Bank

CIS Hi Technology Partnership Initiative: Shell Oil & IVI

Europe (1992/94)

Tech Fund, \$10MM-EU, \$5MM Financière St Dominique, Paris





Russia (1997)

HP LP, \$30MM-EBRD & USAID





And Finally

Kazakhstan (2011)

\$85MM Tech (Commercialization Project

Canada (1992)

C\$100MM-Canadian Bus. Dev. Bank



Shell Tech Ventures

CIS Hi Technology Partnership Initiative: Shell Oil & IVI

Russia (2005)

Europe (1992/94)

Tech Fund, \$10MM-EU, \$5MM Financière St Dominique, Paris



NATEXIS
Private Equity



USA (1986)

The Michigan Product Dev. Fund (\$4MM)



Africa (1993/96)

E. Africa \$5MM, Sub-Saharan, \$280MM, South Africa,\$30MM, IFC/World Bank

Russia (1997)

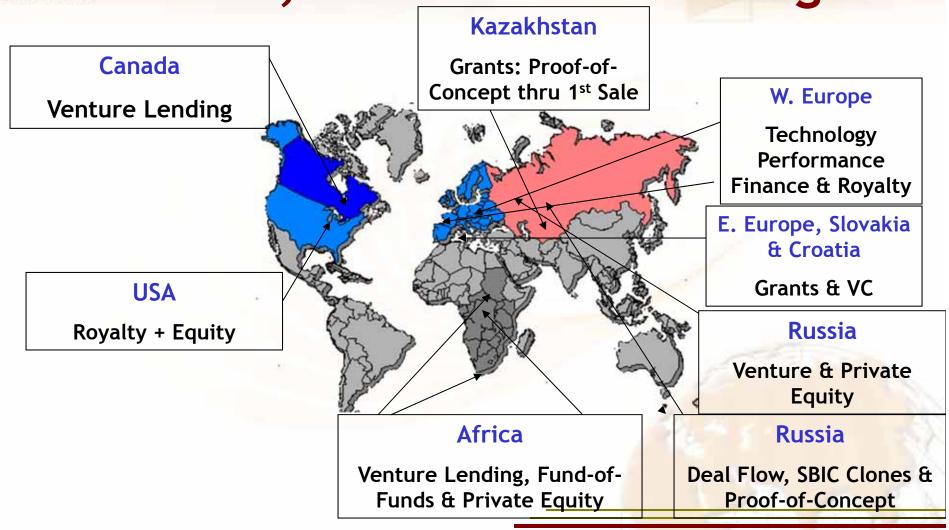
HP LP, \$30MM-EBRD & USAID







Investing Through a Variety of Funds, Structures & Strategies





To Make \$ & an Economic Development Impact







Business Development Bank of Canada Banque de développement du Canada



For My Investors & Partners



Shell Technology Ventures







EUROPEAN COMMISSION





Governments Lead & Seed the Market



Example, Collapse of Berlin Wall & Soviet Union

- 1st Wave of Investment, 1990-1998
 - Economic Shock Therapy
- Economies Liberalized to Free
 Market Principles



Action of US Gov't

•	Polish-	American	Fund,	1990
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- Hungarian-American Fund, 1990
- Czech-Slovak American Fund, 1991
- Bulgarian-American Fund, 1991
- Baltic-American Fund, 1994
- Romanian-American Fund, 1994
- Central Asian-American Fund, 1994
- Western New Independent States Fund, 1994
- The U.S. Russia Enterprise Fund, 1994
- The US Russia Investment Fund, 1994
- Albanian-American Fund, 1995
- TOTAL

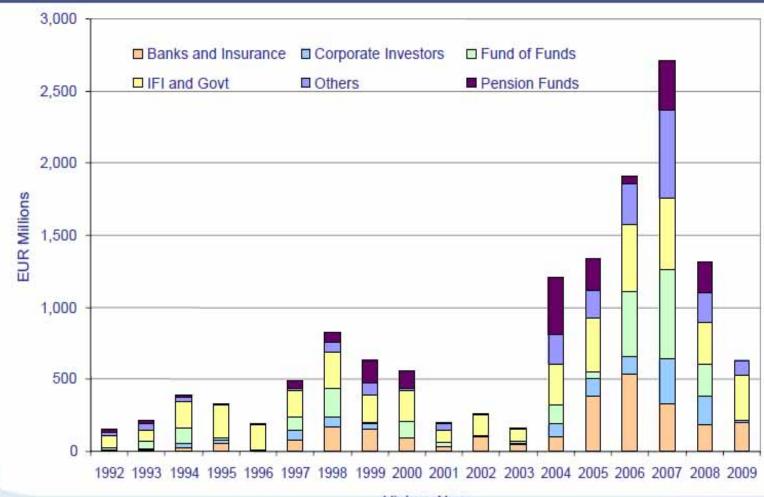
- \$255 million
- \$73
- \$65
- \$58
- \$50
- \$61
- \$106
- \$150
- \$329
- \$120
- \$30
- \$1,297



Creation, European Bank for Reconstruction & Development

- 1991, by G7 + Others
- Direct Project Financing
- Establish Funds w/Private Managers,90% of \$ from EBRD
 - Influence/Impact Investor Behavior

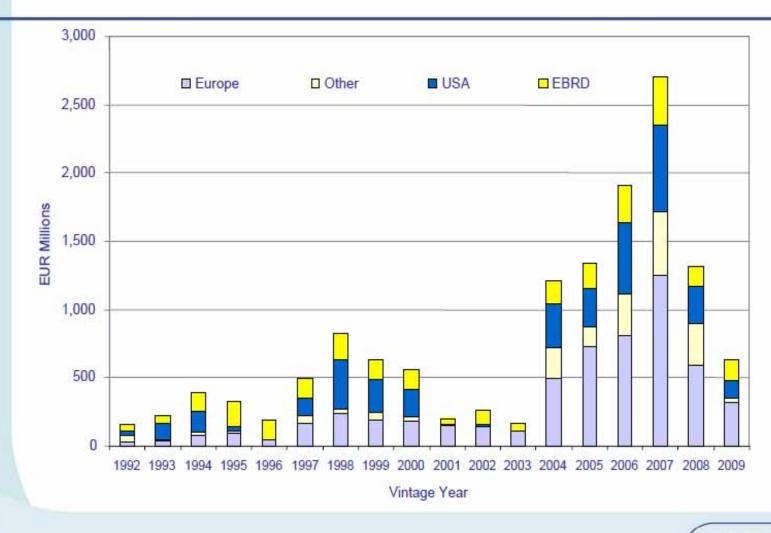
Investor Type by Vintage Year





38

Investors by Origin Over Time







1st Wave 1990-1998

Purpose of Funds

- Invest in Privatized Firms, More Debt vs.
 Equity
- Raise New \$, Add Contacts & Experience
- Inject Corporate Governance & Transparency: Keep Interests Aligned
 (Still a Challenge)



2nd Wave 1998-2008

Russian Default

- Ruble Crash, Inflation & Import Costs Soared
 - Stimulated Local Manufacturing, Domestic Economy
 - Global Demand for Natural Resources



2nd Wave 1998-2008

From VC to PE

- From 1990-1998, Deals were VC
- Deals Matured, Evolved to PE, Expansion,
 Post Crisis, \$5MM-\$50MM
- Creation of PE Funds Financed by Oligarchs
 - Champagne & Caviar Flowed till 2008



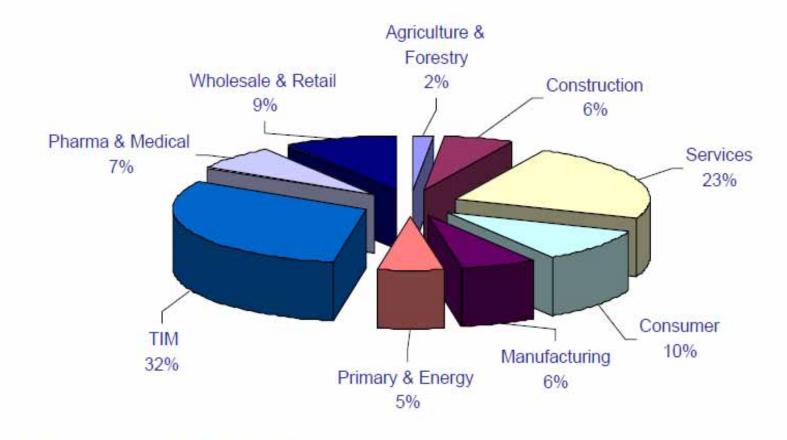
What I Learned in North American, International & Emerging Market VC

- Investor DNA
- Business Model/Deal Flow DNA
 - Entrepreneur/Mgt Team DNA



Deal Flow Continues to Center Around the Mainstream Economy

Investments by Sector: Deal Flow Breakdown by Acquisition Cost to end 2009



Note: since inception, in EUR, CSE and CIS





Unbelievable Freedom in Pricing

- Pent-Up Demand>Supply—Brand Names Rule
 - Mid Brands Positioned as 'Luxury'
- Mgt Attitudes & Mkt Acceptance to Pricing =
 Breathtaking Profits & Wealth Creation









- •≈\$25/Retail (Michigan)
- •Sale price ≈\$13-\$17

• \$5/bottle







- •≈\$25/Retail
- •Sale price ≈\$13-\$17
- •Russia Price ≈ \$65!

• \$7-\$10/bottle •Russia Price ≈ \$30!



Threats Created

- Entrenched Suppliers & Status Quo Use Gov't
 & Bureaucracy to Crush All
 - Relationships, Relationships, Relationships
 - Employ ex 'KBG' Guys for 'Security'



Entrepreneur & Mgt Team DNA

- Loyalty & 'Connections' over Experience (demand so strong, who needs experience)
- On the Job Learning with Little Instruction
 - Thrive in Adversity, Uncertainty, 24/7
- "I Wanna Be Rich!" Envy Big Motivator to IPO



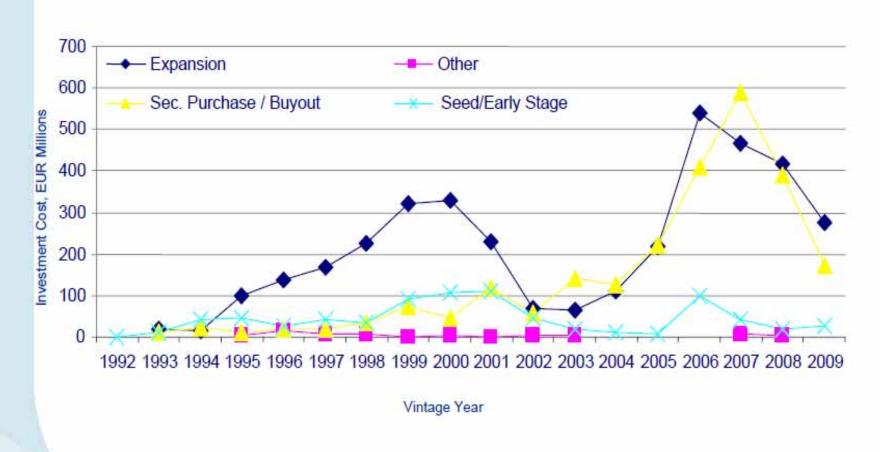
Investors 'Bet' on Sure Things





- Expansion Capital & Acquisition Finance
 - Established Business Models
 - Exit Prices, 10x in 3 Years is Common

Investments by Stage Over Time



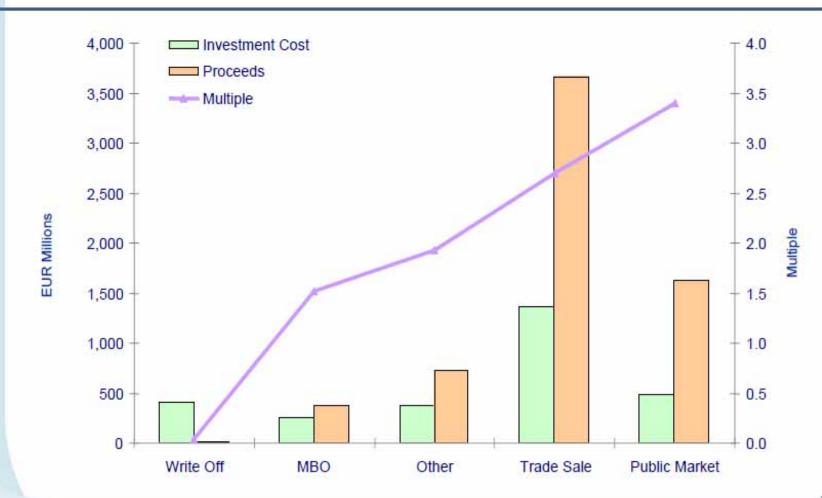


Exits by Stage Over Time





Performance by Exit Type – to end 2009

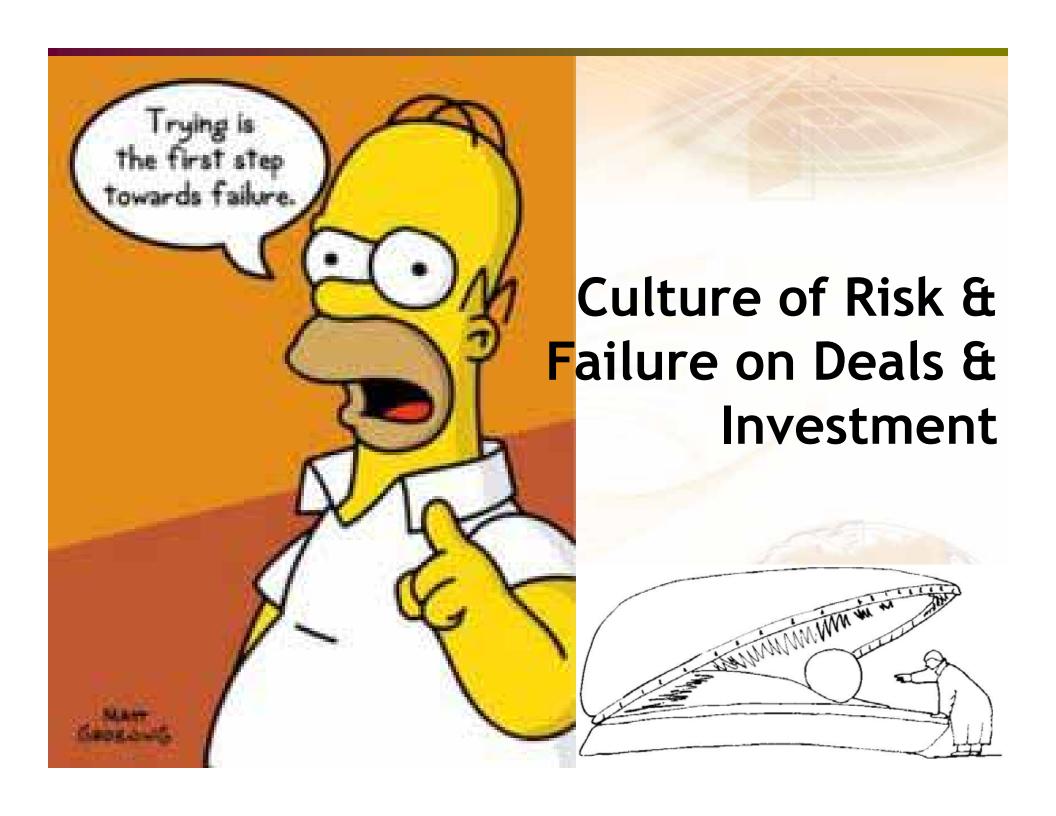




EBRD Net Horizon Returns: Breakdown

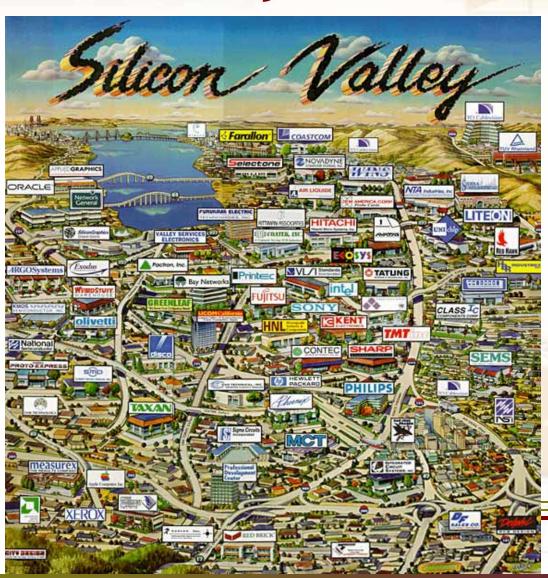
	Returns as at December 31 2009	One Year	Three Years	Five Years	Ten Years	Since Inception
USD	EBRD Private Equity Portfolio -	6.4%	5.2%	25.0%	16.9%	12.3%
	CSE	1.5%	8.6%	20.5%	14.6%	11.0%
	Russia/CIS	16.7%	0.6%	32.3%	20.1%	13.7%
	CSE/Survivors	3.0%	8.9%	20.1%	17.1%	14.0%
	Russia/CIS Survivors	17.0%	0.4%	27.6%	22.3%	19.2%
EUR	EBRD Private Equity Portfolio -	3.6%	2.4%	27.4%	11.8%	9.7%
	CSE	-1.4%	5.8%	22.5%	10.1%	9.0%
	Russia/CIS	14.1%	-2.4%	35.0%	14.0%	10.6%
	CSE/Survivors	0.0%	6.1%	21.9%	12.7%	12.1%
	Russia/CIS Survivors	14.4%	-2.5%	28.6%	16.3%	15.4%



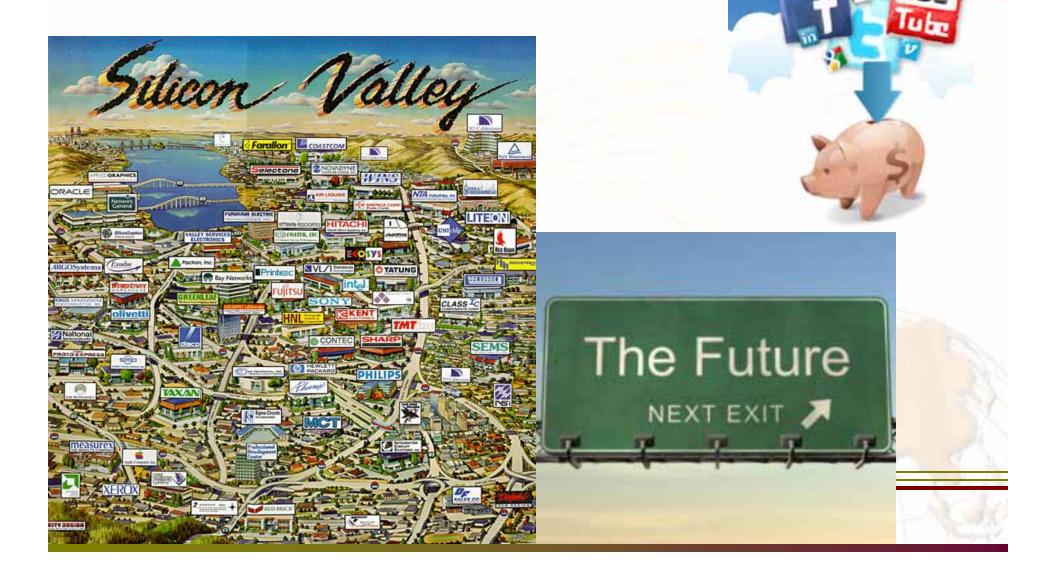


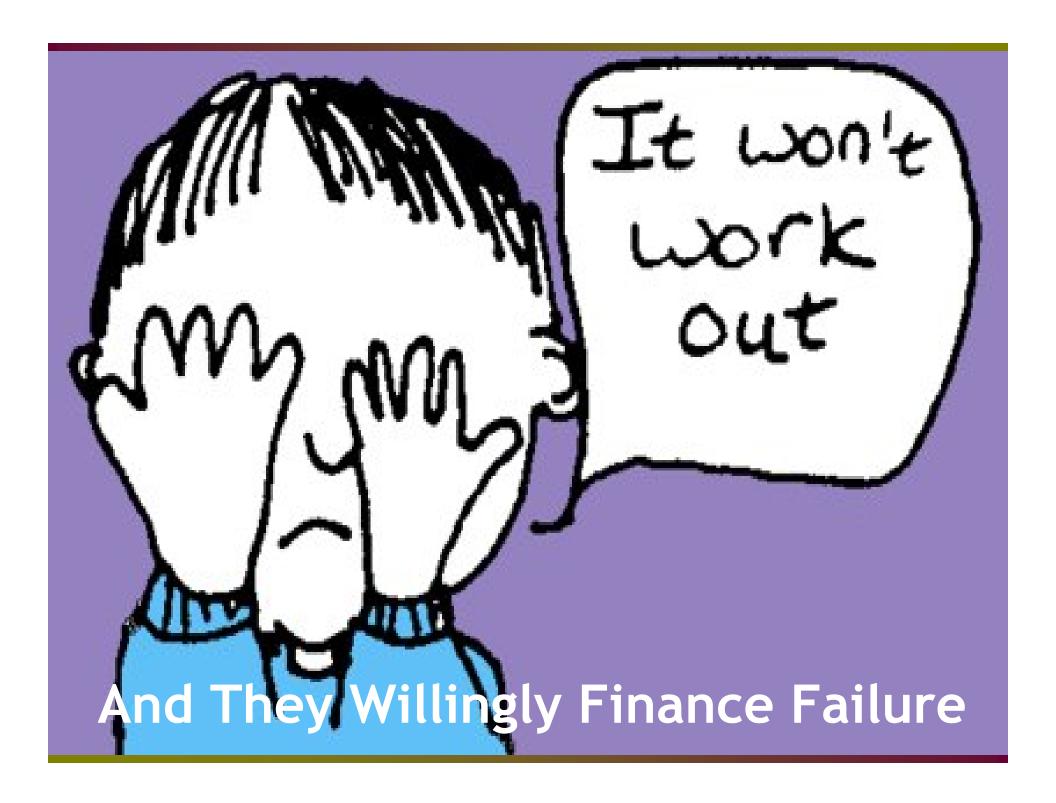


Let's Start Discussion in an Unlikely Place

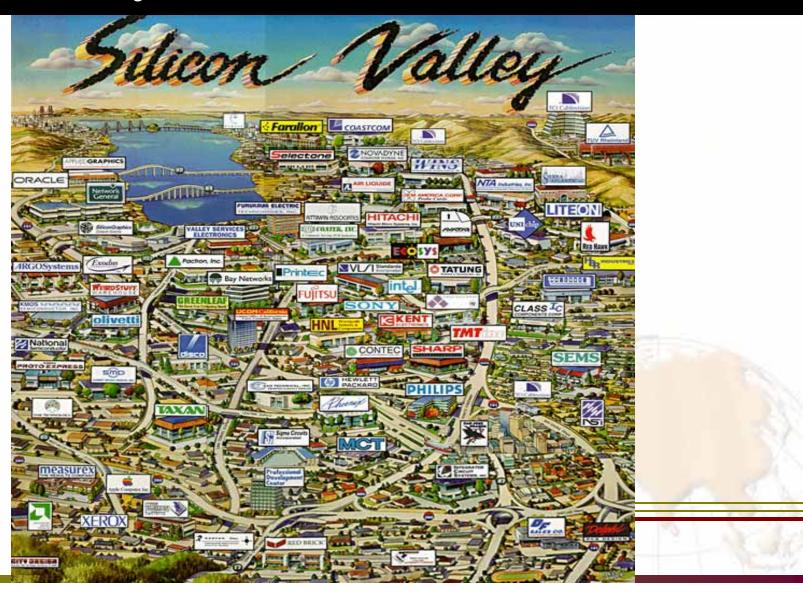


Valley Investors 'Buy' Opportunity Rentures Rentures Rentures Rentures Rentures





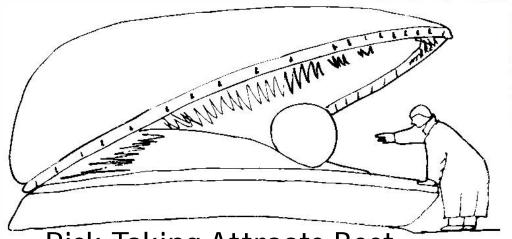
Financing the Future & Failure: not the Valley's Greatest Attribute





It's Attitude to Risk Is: Silicon Valley vs. World Velocity of VC in Silicon Valley

Attitude to Risk Impacts Risk Taking



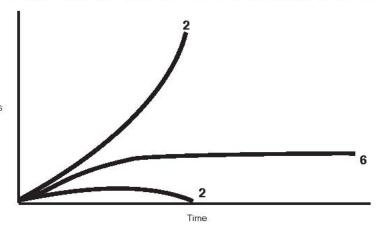
Risk Taking Attracts Best Entrepreneurs with the Craziest (& Riskiest) Ideas





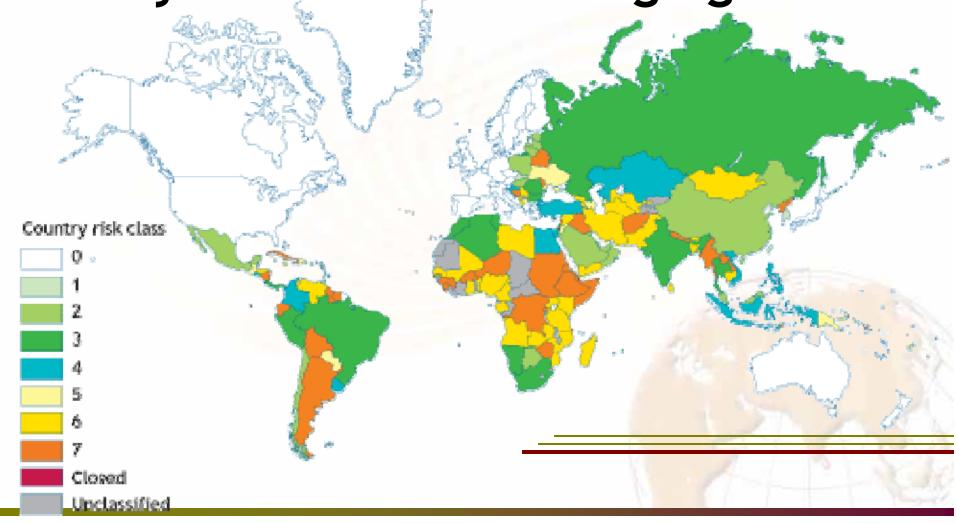
Accept Ambiguity & Lack of Certainty

Private Equity 2-6-2
DISTRIBUTION OF RETURNS RULE





Ventures But Cultural Attitudes to Risk Are Very Different in Emerging Markets





Investors 'Buy' Risk They Know & Understand



Risks in Deals Like:

- Real Estate/Construction
- •Food & Beverage
- Retailing
- Mfging
- Consumer Products
- Telecomm











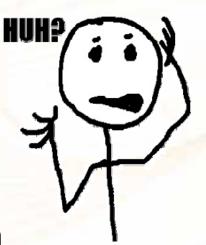


Risks in Tech Are Too Much for Venture vestors in the Developing World



We are still in beta, but when this gets rolling ...

Do Customers 'Get It?'



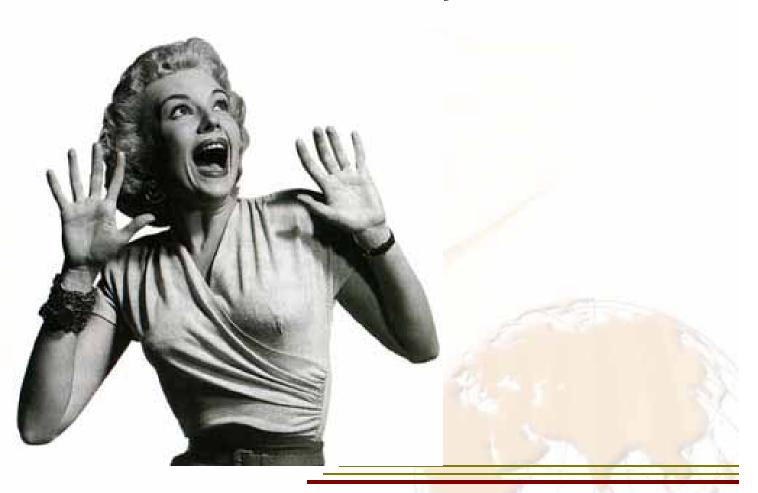
Will Tech Work?

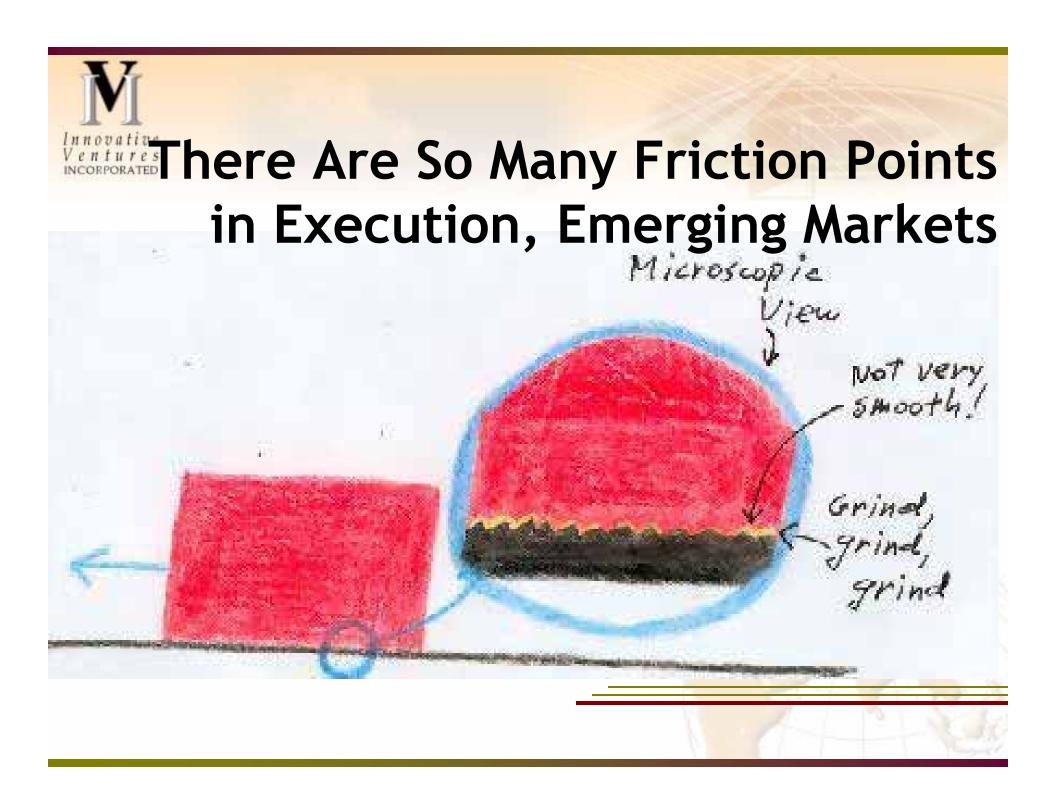


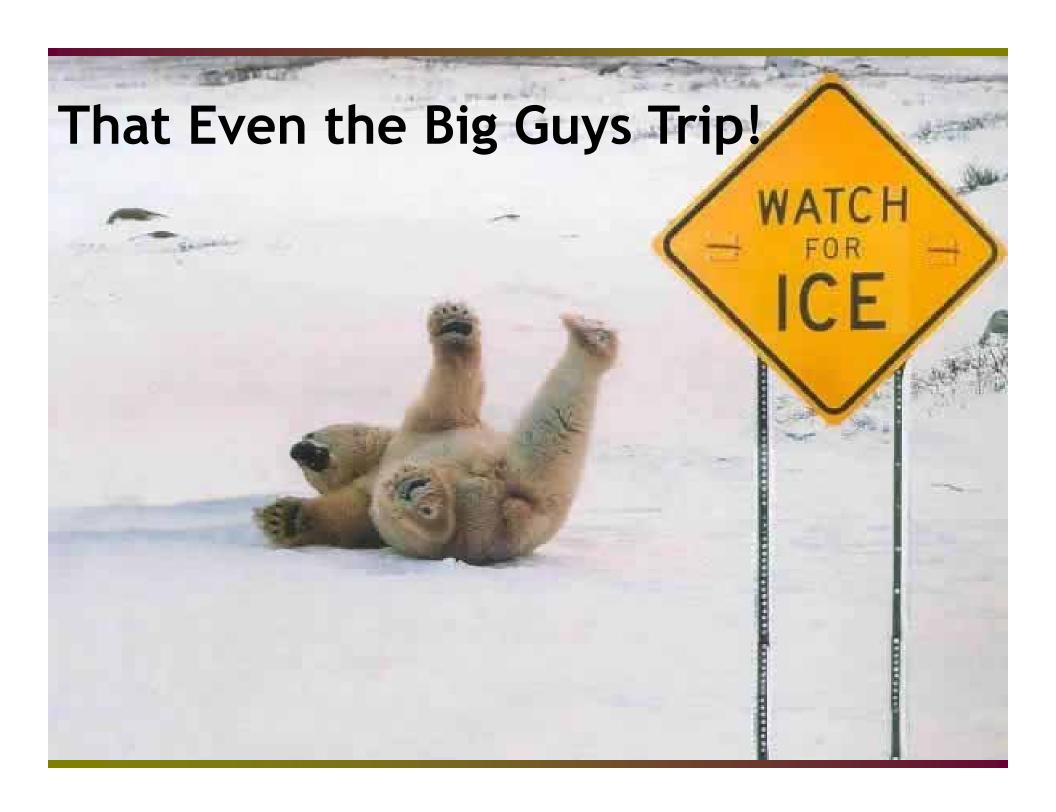
Will They Pay?



Why this Fear?

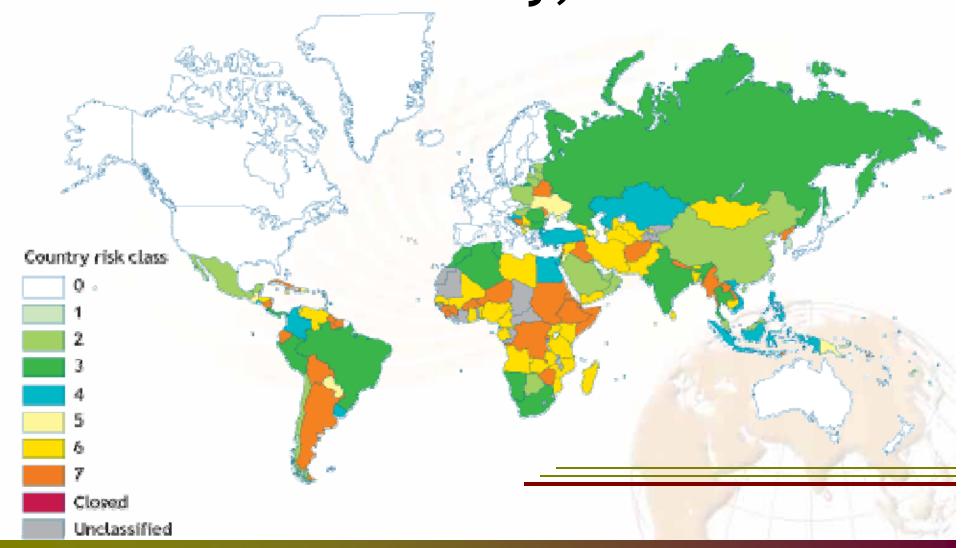








So Investors 'Buy' Growth with Certainty, not Potential





Where the Risks Are in Execution, & the Risks of Capturing Opportunity are Zero



And That's The Reason Why (for example)



"Croatia is a Country of Savers, not Investors"

'Capital Preservation'

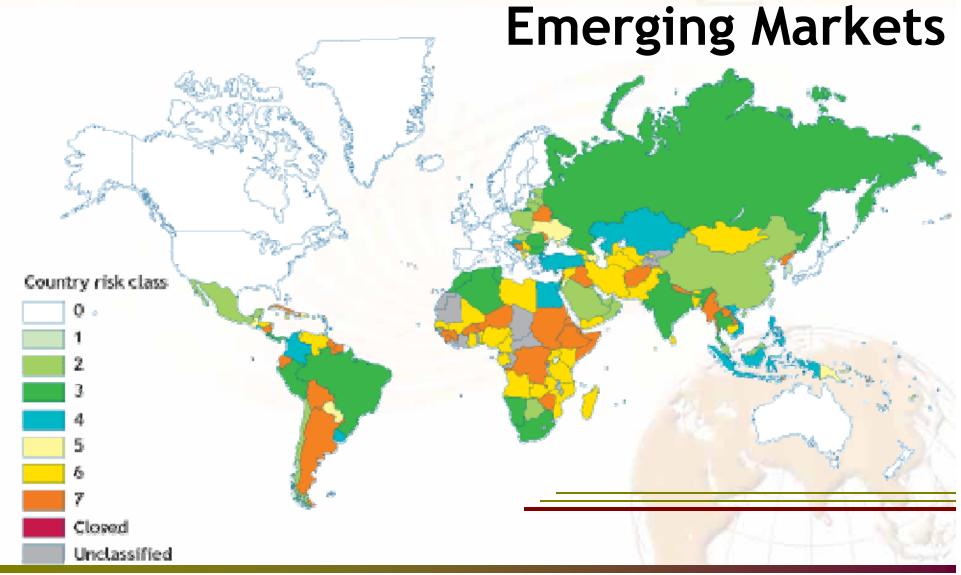




But Not Just Investors & the Culture in Croatia

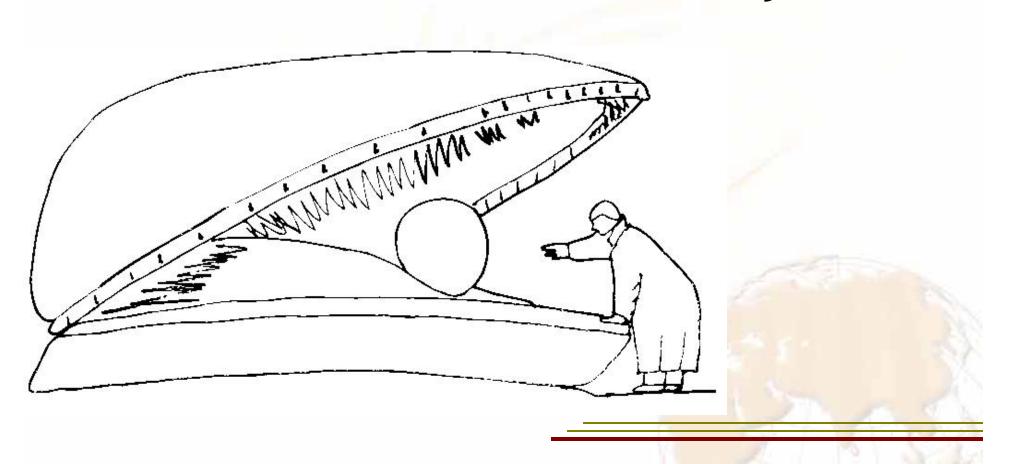


But Most of Us Investing in Emerging Markets





Emerging Market Investors Behave Rationally to Risk





Emerging Market Investors 'Buy' the Risks in Execution, Not Opportunity

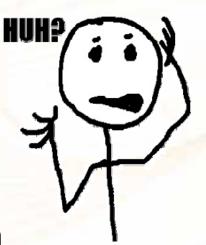


Risks in Tech Are Too Much for Venture vestors in the Developing World



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Will They Pay?

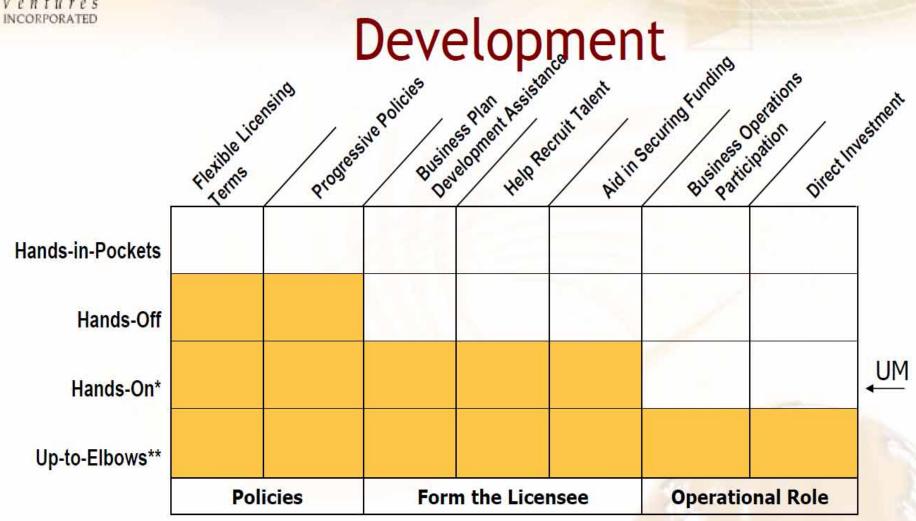








Models for Academic Business



^{*} Sometimes Bus Dev Group is quasi-external to the U

^{**} Often exclusive arrangement with Bus Dev Group that is external to the Univ

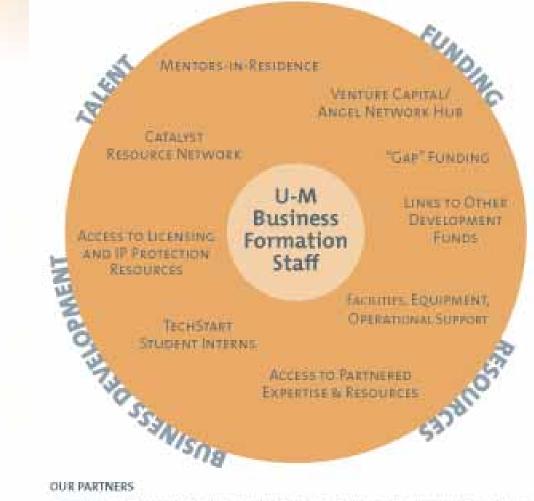


Top Start-Up Universities in USA

Rank	University	# of New Companies
1	University of Utah	20
1	Massachusetts Institute of Technology	20
2	University of Florida	14
2	California Institute of Technology	14
3	University of Michigan	13
4	Harvard University	12
4	John Hopkins University	12
5	Purdue Research Foundation	11
6	Carnegie Mellon Foundation	10
7	Brigham Young University	9
	Georgia Institute of Technology	9



MICHIGAN VENTURE CENTER RESOURCES



OUR PARTNERS

Translational Research Funding: Coulter Program, College of Engineering Translational Research Fund. Ufe Sciences Institute Innovation Partnership

Innovation and Prototyping: Medical Innovation Center

Student Entrepreneurship: Center for Entrepreneurship, Zell Lurie Institute.

PreSeed Funding/Business Assistance: Ann Arbor SPARK, MEDC

mowi vipe.com

Ventu Russian Gov't Tech & VC Initiatives



•PPP* Seeded with ≈\$1B, a 'Fund of Funds'



•PPP* Seeded with ≈\$10B, Direct Project Financing & 'Fund of Funds'

Nanotech



*PPP=Public/Private Partnership









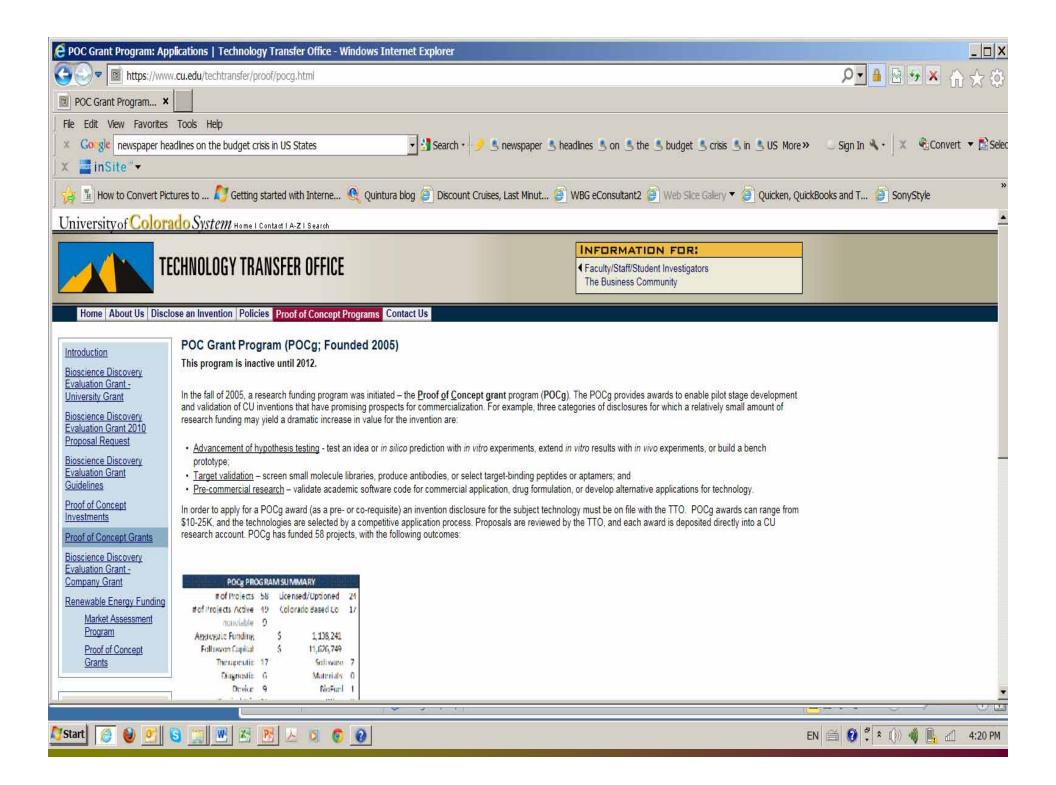
www.IVIpe.com Info@IVIpe.com













Dollar exchange rate easing credit strains MARKET JITTERS spending power commodities mutual fund endorses stimulus package slow revival Contidence wobbles Profits down mble assets anxiety deepens Interest rates survival in doubt Pension runus dry up

State of financial emergency forces major cuts at GVSC Milliken Asks \$225 Million in Cuts arsa unbounded from Cuts Deeper cuts needed to save Michigan's budget State's new budget plan may

State's new budget plan may force college to borrow









3rd Wave 2012+?

What Does the Future Look Like?

- Continued Integration, Emerging Markets in Global Supply Chains
 - More Diversification & Variety of PE Funds,
 Structured Finance
 - Commitment to Tech Funds & Knowledge Creation



3rd Wave 2012+?

What Needed for More Growth?

- Creation of New Funds, Provide Medium Term
 \$, 3-5 Years, a Huge Gap in Emerging Markets
 - 'Deal Flow Funds,' to Influence Investor Behavior to Financing Early Stage Tech SMEs, in the 'Valley of Death'



How Will You Impact the World?

- 'Creating Entrepreneurial Ventures in Developing Countries'
- US Start-up/VC Model Not Translate Well for Developing Countries
 - New Solutions, <u>Education</u>, <u>Training</u>,
 Mentoring Required







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