Start-Up APEC Conference II: Business to Global Market

24 September 2013 Lima, Peru

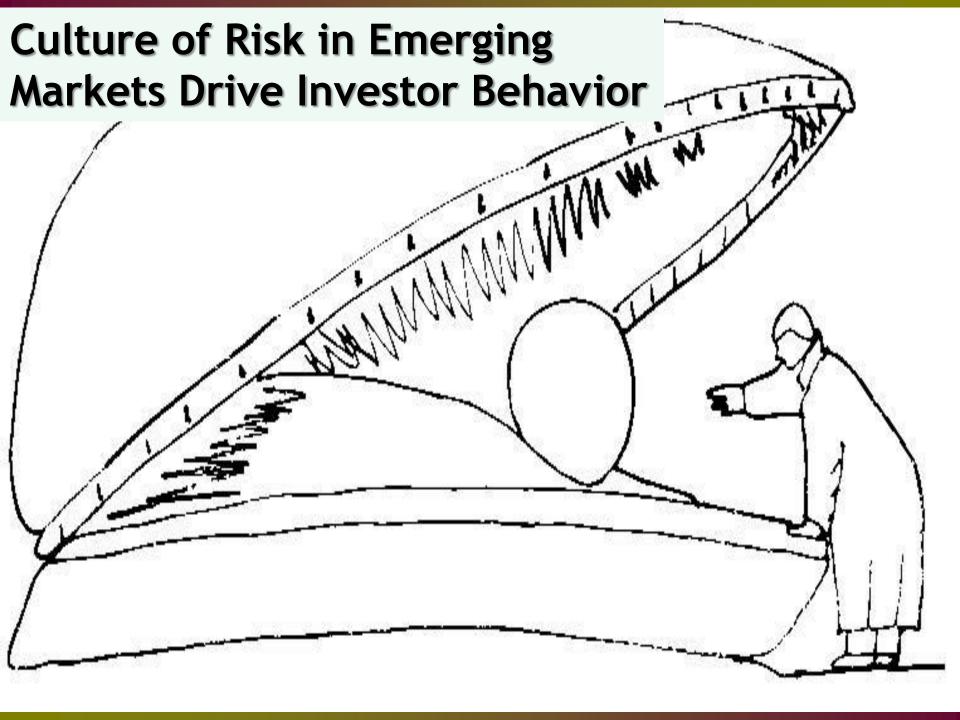
Talking Points of Thomas D. Nastas

www.scalingupinnovation.com www.IVIpe.com

Financing the VC Ecosystem



to Scale Up Investment—a Need Worth Solving





Nastas-IVI: Investors/Partners &

Ventures Funds—Financing Entrepreneurs

Canada (1992)

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



USA (1986)

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





Russia (2005): CIS Hi Tech Partnership Initiative: Investor-Shell Oil, Shell Tech Ventures + IVI

Africa (1993/96)

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

Kazakhstan (2010)-Present

\$85MM Tech Commercialization Project. \$ from

Europe (1992/94)

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





Russia (1997)

HP LP, \$30MM-Investors EBRD & USAID







Nastas Experiences with Deal Structures & Strategies

W. Europe (1992/94)

> Cash flow & Royalty

(2004 & 2010)

Slovakia & Croatia

Grants & VC

Canada (1992)

Venture Lending

USA (1986)

Royalty + Equity

Kazakhstan (2010-Now)

Commercialization Grants to Overcome the Valley of Death

Russia (1997-2010)

Venture, Private Equity & SME Bank Lending

Rússia (2010-Now)

Proof-of-Concept for Cross-Border Tech Dev/Transfer (Russia-USA-Russia)

Africa (1993/96)

Venture Lending, Fund-of-Funds & Private Equity



With So Much \$ Seeking Opportunity

Why is it Such a Struggle?

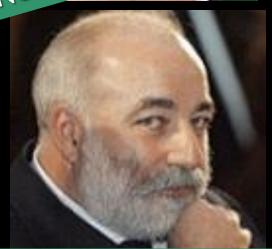
to Get Local Investors to Open Their Wallets



& Finance Technology, 1st time Entrepreneurs & Early Stage SMEs?

For Example—Russian Oligarchs: Plenty of \$ to Invest in Tech





Net Worth-\$11 Billion





Reasons Why Wealth Not Invest in Tech—Say Entrepreneurs

Reason #1 "Wealth Takes No Risk, Only Invest in Sure Things"



Reasons Why Wealth Not Invest in Tech—Say Entrepreneurs

Reason #2 "Wealth Does Not Invest in Start-up Projects"



Reasons Why Wealth Not Invest in Tech—Say Entrepreneurs

Reason #3 "Tech is Small \$"

IPO Valuation: \$11 Billion

НДЕКС





Nastas Comment: "Gee—Seems Like Big \$
to Me"



Risks Typically 'Bought:'



- Consumer, Food & Beverage
- Retailing
- Mining & Minerals
- Manufacturing
- Agriculture/Fishing

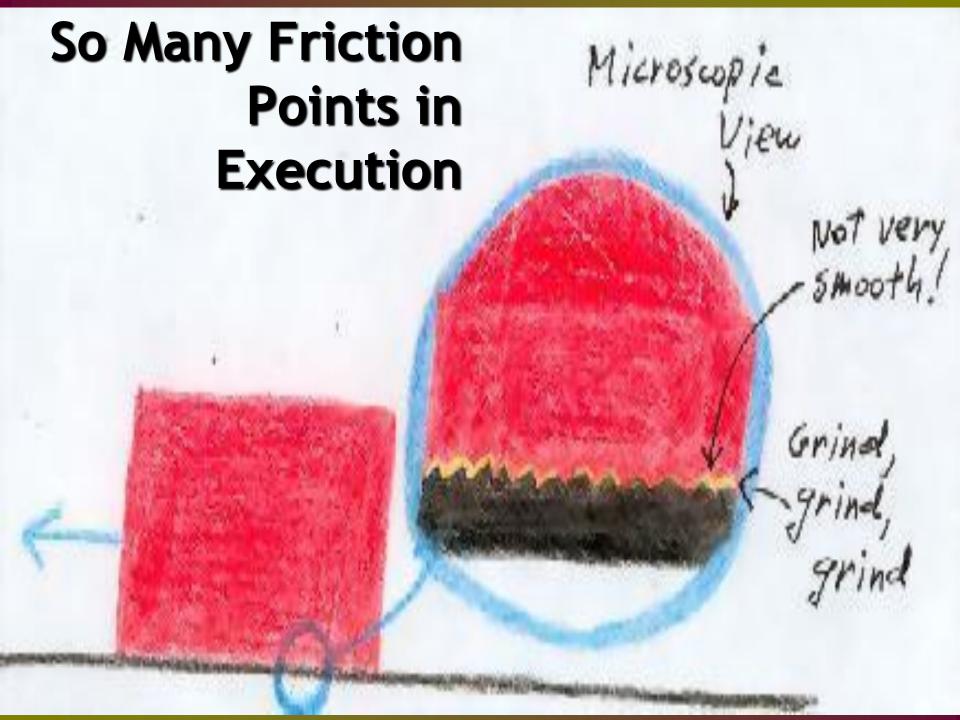




Even in Greenfield Projects, Markets & Customers Are Guaranteed

Results Assured if Execution is Successful







Big Uncertainties: Risks in Tech*



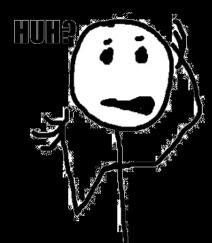
"Does a Market Exist?"



"Will They Pay?"



"Will the Tech Work?" "Do Customers 'Get It'?"



Tech Commercialization Project (TCP) in Kazakhstan

Make Technology More Commercial

Thomas D. Nastas

Member
International Science & Technology Board (ISCB)
Tech Commercialization Project, Kazakhstan

The Finance Chain in USA

Research funding

Public innovation funds

Angel investors

VC investors

Basic & applied research

Proof of concept & bench model

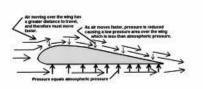
Prototype

Company formation (series A/B)

Licensing or

selling IP

Product launch & growth















TCP Finances the Market Gap in Kazakhstan

Research funding

Market Gap: No/too little \$ from public or private sources to finance proof-of-concept to commercialization: TCP makes tech ready for customers &/or angel/VC investors

Angel & VC Investors

Basic & applied research

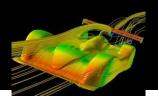
Proof of concept & bench model

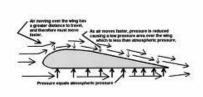
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So Tech Meets Customer &/or Investor Needs—to Prove that:



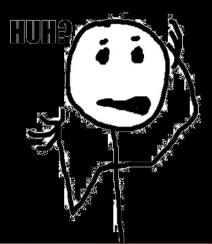
"Yes a Market Exists!"



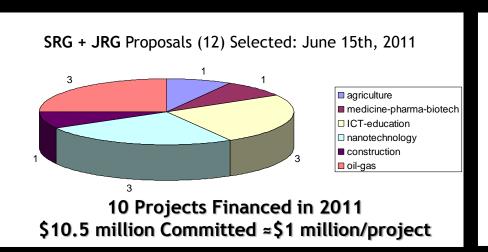
"Yes They Pay!"

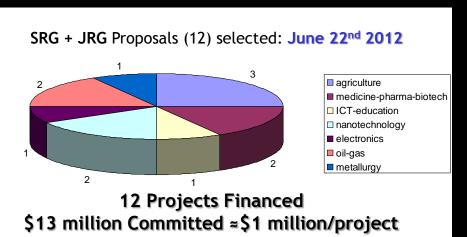


"Yes the Tech Works!" "Yes, Customers 'Get It!'"



Project Results (as of 14 August 2013)





Big Demand for Commercialization Financing

In 2011 International Science & Technology Board (ISCB) received:

- 304 research proposals in Senior Research Group (SRG)
- 63 research proposals of Junior Research Group (JSG)
 - ➤ 10 projects selected for finance, \$10.5 million committed ≈ \$1+ million/project

In 2012 International Science & Technology Board (ISCB) received:

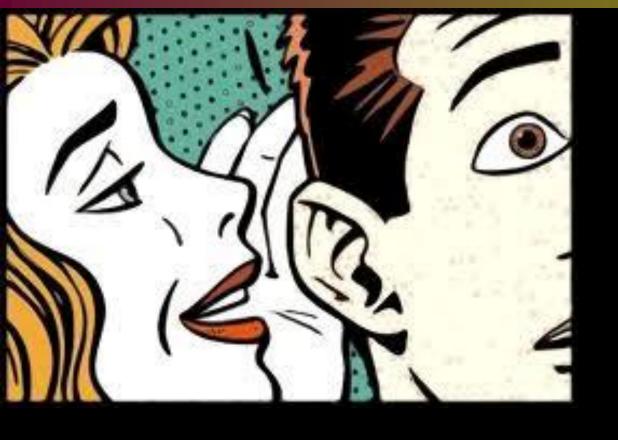
- 208 research proposals from Senior Research Groups (SRG)
- 24 research proposals from Junior Research Groups (JRG)
 - ▶ 12 projects selected for finance, \$13 million committed ≈ \$1+ million/project

1 August 2013 announced 2013 tender; 15 September 2013 last day to submit proposals

Details of 3rd tender + all guidelines, forms, etc., of TCP at this <u>link</u> (in English, Russian & Kazak)

Other Initiatives

To Scale the Start-Community & the Venture Capital Ecosystem?



And Impact the DNA of Investors?

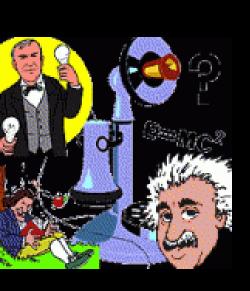
in Tech/Innovation
 to Venture Stage SMEs
 Possible to 'Shape' Deals to
 DNA of Investors?

Deal Flow Funds Centered Around a Platform are One Such Solution



Finance Creation of New Technologies & Technical Solutions





Let's Take the Natural Gas Shtokman Project as 1st Example



It Contains Breathtaking Wealth

• Gas Reserves=3.2 Trillion cubic meters + 31MM tons of condensate, spread over an area of 1,400m²

Exploiting Reserves, Environmentally Safe & Economically Requires New Technology That Does Not Now Exist

ESTONIA

MOSCOW

Challenge #1

Design, Build & Operate the 1st Floating Platform for Pack Ice

lce, 3m Thick, Uneven Ridges

• Able to Withstand Impact of Icebergs Weighing 1-2 Million Tons, Drift at 0.25m/second &1.2m Drift Ice Moving 1m/second

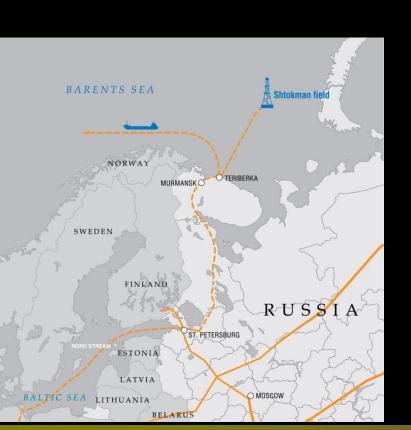
Challenge #2

Transport Gas Over an Uneven Seabed 565 km from Production to Receiving

BARENTS SEA ST. PETERSBURG ESTONIA LATVIA MOSCOW

Operate to -45C°

Accomplished



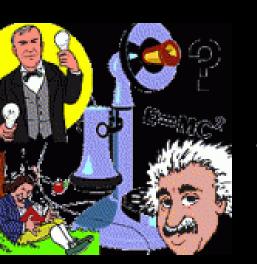
- Reliably
- Environmentally Safe
- Economically Viable Over the Entire Supply Chain



Finance Creation of New Technologies & Technical Solutions



 Oil/Gas as a Fund Too Broad & Too Horizontal to Catalyze Ideas





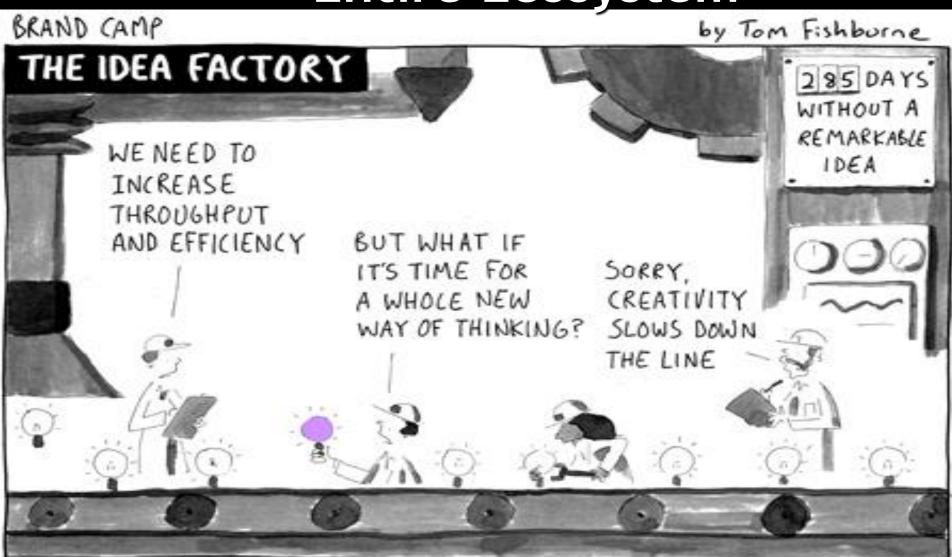
Tech Solutions Not Russia Limited

 More Exploration in Hostile Environments—Extreme Cold, Deep & Far Off-Shore



 New Tech for Export, a Small But Substantial Success for Russia in the Global Community

Deal Flow Funds Impact the Entire Ecosystem

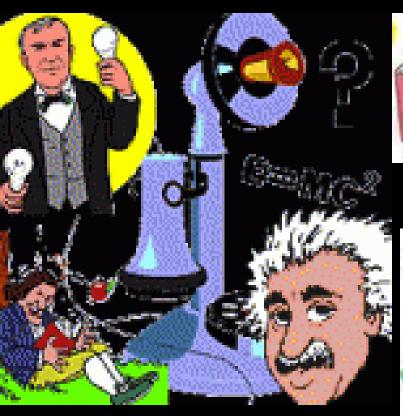


TOM FISHBURNE COM

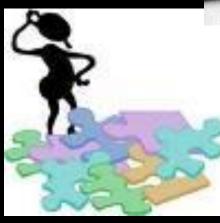
@ 2009

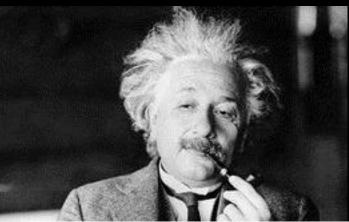
INSPECT BY SETH LODING AND TRIBES

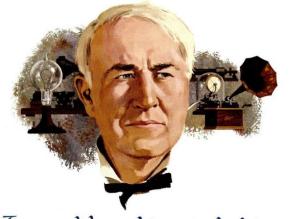
Connect Scientific Talent & Entrepreneurs







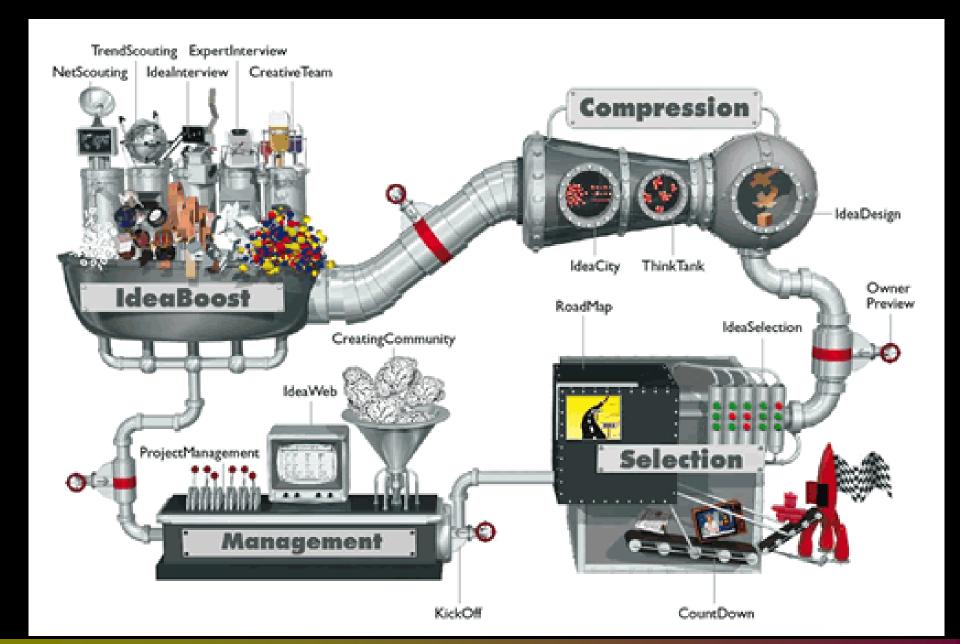




I never did anything worth doing by accident

Thos a Edison

To Generate & Refine More Ideas



BULGARIA GEORGIA Istanbul ARMENIA Bursa . Ankara Erzurum . TURKEY Bodrum Adana Antalya . IRAO SYRIA CYRPUS @World Guides Russia ARCTIC OCEAN

Linked to National Priorities Requiring Solutions



Other Ecosystem Issues: How Create?

- Culture of Licensing
- Culture of Commercialization
 - Globalize Talent

What Gaps Exist in Your Country?

Research funding

Public innovation funds

Angel investors

VC investors

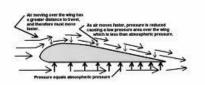
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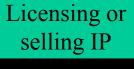


















Solution #2: For Investors

Venture initiatives (e.g., deal flow funds) 'shaped' to risk behavior of local investors

mentor to build an early stage tech portfolio

Solution #1: For Entrepreneurs

'Shape' business models (e.g., clonentrepreneurship) to risk behavior of local investors

mentor entrepreneurs to 'sell risk—then opportunity' Solution #3: For Development
Finance Institutions & the Gov't
Grant schemes which make technology
more commercial, e.g., model to
\$85MM Tech Commercialization
Project in Kazakhstan

"Initiatives to Finance a VC,"
Ecosystem in Your Country"



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