The Fifth International Forum From Science to Business Info partner

St. Petersburg Russia May 12, 2011



Rich Bendis **President and CEO Innovation America** Editor, innovationDAILY



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Rich Bendis BIO

- **♦Founder & CEO Innovation America**
- **♦ Editor and Publisher innovation DAILY**
- **♦ Venture Capitalist & Angel Investor**
- **♦ Founder & President of Innovation Philadelphia**
- ♦ Founder & President of Kansas Technology Enterprise Corp
- **♦Int'l Speaker & Consultant to over 20 countries & 25 states**
- **♦**Board member TechnoPolicy Network The Hauge
- ♦Vice Chairman & Founding Board Member NASVF
- **♦Founding Board Member of SSTI**
- **♦ Former member of the U.S. Innovation Partnership Advisory Board**
- ♦U.S. member National Academy of Sciences (Best Practices committee on Regional Innovation)
- **♦ Board Member of University City Science Center Philadelphia**
- **♦ Former Senior Fellow at ASME**
- ♦ Chairman & CEO of Continental Healthcare Systems (NASDAQ IPO)
- ♦Former Executive with Quaker Oaks, Texas Instruments, Polaroid & Marion Laboratories











Why Is Innovation Essential?

"INNOVATION DISTINGUISHES BETWEEN A LEADER AND A FOLLOWER."

-STEVE JOBS













The Global Innovation Imperative

- •Innovation is Key to Growing and Maintaining a Country's **Competitive** Position in the Global Economy and to address Global Challenges
- •Collaboration among Small and Large Businesses, Universities, and Research Institutes is Essential for Innovation & Commercialization
- •New Institutions and New Incentives, are increasingly important to support collaboration and foster innovation
- Competitive advantages are increasingly tied to human capital and innovation
- •Economic growth is closely related to education/ workforce, energy, climate change, environmental, natural resource, geopolitical issues & entrepreneurship













How Leading Nations Responding to the Innovation Imperative?

They are providing four things:

- High-level Focus
- Sustained Support for R&D:
 Leveraging Public and Private Funds
- Support for Innovative SMEs
- New Innovation Partnerships to bring new products and services to market

Note: Many countries and regions are investing very substantial resources to create, attract and retain industries in leading sectors













The New Locational Competition

Definition: The competition for economic activity

Intense and growing competition among nations and regions for well paid jobs and improving living standards......













What is a National Innovation Strategy?

- "Those elements of science, technology, and economic policy that explicitly aim at promoting the development, spread, and efficient use of new products, processes, and services."
- A well-conceived, strategic approach to drive innovation that proactively anticipates and articulates the interactions among policies across:
 - Science and technology
 - R&D
 - Commercialization strategies
 - Education & skills
 - Immigration
 - Statistics/measurement

- Tax
- Trade
- Intellectual property
- Competition/Regulatory
- Public procurement
- Public sector innovation



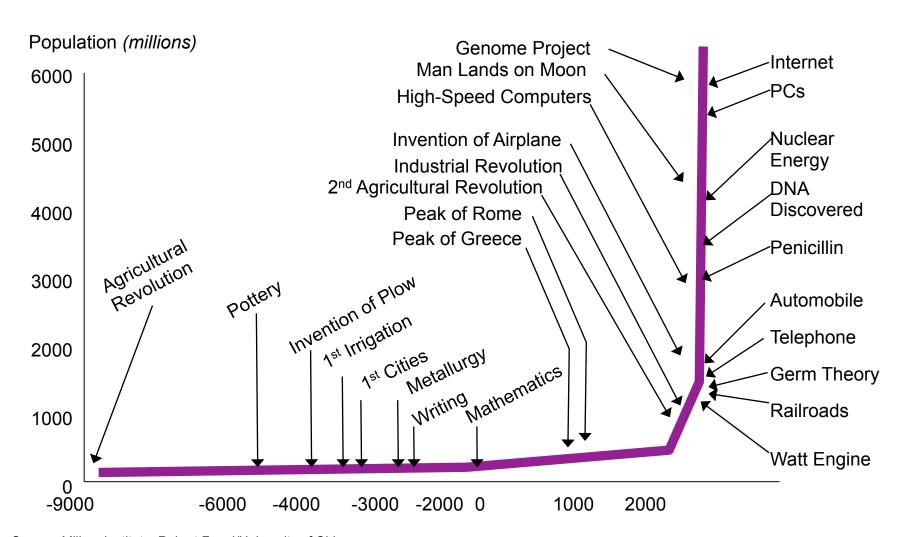








Growth of World Population and the History of Technology



Source: Milken Institute, Robert Fogel/University of Chicago











A Growing Population

World population will grow from 6,892,669,975 to 9,149,984,000 2010 32.4% Increase 2050









Selected Nations with National Strategies

- China
- Denmark
- Finland
- Germany
- India
- Ireland
- Japan
- Korea
- Netherlands

- Norway
- Portugal
- South Africa
- Sweden
- Taiwan
- Thailand
- UnitedKingdom
- Uruguay
- United States











China

- \$124B stimulus 2010/2011; will spend \$170B in 2017 (from \$26B 10 years earlier)
- Approximately 400M people lifted out of poverty (active, capital rich, growing middle class)
- Energy demands up 4x in next 10 years
- Rampant capitalism Public equity markets "hot"
- 3 biggest IPOs (in history) in China/Brazil

Think about this:

One 1M person city created every two weeks











India

- Per capita income : US \$950 (38,084Rs)
- Purchasing Power Parity \$3400.
- GDP: \$1,367 B growing at 8-10%/ annum (currently 8.77%)
- Foreign currency reserves increasing: \$279B
- Median age group: 24 years vibrant workforce
- 293M people will move out of poverty, 583M enter middle class,
 23M Indians to become world's most affluent within 15 years
- Combined net worth of the 100 wealthiest people climbed to an all-time high of \$300B in 2010

Think about this

 Poised to become 5th largest consumer economy (\$1.5T) by 2025











Brazil

- Economy growing at an annualized rate of 5%
- Sao Paulo will be the fifth-wealthiest city by 2025
- Self-sufficient in oil, large new offshore discoveries in 2007 likely to make it a big oil exporter by the end of next decade
- Ranked 10th in the world with a GDP of US\$1.5 trillion in 2009

Think about this

 ...After US, China, India, Japan, the 5th largest population with 191 million











Russia

- Population set to decline from 143M (2010) to 111M (2050)
- 2010 value of the biopharmaceutical market estimated to be approximately US \$17.2B compared with US \$10.4B in 2006
- Ranked 12 out of 25 in terms of active clinical trials with 1,084 sites with an average relative annual growth rate of 33%
- Launched a national 10-year plan to promote biotechnology including development of special economic zones for innovative biotechnology and several bioparks
- Nanotechnology the engine of innovation and growth of technology building an industry by 2015 with a €30B initiative









Innovation Economy: Definitions & Terminology

- Knowledge is the confident understanding of a subject, potentially with the ability to use it for a specific purpose
- Knowledge economy is based on creating, evaluating, and trading knowledge
- INNOVATION is the creation and transformation of knowledge into new products, processes, and services that meet market need.....and interactions, entertainment forms, and ways of communicating and collaborating







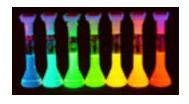






Implementing a New Innovation Paradigm

- Deviate from traditional perspectives
- Encourage public investment and risk taking
- Develop trust through collaboration
- Ensuring responsiveness to partners' missions
- Build consensus of all constituents through education, participation, and positive outcomes
- Move from TBED to IBED
- Innovation-Based Economic Development







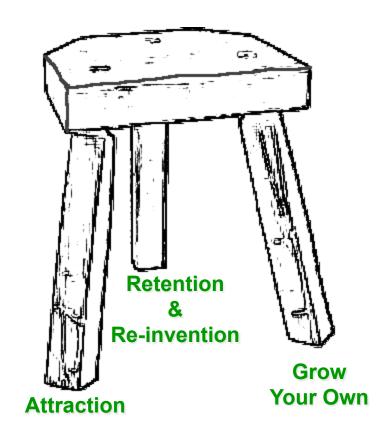






Economic Development

- Economic Development is a threelegged stool:
 - Attraction
 - Retention & Re-Invention
 - Grow Your Own
- IBED requires patience and persistence, continuity and consistency.
- Working with early-stage companies takes time.
- A balanced portfolio economic development strategy is best!













Traditional & Innovation-Based Development

Competitive **Basis**

Traditional

Natural resources Highways / Rail **Proximity** Costs



Specialized talent Networks, information University research / professors Market understanding Global Reach



Key values / offerings

Business parks **Incentives**

Lead Organization

Chambers / **EDCs**





Access to research Workforce competencies Lifestyle



Economic developers Innovation Intermediaries













US Trends In TBED

- Cycles of emphasis over the years on different elements; elements continuing on the rise
 - Increasing expectation for community of university research
 - Growth of venture development organizations, private accelerators, and start-up weekends
 - Capital
- Reorganization of economic development efforts
 - Public-private partnerships
 - State TBED orgs merged into state economic development departments
 - Regional emphasis













US Challenges

- A changing economy with a different recovery pattern
- Shortage of skilled workers once recovery in full swing
- Different expectations for higher education
- 28 new governors
- Fiscal pressures
- Federal approaches changing slowly















Lessons Learned

- Committed high-level leadership is required that understands:
 - Economic impact further down the road than other approaches
 - Research does not always succeed
 - Significant cultural differences between actors



- Action should be based on:
 - Understanding of needs, capabilities, and gaps
 - Filling gaps to encourage change in private sector behavior











Innovation Ecosystem

INPUT

Knowledge Creation

Basic & Translational Research Proof of Concept

"INTERACTION FIELDS"

Education/ Human Resources

Human Networks

Networks of Funds

Regional Clusters

University-Industry Collaborations

IP Strategies

OUTPUT

Jobs

Proof of

Relevance

Wealth Creation

Commercialization

New Products & Services

New Markets

Companies

The concept of the **Innovation Ecosystem** stresses that the flow of technology and information among people, enterprises and institutions is key to a vibrant innovation process.





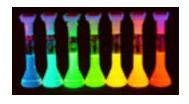






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Triple Helix of Innovation

INSEPARABLE MISSIONS

EDUCATION

Research
Public Service
Lifelong Learning

INDUSTRY

Product Process Profit

GOVERNMENT

Economic Benefit Return on Investment Sustainable Development





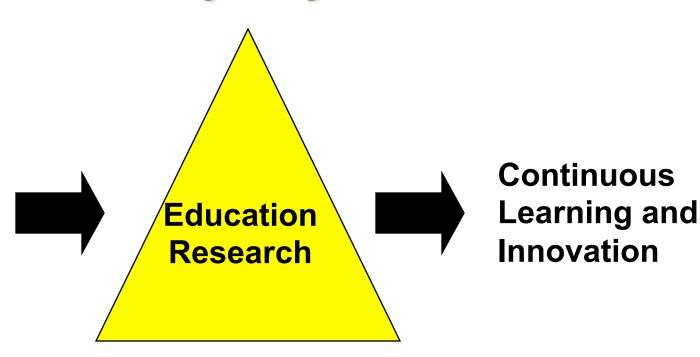






The Role of Education

Knowledge Integration



Knowledge Creation

Knowledge Transfer



Resource

Investment









The Role of Industry: Wealth Creation

Capitalism is a Process of Creative Transformation

"The interaction of technological innovation with the competitive marketplace is the fundamental driving force in capitalist industrial progress."



Joseph A. Schumpeter, 1942











Government's Role in Innovation

- Long term vision and planning
- Identify gaps and trends in science, technology, innovation and SME development
- Be a catalyst through long-term strategic investments and partnering
- Develop a balanced and flexible research and development investment portfolio
- Encourage private sector innovation
- Establish performance-based research and development
- Accelerate the commercial exploitation of creativity and knowledge, through innovation and research, to create wealth, grow the economy, build successful businesses and improve quality of life





















Federal Programs to Increase Innovation Capital

R&D Tax Credit Reauthorization (Pending)

- •US ranks 24th out of 38 countries.
- •Provides **\$9B** in tax relief to companies and individual **\$10B** of **R&D** can be supported by a permanent research tax credit.

National Angel Capital Tax Credit:

- •20+ states have tax credits for early stage investment ranging from 10-50%.
- •Senator Mark Pryor (D Arkansas) has proposed legislation talking about an across the board **25% credit**.
- •Advantages to having credits includes Increases the state's risk capital market & stimulates investment in new companies & creates new jobs from startups.

Patent Reform Proposal:

•Proposed versions of the Patent Reform would switched U.S. patent priority from the existing "first-to-invent" system to a "first-to-file" system.

SBIR/STTR Reauthorization:

- •Increase from 2.5% to 5% the amount that each federal agency with an extramural research and development budget
- •Increase in Phase I and Phase II awards









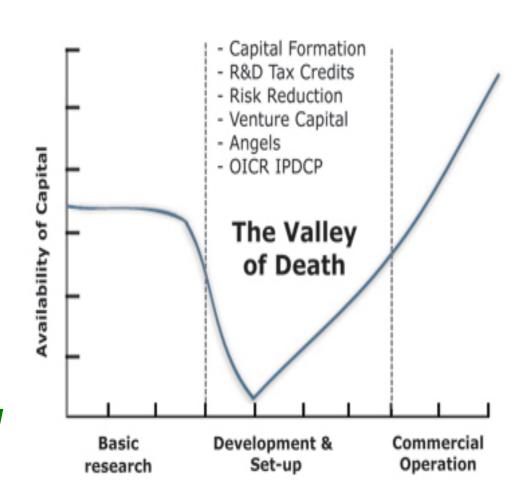


The Challenge

A Key Challenge is Converting U.S. Research Investments into Jobs and Growth

How to bring innovative firms across the Valley of Death?

Two Paths Forward: Both are Proven and Successful













The U.S. SBIR & TIP Program





























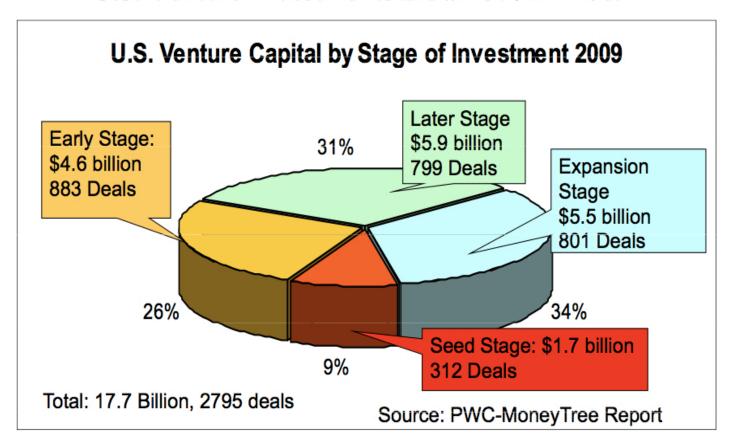




Venture Funding

Venture Funds are Only One Path

U.S. Venture Investments Down 37% in 2009













The Small Business Innovation Research (SBIR) Program

- The SBIR Program converts Knowledge into Products to meet Government and Societal Needs
- SBIR is a highly-competitive, gated innovation system, providing merit-based awards to small companies to— Provide Proof of Principle

Develop Prototypes

- Successful Companies Attract Private Capital and/or win Public Contracts
- Largest U.S. Innovation Partnership
 Program: \$2.5 billion per year















SBIR - Small Business Innovation Research

SBIR

- •U.S. Federal Agencies with R&D Budgets in excess of \$100 Million
- •2.5% Set Aside of Extramural Research

Budget = \$2 Billion

•\$14 Billion Awarded via 50,000 awards since Inception

STTR

- Largest 5 agencies participate
- •.3% set aside
- Currently = \$100 million





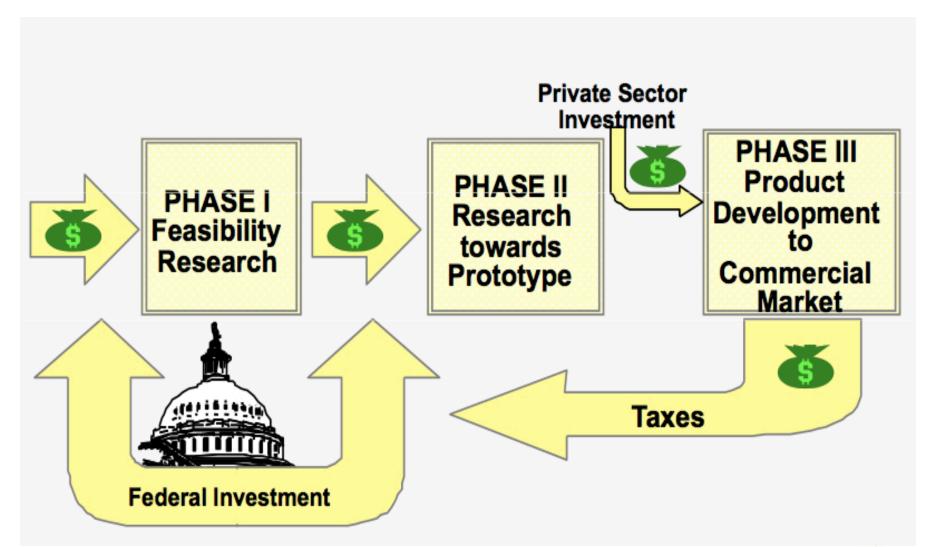








The SBIR Program









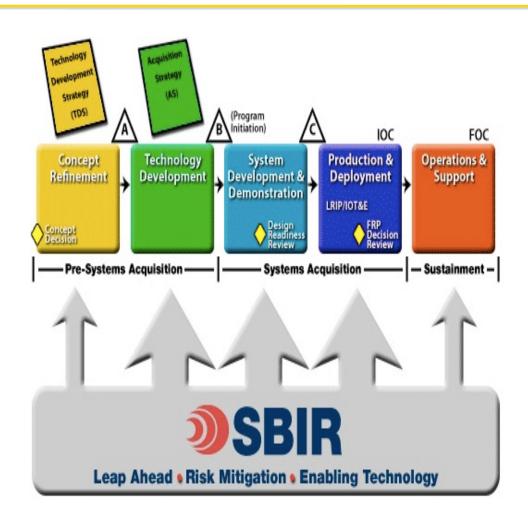




SBIR vs. VC Early Stage Investments 2010

SBIR/STTR = \$2.5B

VC = \$1.7B













Advantages of SBIR

- 1. Significant amount of funds reserved for small, innovative firms
- 2. Public venture funds without dilution features
- Small Business Innovation Research
 Small Business Technology TRansfer

- 3. Funds high risk projects
- 4. No Payback
- 5. No personal guarantees
- 6. Firm retains IP no dilution
- 7. Provides valuable credibility
- Offers a simplified route to obtaining federal R&D funds











SBIR – The Mechanics of the Program

Phase I

- Evaluate viability and feasibility of an idea
- •Up to \$150K for 6 month period (STTR 12 months)
- •Win Rates: approx. 1-8 (varies widely)

Phase II

- Expand results and Further pursue development
- •Up to \$1.000,000 for up to 24 months
- •Win Rates: approx. 1-3 (varies widely)

Phase III Commercialization

- •Most important requirement in getting to this point is having successfully won a Phase I and Phase II award.
 - Selling Product Development under a Phase II
 - Non-Government Funding to Develop Technology or Product
 - Non-SBIR Funding from Government to Develop Technology or Product













SBIR – Qualifications & Eligibility

- 1. Organized for-profit U.S. business
- 2. At least 51% U.S. owned and independently operated
- Business is located in U.S.
- 4. Principal investigator primary employment is with small business during the project (either business or university in STTR) 500 or fewer employees













SBIR 2.0

Simplification and Streamlining

- •Fast track applications 60days from proposal to award
- Contracting standardizing contracts
- "One-Stop-Shop" combine all agencies information in 1 web portal
- •Evaluating opportunities to clarify and simplify data rights for the Federal Government and entrepreneurs.













European Pre-Commercial Procurement

Pre-commercial procurement:

DRIVING INNOVATION TO ENSURE HIGH QUALITY PUBLIC SERVICES IN EUROPE

- The scope is R&D services only
- The application of risk-benefit sharing
- ·A competitive procurement designed to exclude State aid











Innovation Partnership - Pennsylvania



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IPart Programs

About IPart

What is the Innovation Partnership?

The Innovation Partnership is a consortium of economic development and business assistance organizations located throughout the Commonwealth of Pennsylvania. Our goal is to help early-stage technology companies in Pennsylvania secure federal funding opportunities. Find Help Now!



Proposal Writing Assistance

IPart assists technology-driven companies in Pennsylvania to prepare high-quality SBIR/STTR grant proposals for submission to federal.



Travel & Training Assistance

Candidates are eligible for reimbursement of one-half of the cost of travel and training expenses directly related to their SBIR/STTR.



Federal Funding Resources & Links

Your essential starting point to locate solicitations and federal funding opportunities that may be a perfect match for your company.

Our Partners:

Use the arrows to view more partners. Click each logo for additional info.

























BA Gov Small Business Investment Companies (SBICs)

SBIC MISSION - is to improve and stimulate the national economy and small businesses by:

- Stimulating/supplementing the flow of private equity capital and long term loan funds for the
 - Sound financing---Growth---Expansion---Modernization of small business operations while insuring the maximum participation of private financing sources.

EARLY-STAGE INNOVATION FUND (2012) – Funds made available to SBICs targeting early-stage firms in the "Valley of Death," the segment of the venture capital market in which companies are often seeking their first dollar of institutional capital.

- •Over the past 4 years, only **6% of venture capital** has gone to finance companies early-stage with
- 70% of the capital deployed in 3 states: California, New York and Massachusetts.











Technology Innovation Program

The Technology Innovation Program (TIP)

•TIP accelerates innovation through high-risk, high-reward research in areas of "critical national need"



- Aim is to speed the development of high-risk, transformative research
- Targeted to address key societal challenges
- •TIP provides funding to universities, small and medium-sized businesses, and consortia for research on promising technologies
- Awards are Merit Based
- •Funding provided through cost-shared research grants, cooperative agreements, or contracts













Federal Program Opportunities

16 Green Proof of Concept Center

- \$12 Million
- Proof of Concept Center
- Proof of Commercial Relevance Center

Jobs & Innovation Accelerator Challenge

• \$33 million Cluster Program

USDA ARS Programs

- Partnership program with the commercialization of Agtech companies
- Opportunities for joint research programs (CRADAs)
- Joint research increases the likelihood of success
- These agreements can help strengthen state and national economic development and help U.S. businesses compete globally in the marketplace.
- E-RIC



















Regional Innovation Clusters (RICs)

RICs are a geographically-bounded, active network of similar, synergistic or complementary organizations which leverage their region's unique competitive strengths to create jobs and broader prosperity.















Regional Innovation Clusters

Five Key Components to Consider When Defining Unique Regional Assets

What you make, including your existing & prospective industry clusters

What you do: your workforce skills & human capital base

ECONOMIC BASE ENTRE-PRENEURSHIP

TALENT

INNOVATION & IDEAS

Location, Infrastructure, Amenities, Factor Costs, Natural Resources

Your capacity to create companies wholly new or from existing firms

Your capacity to innovate and generate new ideas

The basic conditions defining the economic milieu of the region











Why Do RICs Matter?

- They create a transition path from unemployment or underemployment to high-skill jobs.
- On average, jobs within clusters pay higher wages.
- Regional industries based on inherent place-based advantages are less susceptible to off-shoring.
- Create many new job opportunities for American workers.
- They connect disenfranchised communities to new career and educational opportunities.
- They stabilize communities by re-purposing idle manufacturing assets, engaging underutilized human capital, and contributing to improvements in the quality of life.











Federal Role In RIC Development

The Federal Government's role is to help self organizing, bottom-up RIC participants become all they can be.

- Identify existing <u>NOT</u> creating new RICs
- Convener of relevant stakeholders
- Creator of overarching framework to support national networks of clusters
- Disseminator of information
- Provider of targeted capital investments











Best Practices in RIC Management

- Regionally-Led from existing networks & assets bottom-up approach
- Involve partnerships between private and public at all levels (i.e. local, regional, state, and Federal)
- Unique strengths of region are built upon rather than trying to copy other regions (i.e. everyone can't support a biotech cluster)
- Different strategies are developed for different clusters
- Well-funded initially and self-sustaining over the long-term
- Linked with relevant external efforts, including regional economic development partnerships and cluster initiatives in other locations



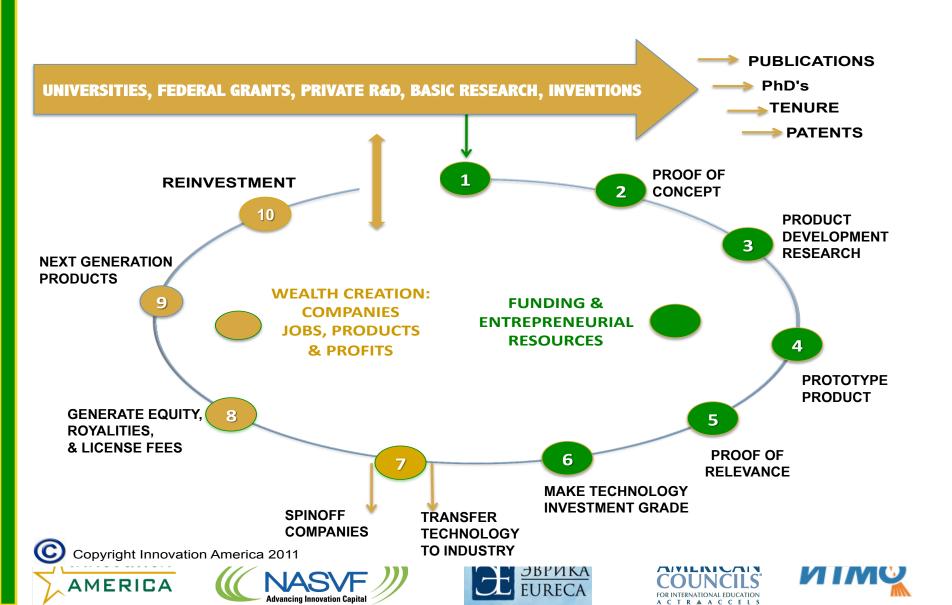








Innovation America Commercialization Model



Innovation Paradigm Shift

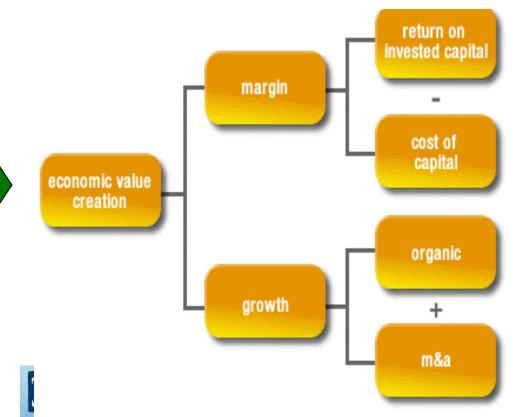
PROOF OF CONCEPT (Technological Feasibility)

"It Works!"

PROOF OF RELEVANCE
(Market Pull)

"It Works To Solve A Problem"



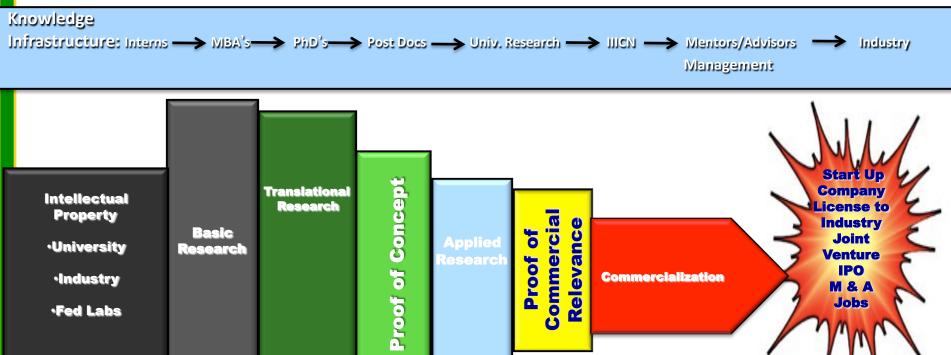








Iowa Integrated Innovation Commercialization Network TM



State & University

Funding: POCC -> Demonstration Fund -> POCR -> State Funds -> Iowa Seed Fund

Federal & Public

Funding: SBIR/SSTR Phase I&II -> TIP -> SBIR 2B -> 16 Green -> E-RIC -> Other Public Funds

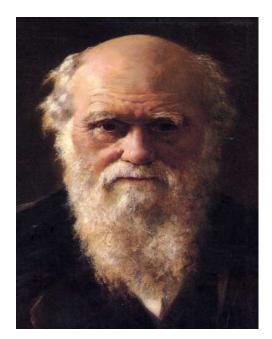
Private Funding: Foundation → Angel → Seed → Venture Capital → Mezzanine → Debt → Bank

Darwin on Collaboration

" It is the long history of humankind (and animal kind, too) those who learned to collaborate and improvise most effectively have prevailed."

-Charles Darwin

















What is a Innovation Intermediary?

An Organization at the Center of the region's, state's or country's efforts to align local technologies, assets and resources to work together on advancing Innovation.













21st Century Innovation Intermediary

Connectivity of Key Human &

Institutional Players
Cluster Management

Leverage &
Alignment of
Funding &
Resources



Research & Marketing of the Strengths of the Innovation Economy

Programs

Commercialization
Direct Investment
Angel Capital
SBIR Programs
Technology Mining / Intellectual
Property Programs











Innovation Intermediary Commercialization Structure

Investigation	Technical	Market	Business
Proof of Concept	Technology Concept	Market Needs	Venture Assessment

Assessment

Market Study

Strategic Marketing

Market Validation

Sales and Distribution

Market Diversification

Economic Feasibility

Strategic Business

Business Start-Up

Business Growth

Business Maturity

Plan

Analysis

Technology Feasibility

Engineering Prototype

Pre-Production

Prototype

Production

Production Support

Development Phase

Commercial Phase

Full Scale Production

Feasibility

Planning

Introduction

Maturity

Intermediary Best Practices

- Longevity
- Bipartisan Support & Champions
- Independent Organizations
- Continuous Reinvention
- PRIVATE SECTOR LEADERSHIP
- Understand Return On Investment
- Sustainability In Funding
- Accountable
- Innovative
- Effective Leadership













U.S. State Innovation Programs



































SCIENCE & TECHNOLOGY

AUTHORI



Successful Funding Models











A U.S. DOE Energy Innovation HUB



\$581M 15 year Wage-tax TIF

\$160M VC Premium insurance Tax Incentives

\$60 Million
Angel Tax Credits

\$129M E-RIC Grant











Utah Science Technology and Research Initiative (USTAR)

- •Established to generate more technology-based start-up firms, higher paying jobs, and additional business activity leading to a state-wide expansion of the Utah's tax base.
- •USTAR is comprised of three program areas:
 - •Research Teams, Research Building Projects, and regional Technology Outreach
- USTAR
 Turning innovation into industry.
- •Research Teams: World-class research teams have been recruited to Utah and developed internally within six strategic innovation focus areas:
 - Energy
 - Biomedical Technology
 - Brain Medicine
 - Nanotechnology
 - Imaging Technology
 - Digital Media











Innovation 2 Enterprise - Oklahoma

- Private not-for-profit focused on wealth creation by growing OK technology-based entrepreneurial economy
- •Works directly with universities, entrepreneurs, researchers and companies to help commercialize technologies, launch and grow new businesses and access capital
- Funding
 - Proof of Concept Fund
 - Seed Capital Fund
 - Angel Network
- Entrepreneurial Development















Kansas Bioscience Authority – Economic Impact

Through June 2010, KBA investments have helped generate:

- 1,195 new jobs
- \$212.6 million in capital expenditures
- \$86.6 million in new research funding
- \$48.3 million in equity investments
- Including estimated wages of jobs, that represents a \$9.41 return to the state's economy for each \$1 invested by the KBA













Regional IBED Intermediaries





































Northeast Ohio IBED Intermediaries



NorTech, (the Northeast Ohio Technology Coalition) is a nonprofit Technology-Based Economic Development (TBED) organization that champions growth in Northeast Ohio's 21 county region. Foundation funded.



JumpStart is creating economic transformation in Northeast Ohio by providing resources to entrepreneurs to grow their high potential, early stage companies.



BioEnterprise is a business formation, recruitment, and acceleration initiative designed to grow health care companies and commercialize bioscience technologies



Team NEO advances Northeast Ohio's economy by attracting businesses worldwide to the 16-county Cleveland Plus region.



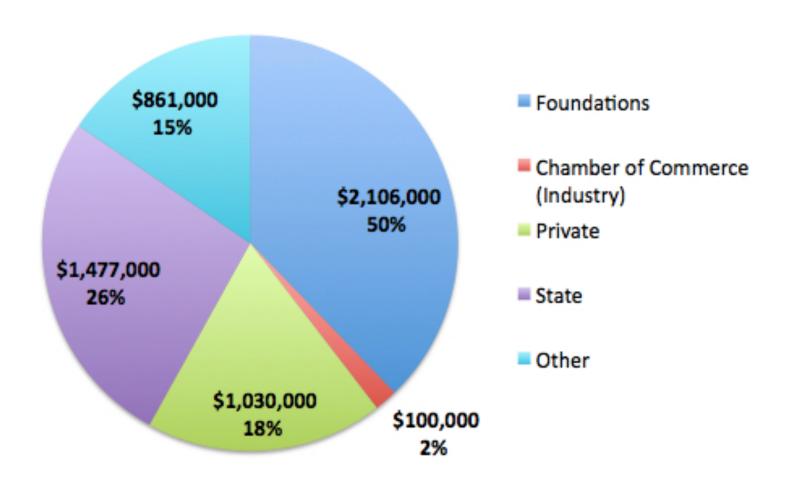








BioEnterprise of Ohio 2011 Projected Sources of Funding Projected Funding





















Business Growth

Talent Development











Racial and Economic Inclusion

Government Collaboration and Efficiency Efficient GovNow









The New Economy Initiative for Southeast Michigan (NEI)

Founded:2008

Organizational Mission: Unique philanthropic initiative aimed at helping to restore southeast Michigan to a position of leadership in the new global economy.

Original Funding: \$100M – 8 year initiative - 10 national and local foundations

Goal: Accelerate the transition of metro Detroit to an innovation-based economy. Entrepreneurial Eco-System

- Capitalizing on Existing Assets and Resources
- •Build and employ a more skilled and educated workforce
- •Urban Entrepreneurial Partnership provides assistance to 150 minority automotive suppliers to diversify their customer bases to aerospace, alternative energy, medical devices, military and homeland security.













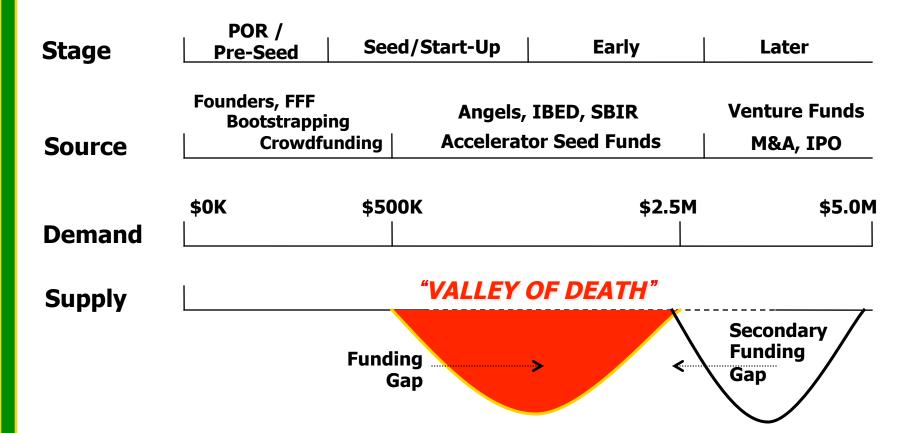






Innovation Capital Valley of Death

"VALLEY OF DEATH"













Funding & Resources for Innovation Capital

Seed













IBED

















Federal







SBIC Program







Angel























Entrepreneur













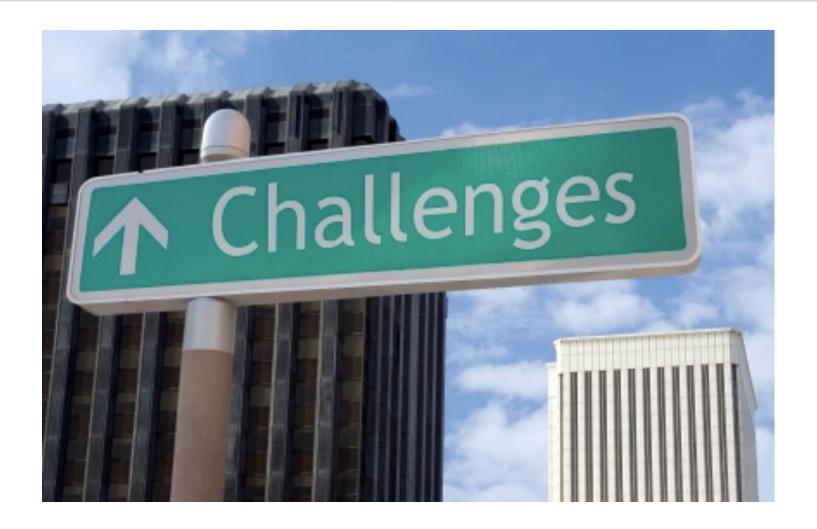






















International Commercialization Alliance



FORMATION OF THE INTERNATIONAL COMMERCIALIZATION ALLIANCE

Goals:

- •Promote international networking and partnerships with a potential outcome of creating new multilateral or bilateral partnerships
- •Share exemplary practices in the commercialization of outcomes from research in each of our regions
- •Provide feedback to support these assessments and the metrics
- •Host annual conference to present and discuss the successful practices, emerging models & determine relevance universally
- •Share outcomes of commercialization in our regions and the impact of publicly funded research on our customers and stakeholders.











Global Innovation Intermediaries



/www.nrc-cnrc.gc.ca/index.html



www.americancouncils.org/



www.europa.eu/index_en.htm



www.startupamericapartnership .org/



www.americancouncils.org/



www.innovationamerica.us



http://www.fumec.org.mx/v5/



http://en.ifmo.ru/











European Innovation Intermediaries



Associação Empresarial para a Inovação

http://www.cotec.pt



http://www.tekes.fi



http://techsoutheast.ca/index.php



http://www.innovasjonnorge.no



http://www.vinnova.se



http://www.senternovem.nl











What Is A Road Map.....Why Is It Needed?

- •A roadmap answers the question "Where do we want to be and how to we get there?"
- •A cluster roadmap *provides strategies and action* plans to best *achieve a vision of the future shared by a critical mass* of industry-related organizations.
- •The strategies and action plans are developed according to the unique strengths of the cluster and region as compared to a global market opportunity.

Cluster Roadmap Development













Innovation America: Innovation Road Map Process

- 1. Literature Review of Comparables
- 2. Key Stakeholder Interviews/Recommendations
- 3. Asset Mapping/Cluster Analysis
- 4. GIS Innovation Mapping
- 5. Innovation Benchmarking/Index (Peer 2 Peer)
- 6. Innovation and Entrepreneurship Resource Identification (Entrepreneur Resource Guide and Database)
- 7. Innovation Economic Development Organizational Analysis and Matrix
- 8. Innovation & Commercialization Gap Analysis (programs & services)
- 9. Innovation Ecosystem Public Policy Recommendations
- 10. Develop Strategic Plan
- 11. Organizational Leadership and Staffing
- 12. Operations/Implementation Plan and Program Portfolio
- 13. Branding/Marketing Strategy and Market Research
- 14. Economic Impact Analysis
- 15. Celebrațe Success













Innovation America Road Map Process

Задача	Результат	
Исследования инноваций		
1. Обзор сравнений	Отчет и анализ сравниваемых субъектов, институтов или географических регионов	
2. Ключевые интервью заинтересованных сторон и представления	Отчеты интервью и рекомендации	
3. Картография активов/Анализ кластера	Карта активов-база данных всех инноваций и того что с ними связано. Отчет по целевым инновационным секторам и рекомендации	
4. Инновационные этапы	Отчет по показателям инноваций, сравнивающий экономические объекты, или отчет, в котором определенные экономические объекты сравниваются с другими подходящими индикаторами инноваций	











Innovation America Road Map Process

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Инновационные ресурсы		
5. Системы географической информации,	Процесс развития и осуществления программы	
картография инноваций	Географических информационных систем и системы	
	Картографии инноваций	
6. Инновации, коммерциализация,	Публикация и печать путеводителя	
финансирование и идентификация	по ведущим инновациям, коммерциализации,	
предпринимательских ресурсов	финансированию и идентификации предпринимательских	
	ресурсов, совместно с развитием он-лайн базы данных	
	инновационных ресурсов	
Программы и анализ политики развития экономики, основанной на инновациях		
7 Организационный анализ	Отчет, сравнивающий все организационные структуры	
инновационного экономического развития и	экономического развития, финансирования и программы	
матрица		
8. Сар анализ инновационной экосистемы	Основанный на вышеперечисленных заданиях, составляется	
(программы и сервисы)	отчет выявляющий программы инновационной экосистемы и	
	пробелы в сервисах	
9. Государственная политика	Разработка рекомендаций по проверенной или заново	
инновационных экосистем и рекомендации к	составленной инновационной политике, для того чтобы	
финансированию	заполнить пробелы и составить план необходимых действий	











Innovation America Road Map Process

Стратегический план, структура организации и разработка стратегии		
10. Создать Стратегический план развития	Публикация стратегического плана с	
экономики, основанной на инновациях	рекомендованной организационной структурой, управлением, бюджетом и источниками финансирования, операционный план, включающий развитие инновационного взаимодействия/ частногосударственного партнерства	
11. Организационное лидерство и персонал	Разработать организационную структуру с рекомендациями по должностным обязанностям	
12. Операции/план разработки и портфолио	Разработать тактический операционный план для	
программы	реализации	
Маркетинг и метрика		
13. Брендинг, маркетинговая стратегия и исследования рынка	Разработать детализированный маркетинговый план\ план по брендингу и коммуникационной стратегии	
14. Анализ экономического вклада	Разработка методологии процесса и метрики для анализа экономического вклада. Отчетность	
15. Празднование успеха	Делитесь своим успехом	











Finland's National Innovation Strategy

Proposal for

Finland's National Innovation Strategy

Initial release – this document will be published in it's final form by the Ministry of Employment and the Economy once it has been passed by the Government













Finland's National Innovation Action Plan













Elements of an Innovation Road Map

- Develop an Innovation Road Map & implementation strategy
- Create an Early-stage innovative job Fund of Funds (FOF)
- Development a SBIR & STTR type program
- Develop a Technology Innovation Program (RTIP)
- Create a Federal Angel Capital Investment Tax incentive
- Create a R&D Tax Credit program
- Create the 1st electronic Innovation & Entrepreneurship Clearinghouse













Bill Gates - Microsoft

"Never before in history has innovation offered promise of so much to so many in so short a time."













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