8TH ANNUAL CONFERENCE OF THE TECHNOPOLICY NETWORK OPEN INNOVATION FOR REGIONAL DEVELOPMENT September 26 - 28 2011 - Tampere Finland

Regional Intermediary Structures for Investing in Open Innovation



Rich Bendis, President & CEO Innovation America Publisher, innovationDaily September 24, 2011 Tempere, Finland





Rich Bendis BIO

- **Founder & CEO Innovation America**
- Editor and Publisher innovationDAILY
- Active Venture Capitalist & Angel Investor
- Founder & President of Innovation Philadelphia



- Founder & President of Kansas Technology Enterprise Corp
- \diamond Int'l Speaker & Consultant to over 20 countries & 25 states/regions
- $\diamond \textbf{Board}$ member TechnoPolicy Network, The Hauge
- $\diamond \textbf{Consultant}$ to the United Nations & NATO on IBED
- \diamond Founding Board Member of SSTI and NASVF
- $\diamond {\sf Former}$ member of the U.S. Innovation Partnership Advisory Board
- \diamond U.S. member National Academy of Sciences (SBIR Review Committee)
- Member Eisenhower Fellowship Selection Committee
- Over the second seco
- \diamond Chairman & CEO of Continental Healthcare Systems (NASDAQ IPO)
- Former Executive with Quaker Oaks, Texas Instruments, Polaroid & Marion Laboratories

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



OPEN INNOVATION MATTERS



How Leading Nations Respond to the Innovation Imperative?

- They are providing four things:
- •High-level Focus

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- •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



World Innovation Index

Country	2011	2010	2009
Sweden	2	2	3
Finland	5	5	8
US	7	11	1
Netherlands	9	8	10
Germany	12	16	2
Belgium	24	17	18
Spain	32	30	28
Portugal	33	34	40
Italy	35	38	31
South Africa	59	51	43
India	62	56	41

America 2011

Open Innovation Defined

"Open innovation is a paradigm that assumes that firms can and should use external ideas as well as internal ideas, and internal and external paths to market, as the firms look to advance their technology."

Henry Chesbrough

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The New Imperative for Creating and Profiting from Technology

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Nokia Open Innovation

Nokia Research Center



Open Innovation

Nokia Research Center is actively engaging in Open Innovation through selective and deep research collaborations with world-leading institutions. By sharing resources, leveraging ideas, and tapping each other's expertise we are able to create vibrant innovation ecosystems, multiply our efforts, enhance innovation speed and efficiency, and derive more value for our organizations and ultimately for our endcustomers.

The geographical and thematic extent of our Open Innovation network reflects our ambition to foster innovation, tackle key technical challenges and unlock global business opportunities in collaboration with the world's best experts. This page lists in alphabetical order the strategic academic partners with whom Nokia has signed formal framework research agreements.



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Trends & Predictions in Open Innovation

- Innovation involves more than just R&D (seriously!)
- •Not enough invented here so look outside
- Ideas are precious so manage them
- •Experiment with Collective Intelligence and crowdsourcing
- Innovate the Innovation Process (and do it properly for a change)
- Innovators learn to love measurement and ROI
- •The future is cheap ... and coming from the bottom of the Economic Pyramid
- •Don't be surprised that your CEO gets very interested in innovation
- Innovation with full-time staff & a full-time trained staff are best.

Source: Mark Turrell, CEO of Imaginatik

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Open Innovation Paradigm

Open Innovation is not about	but about		
open access to own technologies	strategic IPR management		
outsourced R&D	strategic R&D		
technology only	both technology and business model		
technical invention	commercial innovation		
appropriating value	win-win partnership		
new ventures	core product development process		
partnerships only	innovation ecosystem building		
cutting research costs	improving R&D Return on Investment		

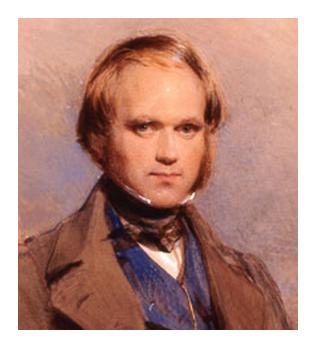
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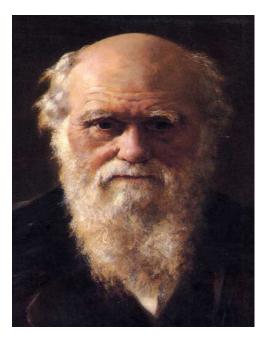
Change Is Inevitable

"It is not the strongest of species that survive, nor the most intelligent, but the ones most responsive to change."





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The Six Driving Forces of Change

- Commoditization
- •The Digital Revolution
- •Social Mediaization throughout society
- Global Open Innovation
- •The Turbulent World

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•Acceleration (or running faster to stay in the same place)





Why Is Innovation Essential?

"INNOVATION DISTINGUISHES BETWEEN A LEADER AND A FOLLOWER."

-STEVE JOBS







Defining Innovation

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 Tech-Based Economic Development (TBED) to.....

Innovation-Based Economic Development (IBED)



Innovation Paradigm Shift

PROOF OF COMMERCIAL RELEVANCE

(Market Pull) "I'll Buy It!"



CASH IS KING!

PROOF OF CONCEPT (Technological Feasibility) "It Works!"



The Historic

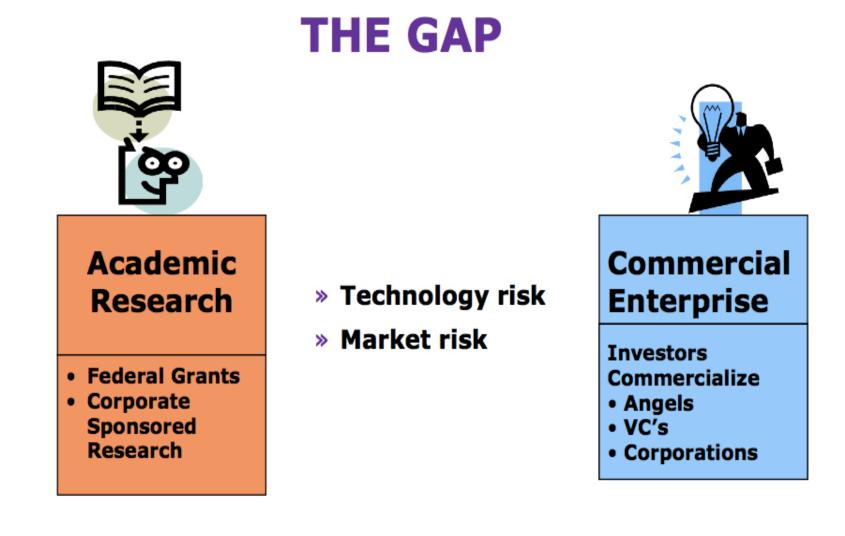


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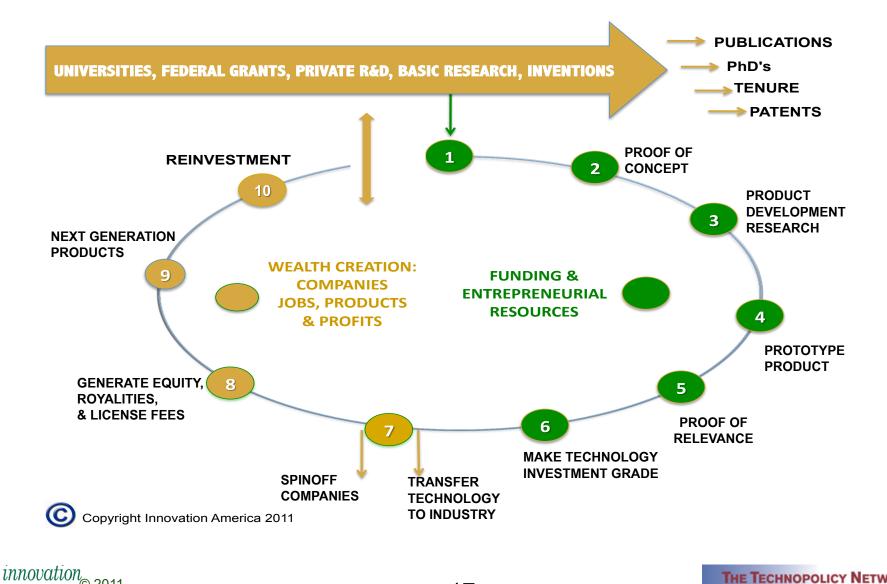
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University Commercialization Centers

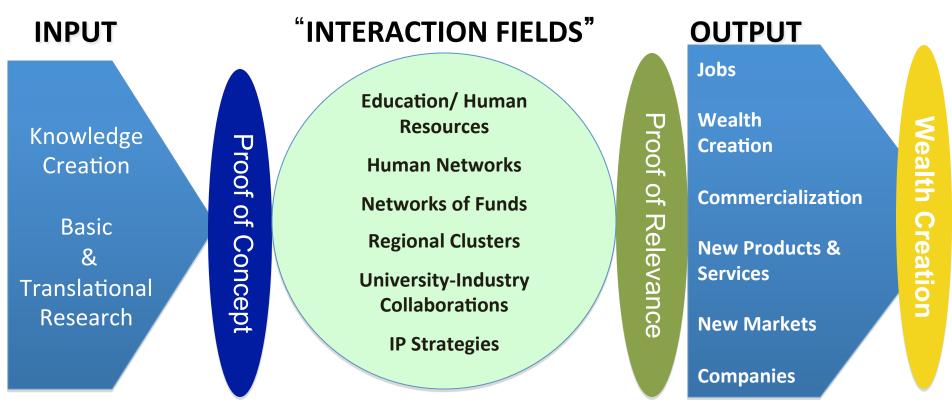


Innovation America Commercialization Model



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Innovation Ecosystem



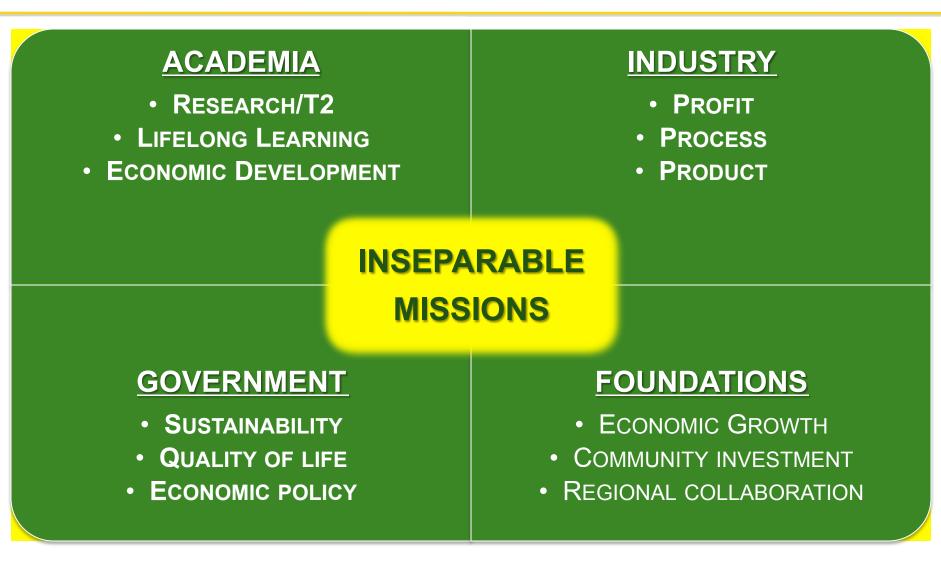
The concept of the **Innovation Ecosystem** stresses that the flow of technology and information among people, enterprises and institutions is key to a vibrant innovation process.

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Model Ecosystem



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

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- Establish performance-based research and development
- Accelerate the commercial exploitation of creativity and knowledge



THE TECHNOPOLICY NETWORK Global Community for Regional Innovation Policy

Government Innovation Programs











Global Community for Regional Innovation Policy

Pre-Commercial Procurement

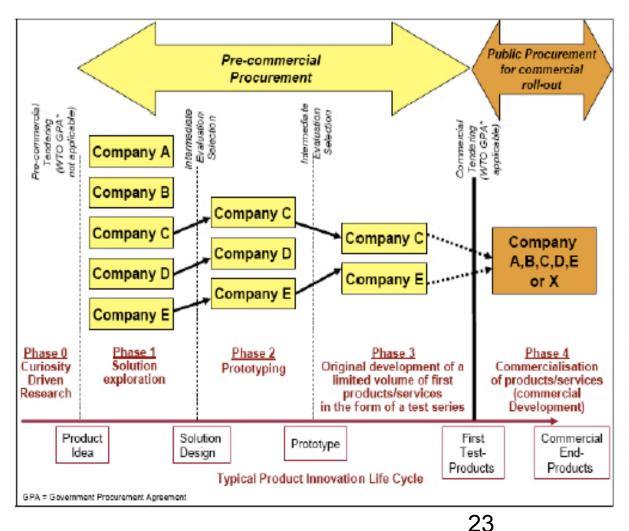


- The scope is R&D services only
- •The application of risk-benefit sharing
- •A competitive procurement designed to exclude State aid



2. SBIR and PCP





Some differences:

- SBIR P1 is feasibility study
- SBIR integrates P2 and P3 of PCP
- SBIR can lead to B2G and / or B2B, can PCP?

My conclusions:

- SBIR is more simple and more flexible, cheaper and gives results faster.
- PCP has advantages too, like less risk in complex public procurements!

Status Overview of implementation of PCP Across Europe

Exploring possibilities	Working on	Framework	Pilots _*
	framework	identified	started
Latvia Slovenia Greece Romania Malta Cyprus Germany Bulgaria Luxembou Slovakia France Portuga Czech Republic Estonia Switzerland	Sweder Spain Austria	Denmar	BE (Flanders) United Kingdom Netherlands

* Only one PCP approach has been notified to the Commission so far (UK Energy Technology Institute) and has been verified not to contain State aid. Other approaches referred to here (UK SBRI, NL SBIR, Belgium / Flanders pilot) have not been examined by the Commission from a State aid point of view.

Figure 1: Overview status of implementation of PCP across Europe



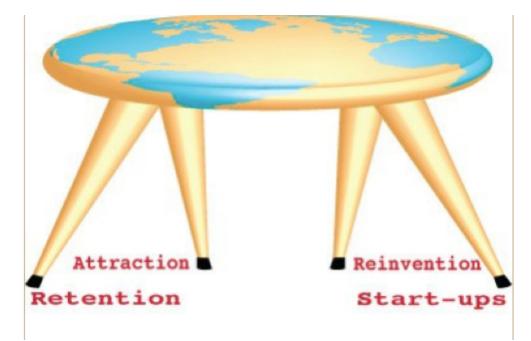
Economic Development

- Economic Development is like a
 - 4 legged stool:
 - Attraction
 - Retention
 - REINVENTION
 - Grow Your Own
- IBED requires patience and persistence, continuity and consistency
- Working with early-stage companies takes time

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 A balanced portfolio economic development strategy is best!



Convergence of Traditional Eco Devo & IBED

Traditional

Assets: PHYSICAL

Competitive Basis:

Natural resources Highways / Rail Proximity Costs

Key values/offerings:

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Business parks Incentives

Lead Organization: Ch

Chambers / EDCs

Innovation

KNOWLEDGE

- Specialized talent Networks, Clusters, University research, Commercialization, Market Positioning Globalization
- Access to research Workforce competencies Lifestyle



Economic developers

INNOVATION INTERMEDIARIES

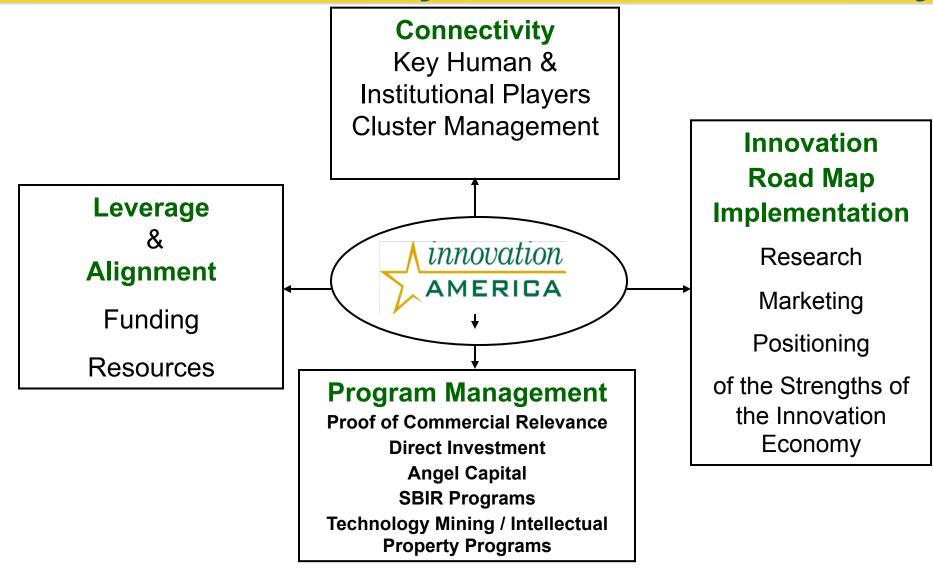
An Organization at the Center of the region's, state's or country's efforts to align local technologies, assets and resources to work together on advancing Innovation.







21st Century Innovation Intermediary



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Intermediary Best Practices

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

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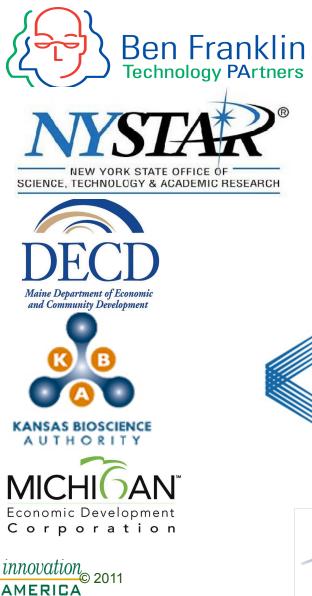
Effective Leadership



Innovation Intermediary Commercialization Services

Investigation	Technical	Market	Business			
Proof of Concept	Technology Concept Analysis	Market Needs Assessment	Venture Assessment			
Development Phase						
Feasibility	Technology Feasibility	Market Study	Economic Feasibility			
Planning	Engineering Prototype	Strategic Marketing	Strategic Business Plan			
Introduction	Pre-Production Prototype	Market Validation	Business Start-Up			
Commercial Phase – Proof of Commercial Relevance						
Full Scale Production	Production	Sales and Distribution	Business Growth			
Maturity	Production Support	Market Diversification	Business Maturity			
		30				

U.S. State Innovation Programs





Third Frontier





Technology-Development-Corporation Maryland...Technology Starts Here.



First State



GEORGIA Research Alliance





New Jersey Economic Development Authority







Regional IBED Intermediaries









DESHPANDE CENTER

FOR TECHNOLOGICAL INNOVATION

Cleveland Clinic 🔆 BioEnterprise

Innovations









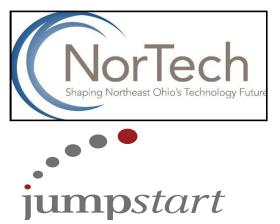






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Northeast Ohio IBED Intermediaries







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.

Cleveland Clinic Innovations advances commercial oriented innovation and transforms promising therapies, devices and diagnostics into products by creating spin-off companies, licensing to established companies and enabling equity partnerships.



The New Economy Initiative for Southeast Michigan

Founded:2008

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- **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.



European/Canadian Innovation Intermediaries





http://www.cotec.pt

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http://techsoutheast.ca/index.php



http://www.vinnova.se



NL Agency Ministry of Economic Affairs, Agriculture and Innovation

http://www.senternovem.nl

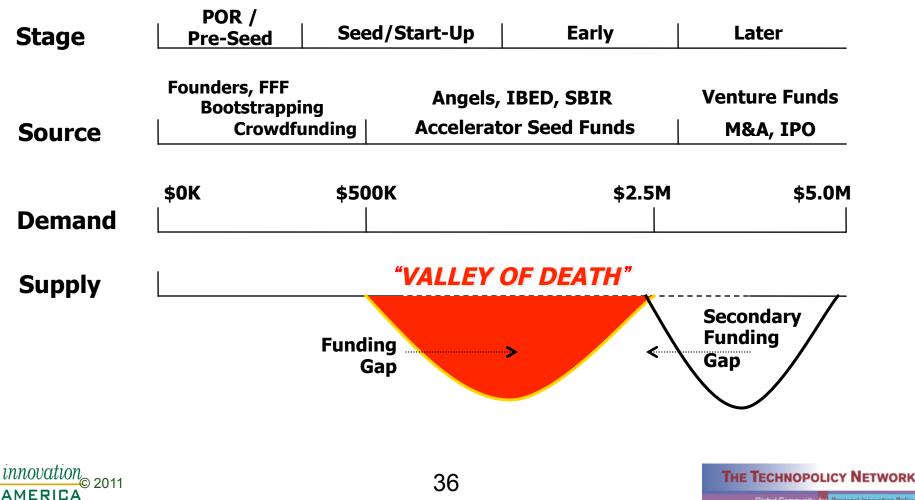


http://www.innovasjonnorge.no

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Innovation Capital Valley of Death

"VALLEY OF DEATH"



Global Community for Regional Innovation Policy

Jobs! Jobs! Jobs!

Does Seed Investing REALLY Create Jobs?





Global Community for Regional Innovation Policy

Public Investment In Job Creation

Category	CDVCA*	State of PA	State of MI	State of UTAH	Stimulus Bill
Funds Invested	\$26M	\$90M	\$291M	\$60M	\$800B
Jobs Created	3.700	8,150	28,854	2,047	1,000,000 To 4,000,000
\$ Per Job Invested	\$7,100	\$11,000	\$11,728	\$29,300	\$800,000 To \$200,000

*Community Development Venture Capital Association

Top 10 States for Venture Capital

State	2010 VC Raised	1970-2010 VC Invested/Companies	Public Co's VC Backed # of Jobs/ U.S. Revenues	Cost of 1 Job Created per VC \$ invested
CA	\$11.6B	\$215.7B / 9,827	2,822,345/\$846B	\$74,846
MA	\$2.5B	\$53.6B / 2,860	775,151/\$190B	\$69,324
ТХ	\$981M	\$27.7B / 1,743	1,129,551/\$243B	\$24,525
NY	\$1.4B	\$25.2B / 1,799	656,632/\$188B	\$38,384
WA	\$634M	\$15.B / 837	778,579/\$256B	\$20,293
СО	\$483M	\$15.1B / 793	162,720/\$45B	\$92,812
NJ	\$469M ³⁹	\$14.6B / 788	328,429/\$66B	\$44,464
ΡΑ	\$559M	\$13.3B / 1,130	783,527/\$238B	\$16,930
IL	\$732M	\$9.8B / 726	256,750/\$63B	\$38,693
NC	\$529M	\$8B / 475	195,973/\$42B	\$40,835

Source: PWC/NVCA 2011

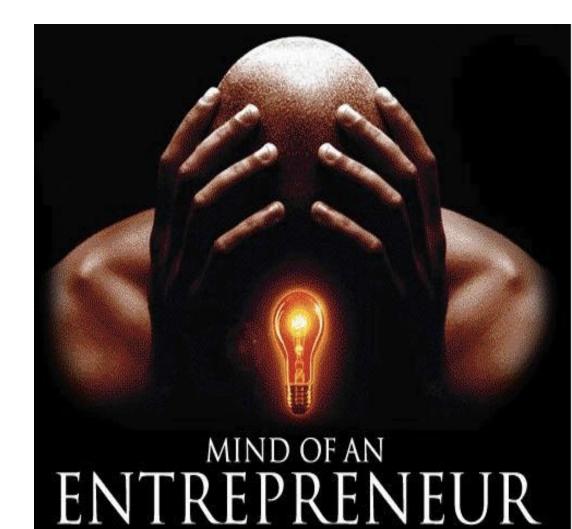
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Innovation Funding Continuum

DREAM	CONCEPT	APPLIED	COMMERCIAL RELEVANCE	STARTUP	ROLL OUT	GROWTH
FoundersFFF Bootstrapping Crowdfunding	Seed	Accelerator	IBED	Federal	ANGEL	VC
AMERICAN REPORTED VISA		startup bootcamp	*	Pep	teban	bvca
MasterCard	Angel Capital Innovations An Angel Capital Group Company			O SBIR&STTR	wib World Business™ α α Angels Association	European Venture Capital iplA
Friends	A Leader in Growing BloScience Companies	techstars		TID		Network
	STARTUPS	seedcamp o springboard();	Chico Third Frontier Innovation Creating Opportunity	Technology Innovation Program		Index Ventures
FOODS by Natl Stoop	jumpstart	DREAMIT VENTURES	Ben Franklin Technology PArtners	SBA	LORE	Investec Wealth & Investment
crowdfund	First Round	Y Combinator	(i) i2E	J.S. Small Business Administration	ASSOCIATES	(intel)
KICKSTARTER	Delaware nnovation Fundare			USDA Rural Development	Rohin Hood VENTURES New York	NEA.
RocketHub	Bio Advance		Technology-Development-Corporation		ANGELS	BATTELLE

Six Distinct Organizational Paths for Entrepreneurs

- •Lifestyle business
- Small business
- Scalable startup
- Buyable startup,
- •Large company,
- Social entrepreneur



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Global Community for Regional Innovation Polic



Incubators & Accelerators

Incubators - incubators allow for slower growth, although they typically have some requirements as to how long companies can remain in the incubators before they graduate.

Accelerators - as their name implies, focus on an intense, boot-camp-like experience to get new businesses up and running in a matter of months.



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Successful Funding Models



Department of Employment and Economic Development

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\$700M 5-yearBond Issue 62% Taxpayer vote approving

\$581M 15 year Wage-tax TIF



\$160M VC Premium insurance Tax Incentives

\$60 Million Angel Tax Credits

\$129M E-RIC Grant



A U.S. DOE Energy Innovation HUB

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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

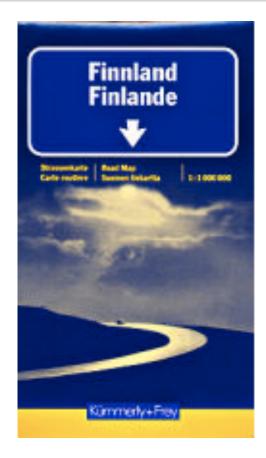
Innovation America: Innovation Road Map Process

- 1. Literature Review of Comparables
- 2. Key Stakeholder Interviews/Recommendations
- 3. Asset & GIS Mapping/Cluster Analysis
- 4. Innovation Benchmarking/Index (Peer 2 Peer)
- 5. Innovation & Entrepreneurship Resource Guide
- 6. Innovation Economic Development Organizational Analysis
- 7. Innovation & Commercialization Program Gap Analysis
- 8. Innovation Ecosystem Public Policy Recommendations
- 9. Innovation Strategic and Organization Plan
- **10.Operations & Implementation Plan**
- 11. Branding & Marketing Strategy

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12. Economic Impact Analysis - Celebrate Your Success



IOWA Innovation Road Map Leadership



Road Map Projects – Resource Guide



PIONEER

RESOURCE DRECTORY

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Appanoose Economic Development Corporation

101 W. Van Buren Sheet, Suite 1 Centerville, W. 52544		Telephone: Website:	641-856-3388 www.appanaosecounty.org
Programs:	Economic Developme Affiliate	nt, Revolving Loan f	iund, AIC Financial Assistance, IowaMicroloan Program
Key Staff:	Tod Foris, Executive D	nector; aedcalrecta	ar®iowatelecom.net

Overview: AEDC's mission is to facilitate the intention, expansion, attraction, and creation of businesses and jobs, and collaboratively work to enhance the overall business climate of the county.

Program Services: Work Opportunity Tax Credit, Enterprise Zone, HUBZone, Property Tax Abatement, Appanoase Industrial Corporation, Tax Increment Financing

The Revolving Loan Fund is designed to assist small to medium sized businesses, and requires a minimum of 5 jobs be created at retained to access this program. The interest rate is 5% and the maximum repayment term is 5 years. The maximum loan amount is \$50,000.

The AIC Financial Assistance Program is designed for medium to large businesses who are expanding or considering, moving their business to Apparaose County. AIC may be able to provide at least \$1,000 per job created in the form of a forgivable loan.

The lowaMicrobian was created for those microbusinesses that are considered on the fringe of riskbearing capacity for most traditional financial institutions. Loans are available from \$5,000 to \$35,000

ARCH Venture Partners

8725 W. Higgins Road, Suite 290 Chicago, IL 60631 Telephone: 73:380:6600 Website: www.orchventure.com/entrepreneurs.html

Key Staff: Keith L. Crandell, Co-founder and Managing Director

Overview: ARCH invests primarly in companies co-founded with leading scientists and entrepreneuts, concentrating on bringing to market innovations in the sciences, physical sciences, and information technology. We enjoy special recognition as a leader in the successful commercialization of technologies developed at academic research institutions and national laboratories. If you are an entrepreneur who has identified an appartunity to commercialize an advanced technology and you are working on a business plan or have formed a startup venture to introduce new technology in information technology. The sciences, or physical sciences, please contact us.

Stage of Development for Investment: Seed/Early Stage

Preferred Investment Industry: Micro/Nanotechnologies, specially materials and semiconductors, biotechnology, interdisciplinary technologies.

Iowa Innovation Index - Indicators

			к	IOWA INNOVATION INDEX
	National Ranking	Regional Ranking	Indicator Number	Indicator Subject Rankings Key: +: National/Regional Indicator Ranking - Strength O: National/Regional Indicator Ranking - Neutral -: National/Regional Indicator Ranking - Weekness
				Economic Impact
alter to	_		1	Industry Cluster Employment & Wage
	N/A	N/A	2	Occupations & Wages
			3	Household Income
	0		4	Productivity
	-		5	Corporate Sales and Manufacturing Value-added
	·	+	6	Manufacturing Exports
		C	7	Wages & Wage Growth (In Key Industry Clusters & Overall)
				Innovation Research & Commercialization
	0	0	8	Royalty and Licensing income to Universities
6 6 9 ⁵⁷	- <u></u>		9	Start-up Companies Formed from University Research
	·		10	Federal Investment in University & Engineering Research
		+	11	State and Local Investment in University Science & Engineering Research
	0		12	Industry & Other Support in University Science & Engineering Research
		0	13	Size of College and University Endowments
	·	0	14	Patenting
	++	++	15	Academic Article Output
		· · ·	16	Research & Development Performed
				Innovation Capital
		+	17	Sum of all investments - all stages
	_		18	Targeted Industries Innovation Capital Investments
			19	SBIR/STTR Awards
Iswol			20	Number of Public Traded Companies
	TBD	TBD	21	R&D Tax Credits
	TBD	TBD	22	Angel Tax Credits
Innovation				Innovation Workforce
	+	0	23	Education Level of the Workforce
laday			24	Public Investment in K-16 Education
Index	·		25	Science and Engineering Degrees
	N/A	0	26	Talent Flow and Migration (int'l and domestic)
				Innovation Location and Environment
	N/A	++	27	State-based Innovation Intermediary (Public/Private Partnership)
Special thanks to our sponsor:	I	0	28	Broadband Internet Availability
DANSBROWN MONSANTO	N/A	· · · · · · · · · · · · · · · · · · ·	29	E-Government Programs

NOTE: Regional strengths are based on lowa's performance as a comparison to Illinois, Kansas, Minnesota, Missouri, Nebraska, South Dakota and Wisconsin.

Iowa & Federal Innovation Capital Programs

<u>State</u>

- Iowa Demonstration Fund
- Iowa Seed Fund
- \$10M Annual Angel Capital Tax Credit
- EB-5 Immigrant Investment Program
- SBIR Assistance Program

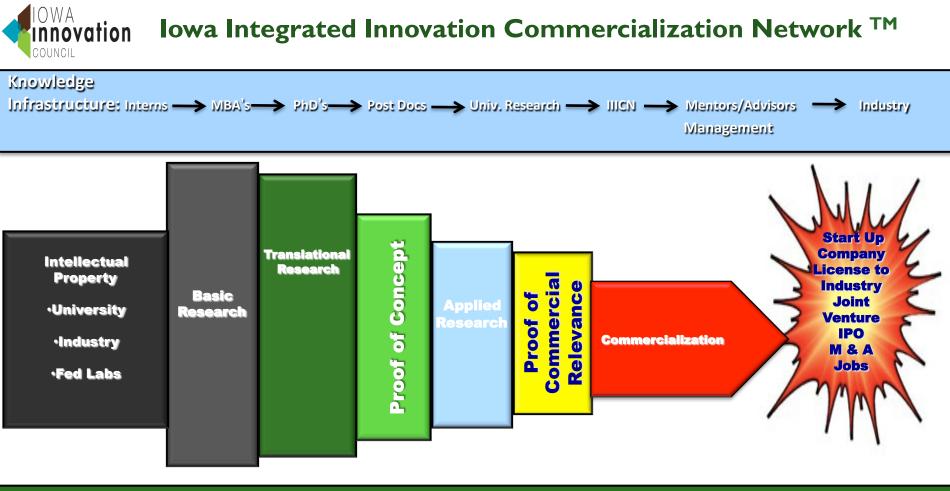
Federal Agency Programs

- EDA i6 Green \$1M
- USDA/ARS Rural Development Funding Programs
- US Treasury SSBCI

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State & University
Funding:POCC \rightarrow Demonstration Fund \rightarrow POCR \rightarrow State Funds \rightarrow Iowa Seed FundFederal & Public
Funding:SBIR/SSTR Phase I&II \rightarrow TIP \rightarrow SBIR 2B \rightarrow I6 Green \rightarrow E-RIC \rightarrow Other Public FundsPrivate Funding:Foundation \rightarrow Angel \rightarrow Seed \rightarrow Venture Capital \rightarrow Mezzanine \rightarrow Debt \rightarrow Bank

AMERICA'S BioHealth INTERMEDIARY (ABHI) CENTRAL MARYLAND REGIONAL CLUSTER

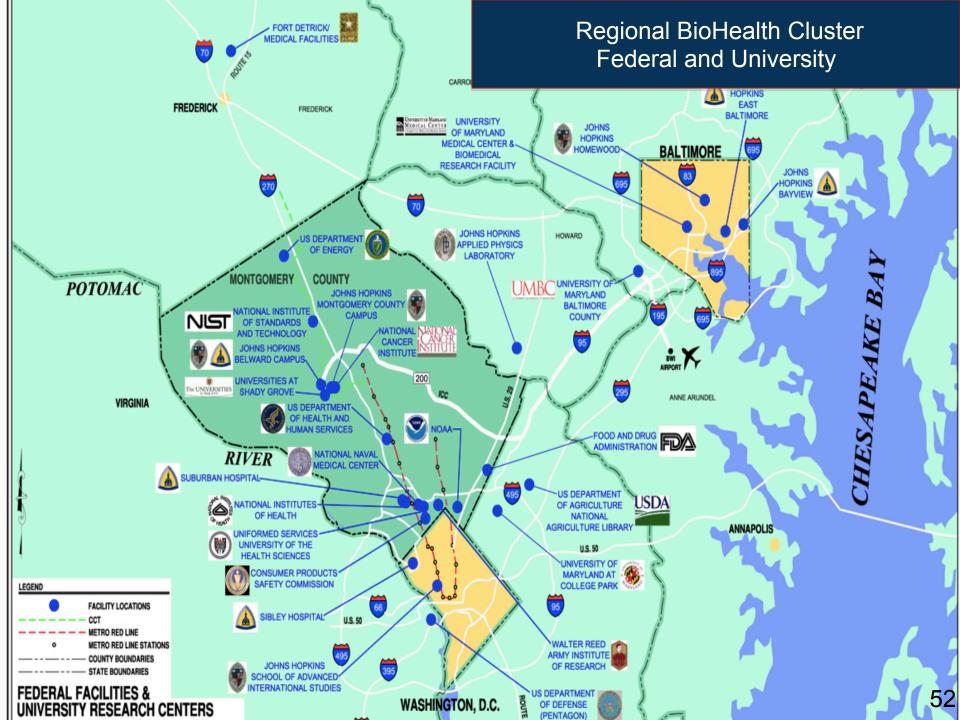












Maryland Partners in BioHealth



Alignment of National, State & Regional Policies



Obama Administration



Governor O'Malley



County Executive Ike Leggett Montgomery County



Stephanie Rawlings -Blake Mayor of Baltimore

- Link Both State, County & City Strategies to Obama Administration Objectives
 Develop an integrated Regional BioHealth Economic Development and Transit Strategy
- •Present the "Regional Job Generating BioHealth and Transit Plan" to the White House & partner with federal agencies and other stakeholder organizations as a "Showcase Model."
- •Develop structure & governance for the regional BioHealth innovation intermediary
- •Obtain Priority Federal Funding for Region's BioHealth Industry-Federal Labs-University Innovation Intermediary Pilot Plan
- •Obtain Priority Federal Funding for the region's Innovative "State of the Art" Comprehensive Rapid Transit Vehicle Plan (CCT et al)
- •Develop a pilot BioHealth-Regional Innovation Cluster (H-RIC) program







Benchmarking Summary of Key Cluster Attributes & Interventions

Subject Area	Maryland/ Greater DC Area	Philadelphia	Cleveland	San Diego	San Francisco	Greater Boston	Research Triangle, NC	Medicon Valley – Denmark - Sweden	Oxfordshire England	Switzerland	Victoria, Australia
1. Scientific Workforce Availability	+	+		+	+	+	+	+	+	+	+
2. Federal Laboratory Presence	+							N/A	0	N/A	N/A
3. Bioscience Seed Fund		+	0	0	0	0	0	0	+	+	
4. Direct Incentives / Business Costs	0	+	0				Ο	+		+	+
5. Enhanced R&D Tax Credits	0	+					+	0		+	+
6. Efficient Tech Transfer Policies			+	+	+	0	0		+	+	0
7. SBIR Support Program		+		0	0	0	+	N/A	N/A	N/A	N/A
8. Early-stage & VC capital availability			+	+	+	+		+		+	
9. Commercialization Institutes			+	0	0	+		0	0	0	
10. Established Public-Private Partnership (Innovation Intermediary)		+	÷	÷		+	0	+	+	+	+

Key:

+ : Strength

= Weakness O = Neither Strength/Weakness





ABHI Goal

VC Regional History:

Last decade the region: **\$79.8 million per year*** in biotechnology venture financing (2003-2010).

Goal:

150 prospective deals annually

Fund:

25% or 35 deals per year

Avg. Investment:

\$4.3 million per start-up

Targeted VC Annual Investment

\$150,000,000

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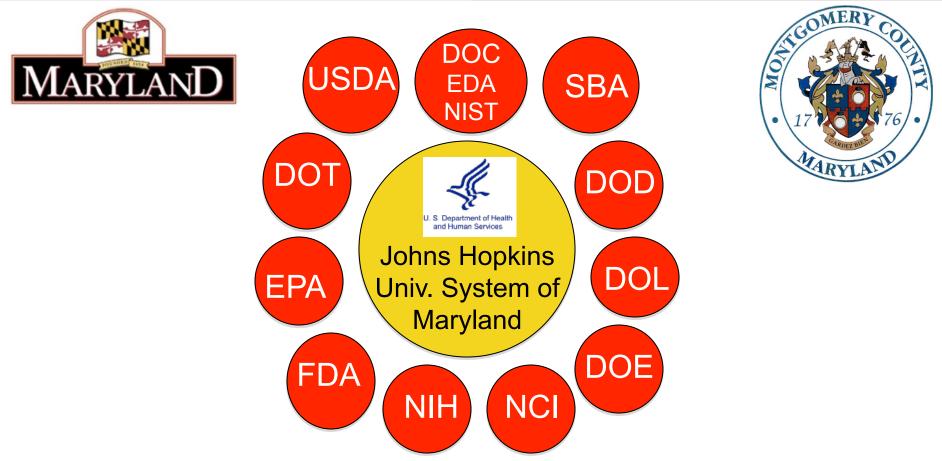
*This includes an estimated \$57.7 million per year in Montgomery County, and \$22.1 million per year in the rest of the state.

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ABHI Health Regional Innovation Cluster



The Baltimore/Montgomery County Region would lead a consortium of key industry, academic, foundation, public and NGOs to support the ABHI H-RIC.

∧ *innovation*© 2011

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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