7TH ANNUAL CONFERENCE OF THE TECHNOPOLICY NETWORK

Building A World-Class Knowledge Region

Leveraging Local Excellence Through Interregional Alliances



HEIDELBERG, GERMANY

Innovation Tour 29 September 2010 Conference 30 September & 1 October 2010 Trans-Atlantic Innovation Collaboration

September 30, 2010

Presented by: Richard A. Bendis President and CEO Innovation America

Organized by The Technopolicy Network In collaboration with BioRN Cluster

THE TECHNOPOLICY NETWORK

BioRN





The World Has Changed

"Collaboration is Essential"

- Convergence of Complex Challenges
- Loss of Jobs
- Growing US Trade Deficit
- Greater International Competition in manufacturing and service industries
- Competitive advantages are increasingly tied to human capital and innovation
- Economic growth is closely related to education/workforce, energy, climate change, environmental, natural resource and geopolitical issues







Why Is Innovation Essential?

"INNOVATION DISTINGUISHES BETWEEN A LEADER AND A FOLLOWER."











Apple Logo

Macintosh



MacBook Black

Classical Apple





-

iPod

iPhone

MacBook 2



MacBook

Tiger Finder

Blue Apple Logo





Tiger Apple Logo

The Apple Icons Icons of products from Apple.

💐 by DeskMundo

innovation AMERICA



-STEVE JOBS



Changing local cities, to change the world.									
Program. ●									
HOME THE VISION THE PROGRAM RESOURCES CITY GOVERNMENT SPEAKING MEDIA TELL US JOIN INI ABOUT US									
Innovation Cities TM Top 100 Index									
RANK	CITY	STATE	COUNTRY	REGION	2010 GRADE				
1	Boston	Massachusetts	United States	AMERICAS	1 NEXUS				
2	Paris		France	EUROPE	1 NEXUS				
3	Amsterdam		Netherlands	EUROPE	1 NEXUS				
4	Vienna		Austria	EUROPE	1 NEXUS				
5	New York	New York	United States	AMERICAS	1 NEXUS				
6	Frankfurt		Germany	EUROPE	1 NEXUS				
7	San Francisco	California	United States	AMERICAS	1 NEXUS				
8	Copenhagen		Denmark	EUROPE	1 NEXUS				
9	Lyon		France	EUROPE	1 NEXUS				
10	Hamburg		Germany	EUROPE	1 NEXUS				
11	Berlin		Germany	EUROPE	1 NEXUS				
12	Toronto		Canada	AMERICAS	1 NEXUS				
13	Stuttgart		Germany	EUROPE	1 NEXUS				
14	London		United Kingdom	EUROPE	1 NEXUS				
15	Munich		Germany	EUROPE	1 NEXUS				

The Global Innovation Network

Global Innovation Network

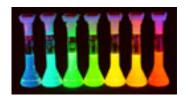




THE TECHNOPOLICY NETWORK
Global Community for Regional Innovation Policy

Implementing a New Innovation Paradigm

- Willingness to deviate from traditional and parochial perspectives
- Encourage public investment and risk taking
- Developing trust through collaboration
- Ensuring the paradigm is responsive to partners' missions
- Building consensus of all constituents through education, participation, and positive outcomes
- Move from technology-based economic development to Innovation-Based Economic Development (IBED)







Goals of Innovation-Based Economic Development

Intervene at the margins of private sector investment flows of capital (financial and intellectual) to:

- Develop global innovation network
- Address economic transition
- Capture the benefit of investments in research and development, higher education
- Build entrepreneurial cultures
- Help existing industries modernize
- Diversify both rural and urban economies





Collaboration

A recursive process where 2 or more people or organizations work together in an intersection of common goals.



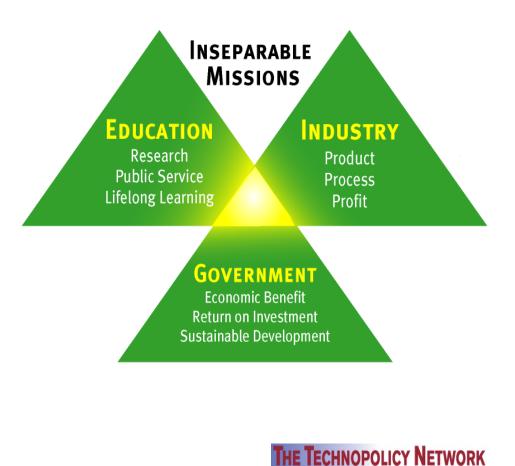




Public/Private Partnership

- Progress is promoted by strong industry, government and university leadership
- •Sustained by dynamic public/private partnerships
- •These leaders create new, responsive models of governance
- Are all critical elements in a global innovation

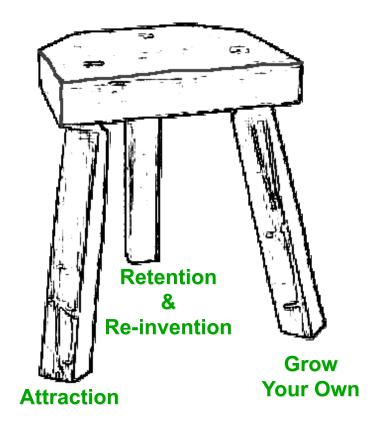




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Economic Development

- Global Economic Development is a three-legged 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!





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Traditional & Innovation-Based Development

Traditional

- Competitive Basis
- Natural resources Highways / Rail Proximity Costs

i.e. PHYSICAL

 Key values / offerings

- Business parks Incentives
- Lead Organization

Chambers / EDCs



Innovation (Clusters)

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

i.e. KNOWLEDGE

- Access to research Workforce competencies Lifestyle
- Economic developers INNOVATION INTERMEDIARIES



What is An Innovation Intermediary?

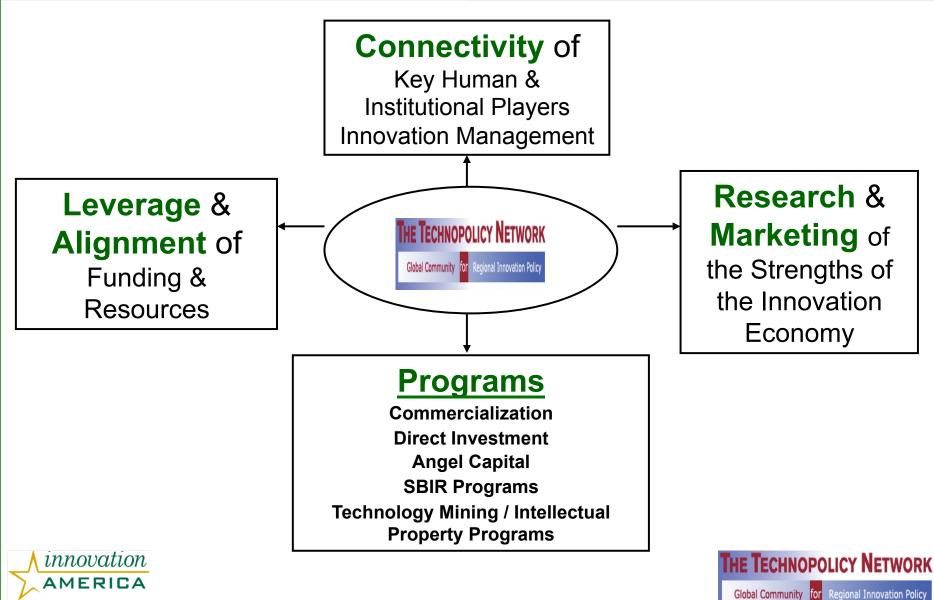
An Organization at the Center of the region's, state's or country's efforts to align local technologies, assets and resources to work together on advancing Innovation.







21st Century Innovation Intermediary



Intermediary Best Practices

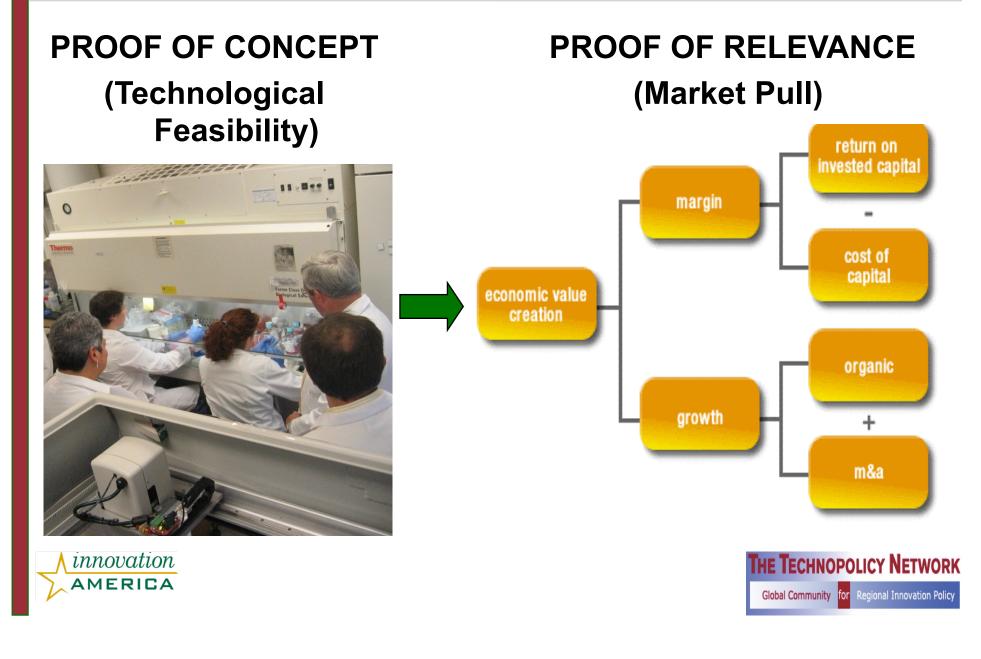
- Longevity
- Bipartisan Support & Champions
- Independent Organizations
- Continuous Reinvention
- PRIVATE SECTOR LEADERSHIP
- Understand Return On Investment
- Sustainability In Funding
- Accountable
- Innovative
- Effective Leadership
- Globally Connected



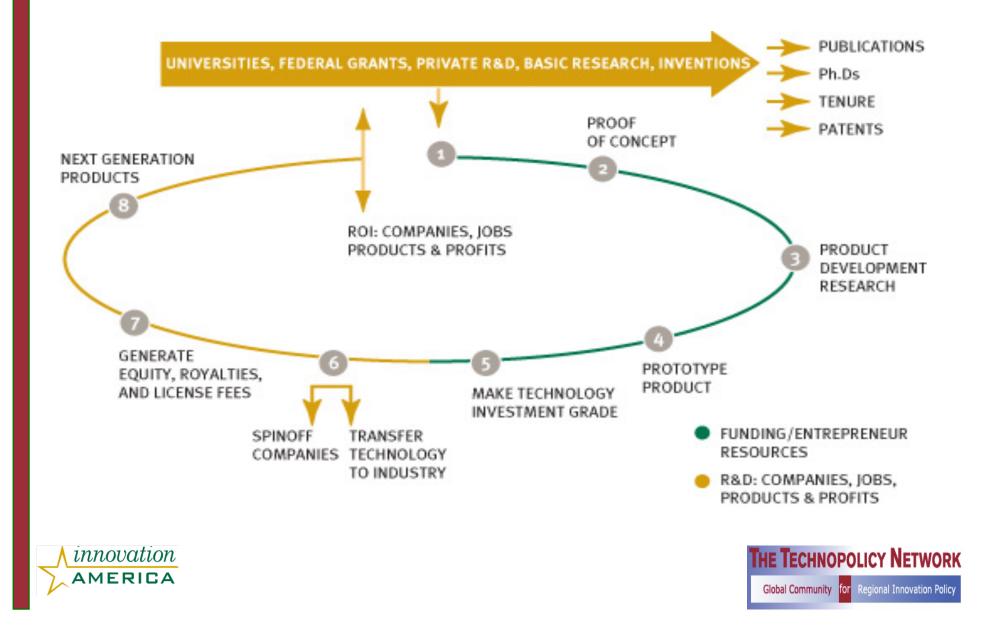




Innovation Paradigm Shift



Innovation Commercialization Model



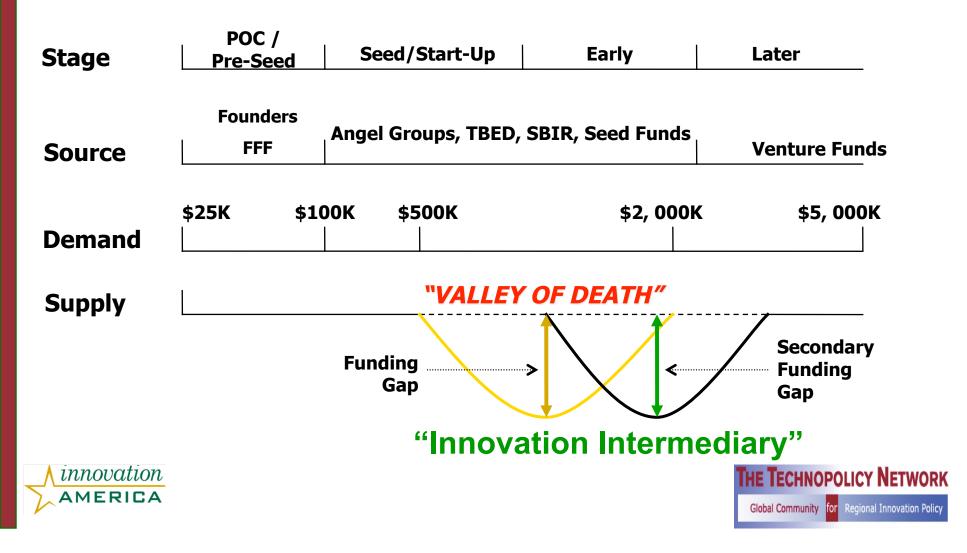






Innovation Capital Valley of Death

"VALLEY OF DEATH"



Jobs! Jobs! Jobs!

Does Seed Investing REALLY

Create Jobs?







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

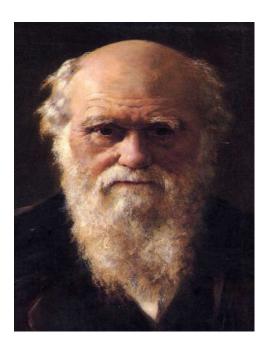


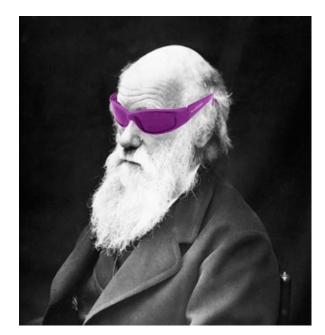


Change Is Inevitable

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











Innovation Intermediaries

- Innovation Intermediaries are "companies that help other companies implement various facets of open innovation".
- Enables other companies to explore the market for ideas without getting in over their heads, since the intermediaries can act as guides to help those other companies along the trail.
- There are different kinds of open innovation intermediaries, with some acting as *agents* (representing one side of a transaction) while others take on the role of *brokers* or *market-makers*.

Source: Henry Chesbrough in his 2006 book "Open Business Models"







Who Are Innovation Intermediaries?

- Intermediaries are individuals, organizations, networks or spaces which connect people, ideas and resources.
- They can take a variety of forms:
 - Incubate innovations by providing a 'safe' space for collaboration and experimentation;
 - connect entrepreneurs with the supports they need to grow their innovations; and others
 - Spread innovations by developing networks and collaborations.
 - intermediaries are needed to bring organizations and knowledge together to build supply networks and markets.







Effective Innovation Intermediaries

- Need to reach across the boundaries that divide sectors, disciplines and fields.
- Need to attract innovative, entrepreneurial people: the job of intermediation needs to be highly creative.
- Need to be fluent in many languages – able to translate from the language of everyday needs to the very different languages of policy makers or investors for example.





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Collaborative Innovation Partnerships (CIPs)

- CIPs are business solutions for companies looking to develop innovative products, services and processes.
- CIPs are cost effective methods of gaining access to well qualified people and experts within further and higher education institutions who can also help take their business forward.

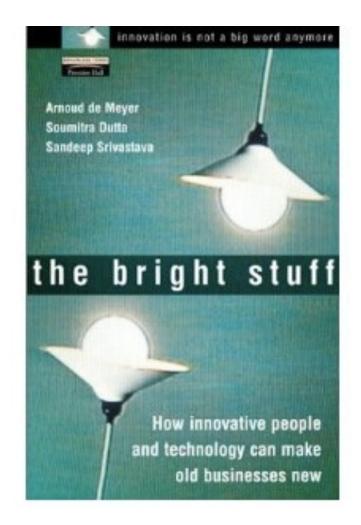




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Innovation Champions

- Innovation champions are individual consultants who produce ideas, network to find what else is being tried, and build coalitions of support.
- Innovation Champions embed processes and procedures within their organizations to develop a more creative culture which encourages new ideas and experimentation.

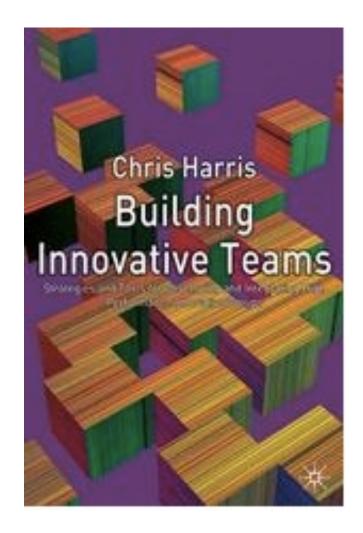




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Innovation Teams

- There are a wide range of innovation teams. Some work within organizations, either within or across departments, some are set up to encourage collaboration across organizations and some are designed to focus on particular issues or use a particular approach.
- The best innovation teams are multidisciplinary and able to engage a wide range of stakeholders in the design, development and evaluation of innovation.

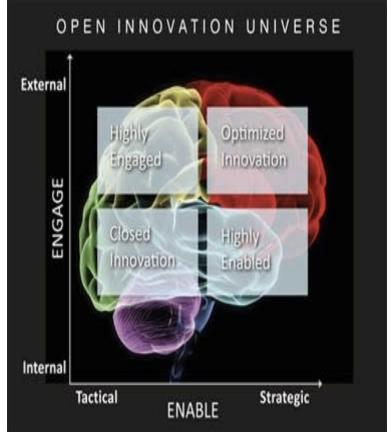






Innovation Intermediary Networks

 Networks can help to spread learning and best practice. Some networks deliberately try to cross
 -pollinate ideas, sharing emerging practice to stimulate creativity.







Innovation Hubs

 Innovation hubs are shared work spaces which are specifically designed to promote collaboration and innovation.







U.S. State IBED Programs





Third Frontier

Innovation Creating Opportunity













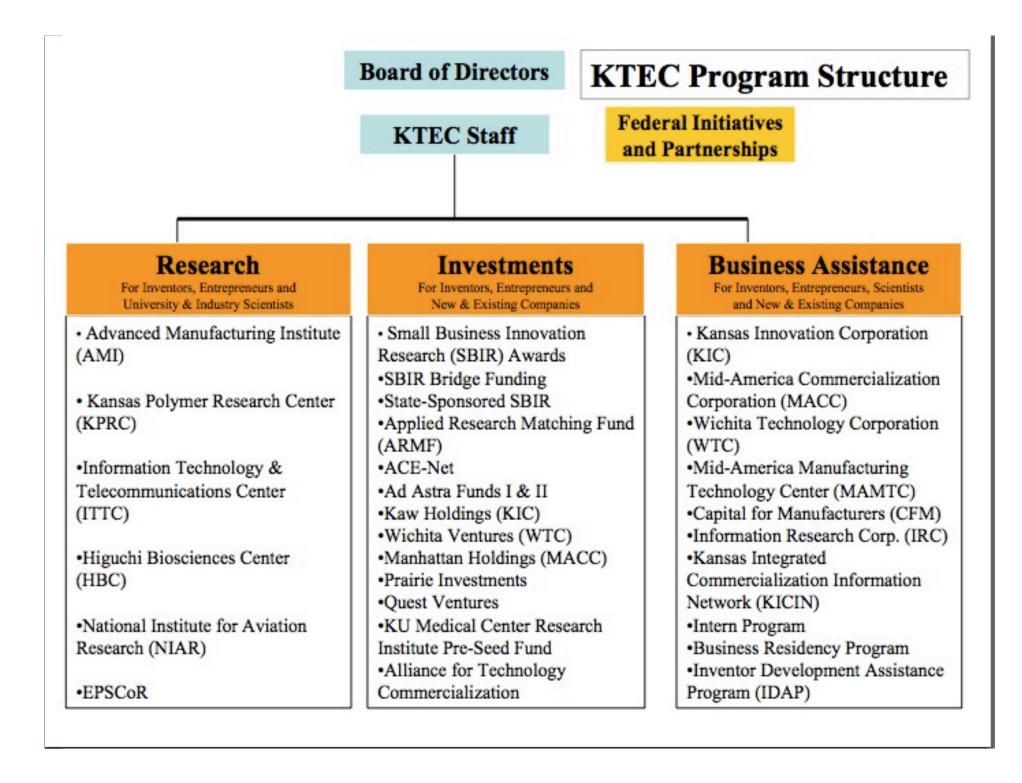






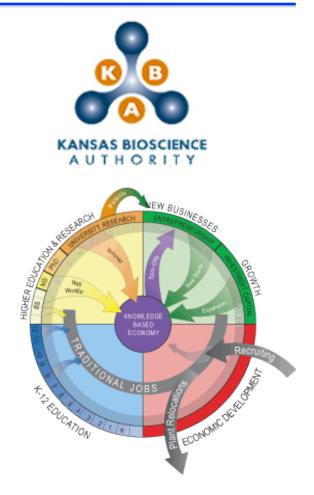






Kansas Bioscience Authority

- \$581 million state-funded independent bioscience TBED organization
 - \$75.5 million program budget; \$3.5 million operating budget
 - 18 employees (8 "deal" people)
- Investment priorities
 - Expand the quantity and quality of bioscience research
 - Focus on the commercialization of bioscience discoveries
 - Foster formation and growth of bioscience companies
 - Position Kansas for international leadership in key clusters







Technology Investment

Technology-based Economic Development Tools Along the Continuum > ready >

> ready > set > succeed

Employees	Concept	Formation	Growth	Maturity	Reinvention
	Ben Franklin Technology F	Partners			: /
	BFTDA Technology Grants	;			:
			BFTDA/TSIB Venture Progra	ams	
	BFTDA University Program	n			
	Center for eBusiness and	Advanced IT			
	CURE Program				
	Idea Foundry				:
			Industrial Resource Centers		•
lu i			Innovation Partnership		
Revenue & I	Keystone Innovation Zone	s / Innovation Grants			:
	Life Sciences Greenhouse	Initiative			
eve		New PA Venture Guarantee	Program		
Ϋ́		New PA Venture Investment	Program		
I	PA Initiative for Nanotech	nology		, ,	
		PA Technical Assistance Pro	gram .		
		Pennsylvania Angel Network	(
		R&D and KIZ Tax Credits			
	Technology Collaborative				
	· · ·				
	Pre-seed	Seed	Series A	Series B/C	Mezzanine

U.S. Regional IBED Intermediaries





Global Community for Regional Innovation Policy

Northeast Ohio IBED Intermediaries











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Canada's Innovation Intermediaries



NRC The National Research Council











MaRs Canadian Intermediary

MaRs Goal:To build great companies. And a vibrant and diverse Canadian economy.

•MaRS helps entrepreneurs bring new and innovative ideas to the marketplace.

•MaRs offers a comprehensive range of business services. And experienced advisors guide our clients every step of the way.

•MaRS works with entrepreneurs in a range of sectors

- •Advanced materials and engineering
- Cleantech
- Information technology,
- Communications
- Entertainment
- •Life sciences and health care
- Social innovation

AMERICA



European Innovation Intermediaries



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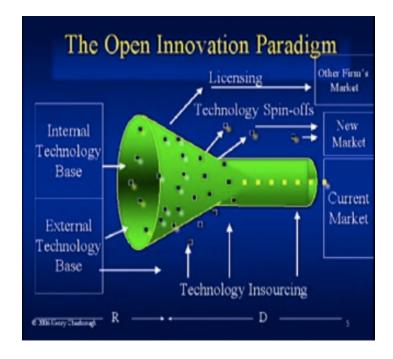


Fraunhofer German Innovation Intermediary



Open Innovation

- "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"
- The central idea behind open innovation is that in a world of widely distributed knowledge, companies cannot afford to rely entirely on their own research, but should instead buy or license processes or inventions (e.g. patents) from other companies.





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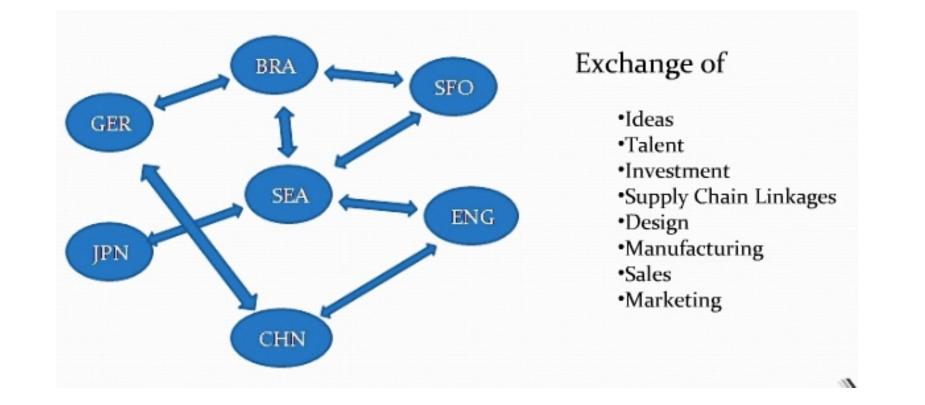
The Global Innovation Network for the 787





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Global International Intermediaries





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What Works for Effective Global Intermediaries

- FOCUSED & INTEGRATED Science & Technology
 Collaboration
- PRIVATE Sector Leadership and COMMITMENT
- Organization's function as a **BUSINESS**
- Successfully manage a technology investment portfolio for ROI
- Operational FLEXIBILITY
- ACCOUNTABILITY with measurable outcomes
- Experienced PROFESSIONAL team
- Focus on the **INDUSTRY CLUSTER** needs
- SUSTAINABLE Funding





Building a Transatlantic Innovation Economy

Recommendations on Approach to Innovation Dialogue

 Identify and address specific barriers and impediments to transatlantic innovation and collaboration

•Drive effective regulation and regulatory alignment to stimulate transatlantic innovation

 Adopt common trade policies toward third countries as regards to innovation policies



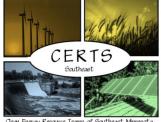




Recommendations on Issue Priorities for the Innovation Dialogue

- 1. Healthcare IT and Product Approval
- 2. Energy Efficiency and Clean Technologies
- 3. Raw Materials Efficiency and Security
- 4. Development of ICT Technologies and New Technology Regulatory Cooperation





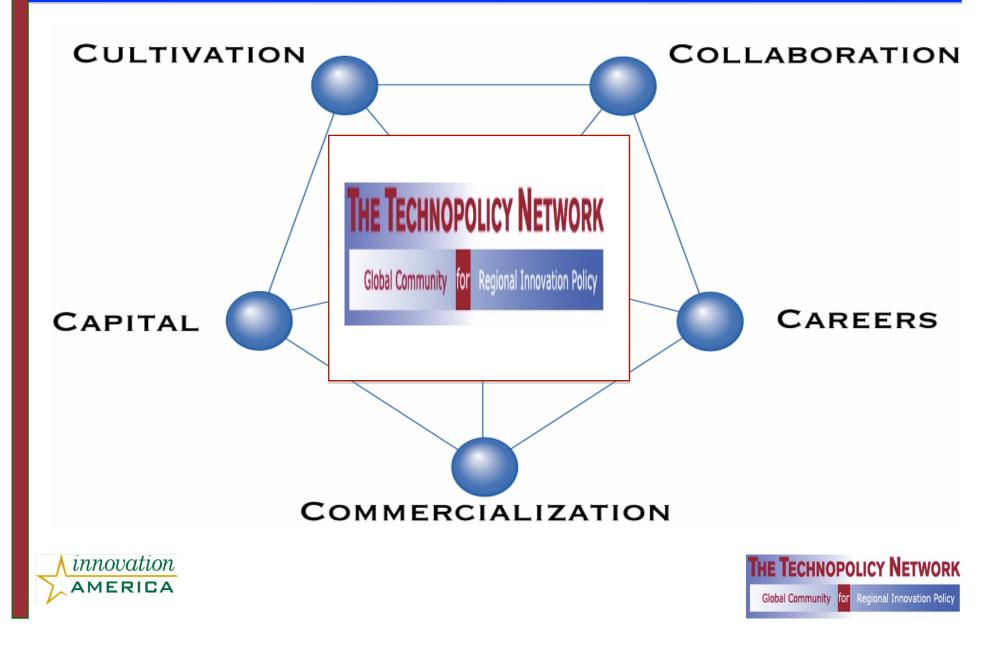








Innovation Paradigm



Partners in International Innovation











Développement Canada Economic économique Canada Development





Venture Capital Association

http://www.evca.com/



http://www.eban.org/



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http://www.astp.net/



http://spice-group.net/



innovationDAILY



Building a World Class Cluster: Richard Bendis as Plenary Speaker in Heidelberg Germany

🎬 Monday, 23 August 2010 00:00 | Written by Administrator | 🚑 🖃



Richard Bendis is participating as a plenary speaker in The Technopolicy Network Annual Conference "Building a World-Class Knowledge Region", Heidelberg, Germany, 29 September - 1 October.

Against the backdrop of Biotechnology Region Rhein Neckar (BioRN), Germany's award winning top-cluster, The Technopolicy Network is organizing its 7th Annual conference.

The conference will focus on the aspects that are needed to create a knowledge region that is truly of world-class. To this extend the importance of international alliances will be stressed. Bendis is a globally-recognized expert in shaping innovation-based clusters and a front runner in strengthening ties of innovation intermediaries across the Atlantic. Bendis is chairman of The Technopolicy Network's Transatlantic Innovation initiative to strengthen ties between Europe and North America in the field of Innovation. This comes at a moment that globalization and growing competition increases the necessity of strategic alliances to preserve ones' leading position in knowledge intensive innovation. The work group anticipates and promotes a more intensive collaboration between European and North-American countries in the innovation field. Outcome of last year's Transatlantic Innovation event, which Bendis also participated in, includes the setting-up of transatlantic



Thank L

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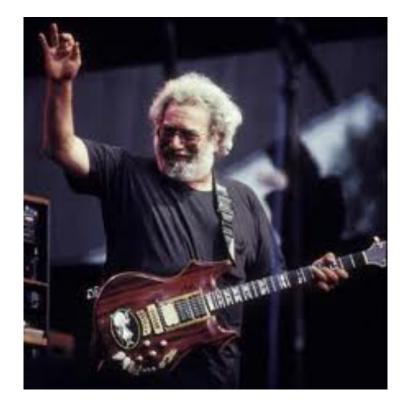
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A Call to Action



"Somebody has to do something, and it's just incredibly pathetic that it has to be **US**."

> --Jerry Garcia of the Grateful Dead

The US is YOU!







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