http://bindweed.com/



Benchlearning National Innovation Systems: Dynamic positioning for Industrialized, Developing and Emerging Economies

12th September 2013 **International Conference on Innovation** Debra M. Amidon Founder and CEO ENTOVATION International Ltd.







7 Decades Ago – Bretton Woods



"Creation of a dynamic world community in which the peoples of every nation will be able to realise their potentialities for peace". - Henry Morgenthau, Opening Address Bretton Woods Conference

The Bretton Woods Conference, officially known as the United Nations Monetary and Financial Conference, was a gathering of delegates from 45 nations that met from July 1 to 22, 1944 in Bretton Woods, New Hampshire, to agree upon a series of new rules for the post-WWII international monetary system. Two major accomplishments of the conference were the creation of the International Monetary Fund (IMF) and the International Bank for Reconstruction and Development (IBRD).



More from Morgenthau...



"Task...do away with <u>economic evils – the competitive currency devaluation</u> <u>and destructive impediments to trade</u> – which preceded the present war. We have succeeded."

"...devise machinery by which men and women everywhere can exchange freely, on a fair and stable basis, the goods which they produce through fair labor...<u>nations of the world will be able to help one another in economic</u> <u>development to their mutual advantage and for the enrichment of all</u>."

"There is a curious notion that the <u>protection of national interest and</u> <u>development of international cooperation are conflicting philosophies</u> -that somehow or other men of different nations cannot work together without sacrificing the interests of their particular nation."



More from Morgenthau...



"...will help determine whether or not people will have jobs and the amount of money they are to find in their weekly pay envelope. More important still, it concerns <u>the kind of world in which our children are to</u> <u>grow to maturity</u>."

"This monetary agreement is but one step, of course, in the broad program of international action necessary for the <u>shaping of a free future</u>."

"We are at a crossroad, and we must go one way or the other...signpost-signpost pointing down a <u>highway broad enough for all men to walk in</u> <u>step and side by side</u>. If they will set out together, there is nothing on earth that need stop them."



1987-1991: The Singing Revolution

"Some revolutions are about hate... others – revenge; one was about hope. A million voices... An unstoppable dream."





http://www.imdb.com/title/tt0954008/

On August 23, 1989, the fiftieth anniversary of the Molotov-Ribbentrop Pact, the People's Fronts of all three Baltic countries held a huge demonstration of unity - the "Baltic Way". A 600 km (373 mi) long human "chain" from Tallinn through Riga to Vilnius was assembled. This was a symbolic demonstration of the people's call for independence from the Soviet Union.



Outline

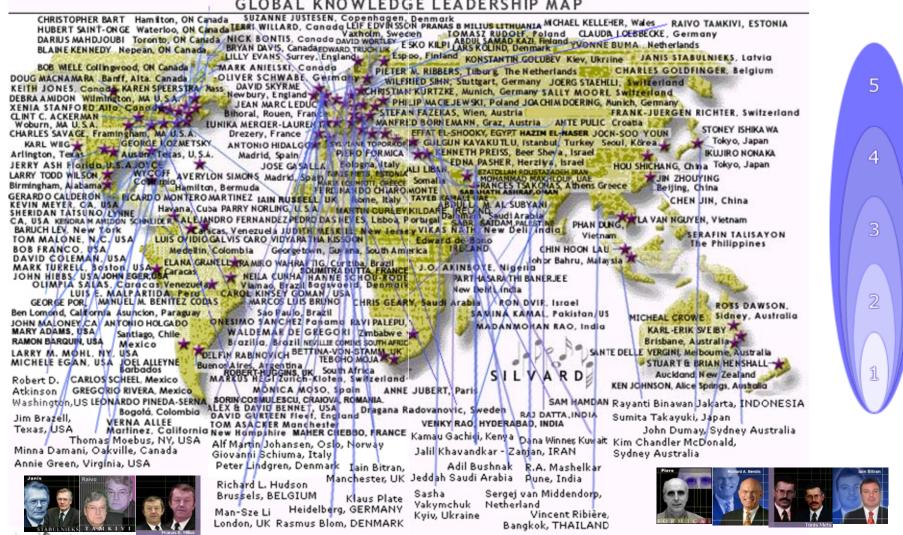


- Where We've Been...
 - Context Key Concepts
- Where We Are...
 - What's in a KIZ Measuring and Managing
- Where We Might Go...
 - Aspirations From Dream to Reality
- Conclusion New Game in Town

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The ENTOVATION Network [E100]: 200+ from 68 countries

GLOBAL KNOWLEDGE LEADERSHIP MAP



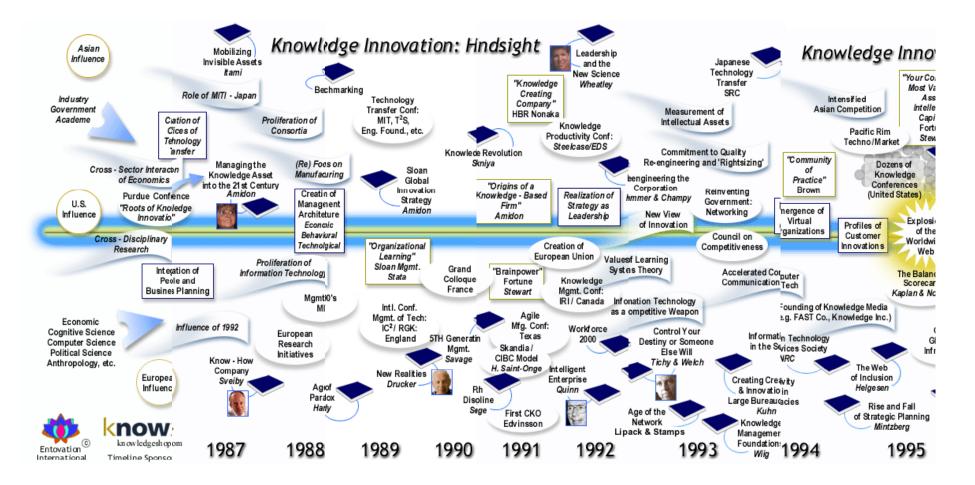
http://www.entovation.com/kleadmap/index.htm



Where we have been...



25 Years of Perspective



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http://www.entovation.com/timeline/timeline.htm

Knowledge Economy *Roots*...

"Enterprise

Value in the

Knowledge

Economy -

"PDVSA

(Paris, France)

Global

Knowledge

Malaysia,)

Partnership II

(Kuala Lumpur,

Knowledge Park -

"US State

Briefing on

(Washington,

DC - USA)

Russia"

Dept

"The

"Knowledge

Initiative"

"Western

Hemisphere

(New Zealand)

Wave





Global Knowledge

(Toronto, Canada)

"IC Statements:

Towards a Guideline" OECD"

Partnership I

(Copenhagen,

Denmark,)



What's 'it' all about...really?

- **tech-nol-o-gy/tek'näləjē/** Noun: The application of scientific knowledge for practical purposes, esp. in industry: "computer technology"; "recycling technologies"; Machinery and equipment developed from such scientific knowledge.
- **trans-fer/trans'fər/** Verb: Move (someone or something) from one place to another. Noun: An act of moving something or someone to another place
- **in-no-va-tion/inə'vāshən/** Noun: The action or process of innovating. A new method, idea, product, etc: "technological innovations". Synonyms: novelty newness; OR the process by which an idea or invention is translated into a good or service for which people will pay, or something that results from ...

Definition:

Knowledge Innovation

The creation, evolution, exchange and application of new ideas into marketable goods and services for:

- the success of an enterprise
- the vitality of a *nation's economy*
- the advancement of *society*

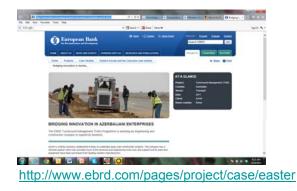


Simplified:

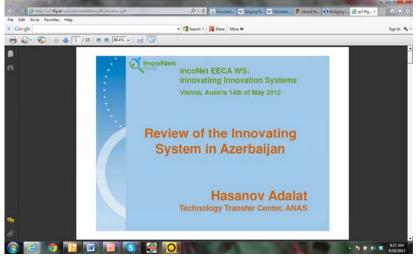
"Innovation: Preserving the best of our past...and rearranging the rest to take advantage of the future."



From Azerbaijan...



n/azerbaijan azvirt.shtml



http://rp7.ffg.at/upload/medialibrary/09 Hasanov.pdf



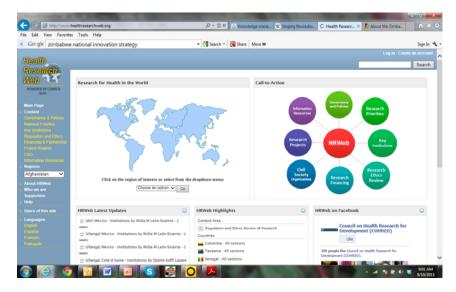
http://www.italtrade.com/countries/asia/azerbaijan/showroom/24080.htm



http://www.undp.org/content/dam/azerbaijan/docs/sustain development/AZ Vision2020 government draft en.pdf









http://www.zimbabwehumancapital.org

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About Weigedia Community portal	Deputy Prime Minister	Thokszani Khuphe MP (MDC-T)		
Recent changes	Minister of Public Service	Prof Elphas Mukonoweshure MP (MDC-T)		
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+ Languages O	Meister of Science and Technology Development	Ptol Heneri Ddinotykesi MP (MDC-T)		
PER INI	Minister of Economic Planning and Investment Promution	Tapiwa Mashakada MP (MDC-T)		
	Minister of Higher and Tertiary Education	Stan Gerarazve Mudange MP (ZAMU-PF)		
	Minister of Industry and Commerce	Prof Weishman Nobe ²⁵ (MDC-M)		
	Meleter of Regional Integration and International Cooperation	Priscilla Misharabwi-Mushonge ⁷⁵ (MDC-M)		
	Meister of Home Atlains	Co-minister: Theresa Makoni MP (MDC-T) Co-minister: Kambo Dugish Campbell Muhadi MP (ZANIJ-PF)		
	Melater of Finance	Tendal Bill MP (MDC-T)		
	Minister of Health and Child Welfare	Sen Dr Henry Madzorera (MDC-T)		
	Mexister of Local Government and Urban Development	Ignatius Margan Chiminya Chamba MP (ZANU PF)		
	Minister of Autics and Level Affairs	San Patrick Antony Chinamana (ZAMJ-PF)	and the second se	

In addition to a President, 2 VP's, Prime Minister, 2 Deputy PM's, there are 31 Ministers.

http://www.healthresearchweb.org/files/Zimbawe

sciencetechpolicydocumentnew.pdf





National Innovation Strategies: Findings

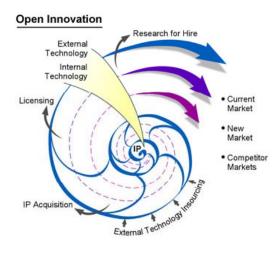
- Most nations industrialized, developing and emerging have developed <u>some form</u> of NIS tracking indicators with available information.
- Many have elevated an <u>Executive Secretariat/Ministry of Innovation</u> reporting to the President or Prime Minister, coupled with Education, Economic Affairs an/or Community Development.
- Larger countries have State or <u>regional approaches</u> with sub-communities 'zones of innovation'
- Many countries have launched <u>strategies across nations</u> beyond the formal regional structures (e.g., EU, ASEAN, African Union et al) and beyond what are known as international trade missions.
- New <u>performance measures</u> are under development in societal organizations (e.g., the UN, World Bank, and OECD) as well as most technology firms and consultancies.
- <u>Competitive innovation reports</u> abound for geographic, regional and even crossborder virtual communities (e.g., Sister Cities, Transdisciplinary Innovation Consortium, Investing Across Borders)..
- ✓ Major <u>rethinking University IP policies</u> including Chief Academic Innovation Officers - with a focus on building the 'flow of knowledge' across stakeholders.
- New field of <u>Knowledge/Innovation Economics</u> has emerged learning to measure the 'intangible value'.

Theory **v**₄. Practice

Note: Today's management theories are tomorrow's ESSENTIAL management practice.



CORE #1-4: Concept Trends



http://www.psicorp.com

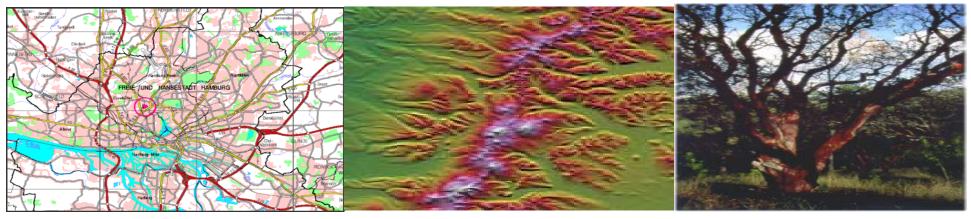
#1 Strategic Planning to Innovation Strategy

•

- #2 Triple Bottom Line [TBL] to the Triple Knowledge Lens [TKL]
- #3 Knowledge Management to a Knowledge Innovation System
- #4 Innovation Value Chains to Innovation Value Eco-Systems



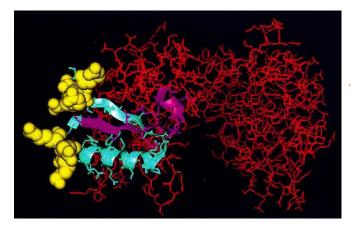
Small World Network Patterns



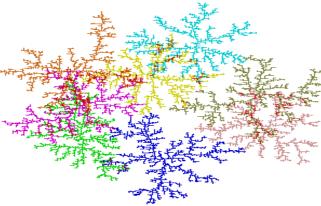
City Network

Topographic Network

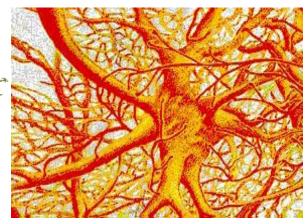
Tree Network



Protein Network



Neural Network



Synaptic Network

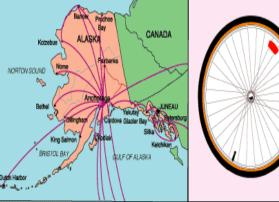




Small World Network Patterns



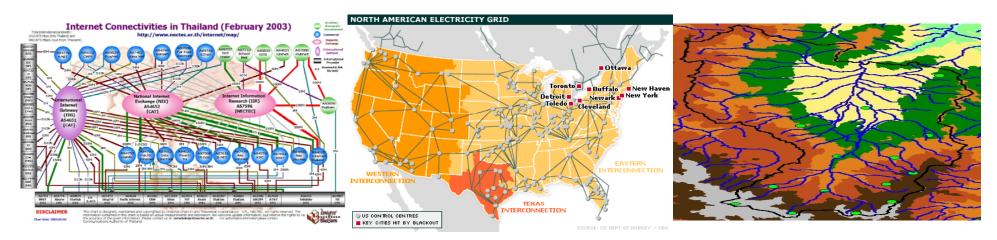
Transportation Network



Airline Hub & Spoke Network



Energy Pipeline Network



Internet Connections Network

Electricity Grid Network

River Network



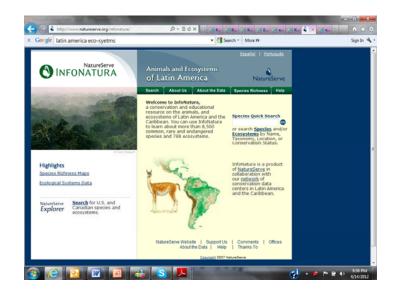


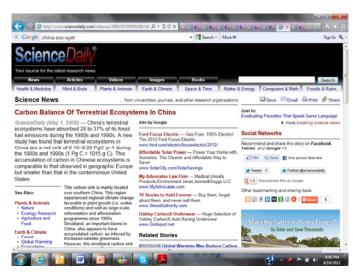
Google: Innovation Eco-Systems

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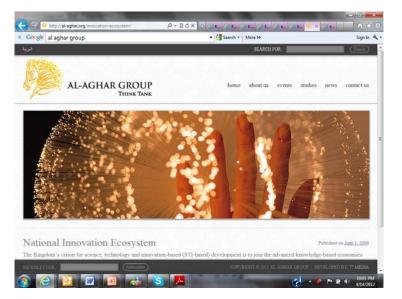
Global Eco-System Initiatives













Where We Are...



Zone Thinking -Throughout the EU and abroad...

Innovation: The Demand Side

New ways to create markets and jobs in Europe

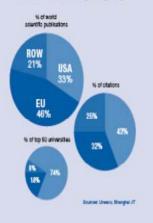




the world. And Burope Ramon OIIA, CEO and chairman of Epson Burope agrees: "When I was a telecommunications student 90 per cent of the students wanted to be entrepreneurs. me to only nine of the top 50 The financial results are worse petitors, the tech-transfer offices Today, in the same university, just 15 per cent want to be entrepreneurs. The rest want to go to the business file 17 per cent as many patents school, just because they can get a better salary. In uch linence income my country, Spain, for many years entrepreneurs were looked on as people who avoid paying tax." is academic attitude – which is

res and realities of the greater "We have brillant people, but brillant people who are very badly paid. And we will continue to be badly paid until we generate the right social climate." Leary, founder and director forendic Pathways Ltd. "On re using universities more for

EU research: Quantity, not quality



Solution 4 Create 'Free Innovation Zones': a way to foster technology clusters

What does it take to get some action? In Brussels, the technocrais so far are thinking big big budgets, big directives, big political fights that may in the end, accomplish nothing. Here's an alternative approach start small and build on successes.

First, success: despite the macroeconomic problems, there is no shortage of bright spots across Burope. It is very important to "celebrate our successes whilst pinpointing and addressing our weaknesses", says INSEAD's Dutta. 1'm sometimes put off by negative sentiment, and I think that is something that has to be changed. A lot is going wrong. But a lot is going right, and we need to focus on that."

Second, start small. Pick some specialized technology dusters and give them special regulatory status - or more property, de-regulatory status. These could be based on the model of Free Trade Zones or Free Economic Zones used elsewhere in the world: ports, offies or regions that have special low tariffs, regulatory fast-tracks and investment incentives. Apply that to the technology world, to nurture specific, narrow sectors of emerging technology across Europe, or clusters of technology centred on specific universities. Call them, in the words of Microsoft's Courtois, "Ree innovation zonas" - FiZs.

"We have brilliant people, but brilliant

people who are very badly paid. And

we will continue to be badly paid until we generate the right social climate."

- Ramon Oll4

Here's how it would work, according to suggestions from panelists at the roundtable:

Blap 1) Designate a specific sector or region for special treatment as a Free innovation Zone. This could be a particular emerging technology: in the energy field, for instance, hydrogen fuel cell R&D, low-carbon office-building technology or new car-engine designs - a field in which Europe has great technology already in the works, and a strong possibility for global success. Atternatively, it could be a specific region, a duster of business, investors and researchers centred around a strong university lab.

Step 2) Review regulations that get in the way of that sector or region growing faster - or consider rule-changes that could speed its growth jouch as, in the field of low-carbon technologies, the UK government's exemption of carbon-neutral homes from stamp duty!

Bao 3) Provide a mechanism for inventors in the zone to get help with patent protection. This could be a special fund to deltay the costs of application.

Itiac 4) Provide tax incentives for investors and businesses to get more deeply involved with researchers in the zone.

Bap 5 Set a special regime for labour mobility in the zone. This could mean suspending the normal fature or pay rules that dater many academics. from working with industry. It could mean a apecial visa system, so bright engineers or scientists from other countries - even from india or China - can participate in the zone, contributing thair talents.

http://www.sciencebusiness.net



Explicit Study of KIZ: Phase I – Background







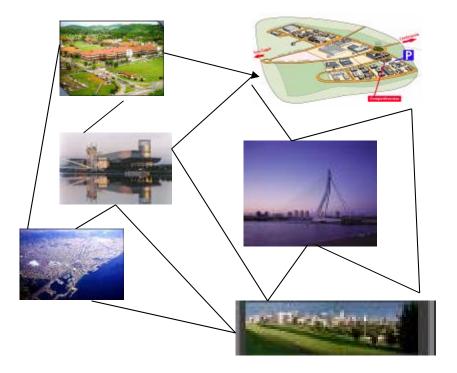
A Knowledge Innovation_® Zone (KIZ)

A world-wide phenomenon

Physical Geography –

Knowledge Park, Region, Corridor, Internet Village, Innovation Nation...

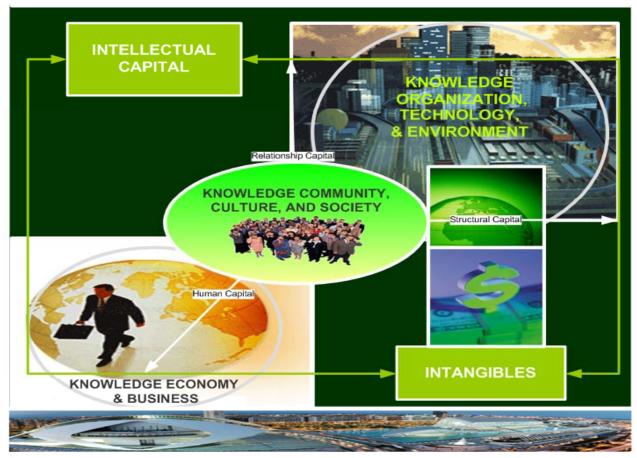
- Industry Geography Companies, Clusters, Collaboratories
- Cyber Geography –
 Virtual Space



www.inthekzone.com

What will you Measure?

THE TRIPLE KNOWLEDGE LENS MODEL



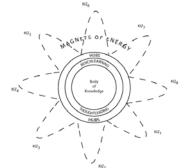
© 2006. ENTOVATION International & The KALETEUR Institute. All Rights Reserved.



How to prototype solutions?

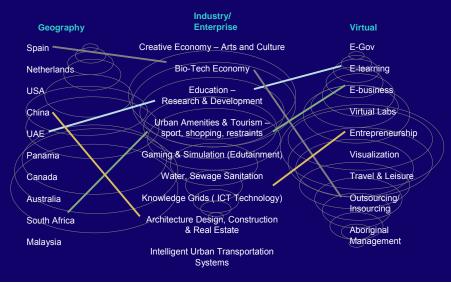
Knowledge Innovation[®] Zones





Knowledge Innovation®

KIZ Prototyping Arena - Sample

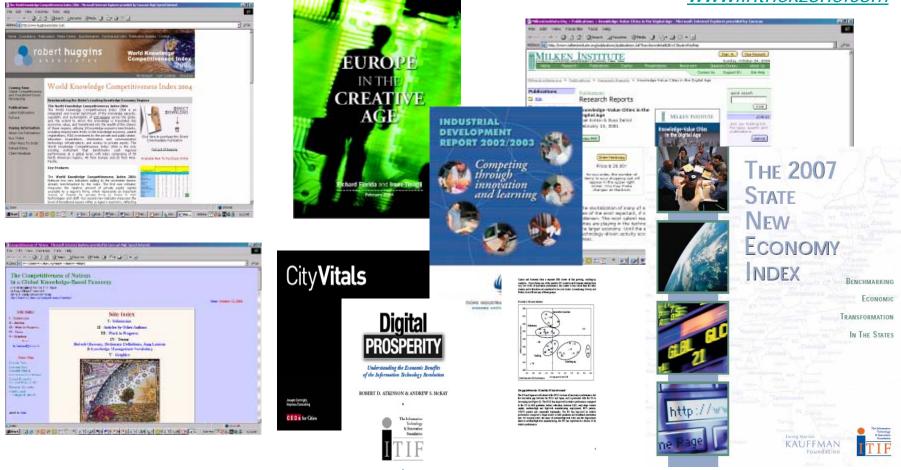




Some KIZs are better than others...



<u>www.inthekzone.com</u>



March 2007

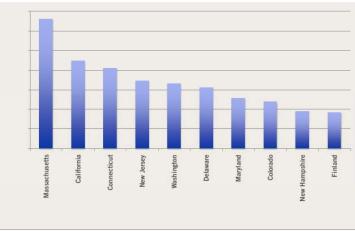
See Handout for specific examples...



ITIF – Atlantic Century II



US ranks 43rd Italy ranks 44th But, if Massachusetts were a country, it ranks #1 in the world – abead of Finland, Sweden, Singapore, Denmark, Japan, and South Korea



THE INFORMATION TECHNOLOGY & INNOVATION FOUNDATION

http://www.itif.org/publications/atlantic-century-iibenchmarking-eu-us-innovation-and-competitiveness

THE INFORMATION TECHNOLOGY & INNOVATION FOUNDATION

Overall Rank	Change Rank (1999-2011)		
1. Singapore	1. China		
2. Finland	2. South Korea		
3. Sweden	3. Cyprus		
4. United States	4. Slovenia		
5. South Korea	5. Estonia		
6. United Kingdom	6. Czech Republic		
7. Canada	7. Latvia		
8. Denmark	8. Singapore		
9. NAFTA*	9. EU-10**		
10. Netherlands	10. Portugal		



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Boston Innovation Tour - Italy



Welcome Italy to Boston

- 50 Italian Executives
- 4 Regions of Northern Italy
- 1-8 October 2011
- 10 Modules
- 6 CEO Case Stories/Studies
- E100 Dr. Piero Formica, Dean, International Entrepreneurship Academy



YouTube Animoto: http://www.youtube.com/watch?v =TbMIqR73a8A&feature=feedu

VIMEO Film: http://vimeo.com/31654385



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Modules

Welcome Italy to Boston:

Harnessing Collaborative Advantage

#1 MIT

- #2 Boston Innovation District
- **#3** Harvard University
- #4 Kendall Square Dialogue
- #5 Babson College & Olin College of Engineering
- **#6** IBM/Consulates
- #7 Legal Sea Foods, Inc. Quality Control Center
- #8 MOITI Getting Grounded
- **#9** The Collaboration Gene
- **#10** Best of Boston

Case Stories/Study

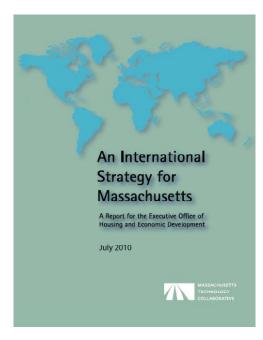
Legal Sea Foods, Inc; Boston Scientific; Z Corporation; Patriot's Place; Ocean Spray Cranberries; Participant Strategy Competition; Mindtree Consulting

Video: http://vimeo.com/31654385





Global with an Aligned Strategy



Premise:

- Job creation is tied to our ability to connect to and succeed in global markets.
- The State is well-positioned as a center of innovation, a leader in key-growth areas and home to world-class universities and research.
- The State can advance efforts by forging collaboration between the public and private sectors.

• Quick Payback:

- Improved communications to known opportunities
- Increased exports or attract foreign partners
- Improved efficiency in international programs
- Forum for identifying and implementing new ideas
- Promise for attracting additional resources

Recommendations:

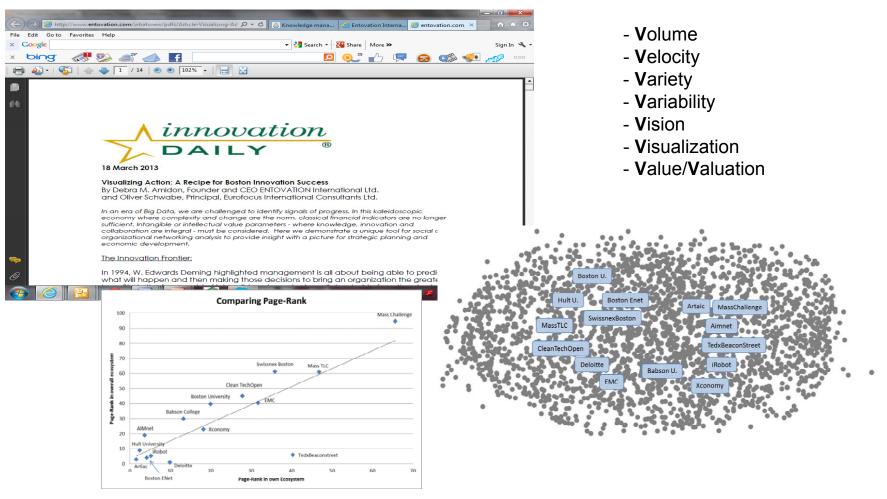
 Focused conferences for foreign audiences; reverse trade missions; overseas ambassadors; overseas alumni events; cross-national survey of international students; innovation research capability; and influence on Federal policy

http://www.masstech.org/international/international home.html

What if... the Baltics Dynamics had an International Strategy?



Visualizing Action: The New V-Factor



http://www.entovation.com/whatsnew/pdfs/Article-Visualizing-Action-InnovationDAILY.pdf



Network Predictor: *IC² Diagnostic*









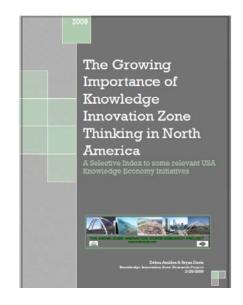
Where COULD we be Headed....

Aspirations Forward



Aspiration #1:

National/Global Innovation Commonwealth



North Carolina

Pennsylvania

Rhode IslandSouth Carolina

South Dakota

Washington State

Ohio

Oregon

Missouri

Texas

Virginia

Wisconsin

Tennessee

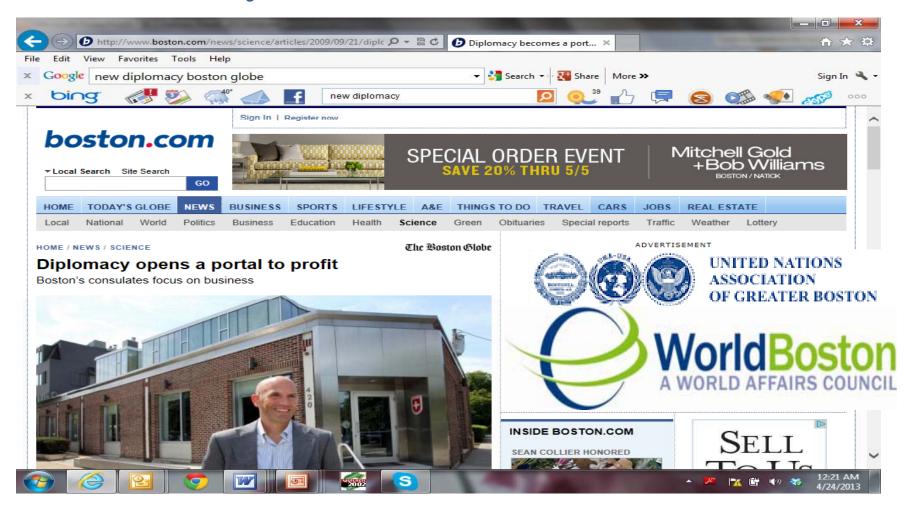


- California
- Illinois
- Kansas
- Louisiana
- Maine
- Maryland
- Massachusetts
- Michigan
- Minnesota
- Nebraska
- New England
- New Jersey
- New York



Aspiration #2:

Embassy/Consulate Infrastructure

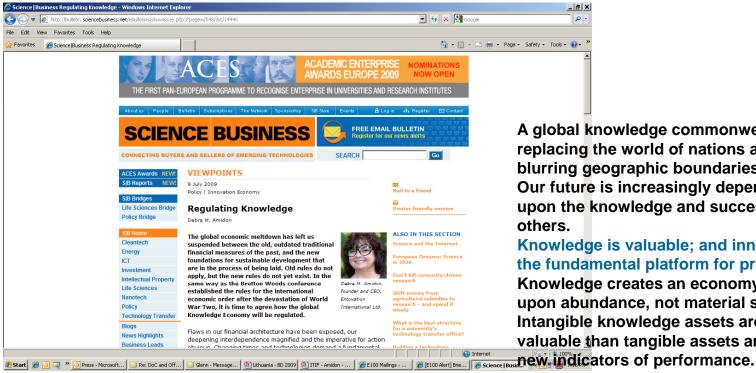




http://www.boston.com/news/science/articles/2009/09/21/diplomacy_b

ecomes a portal to profits in bostons leading edge consulates/

Aspiration #3: World Knowledge Collaboration Index



A global knowledge commonwealth is replacing the world of nations and blurring geographic boundaries. Our future is increasingly dependent upon the knowledge and success of

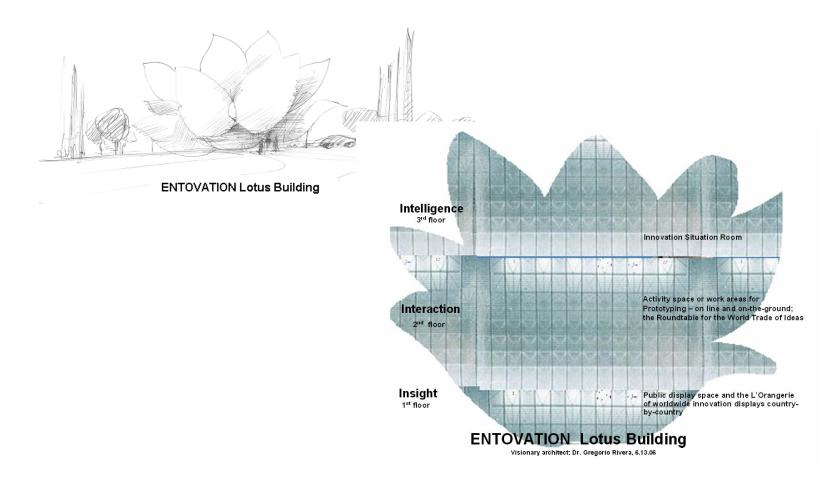
Knowledge is valuable; and innovation is the fundamental platform for progress. Knowledge creates an economy based upon abundance, not material scarcity. Intangible knowledge assets are more valuable than tangible assets and require

To thrive amidst a chaotic, complex and unpredictable knowledge economy, people need to be inspired to action of good intent.



Aspiration #4:

Innovation Intelligence Situation Room





Aspiration #5:

Millennium Bretton Woods

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× Google deloitte center for the Edge • 🛂 Search • 🖓	Share More » Sign In 🔧 🗸
Institute for New Economic Thinking - Blogs About Grants Research Programs Events Partnerships	
	About
ABOUT INET The Institute for New Economic Thinking (INET) was created to broaden and accelerate the development of new economic thinking that can lead to solutions for the great challenges of the 21st century.	• Team • Why INET? • Timeline • Leadership
	Annual Report Media Mentions Contact Us
The havoc wrought by our recent global financial crisis has vividly demonstrated the deficiencies in our outdated current economic theories, and shown the need for new economic thinking – right now.	
INET is supporting this fundamental shift in economic thinking through research funding, community	
building, and spreading the word about the need for change. We already are a global community of thousands of new economic thinkers, ranging from Nobel Prize winning economists to teachers and students who have emerged out from the shadows of prevailing economic thought, attracted by the promise of a free and open economic discourse.	The Institute for New Economic Thinking's mission is to nurture a global community of next-generation economic leaders, to provoke new economic thinking, and to inspire the economics profession to engage the challenges of the 21st century.
	"The emancipation of belief is the most formidable of the tasks of reform, the one on which all else depends." - John Kenneth Galbraith
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Conclusion: There's a NEW Game in Town!



CORE #S: Competitive to Collaborative Advantage

 We have reached the law of diminishing returns in competitive strategy. Today, we need a leadership strategy – where one collaborates to compete.





The Art of Collaborative Advantage





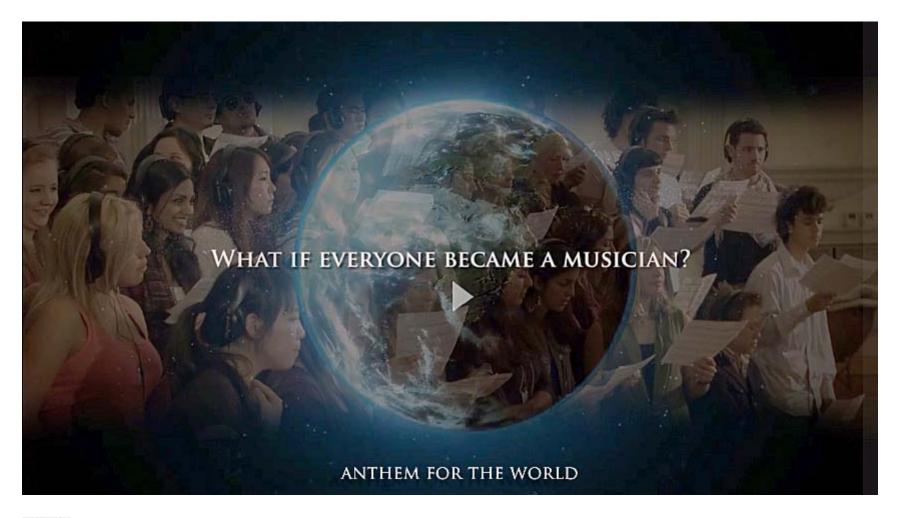
Rhythm of the Universe



http://www.rotu.com

http://www.youtube.com/watch?v=USWaTIn5bEs







http://www.youtube.com/watch?v=4I5gY20GI0M

Our Current Reality

OLD Economy

- Money rules
- Financial Capital
- Competitive Advantage



- Knowledge rules
- Intellectual Capital
- Collaborative Advantage

NOTE: Before there is a flow of financial instruments (money), there is a flow of knowledge. We need to create an environment where we address the impediments and facilitators for the 'flow of knowledge'.



Our Current Reality

OLD Economy

- Money rules
- Financial Capital
- Competitive Advantage



- Knowledge rules
- Intellectual Capital
- Collaborative Advantage

NOTE: Before there is a flow of financial instruments (money), there is a flow of knowledge. We need to create an environment where we address the impediments and facilitators for the 'flow of knowledge'.

What if...INNOVATION became our Common Language?



Discussions have already begun...

G8 and G20 Discussions

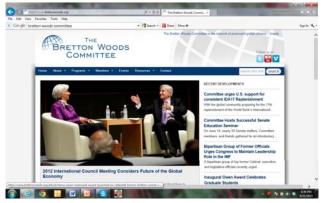
Institute for New Economic Thinking



http://ineteconomics.org/



Bretton Woods Committee



http://www.brettonwoods.org/

But... Will the RIGHT people be at the table?



Moving Forward...

The Baltic States FINLAND Gulf of Finland . SWEDE ESTONIA Gotland RUSSIA LATVIA Baltic Sea LITHUANIA BELARUS RUSS POLAND

I am interested in exploring with those who might like to:

✓ Creating a BD 'Zone of Innovation' with a KIZ prototyping arena.



Moving Forward...



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 ✓ Scoping prospects for a Baltic Innovation Tous [aka Boston].



Moving Forward...



I am interested in exploring with those who might like to:

- ✓ Creating a BD 'Zone of Innovation' with a KIZ prototyping arena.
- ✓ Scoping prospects for a Baltic Innovation Tour [aka Boston].
- \checkmark Developing plans for the flow of Intellectual Capital IC Bretton Woods.

Declaration of Interdependence

- Preamble
- We Believe...
- We Agree...
- We Resolve...





We will transcend traditional boundaries to accomplish what we and others cannot do alone. Further, we will make more effective use of knowledge innovation as a lever to generate sustainable growth and increased standard of living across our local, regional and global economies.



Article available upon request.



"We are creating a *new economic world order* based upon the flow of knowledge, (not technology), innovation (not solutions), value-systems (not chains), stakeholder success, (not satisfaction), and international collaboration (not competition)."

— "Global Momentum of Knowledge Strategy" 1999

NOW is the time ...



http://bindweed.com/



Benchlearning National Innovation Systems: Dynamic positioning for Industrialized, Developing and Emerging Economies

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