

Strengthening the Massachusetts Innovation Economy

Carlos Martinez-Vela, Ph.D.
 Director of Innovation Policy
 martinezvela@masstech.org

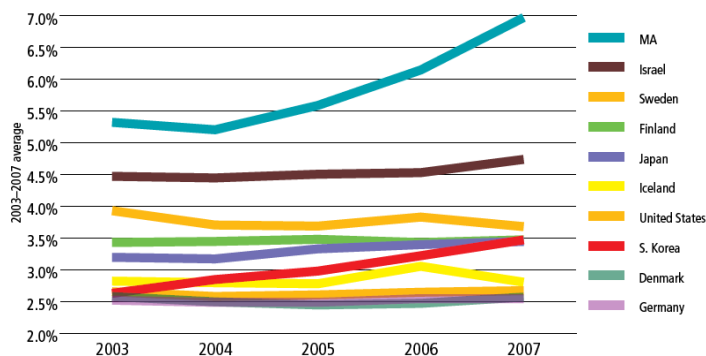
Massachusetts Technology Collaborative
 John Adams Innovation Institute

OEDA 2011 Meeting
 Newport, OR – September 26, 2011



Research and Development Performed

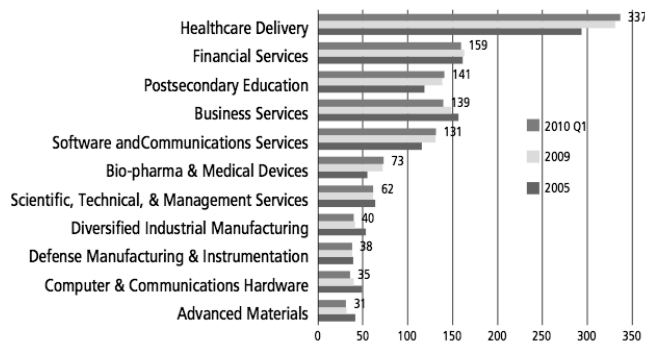
R&D as a percent of GDP, international and Massachusetts, 2003–2007



Source: United Nations Educational, Scientific and Cultural Organization (UNESCO) and the National Science Foundation

Industry Cluster Employment

Total employment by industry sector,
Massachusetts, 2005, 2009, and 2010 Q1



- ▶ 38% of the state's employment in 11 industry clusters



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Clusters: "A Rare Orchid"



"Once this cluster of excellence has emerged like a *rare orchid*, what does it take for it to persist and grow, rather than fade away again?"

Harry West

CEO, Continuum
2009 Index Commentator



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MTC's John Adams Innovation Institute - Mandate

- ▶ To serve as an **agent for the Commonwealth** to create and maintain a more favorable and responsive environment for the development, growth, attraction, and retention of technology-intensive and innovation-driven **clusters** of organizations...
- ▶ ... with particular attention paid to promoting economic growth in discrete and underserved **regions** of the Commonwealth by harnessing local economic infrastructure for such clusters.

Defining our challenge

- ▶ How do we accelerate and amplify the **self-organizing capacity** of individuals and organizations, fostering greater collaboration throughout industry, academia, and government **to improve conditions** for sustainable and equitable economic prosperity across the Commonwealth?

What we do

- Organizing for innovation
 - ◆ Creating networks and communities
 - ◆ Connecting the dots
- Building capacity for research and innovation
 - ◆ Attracting funds for R&D, infrastructure
 - ◆ Long-term organizational capacity
 - ◆ Programs and activities to translate research outcomes into business opportunities
- Launching and supporting large-scale initiatives
- Understanding the Massachusetts Innovation Economy

We are an agent of the state

- We serve as a convener, strategic broker, organizer, and advisor.
- We support and manage high value projects while building partnerships with universities and companies.
- We provide staff support to projects initiated and led by our industry, academic, and government partners.
- We provide reliable information and insights to support evidence-based decision making.

Portfolio

Sector	Projects
Broadband	8
Creative Economy	3
Defense	6
Life Sciences	15
Marine Science and Technology	10
Nanoscale S&T	4
Medical Devices and Plastics	7
Enabling Innovation Capacity	18
Other	6
Total	77

Region	Projects
Berkshire	3
Cape and Islands	7
Central	8
Greater Boston	24
Northeast	9
Pioneer Valley	12
Southeast	6
Statewide	8
Total	77

Example: The Mass Tech Hub Collaborative



An industry-led consortium to enhance and sustain global leadership and innovation in the digital technology industry cluster of Massachusetts (and New England)

Tech Hub Collaborative – Value Proposition

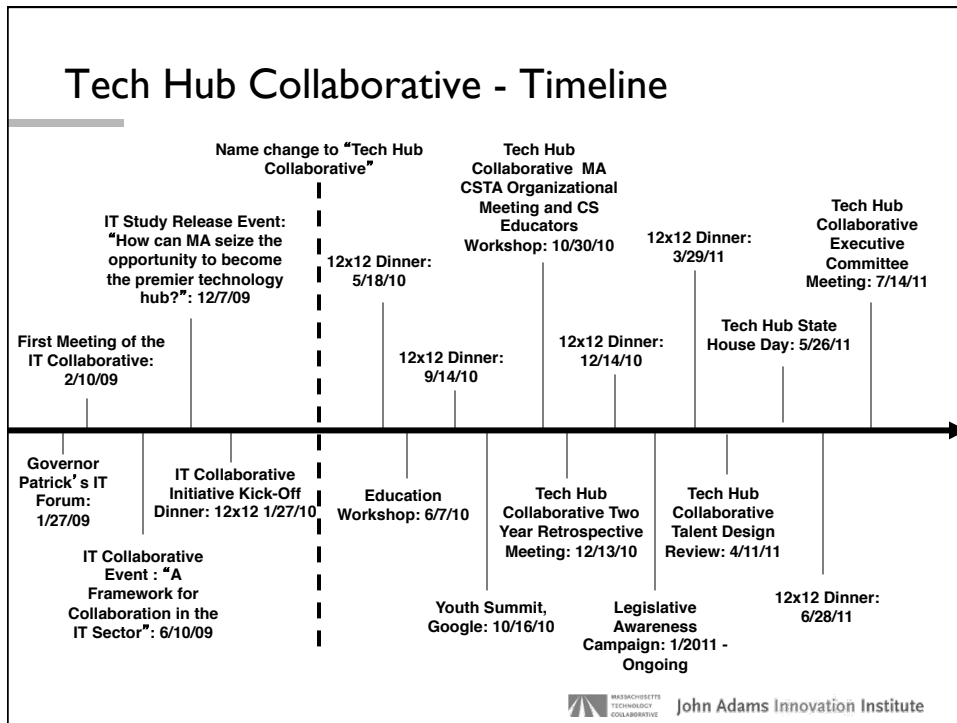
- ▶ A structured, flexible, and strategically inclusive managed dialogue . . .
 - ◆ To represent the voice of the industry towards the policymaking arena...
 - by *creating opportunities* for industry practitioners, academics and other stakeholders in the IT domain in the Commonwealth...
 - to *come together to discuss and discover* new or improved innovation and business opportunities and leverage points to improve the IT innovation ecosystem,
 - and *launch the projects* to act on them.



Tech Hub Collaborative - Organization

Leadership Committee	Executive Committee	Working Groups
<p>Governor Deval Patrick Secretary Greg Bialecki John Chambers, Cisco William Green, Accenture Susan Hockfield, MIT Paul Sagan, Akamai Joseph Tucci, EMC Jack Wilson*, UMass</p>	<p>Mohamad Ali, Avaya Colin Angle, iRobot Paul Bosco, Cisco Donna Cupelo, Verizon Chris Goode, EMC Michael Greeley, Flybridge Capital Partners Emily Green, Yankee Group Jim Kurose, UMass Amherst Andy Ory, Acme Packet J.D. Sherman, Akamai Brian Shin, Visible Measures Brian BURke, Microsoft Steve Vinter, Google Gus Weber, Poliaris / Dogpatch Labs Victor Zue, MIT</p>	<p> ▶ Communications ▶ Entrepreneurship ▶ Talent ▶ Growing Companies to Scale </p> <hr/> <p>Strategic Initiatives</p> <p> ▶ Branding ▶ Legislative Awareness ▶ IT Sector Study ▶ 12x12 ▶ Talent Initiative ▶ High Performance Computing </p>

Tech Hub Collaborative - Timeline



Multiplying Entrepreneurship in Massachusetts

12x12

- ▶ Idea of Michael Greeley, joined by Andy Ory, co-chairs of Tech Hub Collaborative Entrepreneurship working group.
- ▶ 12 CEOs and 12 VCs coming together to accelerate and increase the likelihood of success of promising companies and entrepreneurs.
- ▶ Impact to date:
 - ◆ 7 companies launched or welcomed
 - 92 jobs, \$31.5 million of investment
 - ◆ Unexpected pro-bono support from multiple service providers
 - ◆ Ongoing dialogue, community, and new relationships



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The seal of the Commonwealth of Massachusetts, featuring a Native American figure holding a bow and arrow, surrounded by the Latin text "SIGILLUM REIPUBLICÆ MASSACHUSETTENSIS".

Massachusetts USA

Leading the Innovation Revolution

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Our tools: \$ 45 Million in two public purpose funds

- **Massachusetts Research Center Fund**
 - ◆ \$30 million to make awards that attract federal research dollars and support activities that increase the probability that research outcomes will translate into new business opportunities
 - ◆ 23 awards totaling \$26,626,381 and leveraging additional \$188,628,998
 - ◆ Leveraging 6 dollars per every state dollar invested

- **John Adams Innovation Institute (Regional) Fund**
 - ◆ \$15 million to make awards that spur new engines of economic growth in industry sectors and regions throughout the Commonwealth
 - ◆ 54 awards: committed \$7,341,325 and leveraging additional \$43,881,713