

- Welcome
- Introductions
- Overview
- Discussion
- Project Concept
- Future Meetings
- Happy Holidays

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- Introductions who is here, who else shouild be invited?
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- Overview Lou, Judy and Matthew give background
- Discussion
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- Discussion Connections and gaps between business and academic pipeline of graduates and the knowledge they have acquired
  - How to calculate the future requirements of the business community
    - How to communicate what is needed and who is coming in near real time – a "dashboard?"
  - Intern programs
  - Dialogues about new and updated courses
- Project Concept
- Future Meetings
- Happy Holidays

- Project Concept
  - Talent directory of students for businesses
  - Others?
- Future Meetings
- Happy Holidays

- Future Meetings
  - Monthly?
  - Set day within the month?
    - Could send out proposed dates
      - Week
      - Day
      - Time of date

Adjourn - Happy Holidays



entrepreneurs create jobs.

**Overview Deck 2.0** 

Prepared by Matthew Nemerson and Casey Pickett for Kip Bergstrom

- Introductions
- Overview of process
  - Evolution of Innovation Ecosystem Planning process into Startup Connecticut
- Exercise
  - What is the one thing state can do to create a stronger environment to help you start more firms and keep them growing here?
- Discussion



"The chance that a small business will survive for five years in the United States is only about 35 percent. But entrepreneurs simply don't believe that such statistics apply to them. Surveys show that on average, they estimate their chances of success at 60 percent—almost double the statistical reality."

"An absence of delusions, therefore, would lead to less growth, innovation, and risk-taking. Excessive, even unrealistic, optimism plays a crucial role in generating prosperity."

"Personal overconfidence has many pitfalls, but it can also lead the most optimistic among us to become entrepreneurial.

[It can lead] to Government official's overconfidence [that] can lead administrations to consider their goals more achievable than they're likely to be..."

Guy Sorman review of new book by Daniel Kaheneman "The Engine of Capitalism"



- Under Governor Dannel Malloy's administration in early 2011 as one piece of a economic development reinvention theme to listen to business and help create jobs and growth, a strategy to build more high growth start-ups and help high potential existing smaller firms was initiated.
- A plan for a deliberate, powerful and responsive "innovation ecosystem" for the state was designed.
- ❖ DECD Commissioner Catherine Smith made the effort a high priority for her Deputy Commissioner Kip Bergstrom.
- Bergstrom assembled a 25 person working group over the summer and produced a plan now known as "Startup Connecticut."

#### GOV. MALLOY ANNOUNCES LAUNCH OF STARTUP CONNECTICUT

Newest Part of Strategy to Reinvent Connecticut; Initiatives will Fuel More Startups

(HARTFORD, CT) – Governor Dannel P. Malloy today joined with business leaders to announce the launch of Startup Connecticut, a new initiative that will help to reinvent Connecticut by assisting high-growth entrepreneurship throughout the state. Startup Connecticut will be part of a national network of state and regional efforts coordinated by the Startup America Partnership, the national organization working to help young companies grow in order to create jobs in the country. Connecticut becomes the third state in the nation to adopt its own regional initiative.

"Connecticut has always had a reputation as the home to innovative companies, technologies and workers," said Governor Malloy. "But in recent years, people have begun to wonder if Connecticut's best days are behind it. Nothing could be further from the truth. In finding new and innovative ways to compete in a 21st century economy, we also have to find new ways to reinvent Connecticut. I believe we have yet to effectively harness our potential to create new companies, help those already here, and maximize the job creation potential of both. The launching of Startup Connecticut will give us a series of coordinated efforts to improve our track record now."

A group of almost two dozen entrepreneurial, business, government and academic leaders has met regularly with the Malloy Administration during the past five months, reviewing measures that should be taken to improve Connecticut's efforts to support entrepreneurship and innovation. They concluded that better organization, coordination and networking of existing entities and creation of very focused and carefully designed new entities would produce the best results for the state, rather than starting from scratch.

Governor Malloy explained, "Startup Connecticut will form the basis of a new public/private partnership that will bring sweeping changes to how we approach and support our state's startups and small business entrepreneurs. The goal is to launch many more startups in a much shorter timeframe, and increase the quality and levels of support for our existing base of smaller firms. This will create jobs as well as a vibrant innovation ecosystem in Connecticut, which will accelerate our economic recovery."

The program will focus on several areas, including a hub design that will see regional centers established and supported by statewide efforts to bring technology, concept testing, mentors, funding and key business connections to firms where and when needed.

Scott Case, a successful entrepreneur who was founding CTO of Priceline in Connecticut and is now CEO of the Startup America Partnership, said, "I know first-hand that Connecticut is a tremendous place to start and grow a business. I look forward to working with Connecticut to take its startup ecosystem to the next level and build the next generation of companies whose innovation and growth will create more jobs."

"Startup Connecticut will help maximize the resources of our existing small business leaders, entrepreneurs, universities, incubators, funders, and other support organizations, and in doing so will go a long way in improving the ability of Connecticut to market itself as an ideal location for high-tech startups and innovative, high-potential firms," said DECD Commissioner Catherine Smith. "We look forward to leveraging Startup America from other states and joining into a national network of support systems that can link our firms to capital, administrative support and entrepreneurial support."

Draft - Please do not forward or copy

Additional information about Startup Connecticut can be found on its website at <a href="www.startupct.org">www.startupct.org</a>.





# A year earlier, attention was focused on why Connecticut lagged behind other states with fewer resources

# Report: CT's annual employment growth expected to be worst in country

Connecticut is expected to have the lowest annual expected employment growth in the nation over the next five years, according to an industry study.

A recent report by New York-based IHS Global Insight, which provides economic and financial analysis, said Connecticut's annual employment is expected to grow by less than 1 percent over the next five years, the worst growth rate of any state in the country.

The number indicates just how painful Connecticut's economic recovery could be.

The Nutmeg state has lost nearly 100,000 jobs since the start of the recession in 2008. Connecticut did gain about 2,500 jobs in November, but the unemployment rate remains high at 9 percent.

The national unemployment rate is about 9.8 percent.

Connecticut's 0.9653 percent annual expected employment rate increase through 2016 ranked it dead last

Arkansas, Iowa and Ohio, each had the next worst projected employment rate increases over the next five in the United States. years at 1 percent, 1.1 percent and 1.2 percent respectively.

Meanwhile, neighboring states like Massachusetts, New Jersey, Maine and Rhode Island all have

The largest expected employment growth rates are expected in Utah (2.7 percent), Idaho (2.4 percent), and Arizona (2.3 percent).

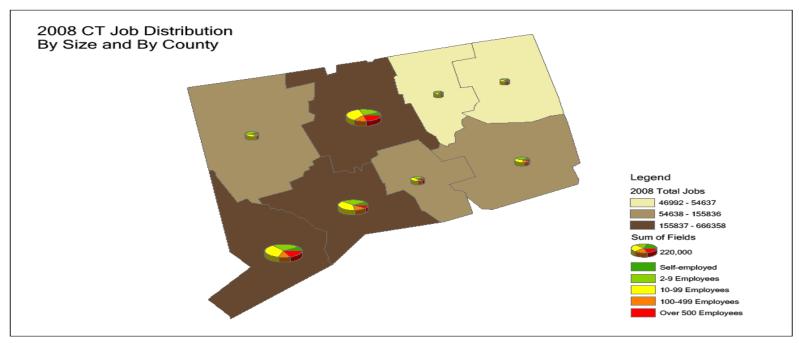
	2010 Kauffman ITIF New Economy Index Ranking (among 50 states)		
Manufacturing Value-Added	2		
Inventor Patents	Positive 5		
Industry R&D	attributes 5		
Venture Capital	7		
IT Professionals	10		
Scientists & Engineers	12		
High Tech Jobs	14		
Entrepreneurial Activity	22		
Gazelle Jobs*	Negative 23		
Non-Industry R&D	results 37		
Job Churning	50		

Source: Kauffman Foundation and ITIF, 2010 State New Economy Index.

### Why the disconnect?



<sup>\*</sup>Gazelle Jobs taken from Kauffman Foundation and ITIF, 2008 State New Economy Index.

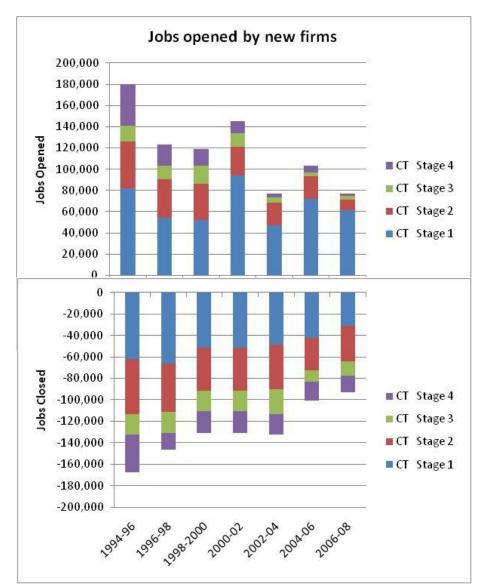


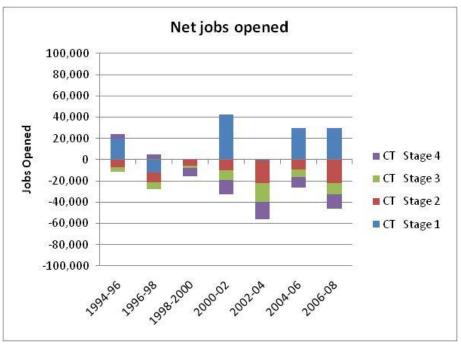
Connecticut, 2008	Employees	CT's % of Jobs	CT Rank in US
Stage 4	(500+)	15%	7
Stage 3	(100-499)	14%	23
Stage 2	(10-99)	33%	44)
Stage 1	(2-9)	30%	34

Source: YourEconomy.com. Edward Lowe Foundation.

### There are too few start-ups & stage 2's







### What will drive more new jobs?



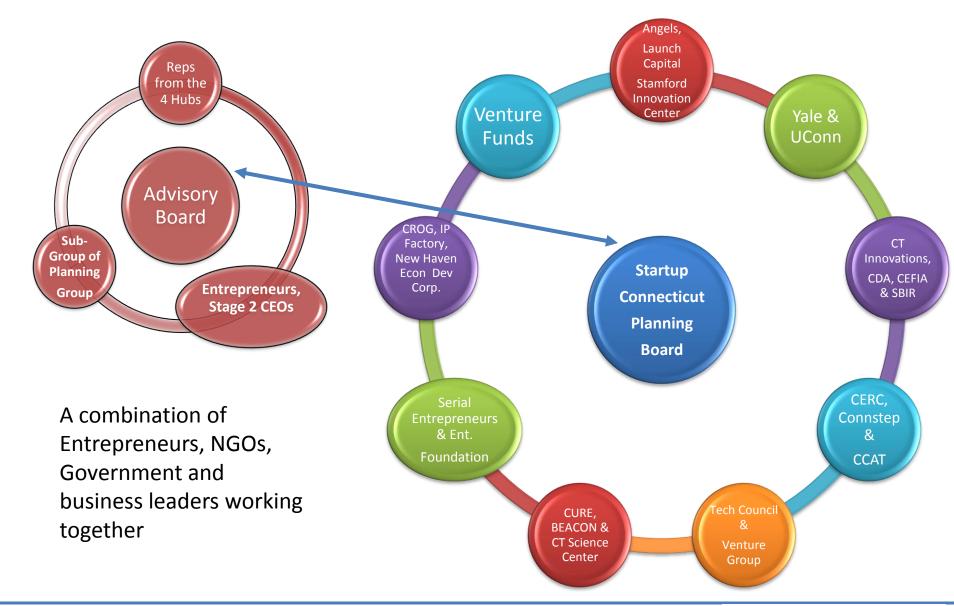
2010 Rank	Index Score	
1. New York	2.34	
2. Washington	2.17	
3. Massachusetts	2.04	
4. New Jersey	1.93	
5. Oregon	1.93	
6. Louisiana	1.61	
7. Illinois	1.57	
8. Oklahoma	1.55	
9. Texas	1.54	
10. New Hampshire	1.49	
11. North Dakota	1.48	
12. Vermont	1.44	
13. California	1.44	
14. Delaware	1.43	
15. Idaho	1.34	
16. Wyoming	1.33	
17. Connecticut	1.32	
18 .Kansas	1.23	The University of Nebraska-
19.Florida	1.21	Lincoln Bureau of Business Research
20.Pennsylvania	1.20	© 2011

### How to catch up with peer states



May 2011	July 2011	August 2011	Fall 2011
Who: Small group of UConn, Start- Up CT, CTC, DECD, CI Pre-seed	Expanded group to include CEFIA, Yale, CI, IP Factory	Expanded group to all TBED agencies	Expand group to statewide network
What: Best practices for accelerators, incubators and business plan competitions	Look at a model for the entire innovation ecosystem. Work with Kip to define his goals for Jobs Summit.	Complete surveys, bond through exercises, develop larger list for state- wide network	Develop models for DECD to use as basis of TBED leadership in 2012
Results: Worked on proposals on concepts. Studied others systems	Built models and goals. Designed survey	Prioritize programs, develop budgets, design systems and relationships	Create ask for special session, build Innovation Ecosystem 2.0

### Meeting to understand the Innovation Ecosystem



### A diverse planning group



- Talked to the customer the entrepreneur and the growing business CEO -- on "jobs tour"
- Used statewide experts to understand issues, find solutions, build consensus and develop priorities
- Looked at the whole system, not just parts
- Sought to create a new model, allocate resources, encourage collaboration and cooperation



#### Leadership Government · Research institutes · Unequivocal support Institutions · Social legitimacy · Venture-friendly legislation e.g. Investment, support . Open door for advocate Financial support · e.g. Bankruptcy, contract **Early Customers** · Entrepreneurship strategy e.g. for R&D, jump start funds enforcement, property rights, · Urgency, crisis and challenge and labor · Regulatory framework · Early adopters for proof-of-Incentives concept e.g. Tax benefits Financial Capital · Expertise in productizing · Reference customer Micro-loans · Venture capital funds First reviews **Policy** · Angel investors. · Private equity Distribution channels friends and family · Public capital markets Debt · Zero-stage venture capital Networks Markets **Finance** · Entrepreneur's networks Diaspora networks Multinational corporations Success Stories Entrepreneurship Visible successes Wealth generation for founders Labor International reputation . Skilled and unskilled Human Serial entrepreneurs Culture · Later generation family Capital Societal norms **Educational Institutions** Tolerance of risk, mistakes, failure Innovation, creativity, experimentation · General degrees (professional and Social status of entrepreneur Supports academic) Wealth creation Specific entrepreneurship training · Ambition, drive, hunger **Infrastructure** Non-Government Institutions Telecommunications Entrepreneurship Conferences Support professions Transportation & logistics promotion in non-profits · Entrepreneur-friendly Energy Legal Business plan contests associations Zones, incubation centers, clusters · Accounting · Investment bankers © 2009, 2010, 2011 Daniel Isenberg 5/19/2011 · Technical experts, advisors

### Studied innovation ecosystem design



# SSTI – A major innovation policy think tank

### Key to success:

- State and fed gov't focusing on regions
- Everyone at the table
- Private leadership (beyond investors)
- Job-creating firms trump everything







#### Modeled successful places, such as Cambridge, MA Legal Sea embridge Broad Canal Charles River Dogpatch Labs TechStars Canoe and Kayak ~400 Accelerator (Polaris Ventures) ~24 Incubator VCs (20) Lawyers 34 -MENTORSHIP Cambridge Innovation Cambridge, **COMMUNITY** -Community Consultants Center -Mentorship -Investment Cafe Start-up hotel Consultants -Free space -Space LaBrioche www.store Accountants merican -SPACE **Red Cross** -Business services Entrepreneur Ford Bldg Education -Community Carleton St State Whitaker Mentoring office College Mudd Bldg InterSy: N.E.R.D Center MIT Medical Corporate Innovation Hermann Campus Muckley (24 Profs., Bldg Bldg 225 Students) -COMMUNITY -Internal R&D MIT Media Lab od Truck Sloan Bldg Academic Department/Idea Engine 9 Teams MIT Sloan School of Management 60 Corp. -MENTORSHIP Sponsors - Or Paul Dudley White Bike Path Memorial Dr -COMMUNITY -Funding -Space Memorial roe Drive Vendor Entrepreneur Support Investor Gray House

- Over three months the group decided on goals for the new innovation ecosystem
- Reviewed and prioritized almost fifty programs and attributes needed to promote growth
- Worked on models for how a system should be set up between urban based Hubs and statewide resources and support
- Created a set of budgets and priorities for the Governor to present to the Legislature as part of the Jobs Special Session
- Branded the effort Startup Connecticut

- 1. Success should be actual growth and jobs
  - Goal 1 50 high potential startups each year
  - Goal 2 75 "stage 2" firms assisted each year
- 2. Change culture of relationship between business and government
  - Agility, rapid cycles of program changes and improvement
  - Culture of experimentation and collaboration



#### **Goal 1 – Fostering high potential Start-Ups**

1. Business plan competitions 2. Accelerators (e.g., TechStars) 3. Virtual Incubators **Building Based Incubators** 4. 5. Funding (Grants, stipends, Pre-Seed investments, Angel connections, etc.) 6. Retention Efforts for growing firms 7. Sponsored research programs for idea and product development between companies and in-state schools 8. Proof of concept Center with labs--Gov't as market maker 9. IP Factory and corporate networks **Student Teams and Interns Programs** 10. 11. Mentors Network, recruitment, training and matching 12. Entrepreneurs-In-Residence 13. "Rent a CxO" and turn-key management capacity for qualifying early stage concepts and firms 14. Serial Entrepreneur Fellows – Global Attraction Program 15. Professional Services matching and pro bono bank 16. Place-making and infrastructure such as i-TOD efforts to build a critical mass and a competitive set of locations 17. Branding and image coordination 18. Key labor matching and procurement programs 19. Technology training programs (i.e. CCSU, CC) 20. State, regional and hub based networking programs

#### Goal 2 - Assisting Stage 2 firms

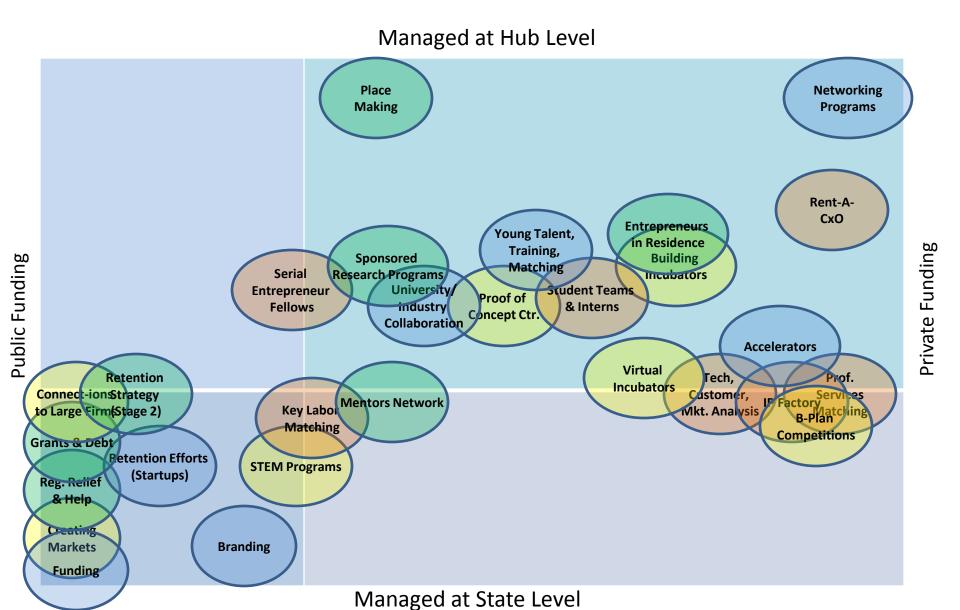
- 1. New Technology, customer needs and marketing analysis
- 2. Connections with larger firms & new supply chains
- 3. Proof of concept contracts with state agencies
- 4. Grants and debt availability
- 5. Regulatory relief and help
- 6. Young talent, Job Training and matching
- 7. Build a retention strategy and mechanism
- 8. Opening up universities to collaboration
- 9. Sponsored research programs for idea and product development between companies and in-state schools
- 10. Proof of concept Center with labs--Gov't as market maker
- 11. IP Factory and corporate networks
- 12. Student Teams and Interns Programs
- 13. Mentors Network, recruitment, training and matching
- 14. Entrepreneurs-In-Residence
- 15. "Rent a CxO" and turn-key management capacity for qualifying early stage concepts and firms
- 16. Serial Entrepreneur Fellows Global Attraction Program
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- 18. Place-making and infrastructure such as i-TOD efforts to build a critical mass and a competitive set of locations
- 19. Branding and image coordination
- 20. Key labor matching and procurement programs
- 21. Technology training programs (i.e. CCSU, CC)
- 22. State, regional and hub based networking programs

Programs were selected and then prioritized by a process of expert surveys...

### Look at all the programs in the state



## Group ranked the programs on key attributes



- Studies done, Startup Connecticut is now designing a system to promote growth and innovation. Its guiding ideas are:
  - Entrepreneurs and CEOs involved
  - All systems agile and helpful
  - Data collected and analyzed
  - A private/NGO driven process
  - Public support where needed
- Build hubs that contain various pieces of the ecosystem and share some state-wide services and programs



### Assets that contribute to the success

companies
list of existing
smaller firms

Organize efforts to help build and guide startups

Retain firms and continue to help

Rigorously set goals, track progress and analyze results

### Build a model for a new ecosystem



### Create and manage for outcomes, not activities

Minimize overhead, maximize agile, targeted and analyzed resources



Flow of Ideas > concepts > companies

Pool of resources > people > networks

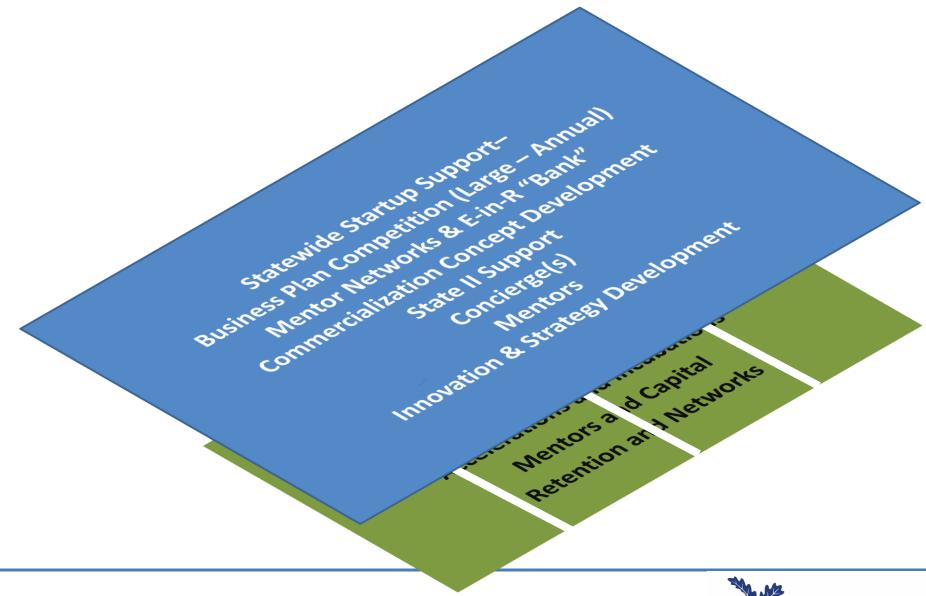






### Oversight layer of the ecosystem





### Statewide layer





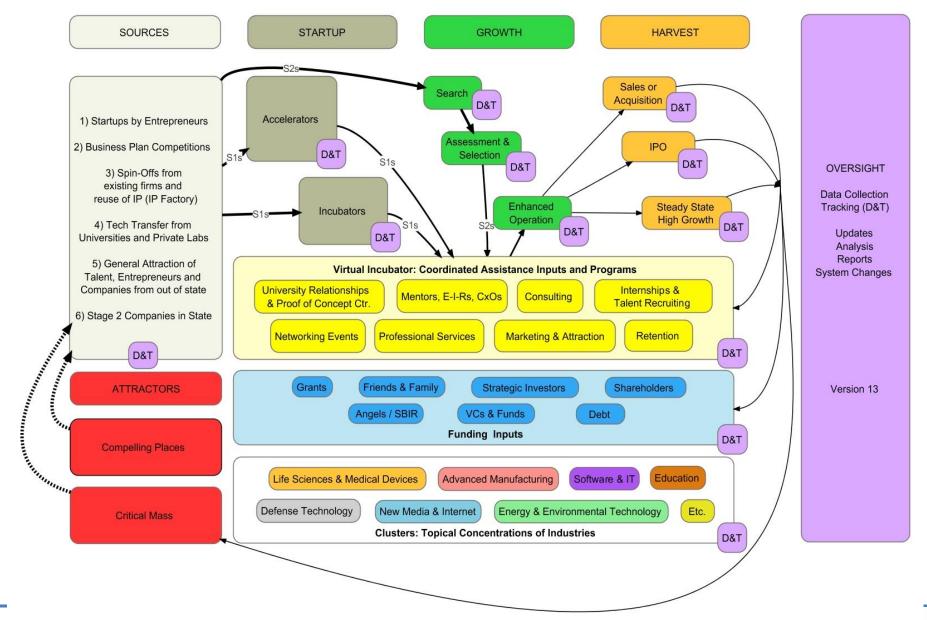
### **Hub layer**





### The geography of the system





### **Details: Innovation model blueprint**



#### SOURCES

- 1) Startups by Entrepreneurs
- 2) Business Plan Competitions
  - Spin-Offs from existing firms and reuse of IP (IP Factory)
- 4) Tech Transfer from Universities and Private Labs
- General Attraction of Talent, Entrepreneurs and Companies from out of state
- 6) Stage 2 Companies in State

D&T

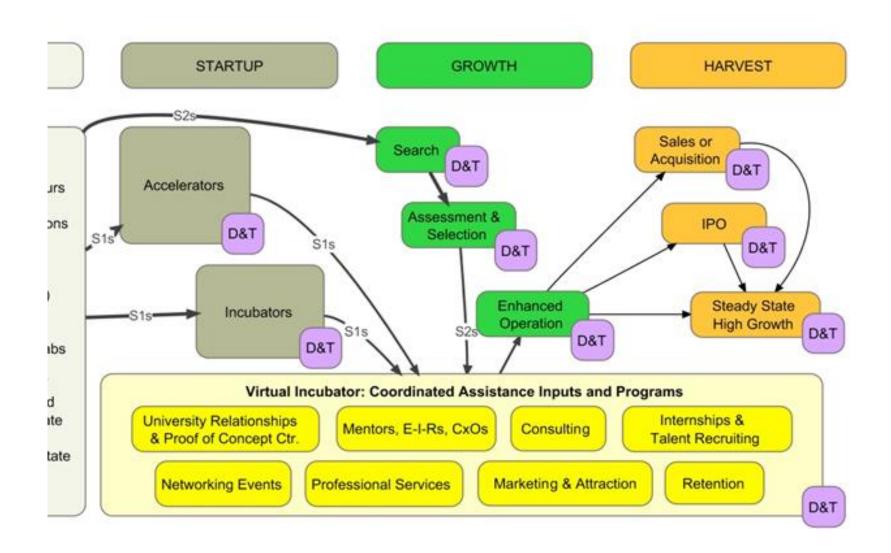
**ATTRACTORS** 

Compelling Places

With sources...

Critical Mass

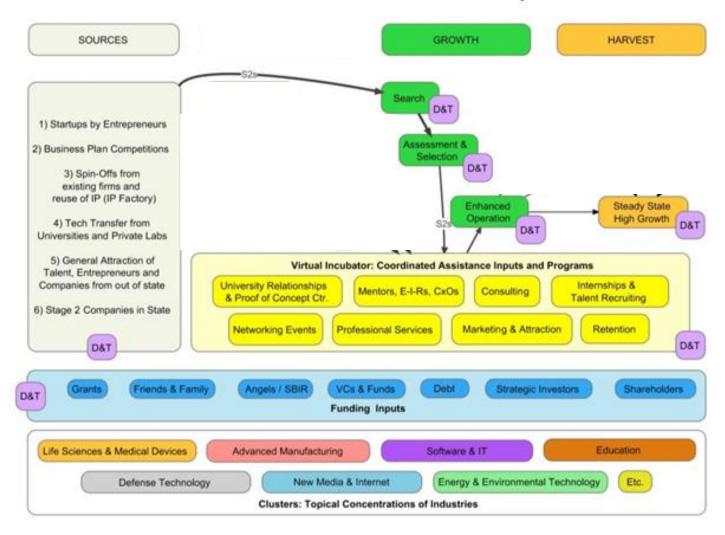




### ..and operations explained



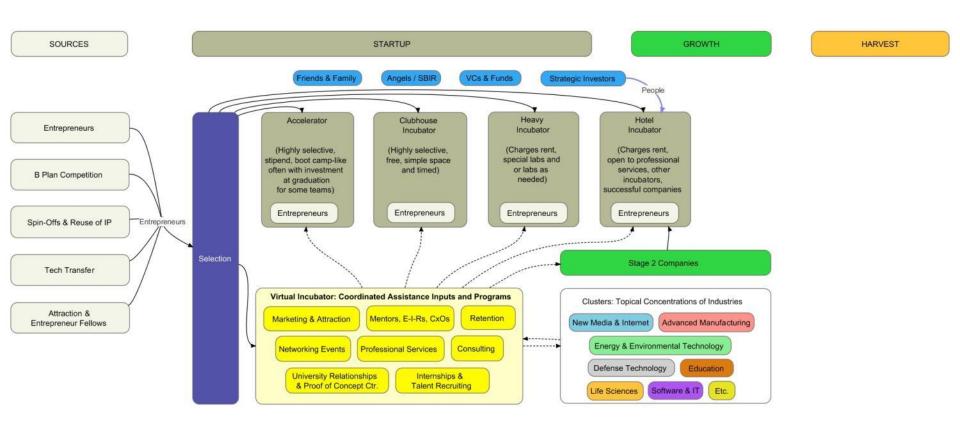
#### The Connecticut Innovation Ecosystem



### The model designed for stage 2, too



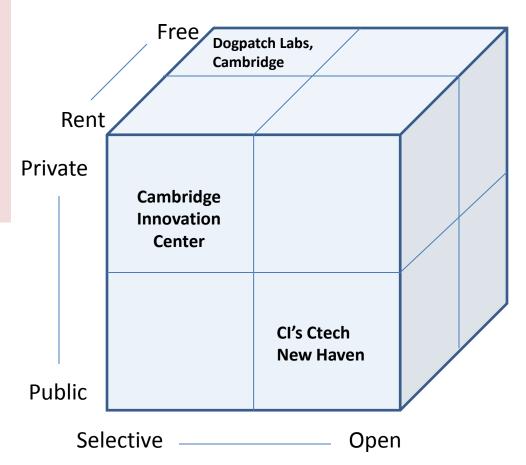
#### **Hub Model**



#### Model how the Hubs might work



An example of a model of incubators: each program area should be subjected to this kind of analysis



## Add conceptual ways to view programs



Selectivity

Open ------ Selective

Rent

Market ----- Free

Time

Untimed ----- 3 Months

Investment

No ----- Yes

Assistance

None ----- Lots

Community

Loose ----- Tight

Location

Suburban ----- downtown

Size

<10 ----->>100.

# An example of how to analyze programs



	Stage 1 (Start-up) Goals	Class 1	Class 2	Class 3	Class 4	Class 5	
Year 1 Results	Designated new High Potential Firms	50					50
	Total new Start-ups in CT	250					250
	Valuation \$1M per HiPo company	\$50					\$ 50
Year 2 Results	New & remaining High Potential Firms in Class	35	10				85
	Total new Start-ups in CT	125	250				375
	Valuation \$5M	\$ 175	\$50				\$ 225
Year 3 Results	New & remaining High Potential Fig. 1 in Cass	25	35	50			110
	Total new Start-ups in CT	65	125	250			440
	Valuation \$10M	\$ 250	\$ 175	\$50			\$ 475
Year 4 Results	New & remaining High Potential Firms in Class	18	25	35	50		128
	Total new Start-ups in CT	32	65	125	250		472
	Valuation \$20M	\$ 360	\$ 250	\$ 175	\$50		\$ 835
Year 5 Results	New & remaining High Potential Firms in Class	13	18	25	35	50	141
	Total new Start-ups in CT	16	32	65	125	250	488
	Valuation \$40M	\$ 520	\$ 360	\$ 250	\$ 175	\$50	\$1,355

Assuming 30% decline a year in high potential firms, a 50% decline in number of all start-ups and certain % increase in valuation of high potential group

# Needs details for useful multi-year goals



	Stage Two (20,000 firms 11-100 employees) Process in place to select group to highlight	Class 1	Class 2	Class 3	Class 4	Class 5	
Year 1 Results	Selected new High Potential S2 Firms	75	<b>4</b> 1				75
	New jobs 1 per company selected	75					75
Year 2 Results	New jobs 1 per company selected  Selected new High Potential S2 Firms  New jobs 2 per company selected  Selected new High Potential S2 Firms	75	75				150
	New jobs 2 per company selected	150	75				225
Year 3 Results	Selected new High Potential S2 Firms	60	75	75			210
	New jobs 3 per company selected	180	150	75			405
Year 4 Results	Selected new High Potential S2 Firms	60	60	75	75		270
	New jobs 4 per company selected	240	180	150	75		645
Year 5 Results	Selected new High Potential S2 Firms	50	60	60	75	75	320
	New jobs 4 per company selected	200	240	180	150	75	845

# Different goals for Startups & Stage 2s



Tracking
Systems
For
Startup
Connecticut
Innovation
Ecosystem

Track goals

Hubs &

programs:

objectively &

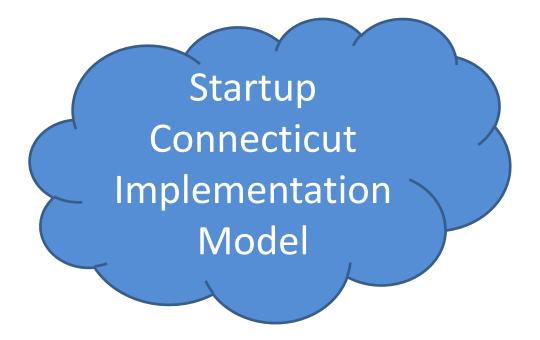
subjectively

Cluster Advisory Groups <Data Collection Business Database with, company info, NAICs and Portals, growth information by DBs and company [SOTS] Knowledge base> Statewide knowledge-Comprehensive web base (iHub) to make portal and tracking people, resources, system for incoming special skills, etc. business requests and findable when needed needs [DECD] [CI/Startup CT]

### Interconnected tracking systems



#### To come...



## One more major effort before launch



- ❖Gain approval by DECD, Governor & Legislature (accomplished)
- **❖** Refine model
- ❖ Define relationships
- Create budgets
- **❖**Solicit RFPs
- **❖** Assign roles and contracts
- ❖ January 1, 2012 begin operation of Startup Connecticut







Reaction and discussion – panel and audience

- Register to help
  - www.startupamericapartnership.org or www.startupct.org
  - Facebook, Twitter, LinkedIn groups and feeds
- Engage in your local startup community
  - Startup Weekends
  - Startup Meetups
  - Business plan competitions
- Help your fellow entrepreneurs
  - Build advisory boards for one another
  - Help companies in adjacent spaces
- Become a Startup Connecticut technology mentor

Make it not just about you and your firm

– help build the ecosystem







Is a national effort that will being resources and contacts in other states to Startup Connecticut

### What is the Startup America Partnership

- A movement by entrepreneurs, for entrepreneurs launched 1.31.11, at the White House to help inspire and celebrate entrepreneurs
- An independent, private sector entity leveraging the work of our close partners in the U.S. government, but with the fierce freedom and agility that define American Startups themselves
- An organization focused on bringing private sector together to maximize the success of America's entrepreneurs and thus maximizing America's global competitiveness.



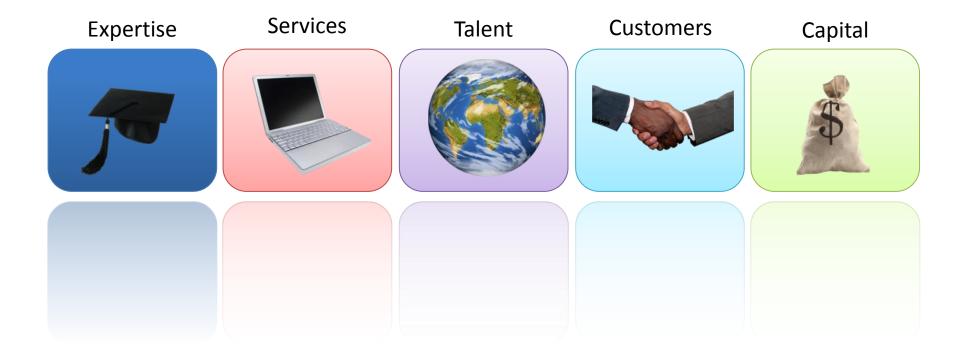
While we are taking steps to encourage the creation of new startups, our principal focus is on supporting the entrepreneurs who are leading existing firms with high-growth potential (what we call "speedups").



**Our "Customers"** 



Our principal focus will be on supporting the entrepreneurs who are leading existing firms with high-growth potential. We will do this by assembling Partner Offerings in the following areas:



#### **Capability Areas**



We are encouraging leaders in the entrepreneurship community to come together at the local and regional level and rally around the principles of Startup America – through the creation of their own *Startup cities, states or regions* 

#### **Critical Attributes**

- Entrepreneurs as Leaders
- Specialized Intermediaries
- Engagement
- Network Density
- Government
- Talent
- Big Companies
- Support Services

#### **Current Regions**











Please send us your comments to: www.Startupct.org