Driving Economic Growth Through Entrepreneurship Ecosystems

Agenda

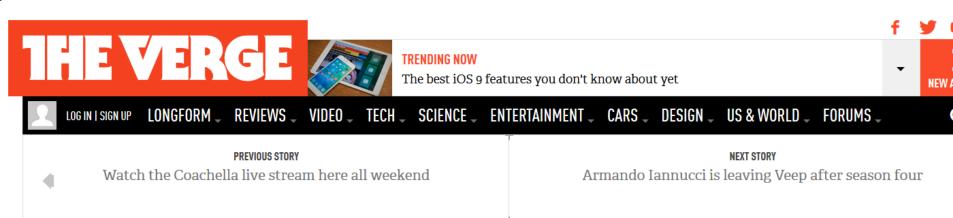
- 1. Problems with startups as entrepreneurship policy
- 2. Two case studies of ecosystem interventions
 - Manizales-Mas
 - Scale Up Milwaukee
- 3. Five action for creating Scale Up™ ecosystems

Daniel Isenberg, Ph.D. @danisen <u>disen@babson.edu</u> September 2015

Part 1: The problems with Startups as Policy

Entrepreneurship Policy Advisors





POLICY & LAW US & WORLD

New York's expensive startup initiative only created 76 jobs

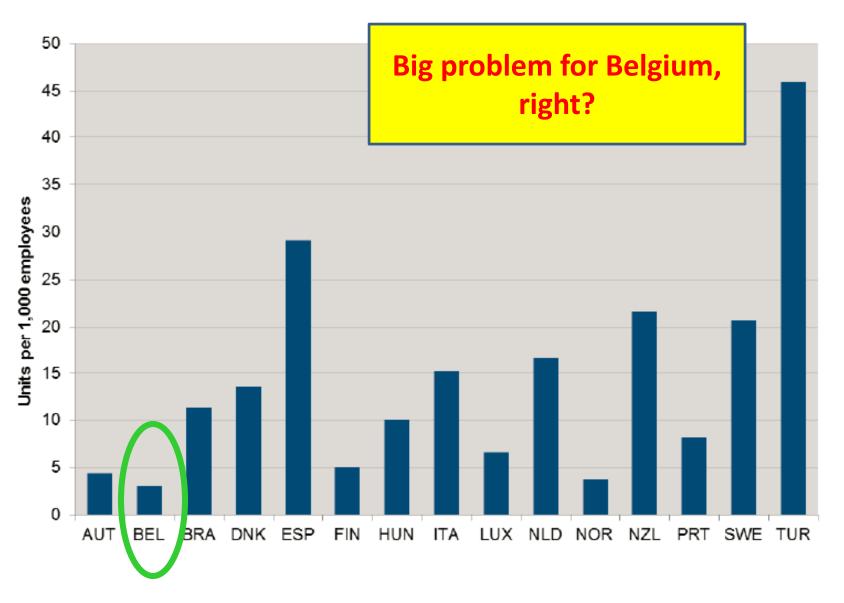
Start-Up New York promised 2,000 jobs, but only delivered 76

By Nitasha Tiku on April 10, 2015 07:30 pm ≥ Email

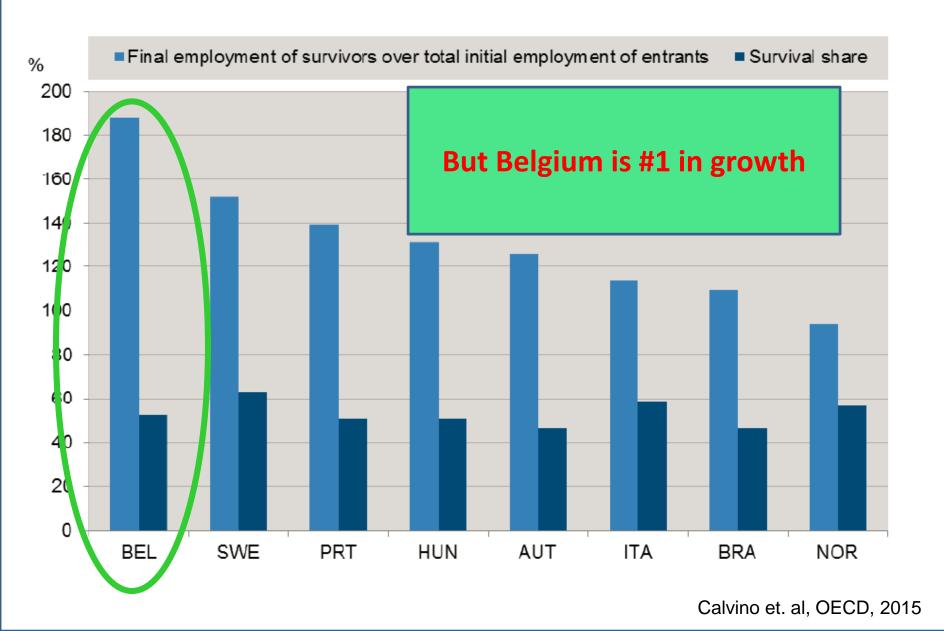
Cost = \$28 million campaign



Panel A. Start-up ratio



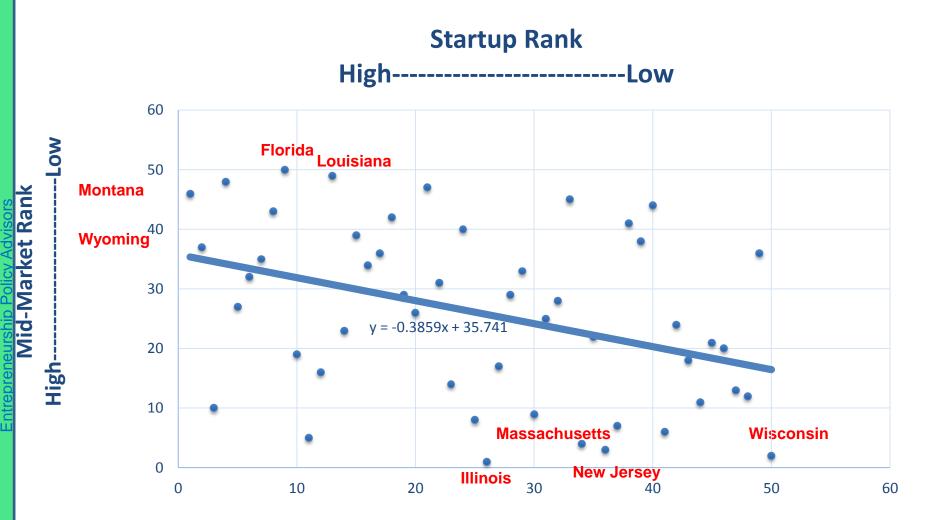
Panel B. Survival rate (after 3 years)



Panel D. Average post-entry growth 250 **And Belgian companies grow** bigger 200 Final / initial employment (%) 150 100 50 0 BEL BILA DNK ESP FIN HUN LUX NLD NOR NZL IΤΑ PRT SWE TUR

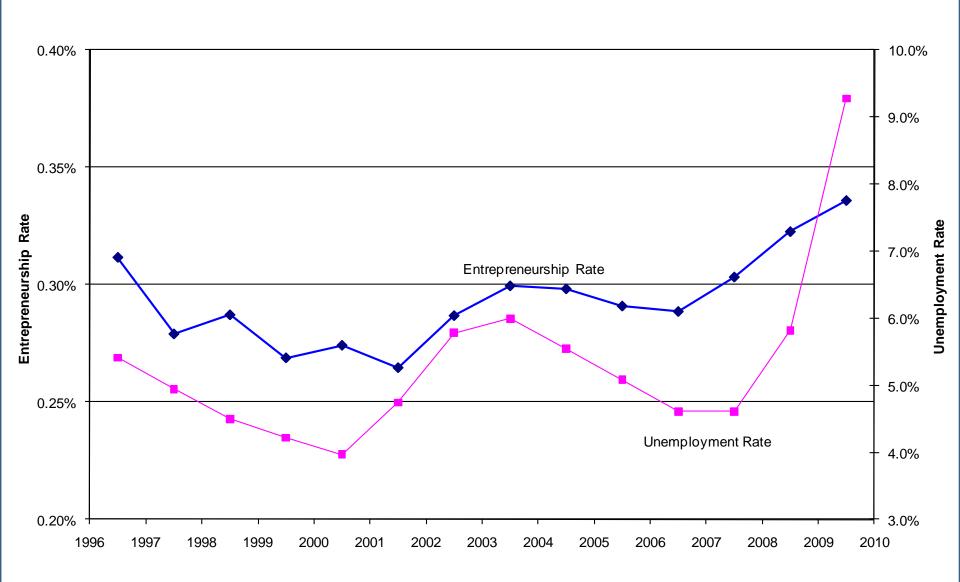
Calvino et. al, OECD, 2015

High "startup states" have fewer growth companies



VC also completely uncorrelated with "startup indices"

Figure 3: Entrepreneurship and Unemployment Rates
Current Population Survey and U.S. Bureau of Labor Statistics (1996-2009)



From R. W. Fairlie, May 2011 (UC Santa Cruz)

Self-Employed vs. GDP per Capita (log scale)

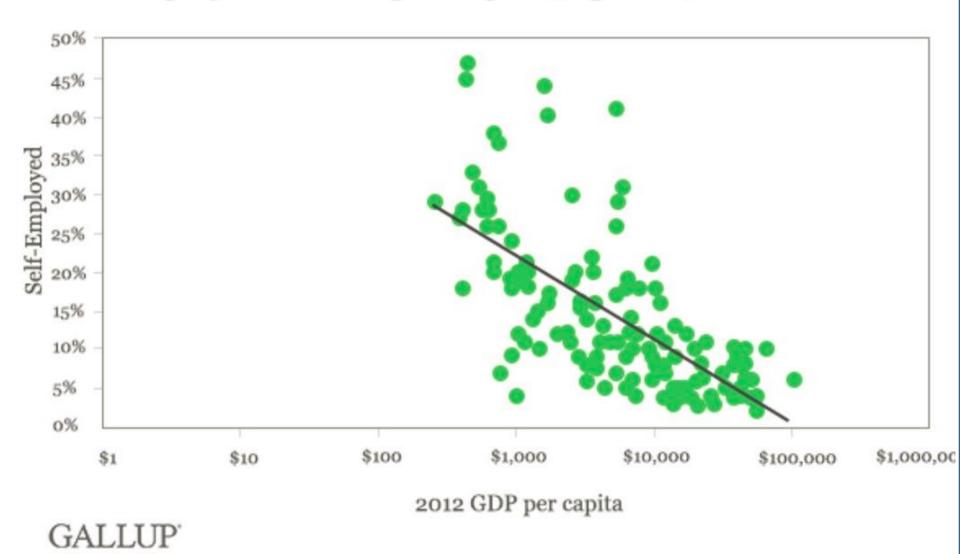
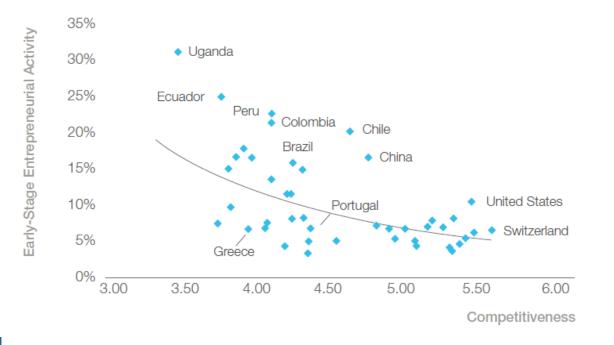
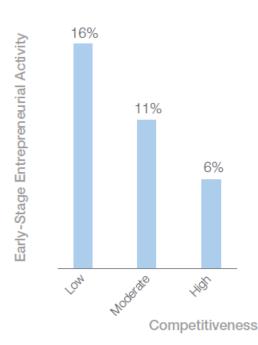




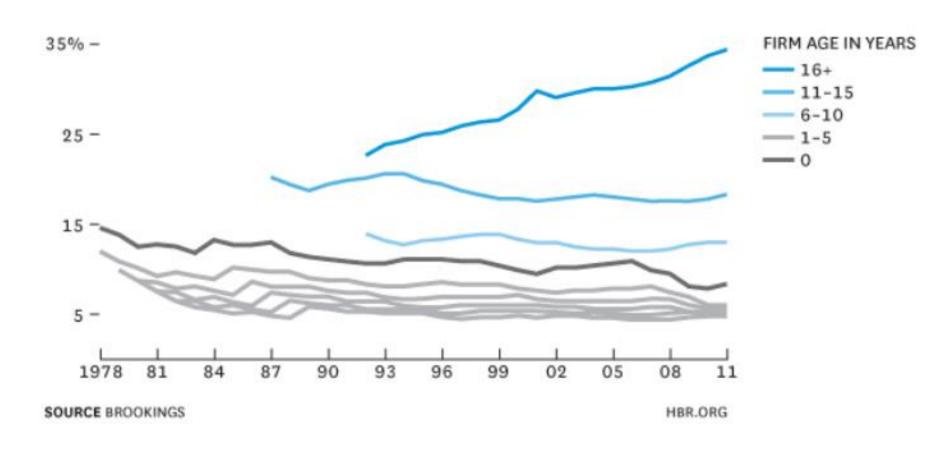
Figure 2.1.3: Distribution of early-stage entrepreneurial activity (% of population) by competitiveness (score)

Figure 2.1.4: Average rate of early-stage Eetrepreneurial activity (% of population) by competitiveness (level)





"Entrepreneurship is working! Firms scaling, surviving, getting bigger"



Or.. "America is losing its dynamism, fewer startups."

The problems with "Startups Create Jobs"

- Economic implication of startups is not what we expect
- There is no construct validity to startup measurements
 - Startup indices are negatively correlated with scale up companies
 - Startups indices are uncorrelated with venture capital
- Huge investments, meager results
- Startups shed jobs
- Very small numbers of startups create net jobs (about 5%)
- Implication: "...therefore need to have more startups" is non sequitor
- Startup jobs are low quality
- Successful startups are associated with rising inequality
- Assumption that the more startups the better
- Human capital tied up in unproductive pursuits
- Innovation and productivity are negatively correlated with age
- Methodological issues
 - Regression to the mean startups by definition create jobs
 - There are ubiquitous data anomalies (1000-person startups)
 - There is no a priori definition of startup vs. micro-enterprise
- There is significant body of empirical research showing 15-25 year old companies create jobs

In short...

Despite what you may read or hear, little persuasive evidence that increasing numbers of startups is in critical path to prosperity

The BAD NEWS.... There is huge confusion

Accelerators?

Technology transfer?

Incubators?

Microfinance?

Angel

networks?

Startups vs. life-style business vs. micro-enterprise?

Clusters?

Mentor corps?

Startup Visas?

SME Ioan guarantees?

Crowd funding?

SME policies? **Angel tax credits?**

Government VC fund of funds?



Useful to define entrepreneurship as "extraordinary growth"

"If more and more firms grow more and more rapidly in a specific region, and more rapidly in a specific region." will grow."

Part 2: Manizales-Mas and Scale Up Milwaukee

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First, imagine a regional economy of 1-3 million people, and imagine:

- Dozens of firms increasing growth rates by 25-50%
- Manufacturers expanding facilities
- Local ventures winning first export contracts
- Banks increasing their loan portfolios,
- Equity investors making more investments
- Universities offering new courses on growth
- Media writing new stories about local firms growing
- VIPs from around the world coming to see the change
- There is "growth in the air"
- Growth becomes infectious, spirals





First, imagine a regional e Babson Entrepreneurship Ecosystem Project Babson Entrepreneurship Ecosystem Project
How to sustainably in the Transconding Sustainably Susta

ny of 1-





BEEP Case Example

Bahson Entrepreneurship Ecosystem Project

Manizales

cree + crea + crece +

Manizales Colombia

400,000 people
Cafeteros region
Pioneer founded 160 years ago
Secure
Newly elected mayor
Collaborative culture
Strong arts and education
7 universities





High unemployment Emphasis on FDI High brain drain Natural disasters Low employability Limited ambitions



100% 1-year jump in "total entrepreneurs (w MIT and Senior mentors, 179 hours (w MIT and Senior mentors, 179 hours) 38 active senior mentors, 179 hours (w MIT support)
National attention ->investors coming from Base 179 hours (w Mit support) 55% average growth per company 530 new employees 74 new employees/Scalerator National attention ->investors coming from Bogota 171 new activities, meetups, pitches, investments New bank financings, equity investors 18,800 people participating 868 new business customers (21.7 per company) Culture has changed: ambition and success are good New exports (5 for first time)

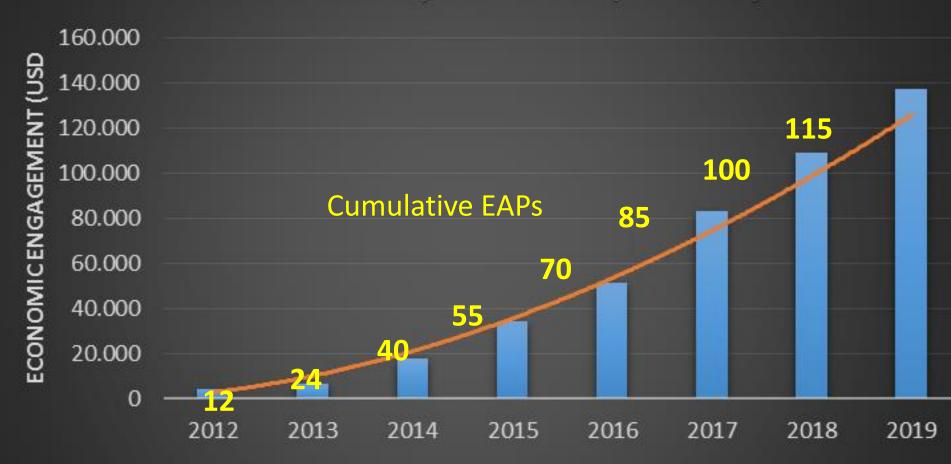
In Colombia, Manizales, best known for its coffee and its schools, has registered higher levels of social progress than the capital

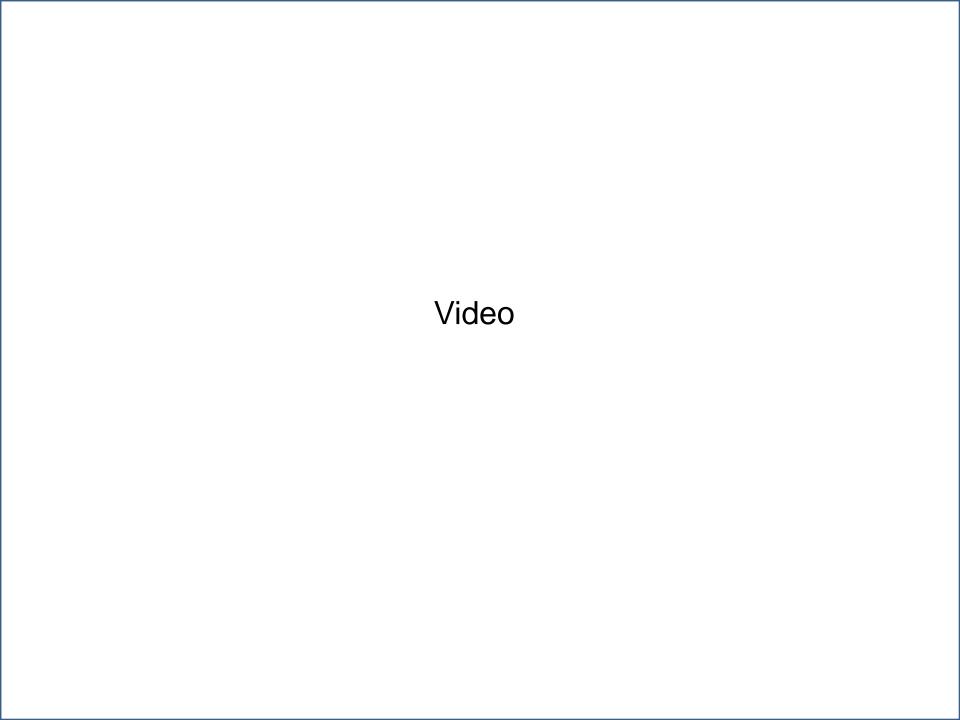
"Manizales Colombia has registered higher levels of social progress than Bogota, despite Bogota's 1.3x income...and higher income, decreasing inequality, decreasing Profes**poverty.**"Porter

Chairman of the Advisory Board, Social Progress Imperative September 4, 2015

September 4, 2015

Economic Activity Pro Forma (For EAPs)







A Growth-Obsessed & Growth-Enabled Region



\$65.1 Million

2014 Total revenues of Scalerator participants

27

Companies graduated from Scalerator since its inception

25%

Median growth planned for 2015 by Scalerator participants

41%

Average growth planned for 2015 by Scalerator participants

41

Actual hires by first class since completion of Scalerator

224

Number of planned 2015 hires by Scalerator participants

2,365

Total social media followers of Scale Up Milwaukee

Over 200 Million

Media impressions since the start of Scale Up Milwaukee

464

New customers acquired by Scalerator participants since the start of Scalerator

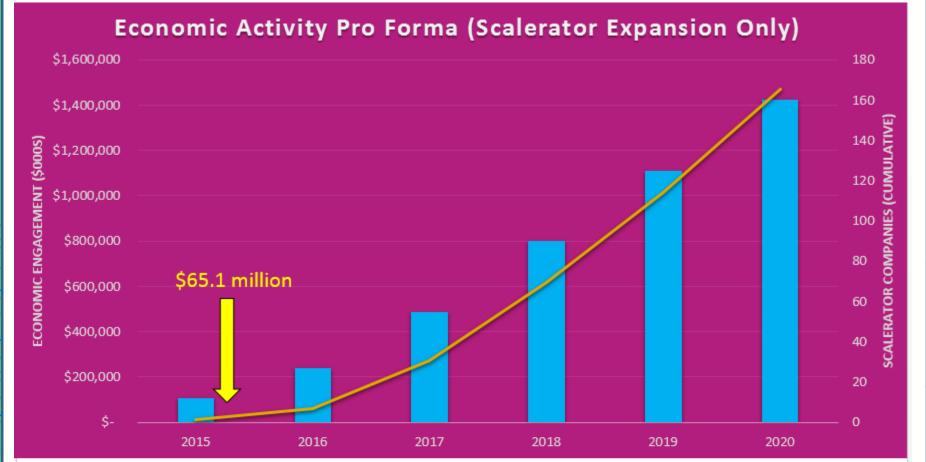
41+

Individual local companies engaged with Mayor Barrett through the Mayor's Growth Tour





Babson Entrepreneurshir



Economic engagement

SCALE UP MILWAUKEE

























































Milwaukee is impacting global dialog



World politics

Business & finan

Schumpeter

The scale-up nation

Israel is trying to turn its Davids into Goliaths

Dec 13th 2014 | From the print edition



jumpstart launches program to help scale-up companies take it to the next level

KARIN CONNELLY | MONDAY, DECEMBER 08, 2014





SBA Contract Opportunity for ScaleUp America Initiative













What is going on?



Babson Entrepreneurship
Babson Entrepreneurship

It is method, not magic.





Part 3: Five Replicable Action Principles for Fostering Sustainable Scale Up™ Ecosystems

Entrepreneurship Policy Advisors





"FIVE P'S" FIVE (OF MANY) PRACTICAL PRINCIPLES ON HOW TO DRIVE RAPID ECONOMIC GROWTH



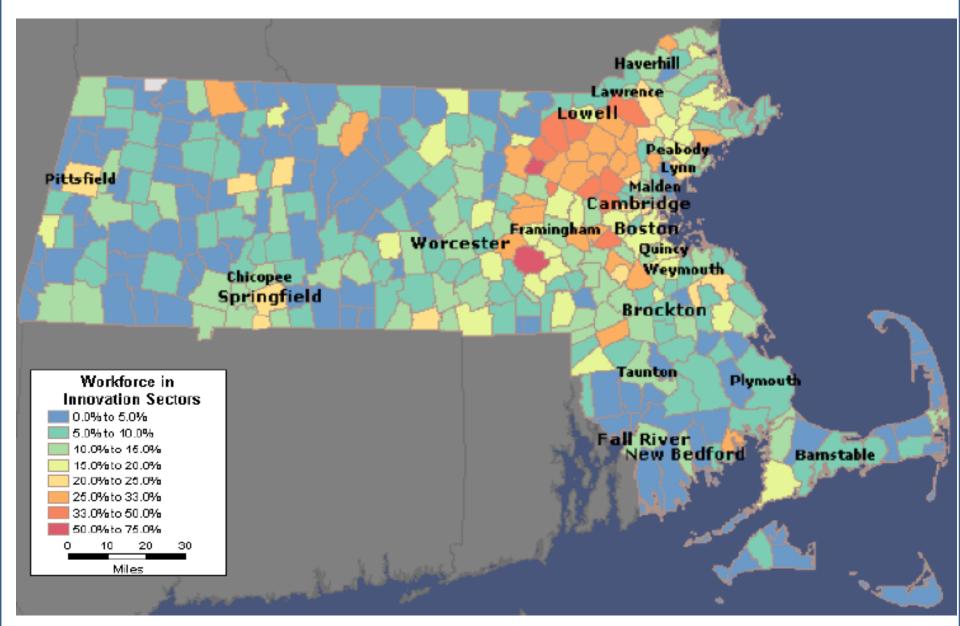
Five "P" Practical Principles

- Place: Intervene in specific regions (subnational)
- High Potential: Focus on ventures with revenues rather than startups, or micro-enterprises, or conglomerates
- People: Get 15-20 most influential local leaders from different sectors of ecosystem for training, alignment, and planning
- Purpose: Set specific objectives for firm growth
- Practicality: Achieve and broadly communicate "quick wins"

Five "P" Practical Principles

Place: Choose a specific region, not a country

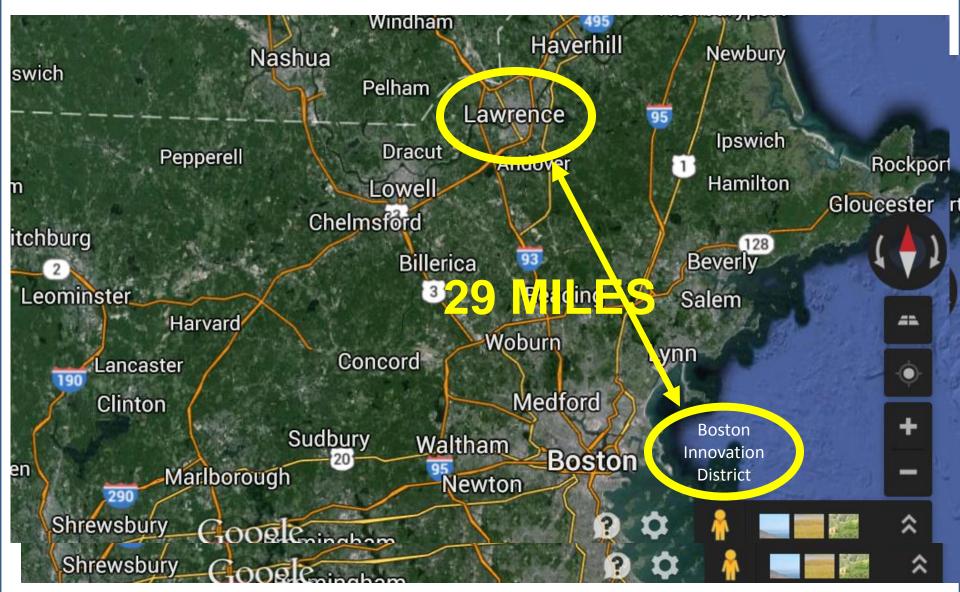
Entrepreneurship ecosystems are "hyper-local"

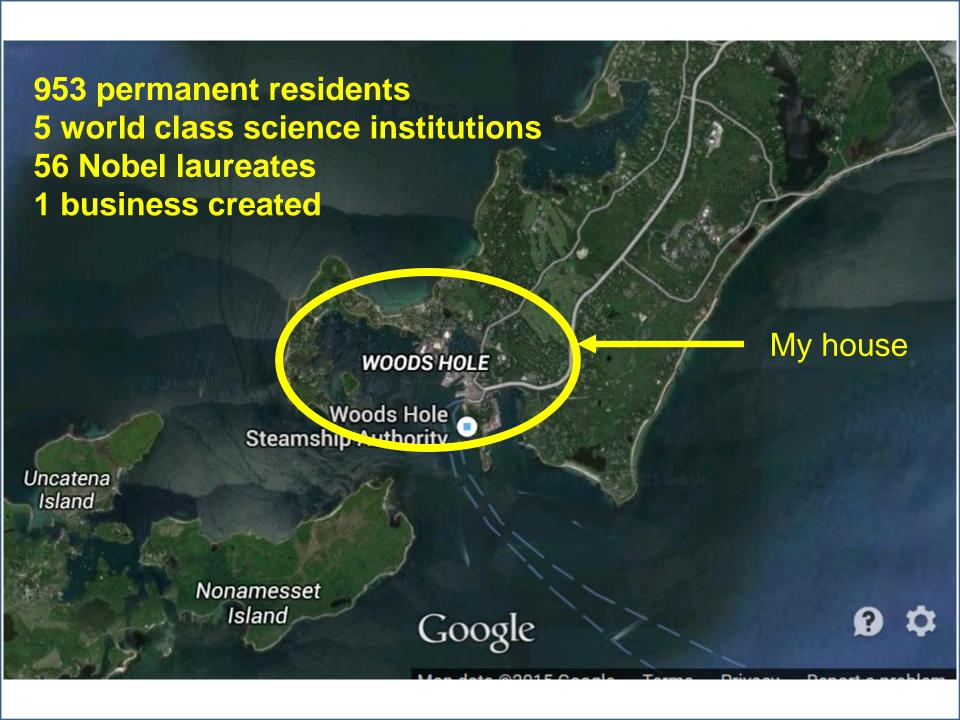


Entrepreneurship ecosystems are "hyper-local"



Entrepreneurship ecosystems are "hyper-local"







Importance of specificity

Nations are not usually good units of analysis

Variability within countries Is greater than between

Need local actors to coordinate

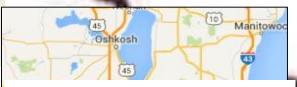
.5 million – 3 million population within 1 hour drive (very approximately)

Five practical principles

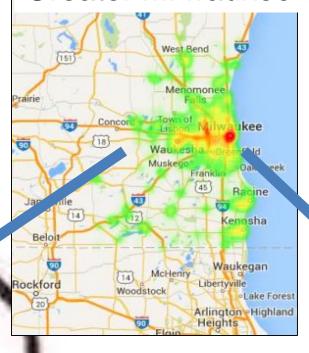
- Place: Choose a specific region, usually not a country
- High Potential: Focus on existing ventures with revenues rather than startups, micro-enterprises, small businesses or large companies

Companies between \$1-\$10 million revenues

19, 232 companies



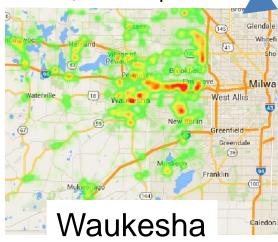
Greater Milwaukee



7,963 companies



5,264 companies



Vast majority of initiatives are focused on new venture creation (startups)

- Incubators
- Angel networks
- Startup movements (Startup Amplica etc.)
- Equity and other crowdfuncting
- Small business incention
- Coaching, mentoring
- Tax credits
- Government venture fund creation

But Startup and Scale Up^(SM) are very different*

- Start
 - Goal: High number of new firms
 - Measure: High survival rates
 - Challenge: Access to funds

- Scale
 - Goal: Low number of new firms
 - Measure: High growth rates
 - Challenge: Access to talent

^{*}Shane, S. (2009) Why encouraging more people to become entrepreneurs is bad public policy, *Small Business Economics*, 33, pp. 141-149.





Scale ups (high growth) create jobs

Middle Market Companies Playing a Vital Role in the U.S. Economy, According to New Research from American Express and Dun & Bradstreet

First-Ever Middle Market Power Index Finds Mid-Sized Companies Created 92% of Net New Jobs Since 2008

NEW YORK, April 14, 2015 -- ivilogie market companies are leading job growth, employing more than 50 million people and making a contribution of nearly \$6.2 trillion to

Scale Up(SM)- High growth firms

- Neglected in entrepreneurship policy
- Have highest spillovers (inspiration, capital, taxes, exertise)
- Have already been selected naturally
- Can show new growth in 6-12 months
- 10-20% of existing stock are able to kick start growth
- Capital efficient use of funds

"Law of Small Numbers"



 q^3

Five practical principles

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Domains of the Entrepreneurship Ecosystem

Early Customers

- Early adopters for proof-ofconcept
- · Expertise in productizing
- Reference customer
- First reviews
- Distribution channels

Networks

- Entrepreneur's networks
- Diaspora networks
- Multinational corporations

Labor

- · Skilled and unskilled
- · Serial entrepreneurs
- Later generation family

Educational Institutions

- General degrees (professional and academic)
- Specific entrepreneurship training

Government

Institutions

- Unequivocal support
- Social legitimacy

Leadership

- Open door for advocate
- Entrepreneurship strategyUrgency, crisis and challenge

e.g. Investment, support
• Financial support
e.g. for R&D, jump start funds

Finance

Culture

- Regulatory framework Incentives
 - e.g. Tax benefits

- · Research institutes
- Venture-friendly legislation
- e.g. Bankruptcy, contract enforcement, property rights, and labor

Financial Capital

- Micro-loans
- Angel investors, friends and family
- Zero-stage venture capital
- Venture capital funds
- Private equity
- · Public capital markets
- Debt

Markets

Entrepreneurship

Policy

Human Capital

Supports

Success Stories

- Visible successes
 - Wealth generation for founders
- International reputation

Societal norms

- · Tolerance of risk, mistakes, failure
- Innovation, creativity, experimentation
- · Social status of entrepreneur
- · Wealth creation
- Ambition, drive, hunger

Infrastructure

- Telecommunications
- Transportation & logistics
- Energy
- · Zones, incubators, co-working, clusters

Support professions

- Legal
- Accounting
- Investment bankers
- · Technical experts, advisors

Non-Government Institutions

- Entrepreneurship promotion in non-profits
- · Business plan contests
- Conferences
- Entrepreneur-friendly associations

© 2009, 2010, 2011 Daniel Isenberg

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The problem with entrepreneurship ecosystems

News | September 8, 2015

Intrepreneurship Policy Advisors











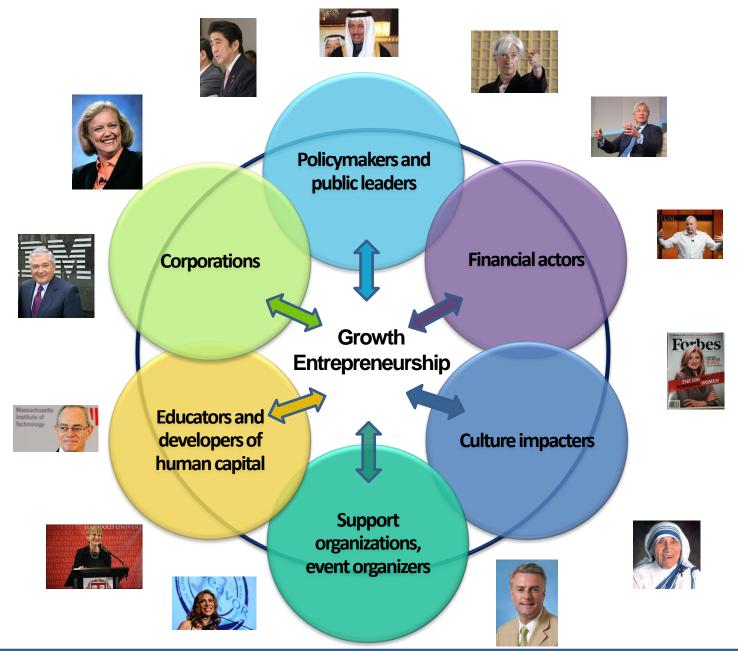


Ontario Government, University Of **Toronto, And MaRS Secure Johnson & Johnson Innovation, JLABS For Toronto –** First JLABS Incubator Outside Of United States

"Research and innovation are fundamental to the mission of the University of Toronto," said Dr. Meric S. Gertler, President, University of Toronto. "We host a vibrant entrepreneurial ecosystem featuring nine campus-led accelerators under the umbrella of our Banting & Best Centre for Innovation and Entrepreneurship. The addition of JLABS to this ecosystem will further propel the creation of new companies and new jobs, and ultimately new healthcare solutions that will benefit individuals and our society for years to come."

"Toronto is home to a vibrant and prolific healthcare and life sciences community led by academic hospitals, world-class research institutions, top scientists, and a strong start-up ecosystem. For these reasons, Toronto is a

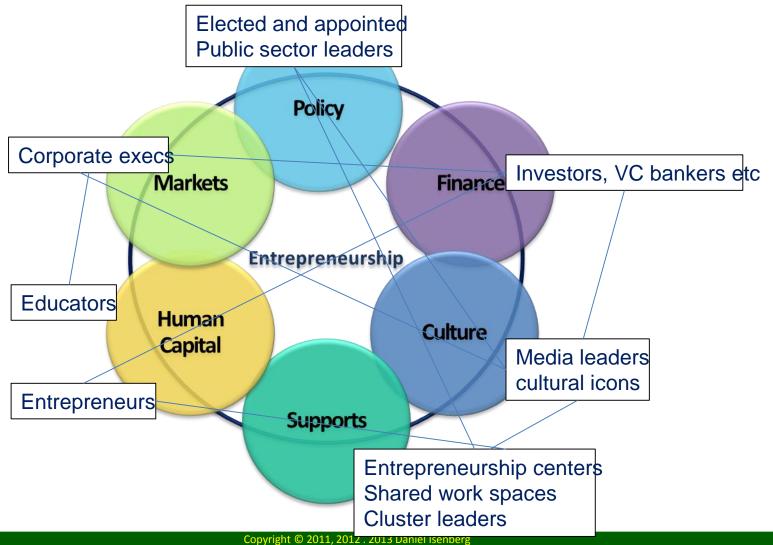
Each Ecosystem Domain has Official or Unofficial Leaders







Fostering Entrepreneurship Ecosystems You need a committed coalition of local leaders



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Multinationals

Large domestics, families

Government

Diaspora networks

There are actors

Elected officials

Career government

Private sector leaders

Policy

Bankers

Private investors

Private equity investors

Markets

Finance

Academics

School administrators

Experienced entrepreneurs

Experienced mentors, directors

Entrepreneurs

Human

Capital

Supports

Foundation heads

PPP heads

Association directors

Service professionals

Culture

Cultural icons

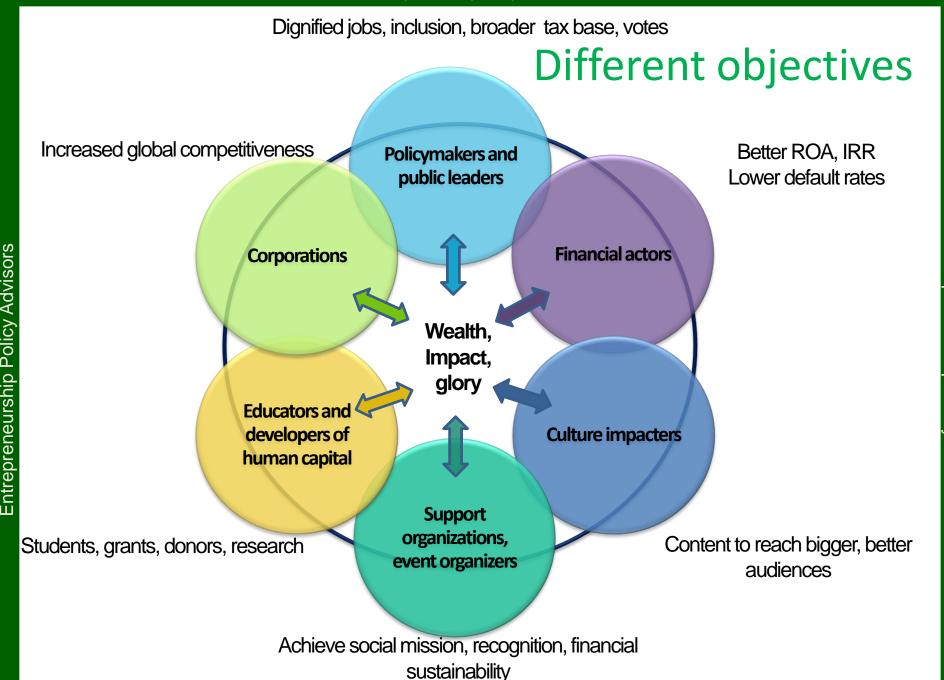
Media representatives

Successful entrepreneurs



/29/2015

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Five practical principles

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- People. Get 15-20 most influential local leaders from different sectors of ecosystem for education, alignment, and planning
- Purpose. Set specific objectives for how many firms need to growth more rapidly

Supports

Doctors per 1000 people

Highest (4-7.7):

Qatar (7.7)

Cuba (6.7)

Greece (6.2)

Austria (4.8)

Russia (4.3)

Georgia (4.2)

Spain (4.0)

Median: 1.5

Max: 7.7

Middle range (~2.5):

UK

New Zealand

Japan (2.3)

United States (2.4)

Germany (3.8)

Belgium (3.0)

OECD (2.7, 2.9*)

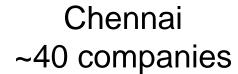
High income OECD (2.9)

High income other (3.6)

- You need doctors
- You don't need very many
- More is not necessarily better
- There is natural limit

For example

Lagos ~50 companies





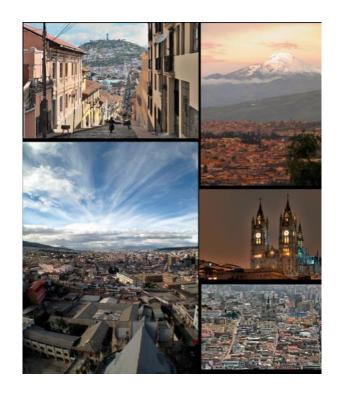


For example

Guayquil ~25 companies







Athens ~30 companies



Patras



Thessaloniki ~8 companies



CALE UP MILWAUKEE

Imagine..

Newly Growing companies by 2020

AND

A Region that Fosters Growth by Building a World-Renown Entrepreneurship Ecosystem

Five practical principles

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- Practicality. Achieve "quick wins"

Examples of quick wins (6-12 months)

- Scalerator Program for \$2-\$10 mio revenue companies
- Customized Driving Economic Growth Workshop
- Mayor's Entrepreneurship Programming
- CEO Forum (for larger local corporations)
- Multi-stakeholder Roundtables
- Local Case Writing
- ScaleCorps program for executives and entrepreneurs (not startups)
- Loan Officer Training

Phase 1

- DEG workshop

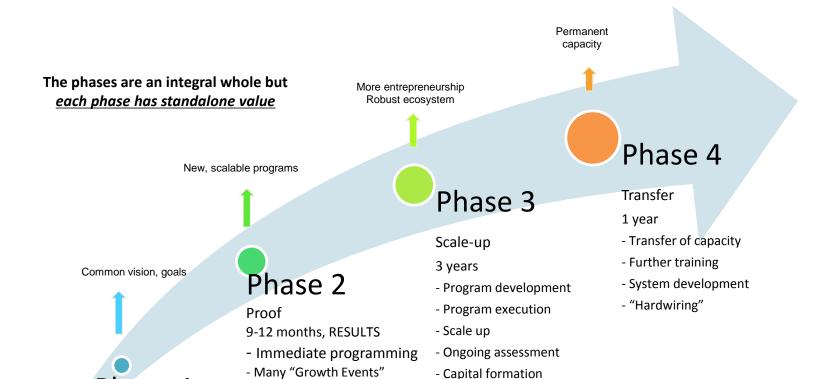
Public briefingsProject planning

- Stakeholder roundtables

Activation

3-4 months

Scaling up BEEP (5-years)



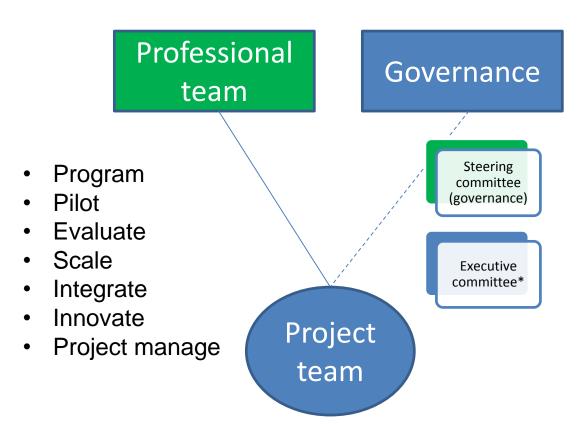
Stakeholders alignedTangible benefits to all

- Missioning

- Branding

Structure of a BEEP program



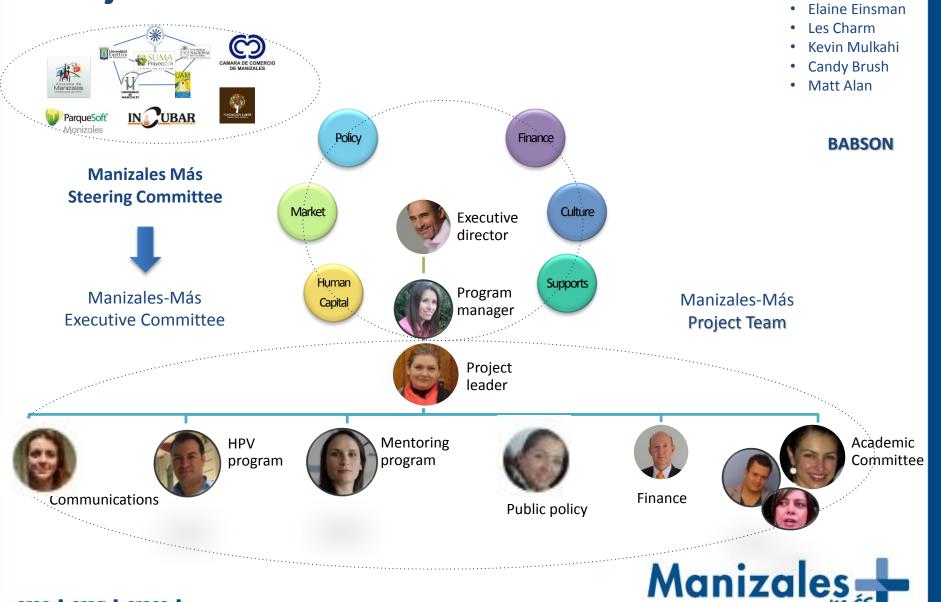


Programming in all Six domains

- · Babson responsible for recruiting, training, managing, professional decision making
- Steering committee's formal responsibilities are termination and approval of changes in deliverables
- Steering Committee <u>vests</u> formal authority in an Executive Committee

Project Governance and Structure

cree + crea + crece +



Vini Omyemah

Mary Gale

PROFESSIONAL TEAM

Daniel Isenberg













Kevin Mulcahy



Elaine Eisenman



Matt Allen



Mary Gale



Les Charm

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Takeaways

- Rapid economic growth is possible if
- You conceptualize entrepreneurship as growth
- You convene a group of leaders, different sectors
- From a specific location
- Set specific growth objectives
- Work quickly to generate evidence of progress

The public cost of a BEEP program in a city is <\$1 dollar per resident per year for five years.

