Case Study
Cluster: Education
Policy Initiative: Greentown Labs

Preliminary Insights from Cluster-led Initiative Analysis
Working Package No. 2 Cluster Policy and Spatial Planning

Gianmarco Cantafio, PAU
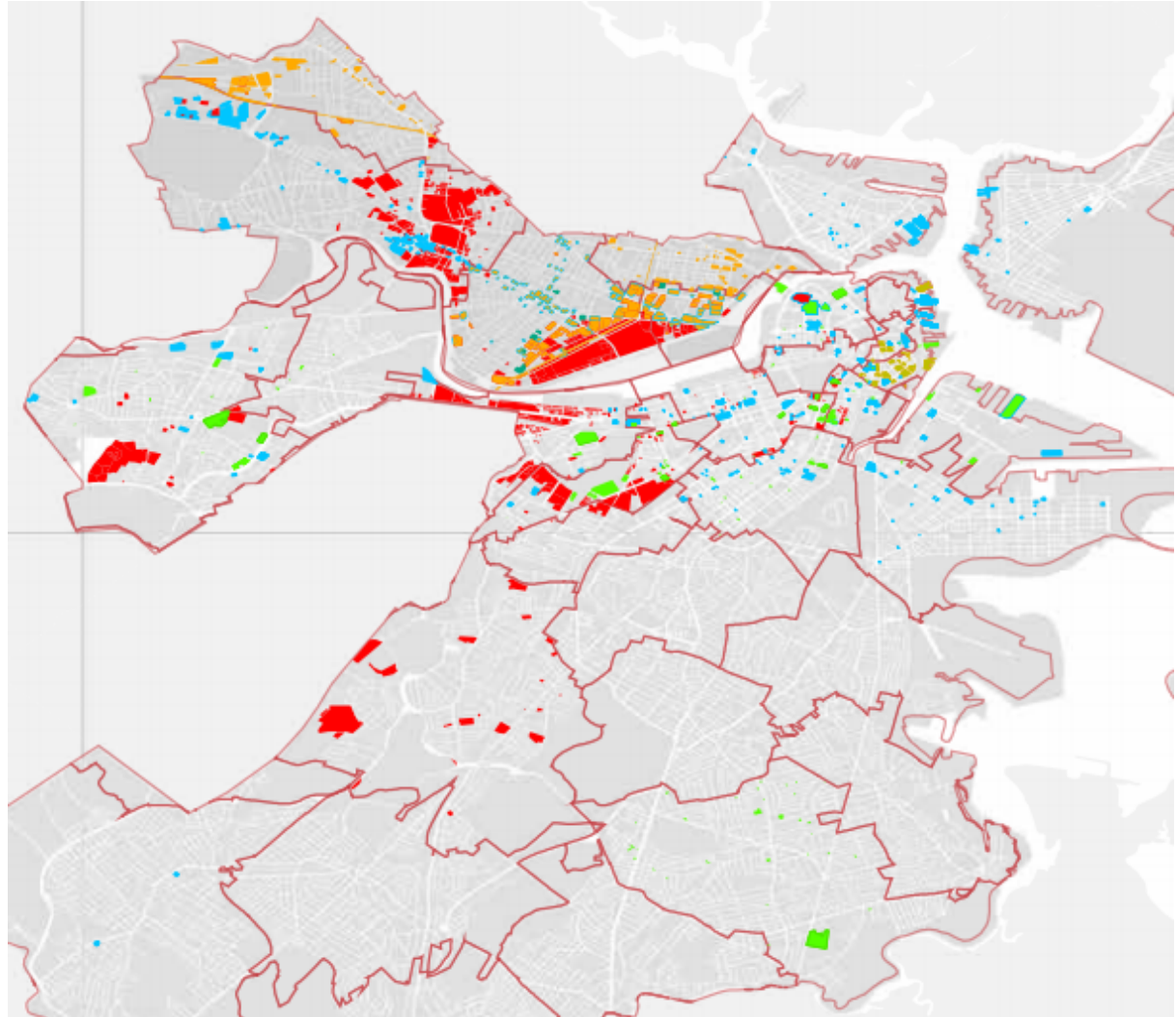Almona Tani, FOCUS
Andrea Simone, FOCUS

06.06.2016
Northeastern University, Boston, MA, USA
Department of Economics

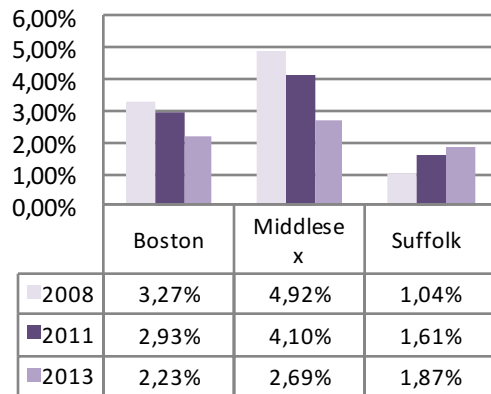Created with Microsoft PowerPoint presentation software and Microsoft ClipArt

Cluster Localization

Urban Level Cluster Localisation
NAICS - Land Use Association
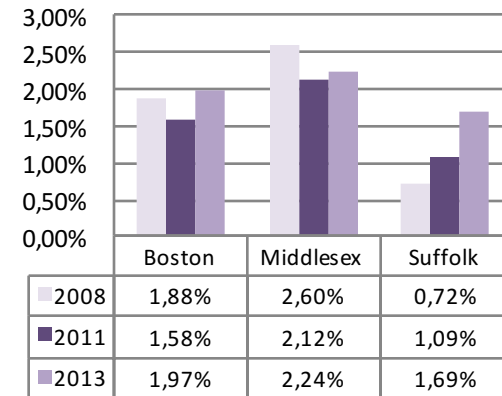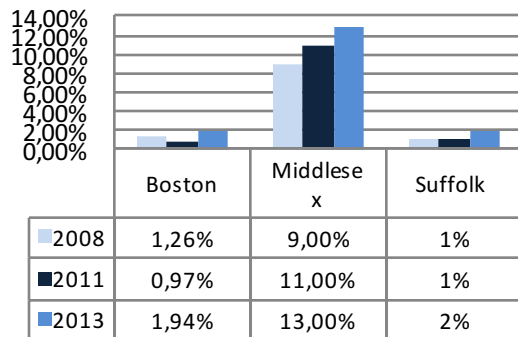**City of Cambridge and Boston (MA)**
2013

Cluster

- Business Services Cluster
- Education
- Fishing
- Insurance
- Marketing
- Medical Devices
- Performing Arts

Performance

Employment growth

	Boston	Middlesex	Suffolk
2008	3,27%	4,92%	1,04%
2011	2,93%	4,10%	1,61%
2013	2,23%	2,69%	1,87%

Establishment growth

	Boston	Middlesex	Suffolk
2008	1,88%	2,60%	0,72%
2011	1,58%	2,12%	1,09%
2013	1,97%	2,24%	1,69%

Specialization

Patentcount growth

	Boston	Middlesex	Suffolk
2008	1,26%	9,00%	1%
2011	0,97%	11,00%	1%
2013	1,94%	13,00%	2%

Establishment

Establishment

	Boston	Middlesex	Suffolk
2008	1787,00	941	334
2011	1819,00	956	358
2013	1986,00	1015	400
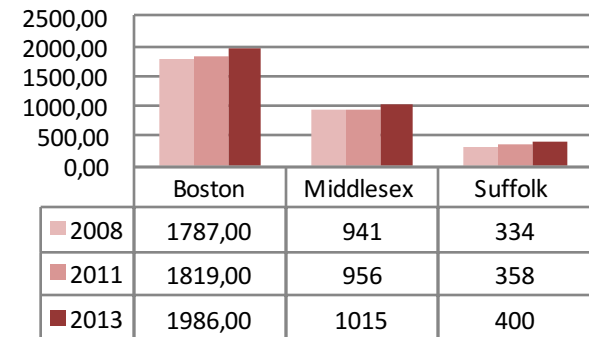
Cluster structure
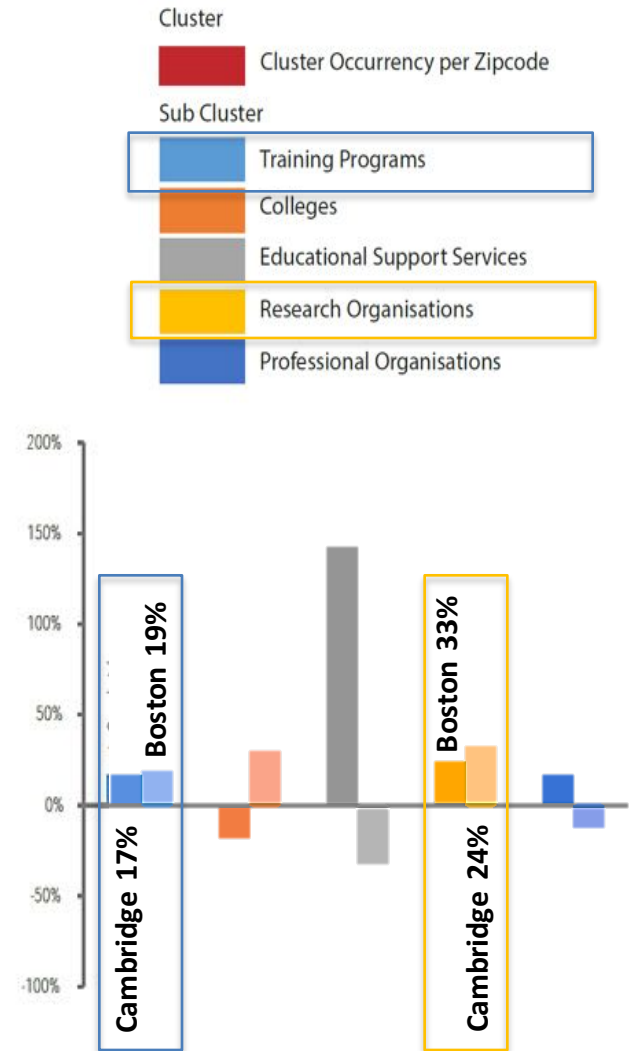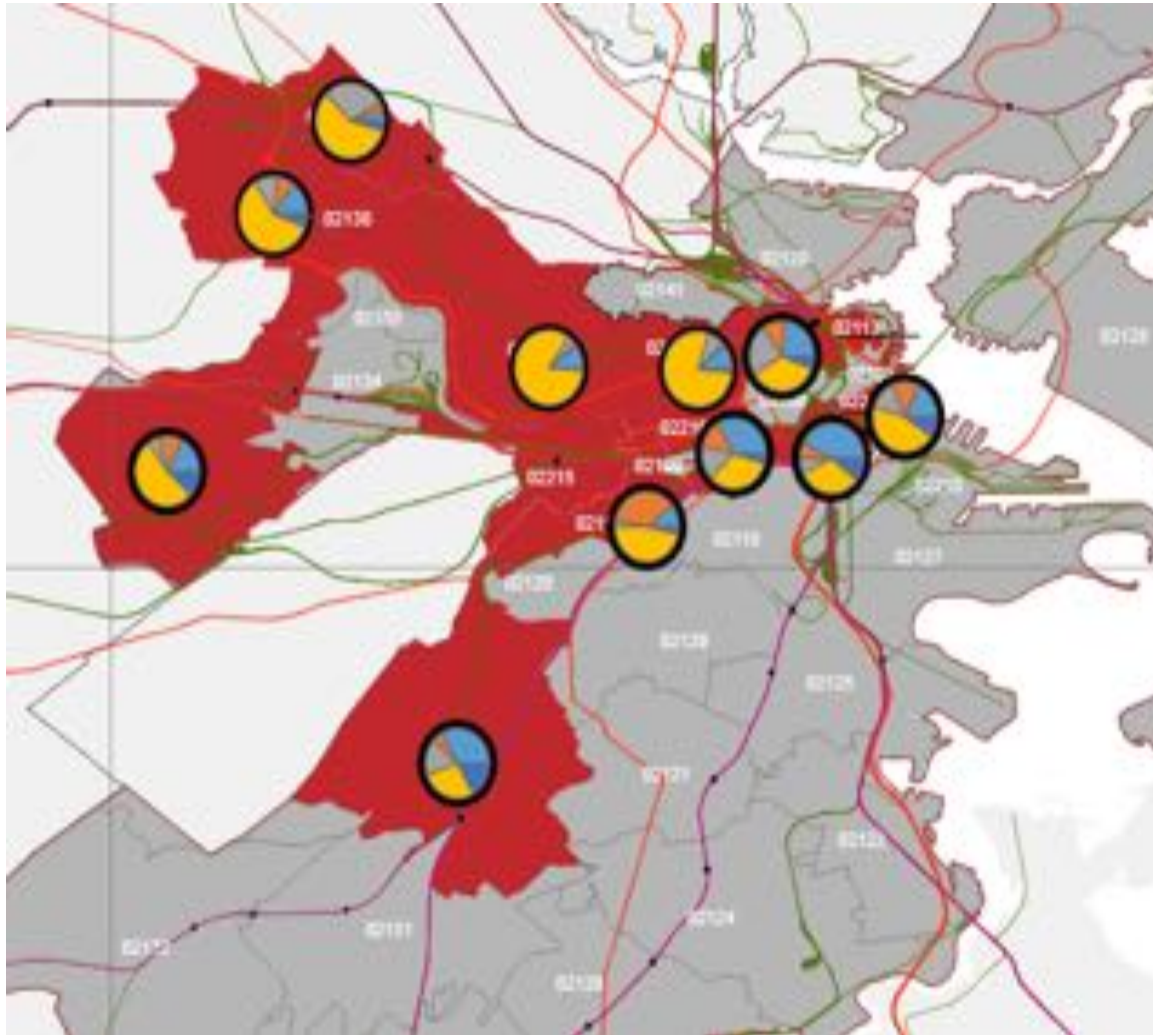
First findings on spatial oriented approach at urban level

Education and Knowledge Creation Cluster
Employment by County 2008
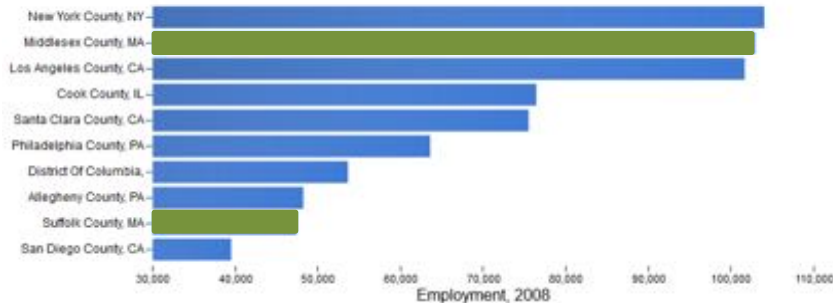
Training Program – Middelsex
N° of Establishment

Education and Knowledge Creation Cluster
Employment by County 2013

Research Org. - Middlesex
N° of Establishment
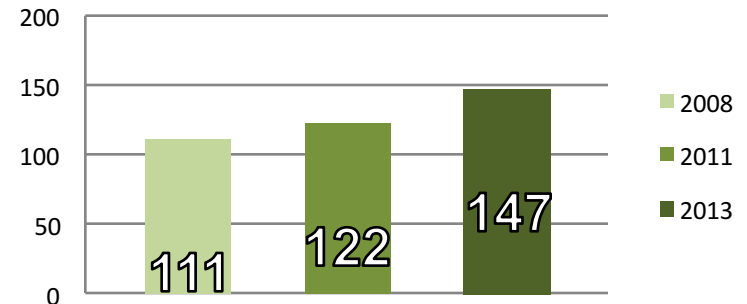
First findings on spatial oriented approach at urban level

Number of Establihment in Cambridge
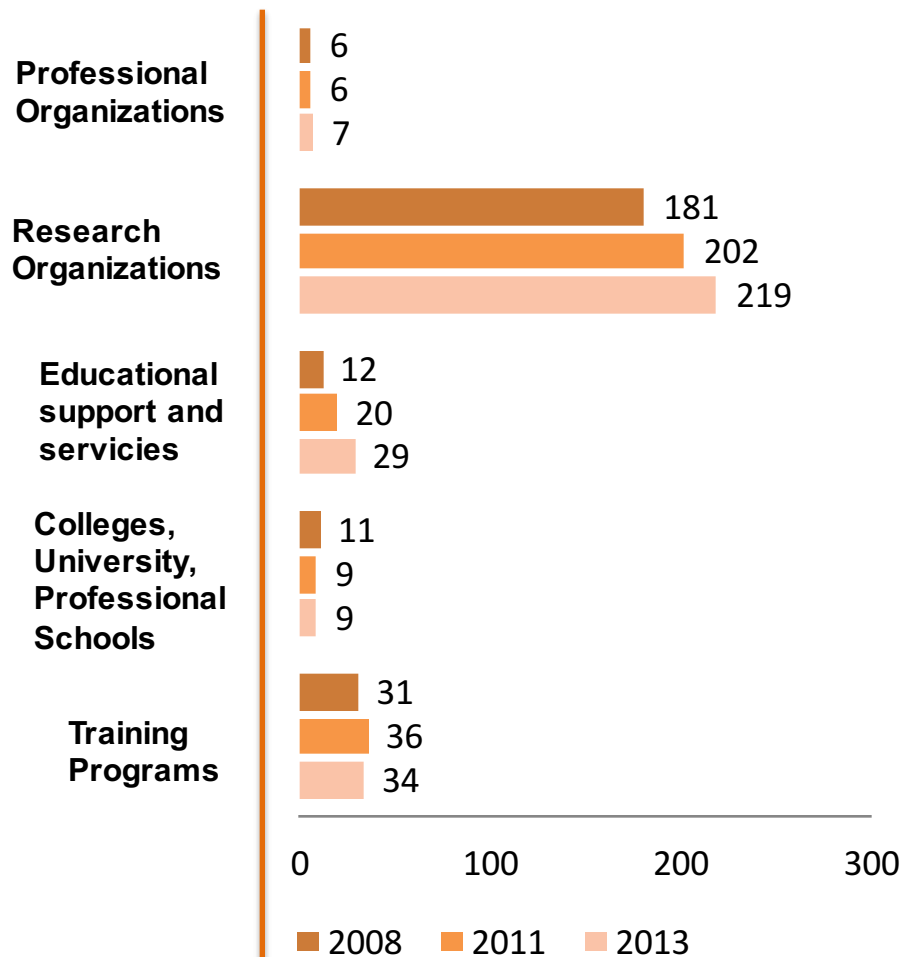
Number of Establihment in Boston
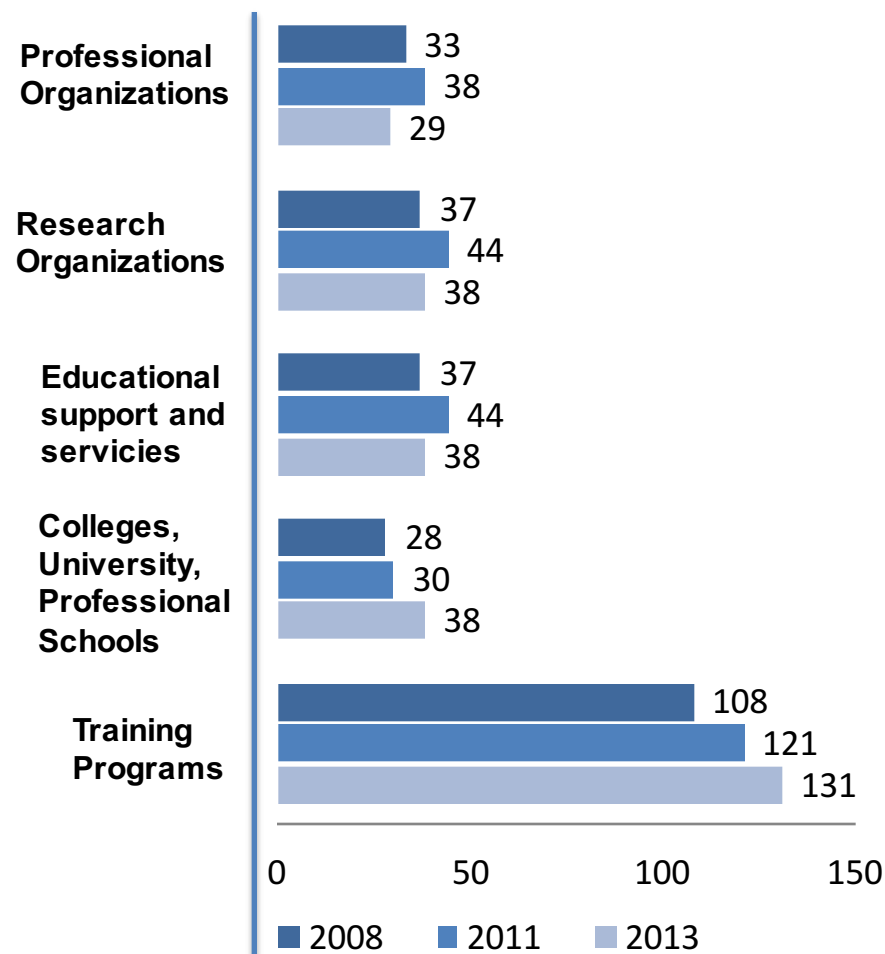
Greentown Labs Localization

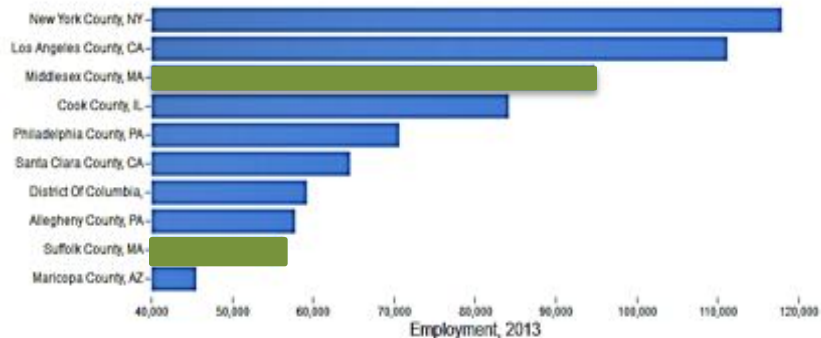- **2011**-Started as a space to build prototypes near MIT.

- **2012**-Moved to BID. Within 6 months from 14,000 sq.f its footprint expanded to 19,000 sqf and it opened an event space.

- **2013**- in Somerville MA, provides 40,000 sqf of prototypin.
  The Commonwealth of Massachusetts is contributing to Greentown's expansion into Somerville through a $300,000 grant, provided by the **Massachusetts Clean Energy Center**

Marie Sklodowska- Curie RISE
MAPS-LED
Multidisciplinary Approach to Plan Smart Specialisation Strategies
for Local Economic Development

MAPS-LED 2015 - 2019
Multidisciplinary
Approach to Plan Smart Specialisation Strategies
for Local Economic Development
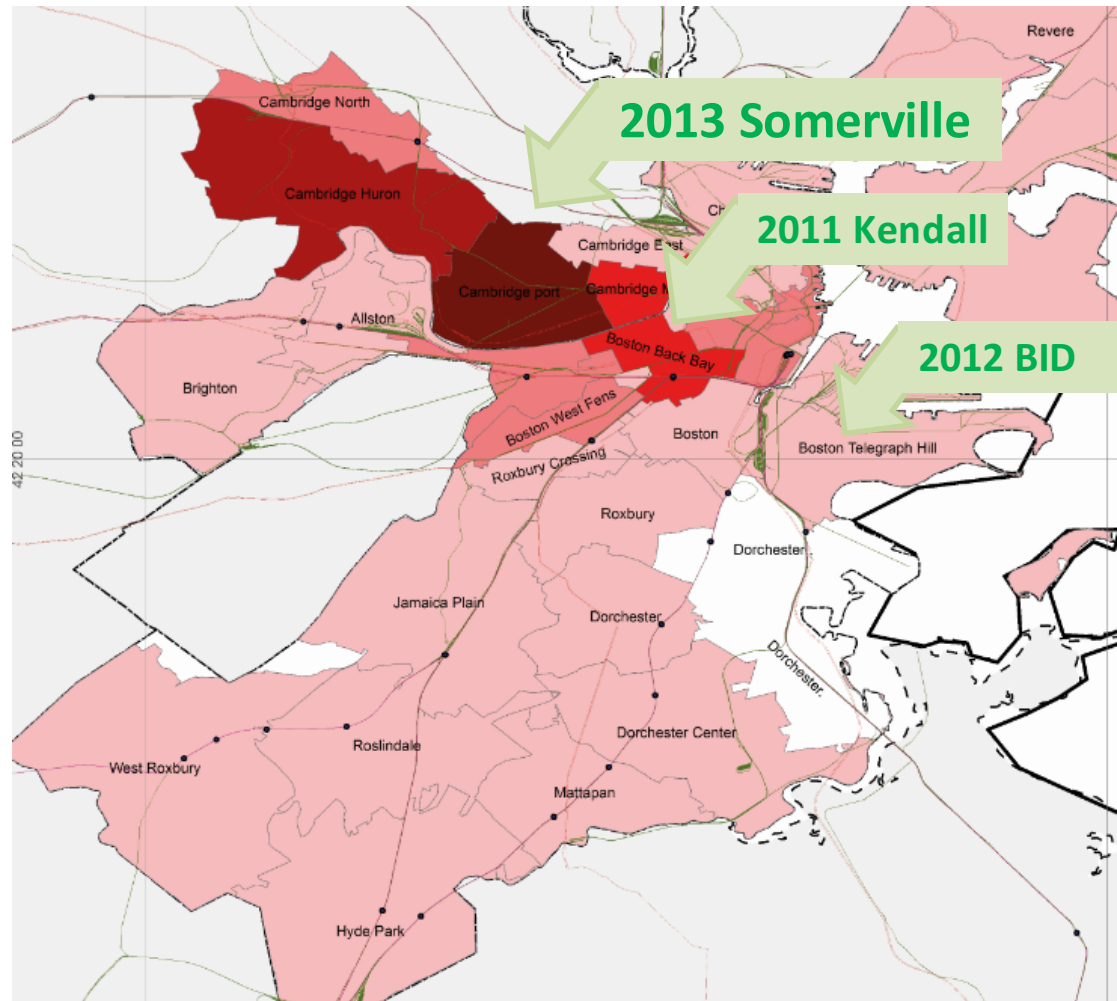
Greentown Labs: Clean Tech Incubator

Greentown Labs mission is

- to enable a vibrant community of entrepreneurs to work on their visions and to provide access to space, resources, and funding that allow their early-stage companies to thrive
- to provide low-cost prototyping space, co-working desks, free software and business services to clean energy and clean tech start-ups
- Involved firms range from the early conceptual stage of product development and prior to receiving venture capitals to firms already receiving venture capitals support and are now developing a more advanced stages of the product

Partners and Sponsors

Network:

- Joining the Greentown Labs community provides access to seed grants and support for RE projects from the public agencies and the venture capitalists.
- The network generates knowledge and experience share between the large companies and the clean technology startups.

Education:

- Greentown Labs companies have access to on-site resources that include weekly office hours and seminars.
- Trainings from sponsors and partners on specific tools and resources.
- On-site public educational events.

Innovation

- Greentown Labs is home to more than 30 companies that hold more than **16 patents** in **clean technologies**

Links with **EU Initiatives**

European Cluster Observatory managed by Stockholm School of Economics.	Best practice from Cleantech Cluster in Helsinki

Greentown Labs: Clean Tech Industry

- Greentown Labs (GL) is a key actor in the promotion of the *cleantech innovation economy* which encompasses "…*economic activity measured in terms of establishments and early-stage investments that produces new, innovative, and sustainable technological goods by organizations actively engaged in the commercialization process*" (NECEC, 2014)

- GL provides access to *strategic resources* tailored to the specific needs of cleantech companies:
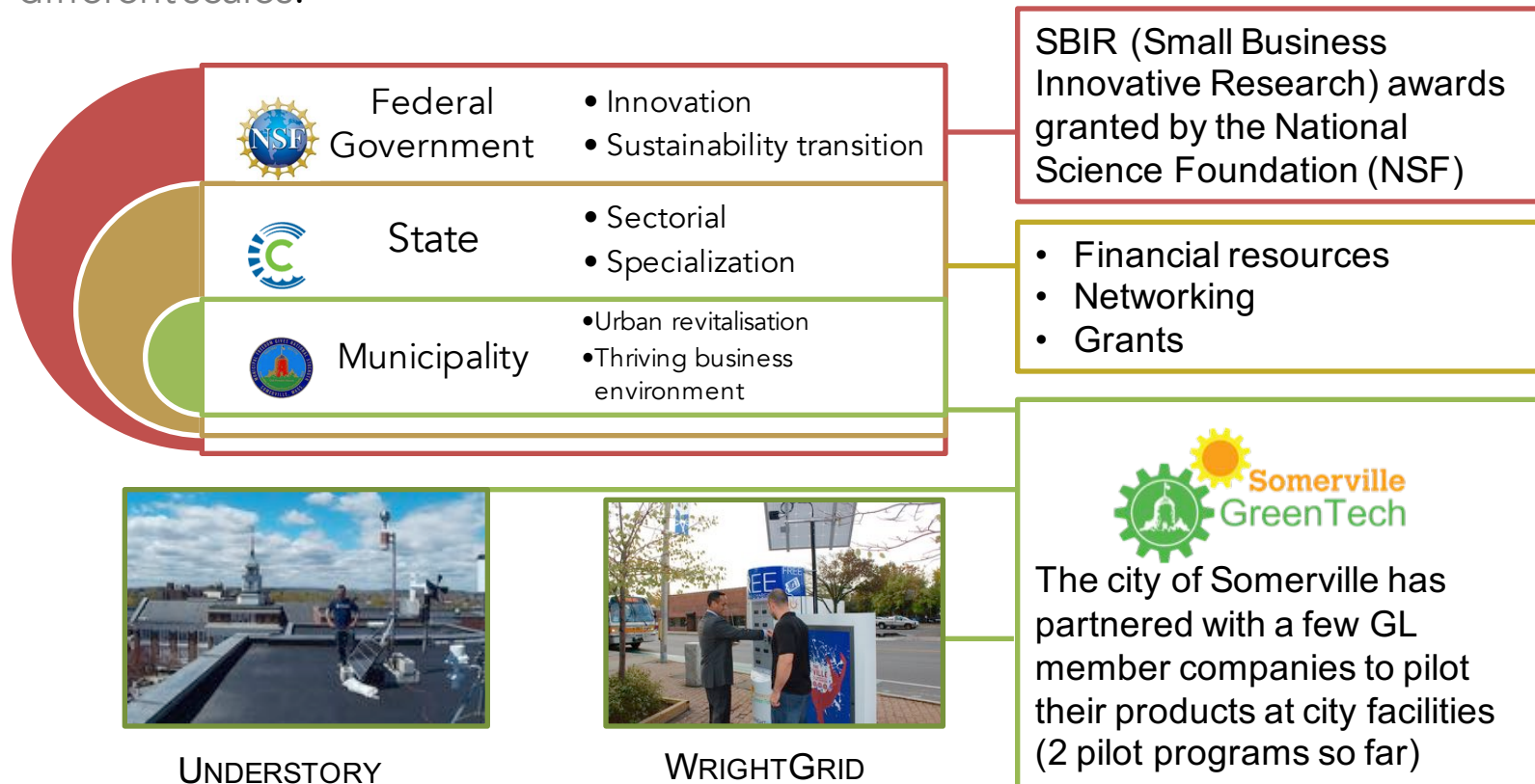

PROTOTYPE SPACE

CAPITAL NETWORKS

- GL acts as a *catalyst/gateway* for cleantech entrepreneurs

Greentown Labs: Stakeholders and Governance

- Greentown Labs is a *convergence point* of a network of public policy initiatives acting at different scales:

Federal Government	• Innovation • Sustainability transition	SBIR (Small Business Innovative Research) awards granted by the National Science Foundation (NSF)
State	• Sectorial • Specialization	• Financial resources • Networking • Grants
Municipality	• Urban revitalisation • Thriving business environment	

UNDERSTORY

WRIGHTGRID

Somerville GreenTech

The city of Somerville has partnered with a few GL member companies to pilot their products at city facilities (2 pilot programs so far)

Thank you!

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Marie Curie ER/ESR – MAPS_LED Project