

Faculty of Design

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Smart specialization in non-metro canadian regions

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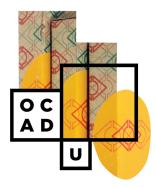
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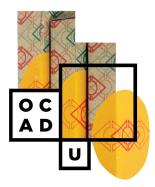
Smart Specialization and Innovation in Canada's Non-Metropolitan Regions

OCAD University October, 2018 Presentation by: Michele Mastroeni



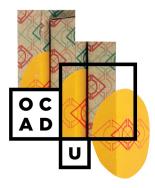
Purpose:

- To propose a governance framework for innovation-based regional development
- Focus is on non-metropolitan communities



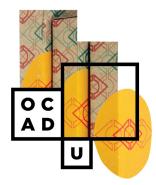
More specifically

- Describe a practical "how" for non-metro regional strategy
- Create regionally/contextually appropriate strategies (not cut and paste)
- Co-generated strategy



Definitions

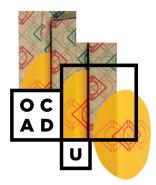
- Innovation: broadly speaking new products, services or processes – first in world or first in region.
- Region: a formally defined geographic space with some level of governance attached to it.
- Non-metro def. by CRRF: pop. < 100K, and outside commuting zone of metro centres.



Smart Specialization

- The creation and use of a large research and innovation area; unrestricted knowledge exchange between regions.
- Specialization are determined by local entrepreneurs.
- R&D leaders focus on General Purpose Technologies, but "followers" should search for GPT applications.
- Government policy has a role in supporting entrepreneurial action, and the regional environment

An example of "policy running away from theory"



Built-in Limitations

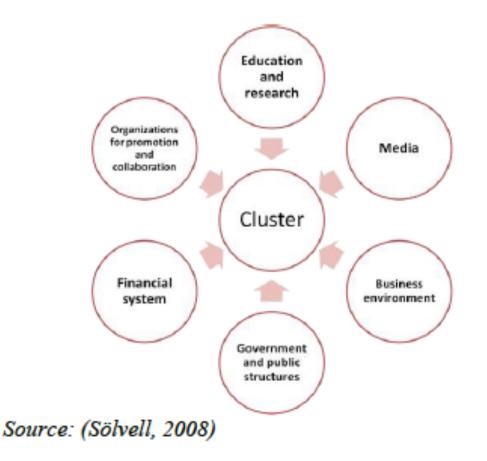
- Inability to deal with complexity and uncertainty.
- Implicit assumption that private sector entrepreneurs will be present or able.
- Potential to encourage too much specialization.
- Need to strengthen networks of knowledge exchange between stakeholders within a region, and across regions.

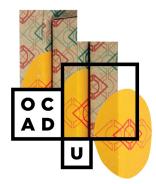


About Me

- PhD in Political Science, University of Toronto
- Research in Innovation Systems and Policy, and how to improve system dynamics
- Have mostly focused on policy around Regional Innovation Systems

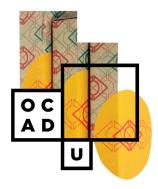
As a Policy Person: "Build your own innovation cluster" recipe





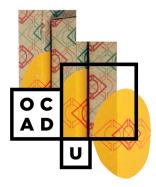
Reasons for the Framework

- Importance of innovation in Canadian and Int'l policy circles
- Relative lack of attention received by industries based in non-metro communities
- Possibility that Smart Specialization as developed by EC and OECD can be applied to Canada



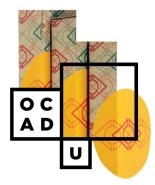
Bias in Policy to Develop Innovation Systems

- Policymakers many times look for the "new"
- Favour independent firms as successes rather than the mix (focus on trees, miss the forest).
- Focus on the *urban.*



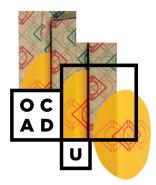
Past Policy in Canada

- Federal and provincial governments have supported innovation through different policies
- Focus on clusters *de facto* favours cities, including latest call to develop superclusters
- Continuing focus on new tech, and now on "Smart Cities", implies a continuing urban bias
- We need to supplement this focus



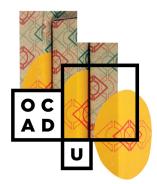
Canadian Non-Metro Needs

- Little agglomeration of (or proximity to) services and activities for economies of scale
- Lower levels of capital, and fewer entrepreneurs
- Openness to global market forces due to primary/resource sector prominence
- Few research intensive PSIs
- PSIs torn between local knowledge needs and int'l. reputational gain

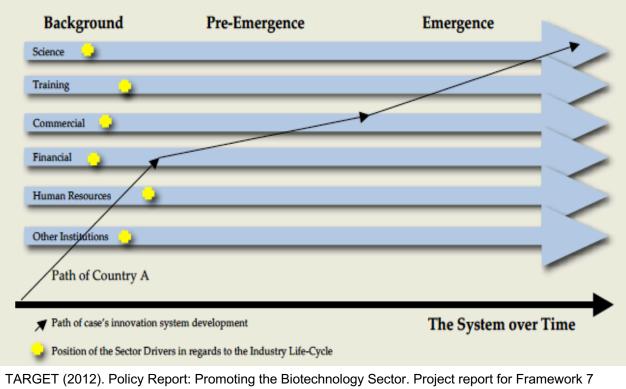


Corrections to SmSp and Suitability for Canadian Non-metro Regions

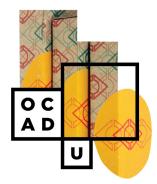
- An evolutionary approach to deal with uncertainty
- Openness to entrepreneurialism from any source – private, public, non-profit, etc.
- Related Variety instead of narrow specialization
- Strong network building as part of process



A practical Framework



Project.



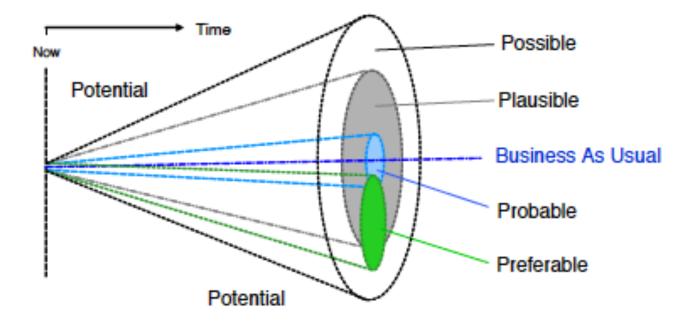
A Practical Framework

Example	Chemistry	Genomics	Botany	Management
Agriculture				
Food Processing				
Forestry				
Energy				

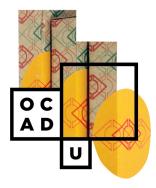
Cooke and Eriksson, 2011



A Practical Framework

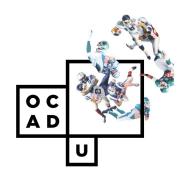


Futures Cone (Voros, 2013)



Result?

- Creation of contextually specific and appropriate strategy
- Involve most if not all necessary stakeholders**
- Identify areas of activity
- Identify path extension, branching, and building



Thank you for joining me!

Any comments, questions or feedback?

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