#### **CSPC 2013**

The more we understand the innovator/entrepreneur the better we can develop policies to enhance innovation



Dr Loredana Marchetti,

International Development Research Centre Centre de recherches pour le développement international



## Addressing the need to know more about entrepreneurs/innovators around the world in an unique way

#### HOW?

Rather than studying firms, or SMME's, **GEM** studies the individual in order to document the behavior and characteristics of

- nascent entrepreneurs,
- new entrepreneurs, and
- established business owners.

The degree of innovativeness, competitiveness, and growth expectation is studied, as well as the social environment and it's conduciveness to entrepreneurship.

### A project which has expanded rapidly

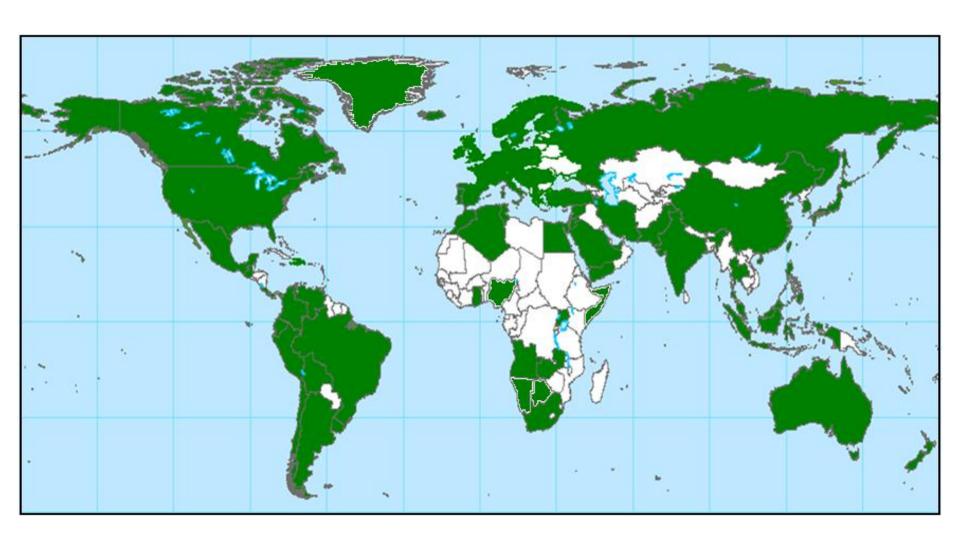
#### GEM was initiated in 1997

 Founding institutions: London Business School & Babson College in Boston

#### First GEM report in 1999

- 10 countries in 1999 (Canada among the first 10),
- 31 countries in 2003, 71 in 2013
- GEM continues to expand
- Over 100 countries involved between 1998 and 2013
- Country micro-sites on <u>www.gemconsortium.org</u>

### **GEM in 2013**





### What is the GEM study?

- <u>Largest</u> and <u>longest</u> longitudinal study of entrepreneurs in the world
- World's richest database on entrepreneurship
- Network of over 300 scholars and researchers in entrepreneurship from diverse geographies and economic development levels
- More than 169.000 individuals responded to the surveys in 2012, more than 2 Millions since the launch of the methodology



### How is data collected?

(a) surveys of the adult population (APS)

(b) in-depth interviews with national experts on entrepreneurship in each country (NES); and

(c) a wide selection of standardized national data.



### **GEM's Objectives**

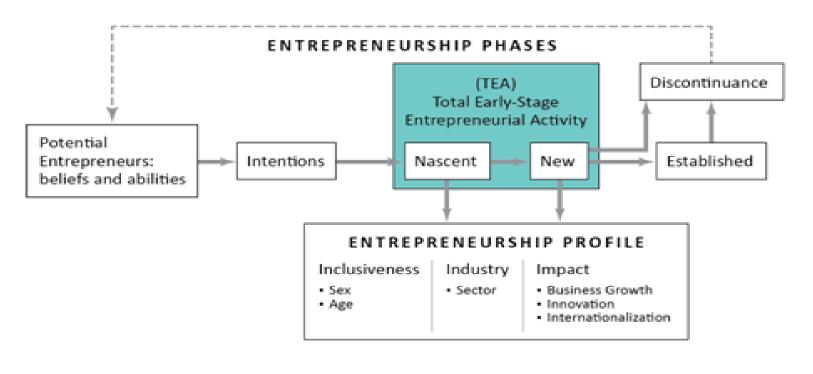
 To measure differences in the level of entrepreneurial activities among economies

 To uncover factors determining national levels of entrepreneurial activity

 To help identify policies that may enhance national levels of entrepreneurial activity

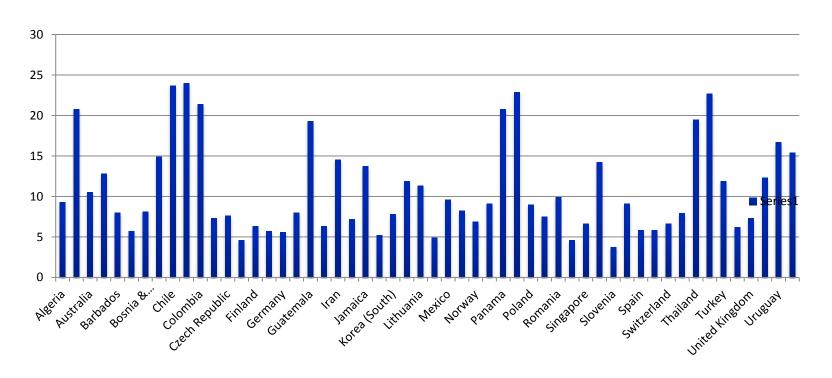
### **Understanding the process**

#### Phases and Profile of Entrepreneurship

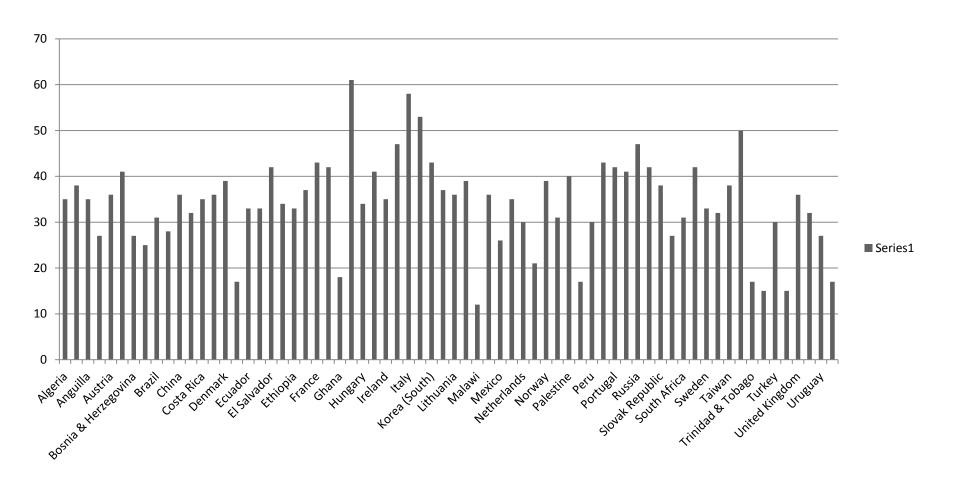




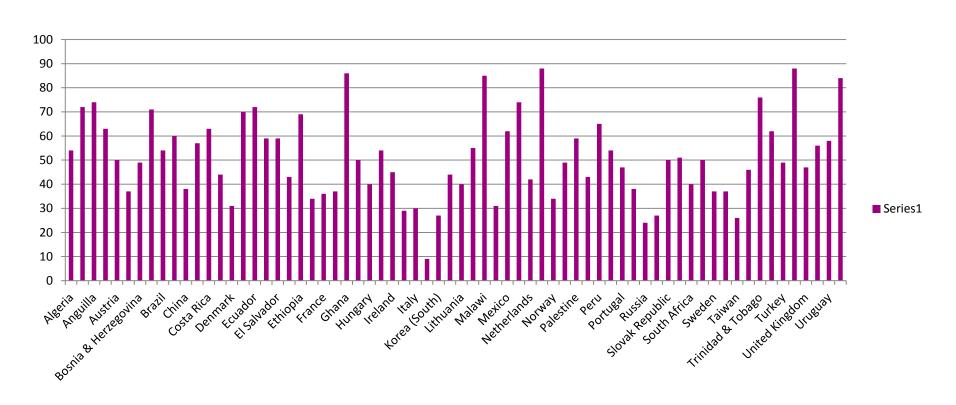
### Some findings across countries... "Entrepreneurial Intention



### Some findings across countries... "fear of failure"

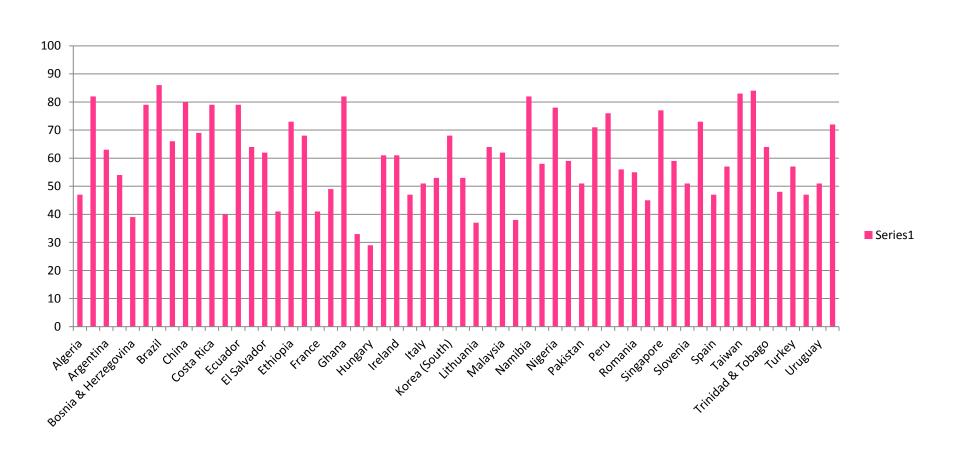


### Some findings across countries... "capabilities"



**GEM** 

### Some findings across countries... "media attention"



### The key determinants of entrepreneurship were found to be

- (a)the perception of new business opportunities,
- (b) demographic characteristics and growth,
- (c) participation in postsecondary educational programs,
- (d) cultural and social values supportive of personal independence, and
- (e) a strong physical and professional infrastructure.





GEM Special Report on Education and Training In 2008 the Global Entrepreneurship Monitor set out to investigate the prevalence and sources of entrepreneurship education and training, and the effect of this training on starting a business.

GEM SPECIAL REPORT ON ENTREPRENEURIAL EMPLOYEE ACTIVITY



GEM has developed a series of special reports on topics of interest: Youth, Women, Migration, Social Entrepreneurship,...

#### Other findings.....

	South	Angola	Ghana	Uganda	Zambia
	Africa				
Days to start a	22	68	12	25	18
business					
Procedures to	6	8	7	18	6
start a business					

GEM <u>studies the environment</u> and measures its influence on the level of entrepreneurial activity as well as looking at those factors which damped such activity

### Other studies: Sub-Saharan African Study

- Massive 3 year study project financed by the IDRC of Canada involving 10 sub-Saharan African countries – Angola, Botswana, Ethiopia, Ghana, Malawi, Namibia, Nigeria, South Africa, Uganda and Zambia looking at
  - entrepreneurial levels, attitudes, perceptions and intentions amongst the adult population; and
  - the youth of these countries who represent between 40% and 45% of the total population. 60% of them are unemployed or under employed.

#### Other studies: GEM Canada and the world

- "Compare and contrast" studies

Grants to visiting scholars to come to Canada to research on issues of common interest with GEM Canada institutions.

In 2013, Mexican visiting scholar

- Collaboration to be developed in 2015-2016 with Indonesia and Vietnam
- Mentoring for French-speaking West African countries to carry out the GEM surveys, data analysis and dissemination to international conferences



### The more we understand the innovator/entrepreneur the better we can develop policies to enhance innovation

#### Thank you



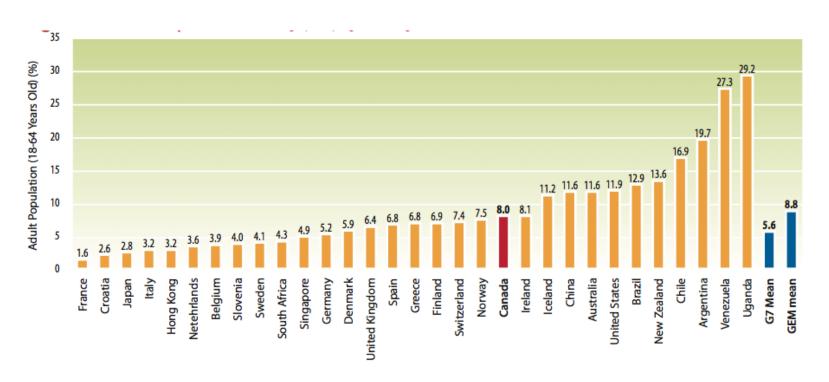
International Development Research Centre
Centre de recherches pour le développement international



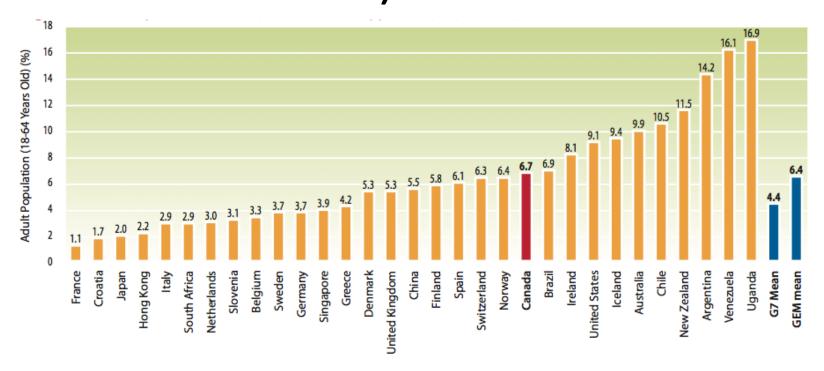
Who are the innovators and what do we know about the individuals who drive innovation?

Chad Saunders, MBA, PhD

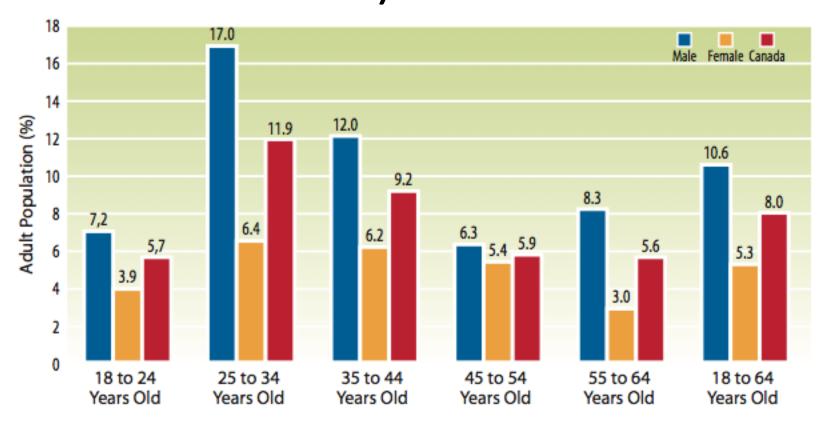
# Who are entrepreneurs/innovators in Canada and what are the demographics?



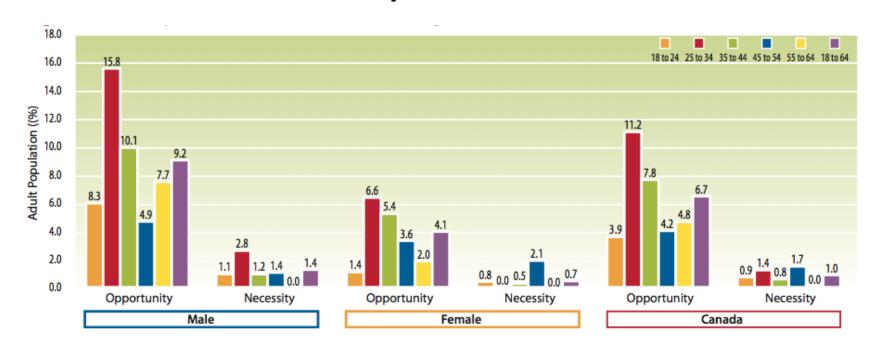
**Total Entrepreneurial Activity by Country** 



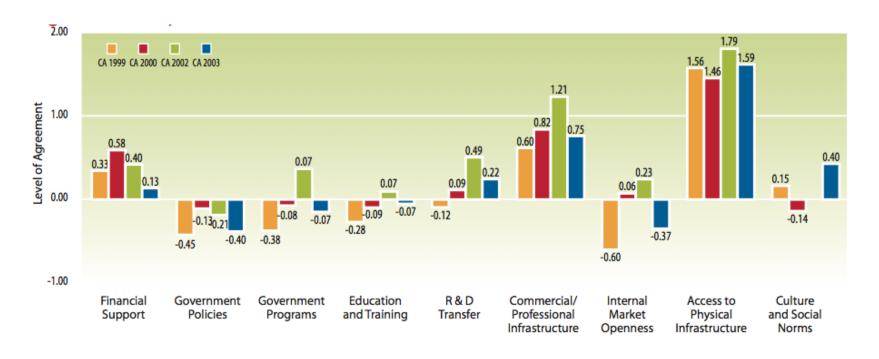
**Entrepreneurial Activity (Motivation: Opportunity) by Country** 



**Total Entrepreneurial Activity by Age and Gender** 



**Entrepreneurial Activities (Motivation) by Age and Gender** 



#### **Entrepreneurial Framework Conditions in Canada**

### Demographics - Startups

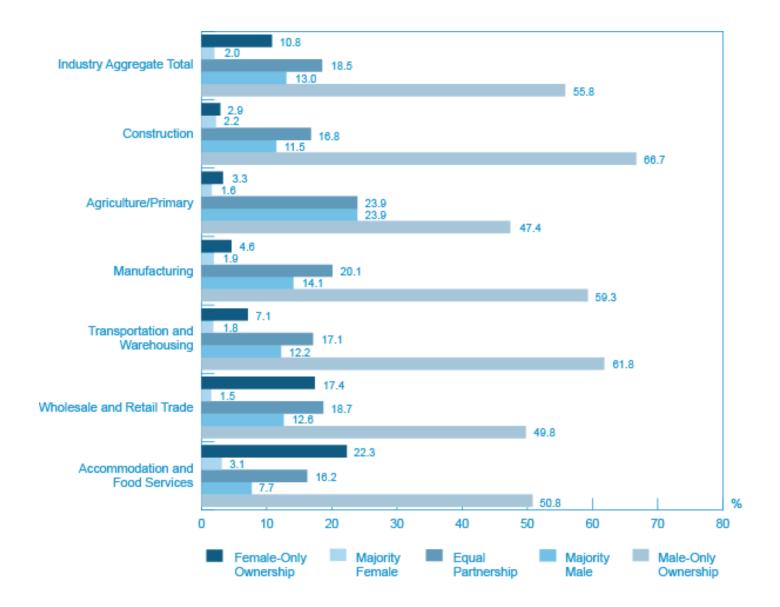
- Half a million Canadians in the process of starting their own business
- 50% survive after 5 years
- Startup activity lead by BC, AB, SK
- Focal sectors: Education, science, health and trades
- ~20% necessity entrepreneurs
- 70% of startup by men but growing percentage of established entrepreneurs are women (27/32/33%)
- Higher education levels (1 in 3 with university degree; double the rate in 1990)
- Fastest growing segment is the >50 age group (~30% of total startups)

Source: CIBC 2012; Statistics Canada

### Startups - Future

- Increased export orientation
  - Younger businesses more export oriented (2-5 yr olds > 50% foreign revenue)
  - 20% of self employed are immigrants
  - Increased competition and pressure in terms of pricing, quality, cost control, efficiency, marketing
  - More awareness of trade, tax and other regulations for foreign trade needed; understanding of currency exchange risks
- Technology and Network Structures
  - Driven by innovation (markets vs. firms)
  - Intrapreneurs
  - Outsourcing and Personalized Products/Services
- Social Entrepreneurship

Source: CIBC 2012; Statistics Canada



Source: Survey on Financing and Growth of Small and Medium Enterprises, 2011; Industry

### Rapid Growth by Industry

Sector	Number of Firms			
IT Products and Services	<u>79</u>			
Manufacture and Distribute Business Products	59			
Construction	42			
Software Developers	<u>35</u>			
Marketing and Media	45			
Human Resources Services	28			
New Industries	41			
Consumer Products	29			
Financial Services	24			
Retail	20			
Food Processing and Distribution	18			
Natural Resources Extraction and Services	18			
Consumer Services	17			
Transportation and Logistics	16			
Education and Certification	14			
Communications	8			
Pharma and Nutraceuticals	7			

23% purely hitech

Didn't exist before

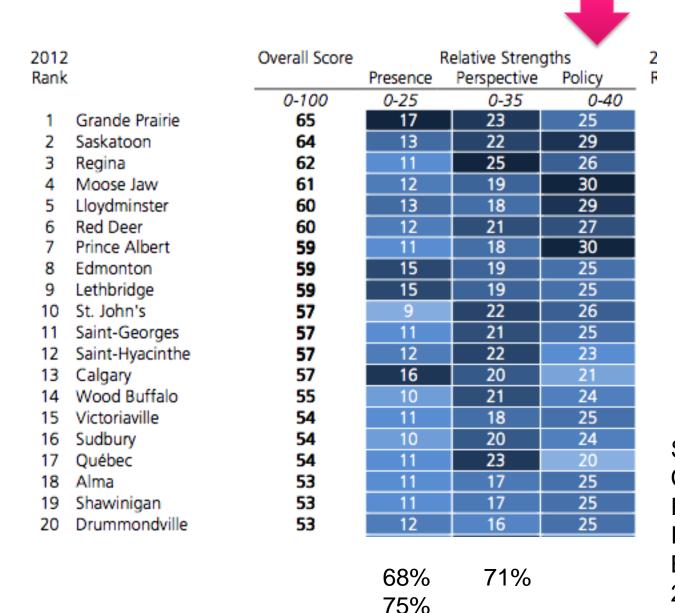
Source: PROFITguide.co m June 2013

### Rapid Growth by Location

Urban Centre	Number of Firms
Toronto	187
Vancouver	Source: PROFITguide.co
Montreal	46 m June 2013
Calgary	42
Edmonton	24
Ottawa-Gatineau	19 (364 or 73%)

- Average Profit 500 exporter generated 43% of sales abroad; 60 companies 90% of their business in foreign markets
- Average age is 14 years; 366 tapped founders for additional funds over past 5 years

#### Canada's Top Entrepreneurial Cities



Source: Canadian Federation of Independent Business 2012

Ranking	Access to funding	Score	Entrepreneurship culture	Score	Tax and regulation	Score	Education and training	Score	Coordinated support	Score
1	United States	7.12	United States	7.67	Saudi Arabia	6.40	France	6.58	Russia	6.23
2	United Kingdom	6.86	South Korea	7.53	Canada	6.34	Australia	6.53	Mexico	5.89
3	China	6.75	Canada	7.45	South Korea	6.34	United States	6.50	Brazil	5.87
4	Canada	6.62	Japan	7.28	United Kingdom	6.19	South Korea	6.40	Indonesia	5.84
5	Australia	6.48	Australia	7.18	South Africa	6.10	EU	6.25	India	5.76
6	South Africa	5.95	United Kingdom	7.00	Japan	6.07	United Kingdom	5.98	China	5.75
7	Japan	5.81	Germany	6.88	Germany	5.84	Germany	5.89	Turkey	5.66
8	South Korea	5.75	EU	6.07	Australia	5.75	Argentina	5.85	South Africa	5.65
9	Brazil	5.67	France	5.68	Russia	5.65	Canada	5.81	Argentina	5.64
10	Indonesia	5.53	Russia	5.05	EU	5.48	Brazil	5.78	Germany	5.53
11	India	5.48	India	4.95	Turkey	5.45	South Africa	5.67	France	5.41
12	EU	5.41	Brazil	4.88	Indonesia	5.38	Saudi Arabia	5.66	Saudi Arabia	5.39
13	Saudi Arabia	5.25	Italy	4.67	United States	5.33	Italy	5.47	EU	5.37
14	Germany	5.23	South Africa	4.33	Mexico	5.21	Russia	5.46	South Korea	5.36
15	Russia	5.04	Turkey	4.30	France	5.12	Mexico	5.32	Australia	5.31
16	France	4.74	Argentina	4.06	China	5.07	Japan	4.72	Canada	5.29
17	Turkey	4.57	Mexico	3.96	Brazil	4.83	Turkey	4.39	United Kingdom	5.19
18	Mexico	4.42	China	3.88	Italy	4.76	China	4.35	Japan	5.04
19	Italy	4.03	Indonesia	3.80	India	4.39	Indonesia	3.88	Italy	4.97
20	Argentina	3.27	Saudi Arabia	3.38	Argentina	4.31	India	3.49	United States	4.85

Source: EY G20 Entrepreneurship Barometer

#### **GEM 2013+ Contributions**

- Comparison to 2003 situation (10 year gap filled)
- International comparison
- Expanded view of seniors role (18-99)
- Improved policy focus of GEM Canada team
- Finer granularity on regional differences in terms of the scope and diversity of entrepreneurship across Canada
- Social entrepreneurship and intrapreneurship for 2014

### Thank you

Questions?

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# Who are the innovators and what do we know about the individuals who drive innovation?

<u>CSPC Theme:</u> Private Sector หลาย Private Sec

Centre for Policy Research on Science and Technology, Simon Fraser University Vancouver, BC

#### **Panelists**

- Ms. Loredana Marchetti, IDRC
- Ms. Colleen McMorrow, Ernst & Young
- Prof. Chad Saunders, University of Calgary
- Ms. Cynthia-Ann Sheehan, Université Laval

Chair: Prof. Adam Holbrook, Simon Fraser University

# The Challenge (1)

- Innovation is the principal driver of wealth creation and social development in society, and the individual who is the agent of innovation, whether in a small company or a large organization, public or private, can be thought of as an entrepreneur.
- Following Schumpeter's definition of innovation, an entrepreneur is automatically an innovator. Innovation by institutions, particularly businesses, is widely studied, but little is known about innovators themselves.

# The challenge (2)

- Innovation is not something confined to the private sector – governments, universities, health care institutions are all centres of innovation – even if these innovations cannot be measured in financial terms.
- Innovations that have social benefits, rather than monetary value can be found in every sector.
- The more we understand the innovator/entrepreneur as an individual the

# Background – Global Entrepreneurship Monitor (GEM)

- The GEM Consortium was set up in 1999 to collect data on entrepreneurship around the world and report it on a comparative basis. Canada was a member 1999 – 2003, but then resigned (lack of funding)
- IDRC has funded the Canadian national effort for 2013 2015
- Several provinces have funded additional data collection (over-sampling) BC, AB, SK, MB, ON, QC and NL

### The GEM surveys

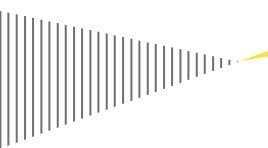
- The Adult Population Survey (APS), in each national program, surveys 2000 respondents, balanced for age, gender and region
- The seven participating provinces sponsored additional sampling to get to get a statistically significant total for each province. Thus the BC component for the Canadian core program is 264 responses. An additional 122 responses were obtained to get a statistically significant total of 386
- The National Experts Survey (NES) is a set of a minimum 36 directed interviews at the national level. The interviewees are recruited by the project investigators and are not age/gender balanced. The survey was repeated for each participating province

### Questions for discussion

- Who are entrepreneurs/innovators in Canada (and what are the demographics)?
- What is a social entrepreneur, and who are they?
- What is an intrapreneur and who are they?
- How can the Global Entrepreneurship Monitor (GEM) contribute to a better understanding of Canada by emerging economies? How important it is that Canada develop ongoing entrepreneurial and innovation relationships with emerging economies?

#### What is Intrapreneurship?

Igniting Innovation and
The EY G20 Entrepreneurship Barometer 2013





Presented by:

**Colleen McMorrow**Partner and National and Ontario

Director, Entrepreneur Of The Year

Program



"Entrepreneurial thinking is not optional. Those who stand still fall behind, and market leadership changes regularly.

This is why it's important for all companies — even large, established corporations — to cultivate innovation through intrapreneurship."

# Some questions we asked of leading innovative CEOs and academics

 What are the ingredients of successful corporate entrepreneurship?

 How do companies fan the flames of innovation by tapping into the creativity of their employees?

 What practical strategies can companies adopt to foster a culture of innovation?
 How can they establish and sustain

# The answer: companies must institutionalize entrepreneurship

- Set up a formal structure for intrapreneurship.
- Ask for ideas from your employees.
- Assemble and unleash a diverse workforce.
- Design a career path for your intrapreneurs.
- Explore government incentives for innovation.
- Prepare for the pitfalls of intrapreneurship.

Based on a survey of survey of 263 of the world's leading entrepreneurs (all winners of EY's Entrepeneur Of The Year awards)

**77%** have an unstructured, free-flowing process to innovation

**85%** strongly agree that innovation is critical to the growth of their organization

## Innovation = growth, but...

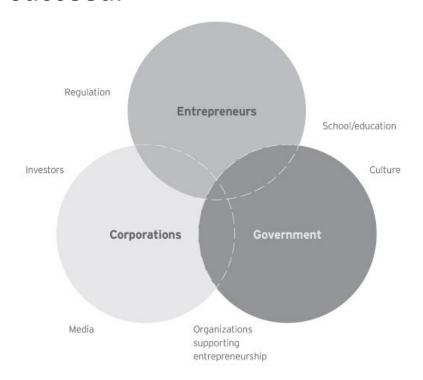
- According to our survey of 263 Ernst & Young Entrepreneur Of The Year® award winners: 82% agreed strongly that the ability to innovate was critical to the growth of their organizations
- But innovation demands a loose, agile organizational structure
- Large companies are often rigid and hierarchical
- Nearly half of survey respondents said

# Supporting entrepreneurship — a G20 imperative

- Entrepreneurs create jobs and drive growth.
- Today, their contribution is more important than ever.
- But they need to be given the tools and environment that will enable them to succeed.

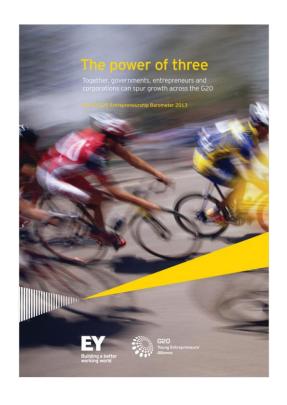
#### The power of three -

governments, entrepreneurs and corporations need to work together to foster sustainable growth.



# Introducing... EY G20 Entrepreneurship Barometer 2013

The entrepreneurial development framework: five pillars that foster entrepreneurship





# Overall country rankings

The following represents the overall ranking of the G20 countries by quartile.\*

Quartile 1 represents the countries that are leading in fostering entrepreneurship.

Each of the five pillars (Access to funding, entrepreneurship culture, tax and regulation, education and training, coordinated support was weighted equally to provide an overall country ranking.

Quartile 1	Quartile 2	Quartile 3	Quartile 4
Australia	EU	Brazil	Argentina
Canada	France	China	India
South Korea	Germany	Mexico	Indonesia
United Kingdom	Japan	Russia	Italy
United States	South Africa	Saudi Arabia	Turkey

\* Note: Countries are listed in alphabetical order per quartile.

# Access to funding

Canada ranking: 4

#### **Key Insights:**

- Canadian entrepreneurs find access to funding easier than most of their peers in other G20 nations.
- 45% say access has improved, compared to 35% across the G20 as a whole.
- The Cdn Government Economic Action Plan 2013 includes \$400m of new funding for the venture capital sector.

#### A call to action:

- ▶ 73% of entrepreneurs in Canada say access to funding remains difficult, slightly more than the G20 average (70%).
- The increased support for domestic venture capital will have to compensate for a 22% fall in foreign venture capital investment, according to the Canadian Venture Capital Association.
- The survey results suggest funding is less likely to be available from customers or suppliers, and that bank funding is recovering more slowly than in other countries.

### Entrepreneurship culture

Canada ranking: 3

#### **Key insights:**

- Low cost of insolvency in Canada — the lowest in the G20.
- Canada fosters a culture of research and innovation.
- Since 2006, Canada has invested C\$9b in funding for science, technology and innovation, and further support has been made available for R&D in higher education.

#### Call to action:

- Canada's entrepreneurs rank in bottom five of the G20 in terms of seeing self-made worth as something to celebrate.
- They see job creation as much more important.
- The profile of entrepreneurs must be raised to build the confidence of our people.

## Tax and regulation

Canada ranking: 2

#### **Key Insights**

- Canadian entrepreneurs benefit from low tax rates and the country's small deficit ensure corporate and indirect tax rates remain very competitive.
- 44% of Canada's
   entrepreneurs say the
   availability of tax
   incentives has greatly or
   somewhat improved over
   the past three years
   (compared to only 25%
   across the G20 overall).

#### A call to action

- ► In 2012, the Federal Government introduced significant changes to its program of scientific research and experimental development (SR&ED) tax credits.
  - As of 2014, all capital expenditures will be excluded from eligibility for investment tax credits.
  - There will be a reduction in the general SR&ED investment tax credit rate from 20% to 15% on 1 January 2014.

# **Education and training**

Canada ranking: 9

#### **Key insights**

- Canada scores highly on metrics such as public spending on education, as well as on the teaching of entrepreneurial skills in schools and universities.
- 44% of entrepreneurs have seen improvements in access to entrepreneurial education and training.
- 37% cited improvements in delivering dedicated entrepreneurship chairs in universities and business schools..

#### A call to action

- Too few education and training-related efforts focus specifically on the needs of entrepreneurs.
- Entrepreneurship and a focus on innovation should start in primary grades so that it's woven into society.

# Coordinated support

Canada ranking: 16

#### **Key insights**

- One explanation for this pessimism may be the higher expectations of entrepreneurs in Canada.
- It may be that having been offered an encouraging environment in other respects, entrepreneurs in these nations look for greater levels of support and assistance across the board.

#### Call to action:

- Government action: Embed entrepreneurial learning into the school curriculum; support young people; create public programs to support entrepreneurs..
- Entrepreneur: Learn from other entrepreneurs and tap into the experience of others. Be a mentor!
- A corporate perspective: Expand internship programs to provide more hands-on experience and act as mentors.

# Entrepreneurs have a vital role to play in any healthy and vibrant economy

- Governments look to entrepreneurs to kick-start their economies, but entrepreneurs need to be given the tools and environment that will enable them to succeed.
- The Government has sought to offer additional help through a number of policy initiatives and business-friendly tax and regulatory systems.
- Still, entrepreneurs complain that the support does not always get through and access to funding remains a potential barrier to growth.
- Canada remains a world class entrepreneurial environment, but stronger mentoring and increased efforts to bolster research and development (R&D) activity would help.