

National Research Council of Canada (NRC)

Celtic Plus Project Preparation Day March 16, 2016, Madrid

NRC Mission



Working with clients and partners, we provide innovation support, strategic research, scientific and technical services to develop and deploy solutions to meet Canada's current and future industrial and societal needs.

NRC-IRAP MISSION

Accelerate the growth of SMEs by providing them with a comprehensive suite of innovative services and funding

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NRC – a century of innovation to benefit the world

1920s

Concrete for a harsh climate

1930s

Redesigned

steam locomotive

1940s

Wartime innovations: radar, atomic energy

1950s

Pacemaker, electric wheelchair

1960s

Crash position indicator

1970s

Anti-counterfeiting technology

1990s

Synthetic meningitis C vaccine

Canadian Astronaut Program, Canadarm

NRC.CNR

980s

2000s

Simulated brain surgery

NRC Overview





- Over 4,000 employees and 1,500 visiting workers
- Wide variety of disciplines and broad array of services and support to industry.
- IRAP is Delivered by a network of over 400 professionals located in more than 100 communities

NRC IRAP Assistance

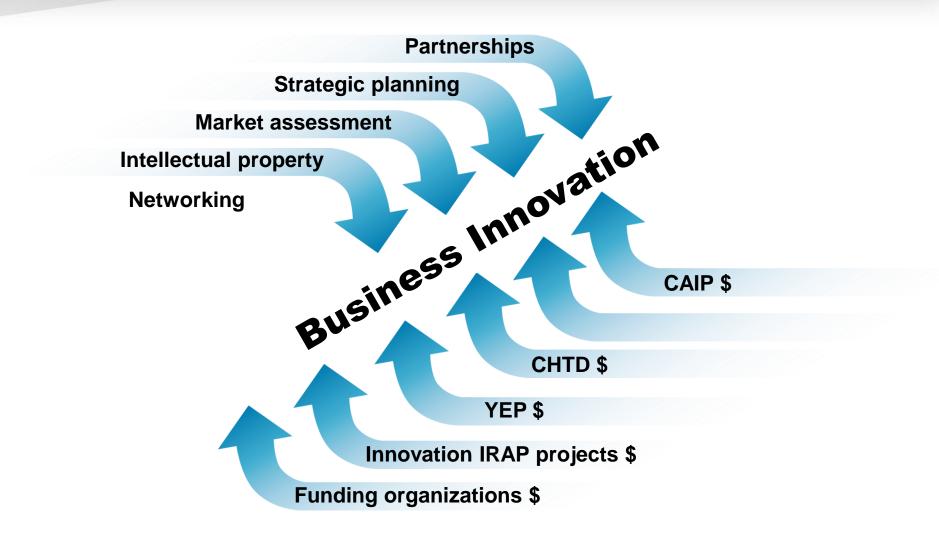


- Advisory Services
- Networking and Linkages
- Funding grants up to 80%



NRC-IRAP Business Model

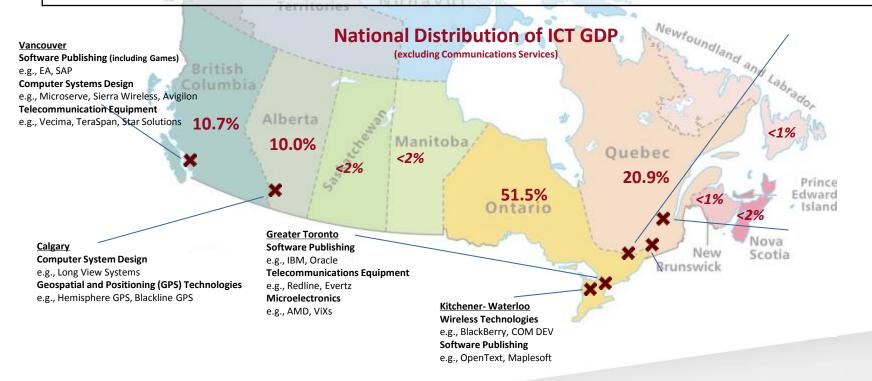




Canada's Clusters



	Ontario	Quebec	ВС	Alberta	Rest of Canada
Computer System Design/Data Processing i.e., CGI, IBM, Accenture	47%	27%	11%	9%	6%
Wholesaling i.e., Apple, Dell, IBM	60%	19%	8%	9%	5%
Software Publishing i.e., EA, Ubisoft, Open Text	35%	31%	21%	8%	4%
Telecommunications Equipment i.e., BlackBerry, COM DEV, Mitel, Ericsson	66%	21%	6%	2%	5%
Microelectronics Manufacturing i.e., IBM, Teledyne DALSA, Matrox	51%	33%	10%	4%	2%
Total ICT Sector (excluding Communications Services)	49%	26%	11%	8%	6%



Canada generates about 4% of global academic

publications, although it represents only 1% of the global population

#2 in the G7 in terms of availability of gualified

Highest % of individuals achieving at least college

or university education in OECD

engineers in workforce*

- 75% of ICT MNEs said that the most important factor which led to an investment decision was the availability of a highly-skilled talent pool
- 55% of Canada's doctorate graduates are in STEM fields
- Canada is ranked #1 in the G7 and 5th in the OECD countries in the share of STEM PhD graduates
- World-class universities and colleges produce high quality, work-ready graduates



7.29

7.19

Italy

6.43

6.12

U.K. Germany

7.61

8.5

8.0

7.5

6.5

6.0 5.5

T.0

8.16

8.11

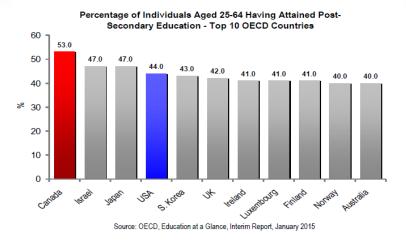
Source: IMD, Rank among 60 economies considered in the World Competitiveness Yearbook 2014.

U.S.



France Canada Japan

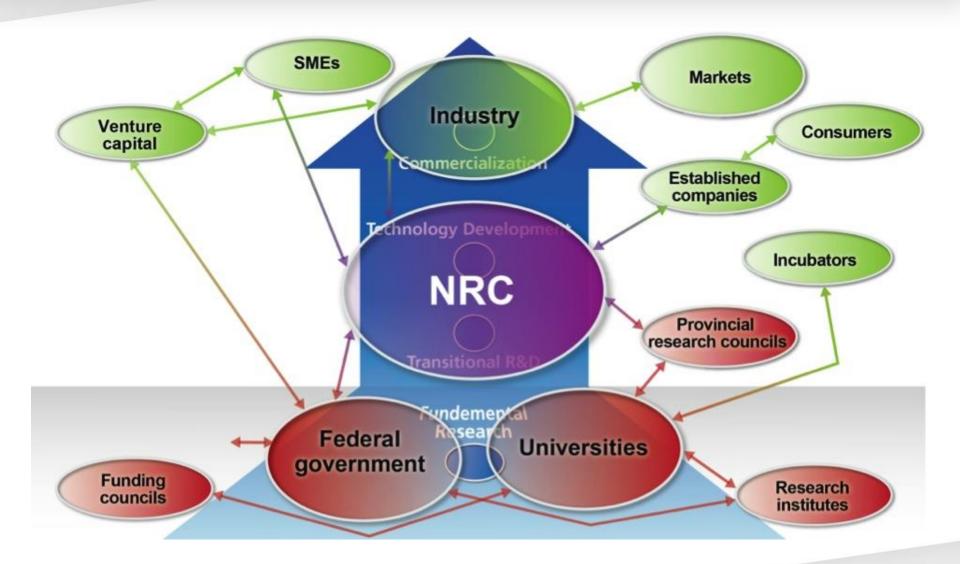
Canada: high quality ICT talent





Canada's innovation "ecosystem"





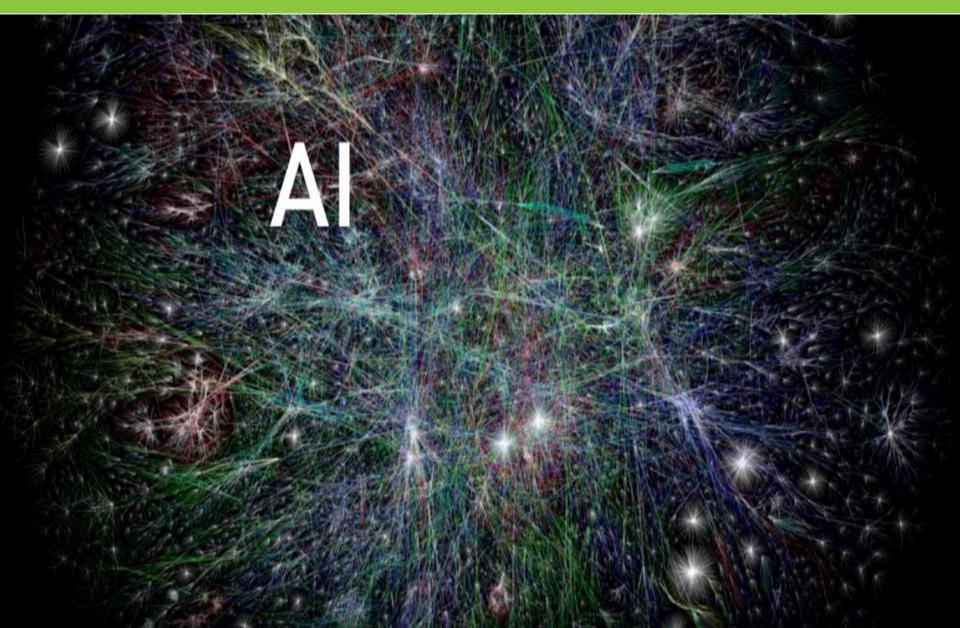
Innovation Before Internet (BI)





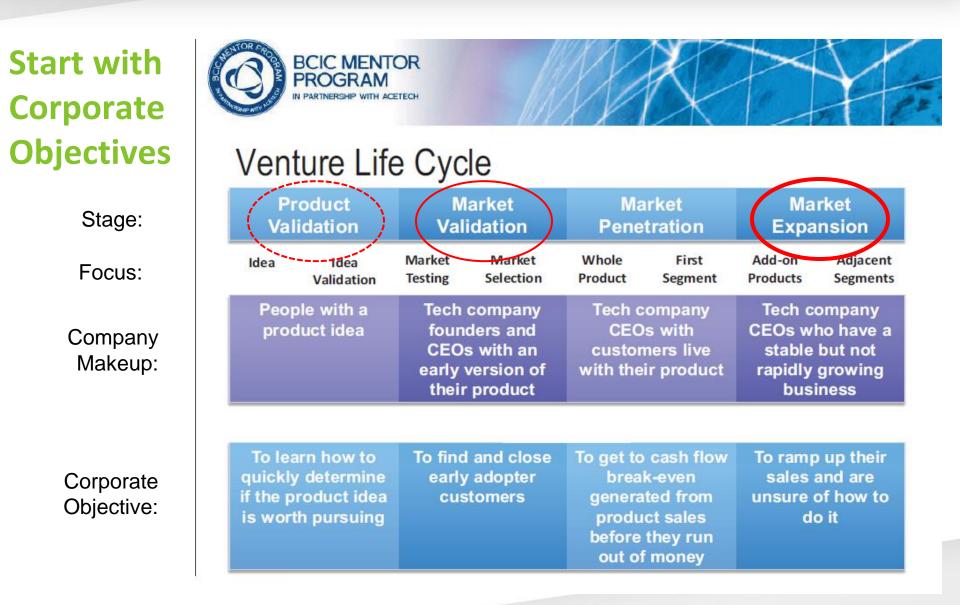
Innovation After Internet (AI)





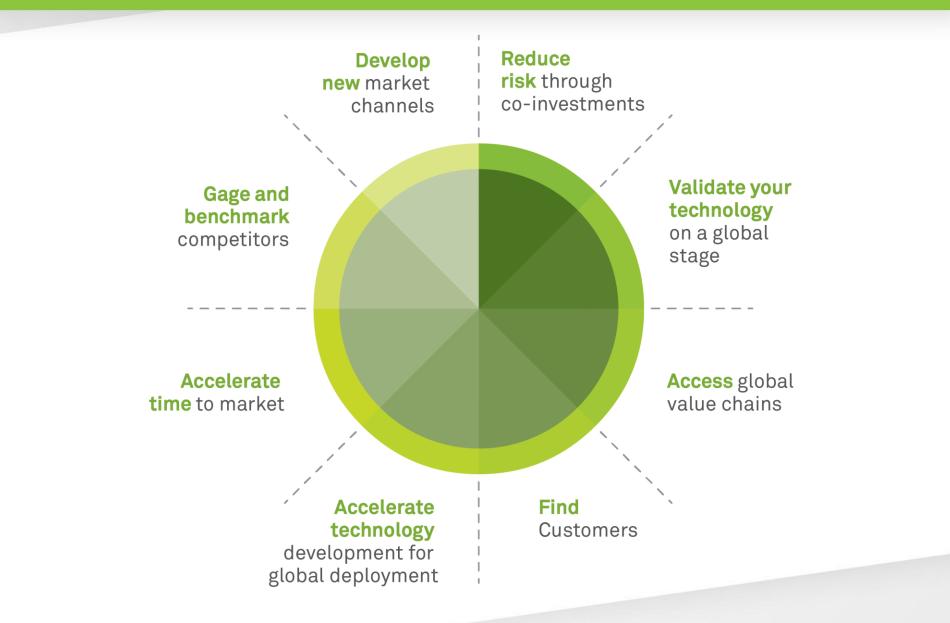
What IRAP Tool to Use?





Importance of Co-innovation







Gracias!