



Division
des Sciences,
de l'Innovation et
de l'Information
Électronique



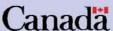
Public Sector – Indicators of Innovation

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Outline







- Indicators that cross-over from private sector collection activities
- Defining market and client for public sector organisations
- Next steps in measuring public sector innovation









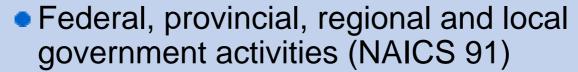




Defining the public sector

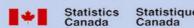






- Health care sector (NAICS 62 some private sector)
- Educational sector (provincial jurisdiction with federal funding and policy interest at the postsecondary level) (NAICS 61 – some private sector)
- NAICS North American Industry Classification System, Canada, 2002









Why measure innovation in the public sector



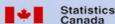
Policy purposes:

- Commercialisation using public knowledge to capture value and transfer technology
- Encouraging technology development and adoption
- Alliances and partnerships with private sector
- Public sector efficiency
- Encouraging national competitiveness and growth













What is innovation









Market













Current measures of the activities of innovation in the public sector







- Intellectual property (patents)
- Licensing activities
- Spin-offs
- Bibliometrics









Intellectual Property Commercialisation in the Higher Education Sector (SIPCHES)

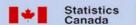






- Spin-offs
- Licensing activities
- Patents and personnel
- Collaboration and partnerships









Survey of Electronic Commerce and Technology (SECT)



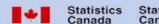




Section D of SECT surveys:

- organisational and technological change,
- technology transfer,
- new management practices and
- business incubation services



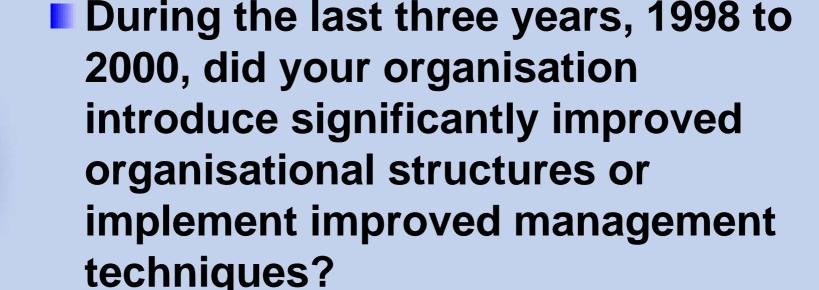






Organisational change question – 2000

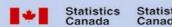






If yes, did these improvements require training?





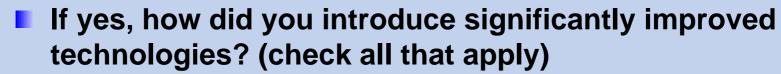




Technological change question 2000



During the last three years, 1998 to 2000, did your organisation introduce significantly improved technologies?

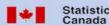


- By purchasing off-the-shelf technologies
- By licensing new technologies
- By customising or significantly modifying existing technologies
- By developing new technologies (either alone or in conjunction with others)
- Did any of these improvements require training?









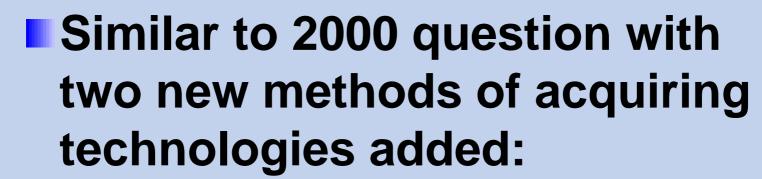




Technological change 2000-2002







- By leasing new technologies
- By putting in place an improved production facility (not a very clear question)









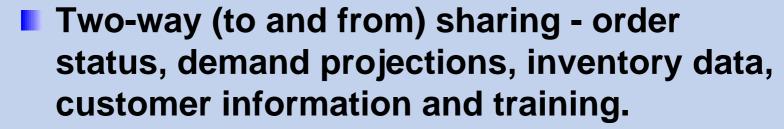
Technology use – electronic networks for information sharing 2001



Question on identifying the type of information being transmitted and shared over electronic networks.

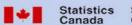


One-way (outwards) sharing for job opportunities and product descriptions







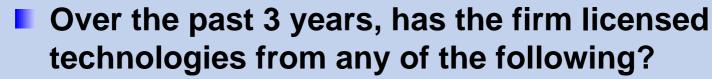






Public Sector Technology Transfer - 2003





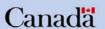


■ Did the acquisition of technology from any of the following sources play a major role in the firm's inception or growth over the past 3 years?



- A Canadian hospital
- A Canadian federal government lab
- Is this firm a spin-off from a Canadian university?







Defining market for the public sector



Public sector organisations create and enhance products and processes to serve their clients.

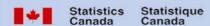


These clients are often, but not always, non-paying; they are a market.



- University and college students; and
- Purchasers or licensees of products (goods and services) or processes.



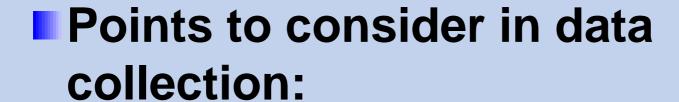






Innovation indicators can cross the public-private divide







Public sector organisations are complex (closely resemble large enterprises)



Streamline collection operations for single respondent

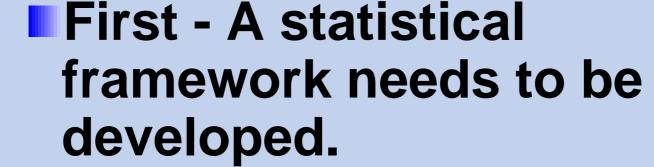






Tools that are required







Second – There is a need for concepts and definitions – market and target respondent.



















Thanks For more information see our Web-site www.statcan.ca

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