

## E-commerce in Canada

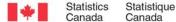


Telling Canada's story in numbers

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32<sup>nd</sup> meeting of the Voorburg Group New Delhi, India October 2017







#### Presentation outline

- Definitions and concepts
- Impact of E-commerce on:
  - Industry and Product Classification
  - Output measures
  - SPPIs
  - National Accounts
- Conclusion





#### Concepts and definitions

#### Online ecommerce sales

Sales of goods or services where the order is received and the commitment to purchase is made via the Internet, even if payment is made by other means. This includes orders made on web pages, through an extranet or by electronic data interchange over the Internet

### Pure play online retailers

A business that solely sells products online, i.e. does not have a storefront.

# Brick and mortar/storefront retailers

Retailer that sells products at a physical location/store.

# Bricks and clicks/ Clicks and mortar

Retailer that sells products online and in physical stores.







#### Concepts and definitions (2)

### Digital platforms

In the context of e-commerce, digital platforms are web-based intermediaries facilitating e-commerce and peer-to-peer transactions (e.g. e-Bay, Uber, Airbnb, AskforTask, etc.)

### Digital product

Products that come in a digital format such as e-books, music or video files, etc.

### Digital delivery

The delivery or distribution over an online media (e.g. download, streaming, etc.)





#### E-commerce and industry classification

ISIC and NAICS

Division of retail between store and non-store firms – is this distinction still appropriate given the increase in e-commerce activity by brick and mortar retailers?

**NAICS 2012** 

Publishers who predominantly had an online presence were classified to NAICS 51913 (Internet publishing and broadcasting and web search portals).

**NAICS 2017** 

Updated publishing to classify businesses according to main business activity, regardless of format.

Online streaming

Captured as part of broadcasting in NAICS





#### E-commerce and product classification

**NAPCS 2017** 

Moved from grouping online content together as a common format to classifying products according to their purpose, then further sub-dividing them into digital and physical types.

Digital product – measurement issues Is each download a unit of the product sold? What about the single incident of an item streamed? What about a licence renewal for a year?





#### Challenges in measuring output

- Coverage of domestic production
  - Canadian websites are identifiable by the extension .ca but just because an e-commerce website ends in .ca doesn't mean the firm has a retail establishment in Canada and thus may not be counted in retail output
  - Retailers operating outside Canada may set up fulfillment centres or contract a third party company to facilitate ecommerce for their Canadian customers without having to establish a retail operation in Canada
- Hard to measure and properly classify international trade
  - Trade of physical products is captured when the items cross the border but low value shipments of goods purchased online by households have no product details
  - Trade in digital products is hard to measure



#### Output measures at Statistics Canada

- Occasional cross-economy e-commerce survey since 2013
- E-commerce questions added to monthly retail trade survey starting January 2016
- E-commerce questions added to 22 surveys for service industries, results to be released by March 2018.







#### Survey of Digital Technology and Internet Use, 2013

5. Did your business mak	e sales ot	oods or	services via t	ne Internet in 2013?		
C500 1 Yes ▶ Go to	quisiis. 6			No ► Go to question 11		
Sales conducte ' over the Internet with or without online payment: Include all sales of your business' goods or services where the order is received, and the commitment to purchase is made via the Internet, although payment can be made by other means. Include orders made in web pages, extranet or Electronic Data Interchange (EDI). Exclude orders made by telephone calls, facsimile, or e-mail.						
6. Does your business track Internet sales separately from all other sales?						
<sup>0500</sup> 1 Yes				<sup>3</sup> No		
7. What were your business' total gross sales, conducted over the Internet in 2013?  If precise figures are not available, please provide your best estimate in Canadian dollars.  O0  8. What percentage of the value of your business' gross sales were made over the Internet in 2013?  Oo  Oo  Oo  Oo  Oo  Oo  Oo  Oo  Oo  O						
9. What percentage of your Internet sales in 2013 were to customers located						
In Canada	C901		%			
In the USA	C902		%			
In all other countries	C903		%			
	1	0 0	%			
				Page 2	5530501021	





## Survey of Digital Technology and Internet Use, 2013 (2)

10. What percentage of the value of your Internet sales in 2013 were to other businesses?							
11. Did your business make purchases of goods or services via the Internet during 2013?							
C1100 1 Yes	<sup>3</sup> No						
12. Does your business engage in the following online interactions with Canadian local, provincial or federal governments? Select all that apply.							
obtain information or documents from governments	apply for grants or benefits						
complete or return taxation forms (e.g., GST, employment (T4), year end tax (T2))	online payments to government organizations  c1205  none of the above						

http://www.statcan.gc.ca/daily-quotidien/140611/dq140611a-eng.htm

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Total retail sales



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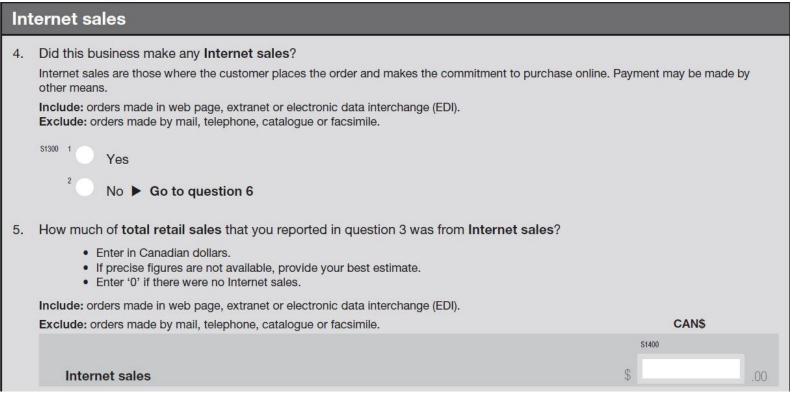
#### Monthly Retail Trade Survey, July 2017

#### Total retail sales Please report the total retail sales for this business for the current reference period. Report all dollar amounts in Canadian dollars (CAN\$). When precise figures are not available, please provide your best estimates. Include revenue from: Internet sales. Sales of any goods including value of trade-ins (net of returns and discounts). Repair and maintenance (including parts and labour). · Rental or leasing of goods and equipment. · Services (including food services). · Goods manufactured as a secondary activity. • Fees earned from commissions (e.g., lottery or bus tickets, phone cards). Do not report sales values. Orders made by mail, telephone, catalogue and facsimile. Exclude: GST, HST, PST, QST and excise. Non-operating revenue such as interest or dividends. · Revenue from rental of real estate, placement fees, operating subsidies, grants, royalties or franchise fees. CANS. S1200

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### Monthly Retail Trade Survey, July 2017 (2)



#### **E-commerce sales by Canadian retailers**

On an unadjusted basis, retail e-commerce sales were \$1.2 billion in July, accounting for 2.3% of total retail trade. On a year-over-year basis, retail e-commerce increased 46.8%, while total unadjusted retail sales rose 6.7%.

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#### SPPI challenges with e-commerce

- E-commerce vs. in-store prices
  - Even if physical product is identical, the service provided differs from online to store
  - Price movement may differ
    - On-line pricing can instantly respond to competitor's price or terms of delivery
    - On-line pricing may use price discrimination (time of day/week/year, search cache, device used to access website, etc.)
    - Different cost structures for store and online purchases
- Ideally, we should be measuring both types of transactions and weight them by prevalence in a given industry. This can be problematic in terms of resources, response burden and access to weights.
- Canada currently excludes e-commerce prices from its Retail Services Price Index (RSPI) while relying solely on internet prices for traveler accommodation.





#### SPPI challenges with e-commerce (2)

- Increased customization and new products require more frequent linking between new and discontinued products and new approaches to quality adjustment
- Pricing and measurement challenges of digital products where the quantity offered for a price may be unlimited but the amount consumed in specific periods varies (e.g. Netflix, data plans, unlimited calling, etc.)



#### SPPI opportunities from e-commerce

- Statistics Canada is increasingly relying on alternative and administrative data sources, to acquire more robust price observations for more products and services.
  - Access to prices on-line and through web scraping and APIs
  - Access to service details for quality adjustment and product specification
  - Third party activities to track information reported online e.g. financial services, firms scraping websites
  - Higher volumes of data available without burdening respondents



## E-commerce challenges for National Accountants

- Classification of digital products and bundling some transactions are likely already accounted for in the SNA, but risk of missing them or double counting
- Borderless transactions through e-commerce and digital delivery –
  when Canadian households buy digital services from a non-resident
  business (e.g. Netflix), may not be classified correctly in SNA.
- Proliferation of digital platforms
  - Platforms facilitate exchanges between two independent units but many operate outside of Canada
- Households producing service outputs
  - No production account for household sector (even if the value is reported through tax, there is no detail on the inputs used and products produced by the household)
  - Growing measurement gap in the output and value-added of the household sector



## E-commerce challenges for National Accountants (2)

Questions added to Labour Force Survey in 2016 to collect information on household sharing economy (peer-to-peer) activities <a href="http://www.statcan.gc.ca/daily-quotidien/170228/dq170228b-eng.htm">http://www.statcan.gc.ca/daily-quotidien/170228/dq170228b-eng.htm</a>

#### The questions asked were:

- 1. In the past 12 months, did you use ride services such as Uber, Lyft, etc.?
- 2. In the past 12 months, what was the total amount that you personally spent on these ride services in Canada?
- 3. In the past 12 months, did you use private accommodation services such as Airbnb, Flipkey, etc.?
- 4. In the past 12 months, what was the total amount that you personally spent on these private accommodation services in Canada?
- 5. In the past 12 months, what was the total amount that you personally spent on these private accommodation services outside of Canada?
- 6. In the past 12 months, did you offer ride services such as Uber, Lyft, etc.?
- 7. In the past 12 months, did you offer private accommodation services such as Airbnb, Flipkey, etc.?

The response rate for these questions was 88%. The LFS has a sample of approximately 100,000 individuals.

Separate supplement to be added to collect household expenditures on digital products



#### Conclusion

- E-commerce poses a number of challenges to the measure of service activities
- Even more challenges are stemming from the changes in the products being transacted
- More work needs to be done to look at impact of digitalization on the products, industries and measurement of services