



Dealing with economic shocks: How Statistics Canada pivoted during the pandemic

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Delivering insight through data for a better Canada



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Making greater use of administrative tax data



Statistical operations and methods : strategies during the pandemic

Survey data collection during the pandemic

Streamlined approach for the Service Industries Program

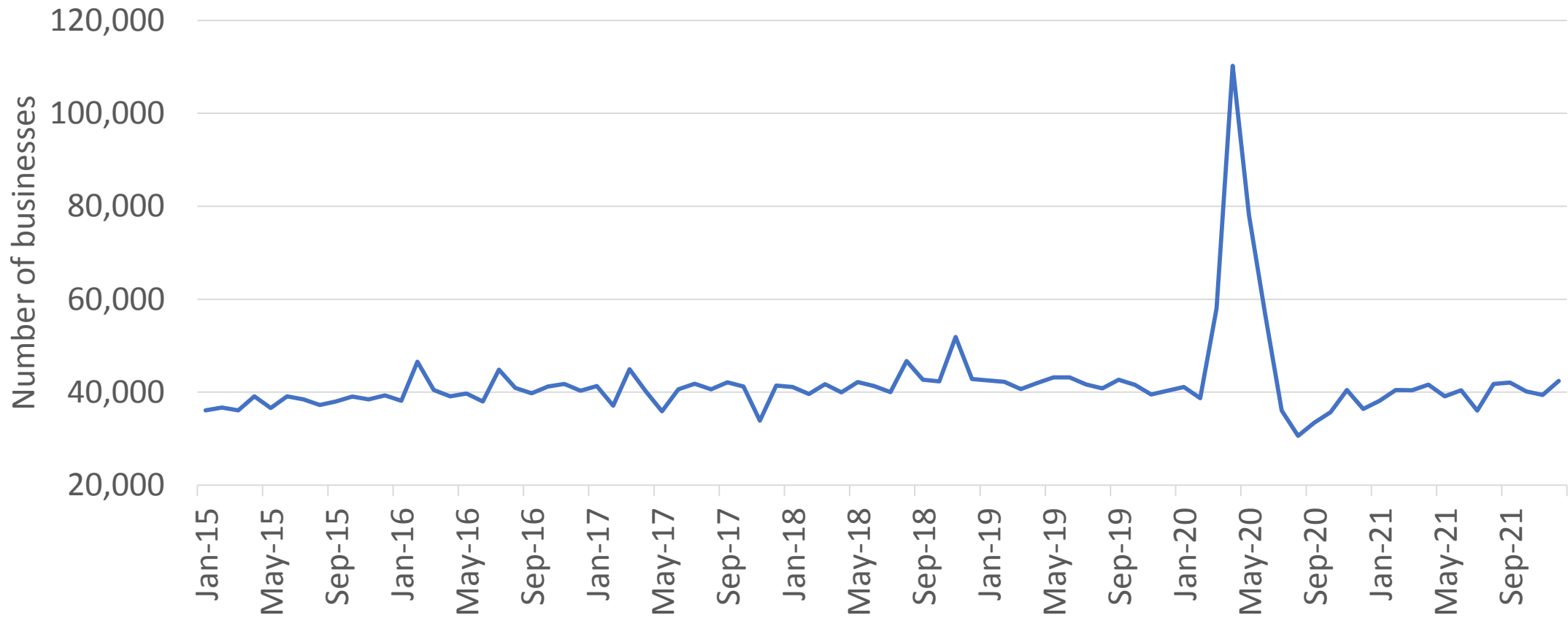
- Smaller portion of the sample was collected
- Focused on critical units

Challenges

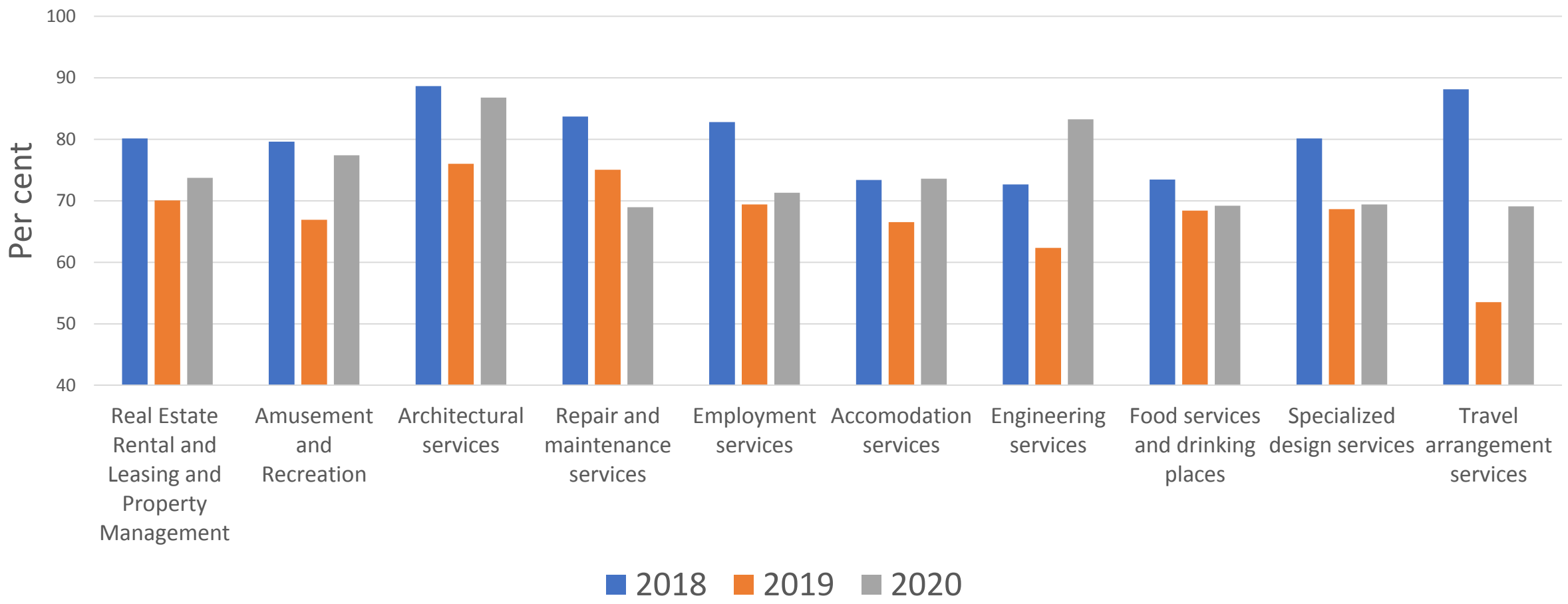
- Many business closures
- Several new surveys related to COVID-19



Business closings, January 2015 to December 2021, Canada



Revenue-weighted response rates in per cent for selected annual surveys of services industries, reference years 2018 to 2020, Canada





Statistical operations and methods : strategies during the pandemic

Imputation methods

- Unprecedented shock to the economy
- Make use of current information from similar reporting units

New data developments : advanced indicators

Advanced estimate of retail sales

- Need more timely information with rise of e-commerce
- Make use of early respondents

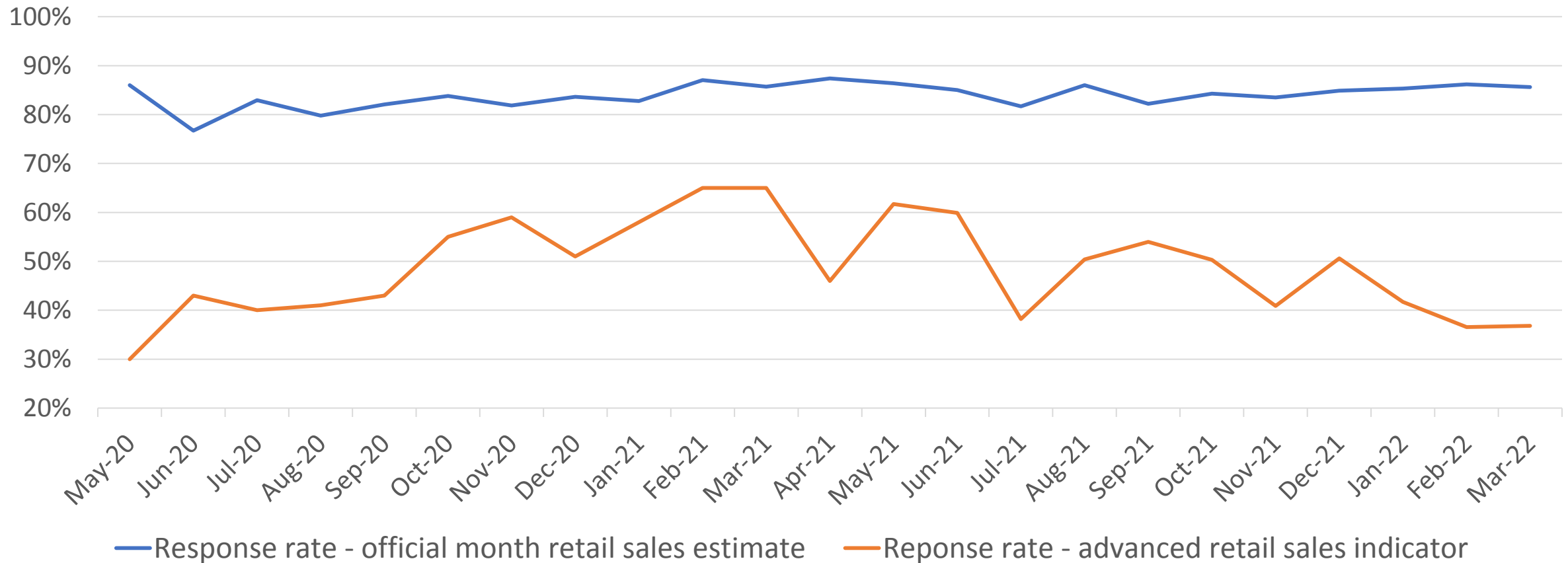
Advanced estimate of wholesale sales

- Largely relies on early respondents as well
- More disaggregated by subsectors

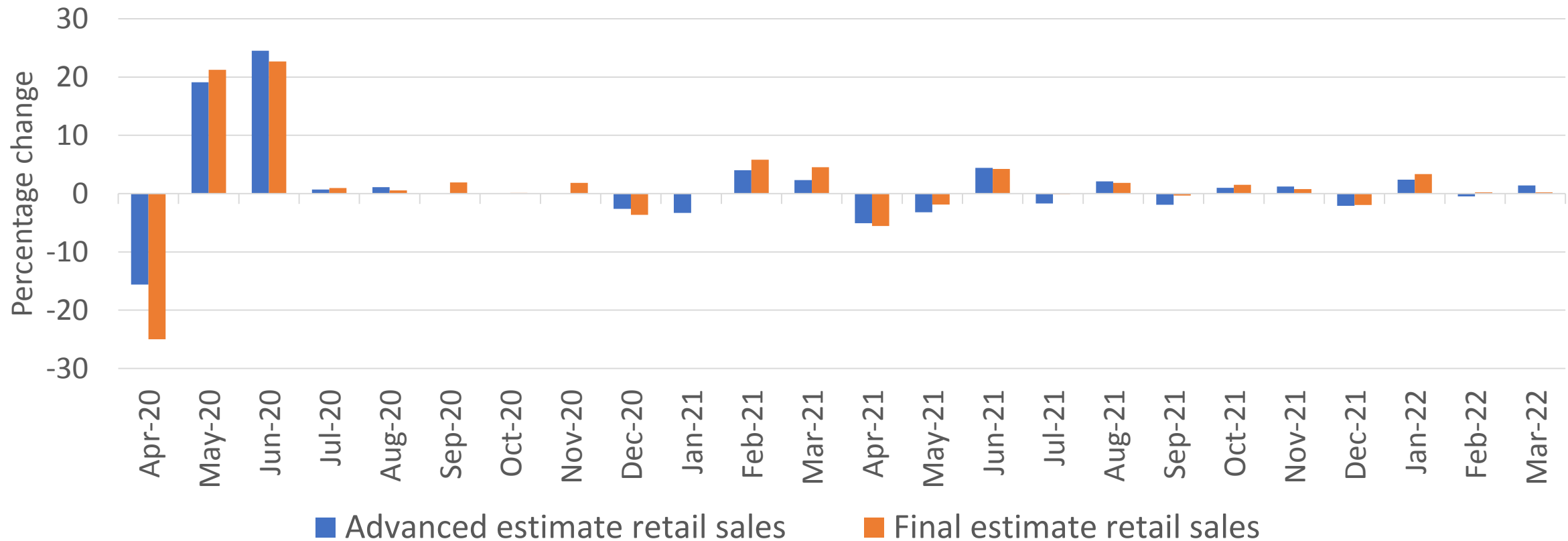
Flash GDP

- Based on methodology that combines qualitative and quantitative information
- Trade-off between accuracy and timeliness

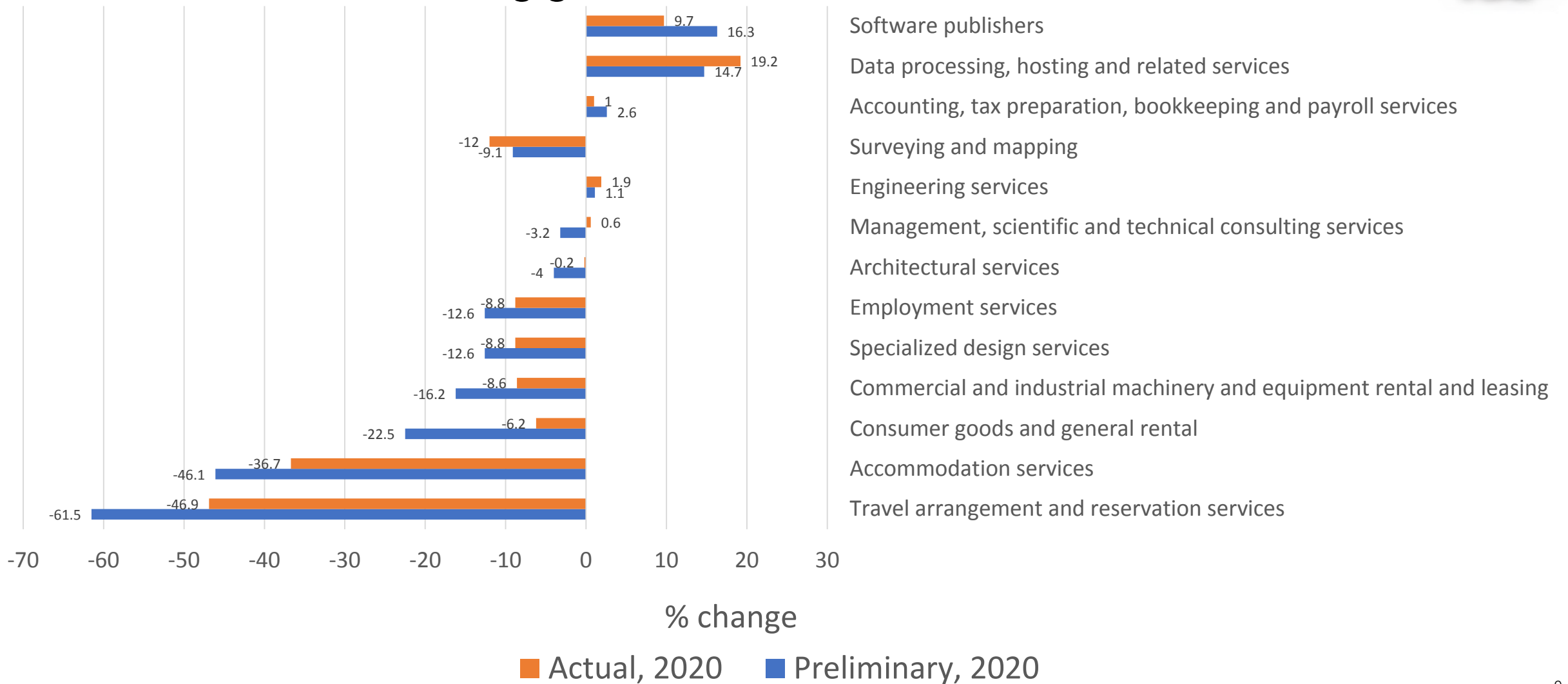
Response rates in percent for the Monthly Retail Trade Survey, May 2020 to March 2022, Canada



Advanced indicator of retail sales and final estimate of retail sales, percentage change, April 2020 to March 2022, Canada



Making greater use of administrative tax data



Statistical measurement challenges

Data gaps- digital economy

- E-commerce
- Platform-based activities

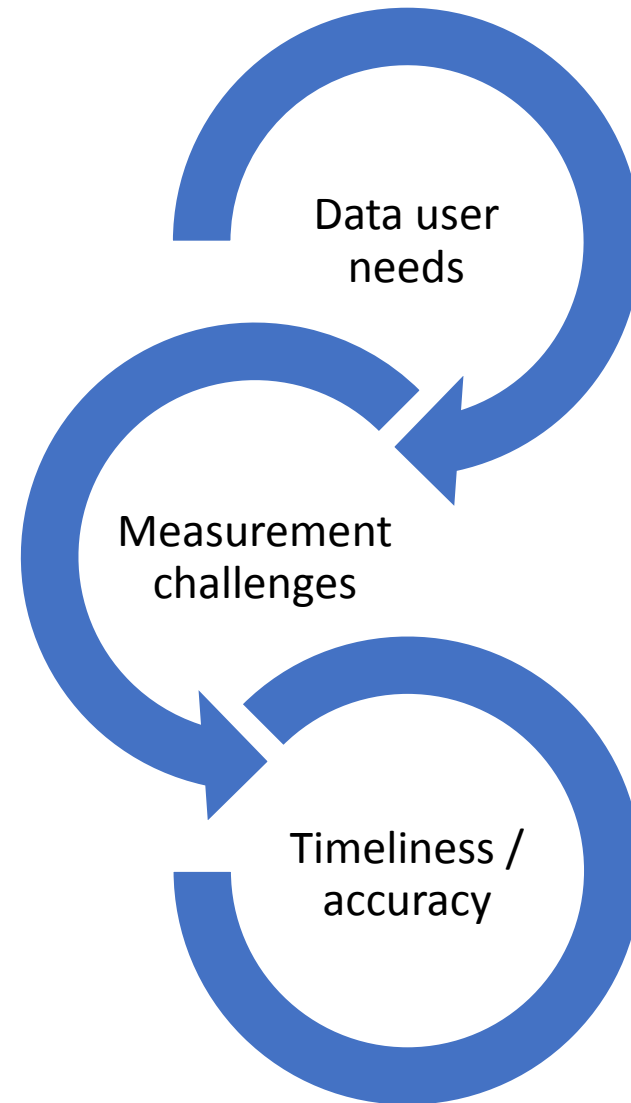
Lack of a business frame

- Cloud computing
- Cryptocurrency mining

Leveraging alternative data sources

- Administrative tax data
- External data sources

Final Thoughts



Discussion / Questions

Thank-you / Merci!

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