

Statistics Canada Modernisation of Retail Services Price Index







Delivering insight through data for a better Canada

Retail Services Price Index: Modernization

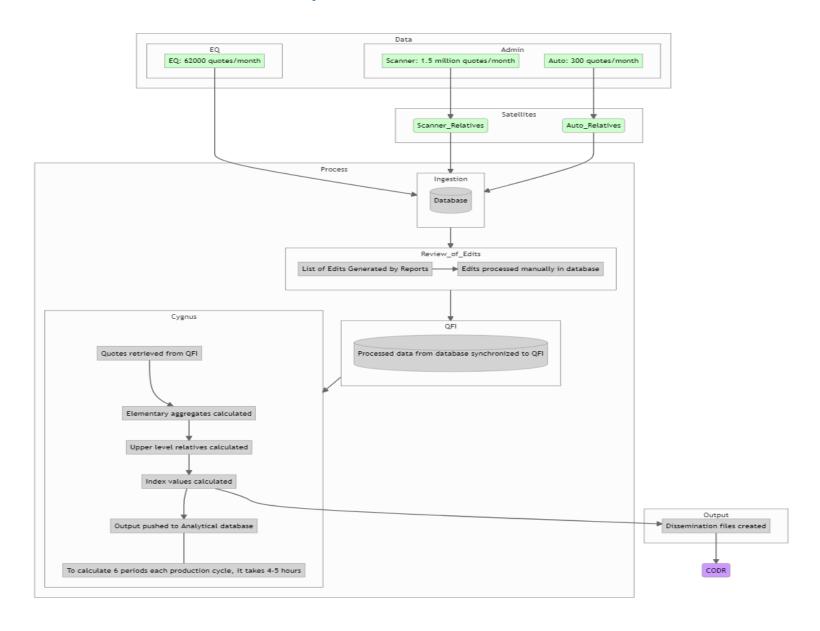
- Starting two years ago, the Retail Services Price Index commenced a modernization project to make it more relevant and efficient
- Modernization was tackled on two fronts:
 - Data
 - Production Systems

Retail Services Price Index: Data Modernization

- Effort was put into improving the quality of data
- Two major outcomes:
 - Incorporation of Scanner data to improve the quality of our index in NAICS 44511: Supermarkets and other grocery (except convenience) stores
 - Around 1.5 million quotes per month
 - Incorporation of an admin source to measure NAICS 44111: New car dealers in our next basket which was previously not measured in the Retail Services Prices Index
 - About 300 quotes per month
- In addition, products have been NAPCS coded to allow for more detailed analysis at product level indices when needed



Retail Services Price Index: System Modernisation - Flow Chart of Current Process



Retail Services Price Index: Current Process vs New Process

Current Process

Maintenance

- Complex ecosystem with multiple systems
- Changes and improvements require help of IT

Not Flexible

- Process is rigio
- Need to follow pre-defined steps
- Very cumbersome to adapt and implement new baskets

Inefficient

- Processing of data is manual
- Calculation of index takes a long time i.e. 4 to 5 hours for each run

Cost

Costly to maintain due to multiple systems

New Process

Maintenance

- Simpler ecosystem
- Changes can be done without IT support

Flexible

- Easy to adapt
- New processes can be added easily

Efficient

- Much faster to calculate: minutes instead of hours
- Processing of data can be automate

Cost

- Uses open-source software
- Less IT resources needed

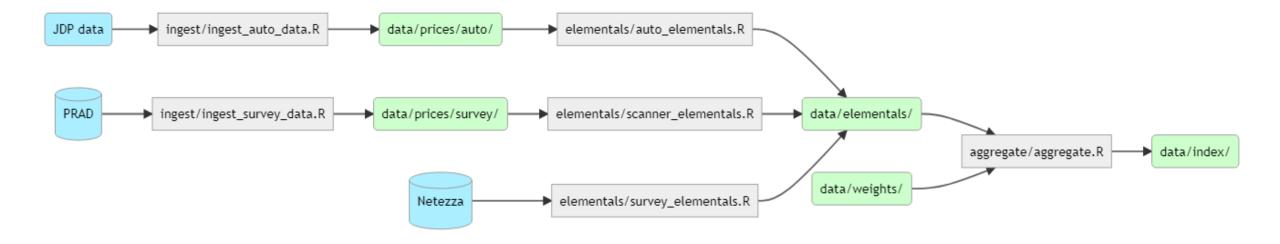


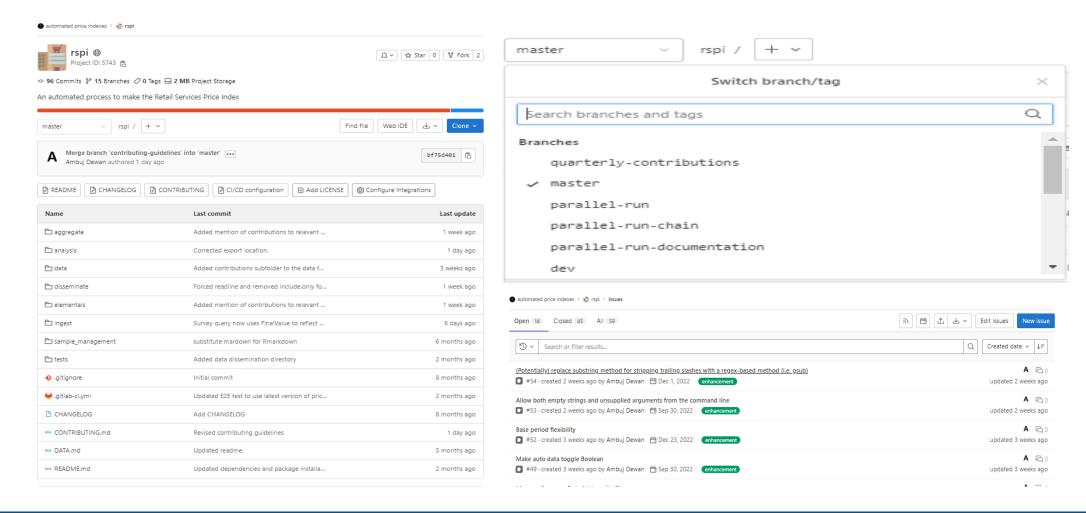




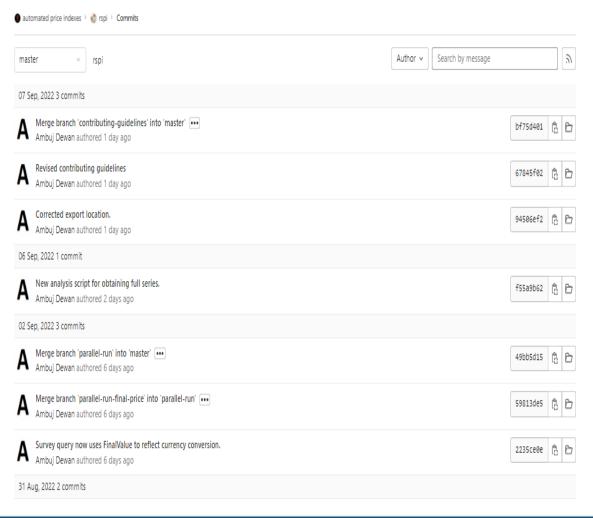


Retail Services Price Index: New Process Flow Chart















> RSPI > 2022Q2								
ne	^	Date modified	Туре	Size				

Name	Date modified	Туре	
Automation_RSPI_Demo	9/8/2022 8:45 PM	File folder	
Name	Date modified	Туре	Size
aggregate	9/8/2022 8:43 PM	File folder	
analysis	9/8/2022 8:43 PM	File folder	
data	9/8/2022 8:44 PM	File folder	
disseminate	9/8/2022 8:44 PM	File folder	
elementals	9/8/2022 8:44 PM	File folder	
ingest	9/8/2022 8:44 PM	File folder	
sample_management	9/8/2022 8:44 PM	File folder	
tests	9/8/2022 8:45 PM	File folder	
gitignore	9/8/2022 8:43 PM	Text Document	1 K
gitlab-ci.yml	9/8/2022 8:43 PM	YML File	1 K
Automation_RSPI_Demo	9/8/2022 8:45 PM	R Project	1 K
CHANGELOG	9/8/2022 8:43 PM	File	1 K
CONTRIBUTING.md	9/8/2022 8:43 PM	MD File	3 K
DATA.md	9/8/2022 8:43 PM	MD File	8 K

9/8/2022 8:43 PM

MD File

5 KB

README.md

