

# Development of Final Demand-Intermediate Demand Price Indexes

## 39<sup>th</sup> Meeting of Voorburg Group of Service Statistics

Xin Ha

Producer Prices Division

Statistics Canada

September 23, 2025



Delivering insight through data for a better Canada



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# Outline

1. Why do FD-ID?
2. Project Overview
3. Methods
4. Class Structure
5. Implementation
6. Coverage
7. Issues
8. Next steps



# Why?

- Provides aggregate price change measures not currently produced by Statistics Canada
- Utilizes detailed data from Input-Output and Supply-Use tables
- Designed to be flexible and easily adjustable
- Attracting interest from stakeholders, including the Bank of Canada
- Aligned with approaches used by other national statistical organizations



# Project

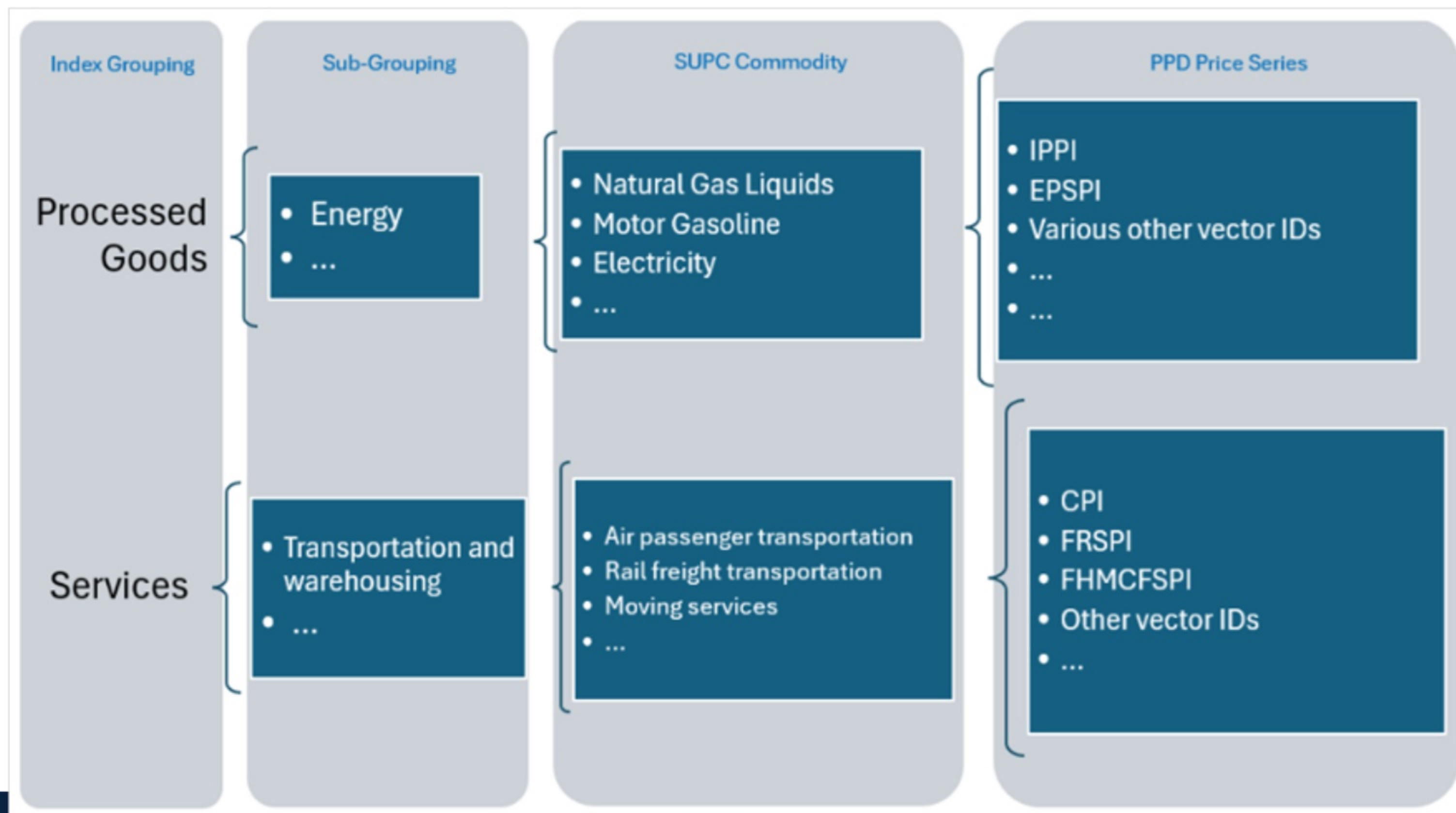
- Initiated with a commodity-based approach
- Planning to release as an “experimental” index before starting Production Flow aggregation
- Follows Bureau of Labor Statistics structure, adapted for Statistics Canada data



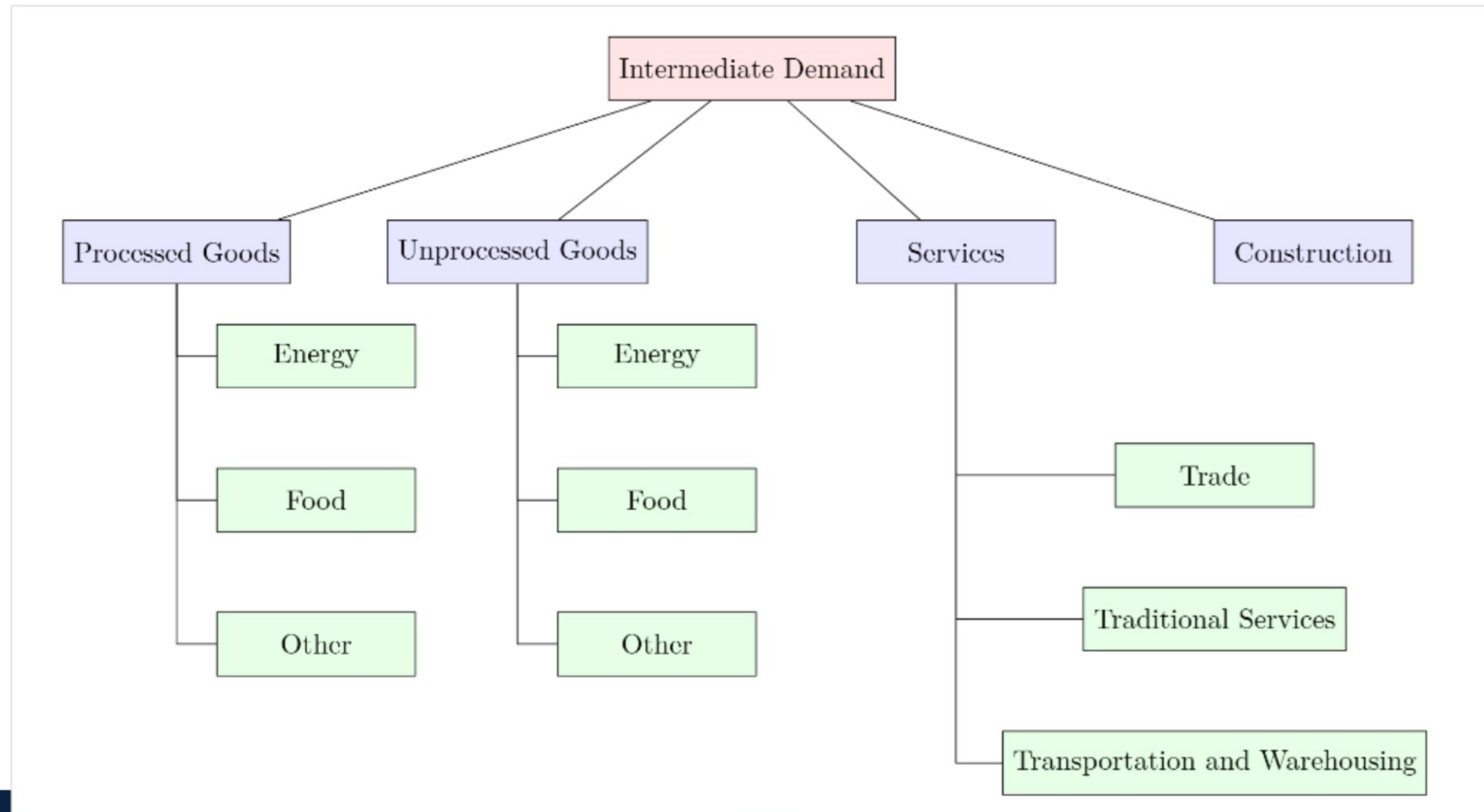
# Use Table at Basic Prices

Index Grouping	SUPC Commodities	SUPC Industries												
		Inputs (Intermediate Demand)			Final uses (Final Demand)									
		1	2	3	Personal Consumption			Private Capital Investment		Government Capital Investment			Exports	
					1	2	3	4	5	6	7	8	9	10
Unprocessed Goods	1													
	2													
	3													
Processed Goods	4													
	5													
Services	6													
	7													
Construction	8													

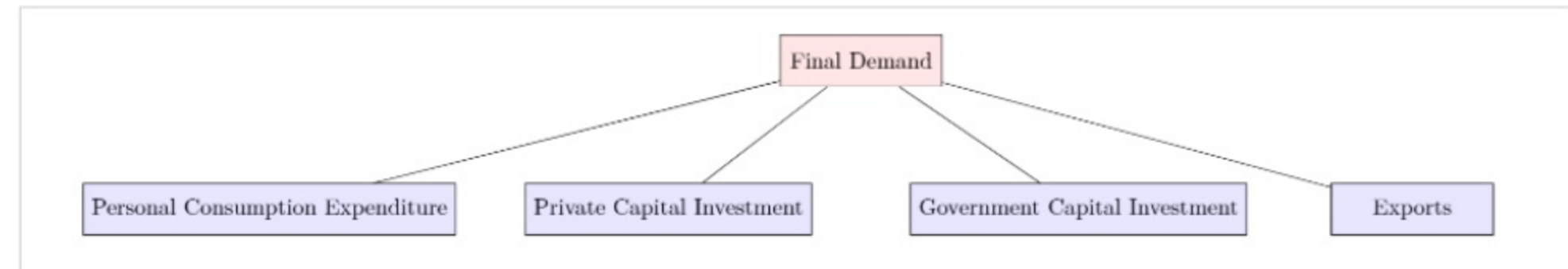
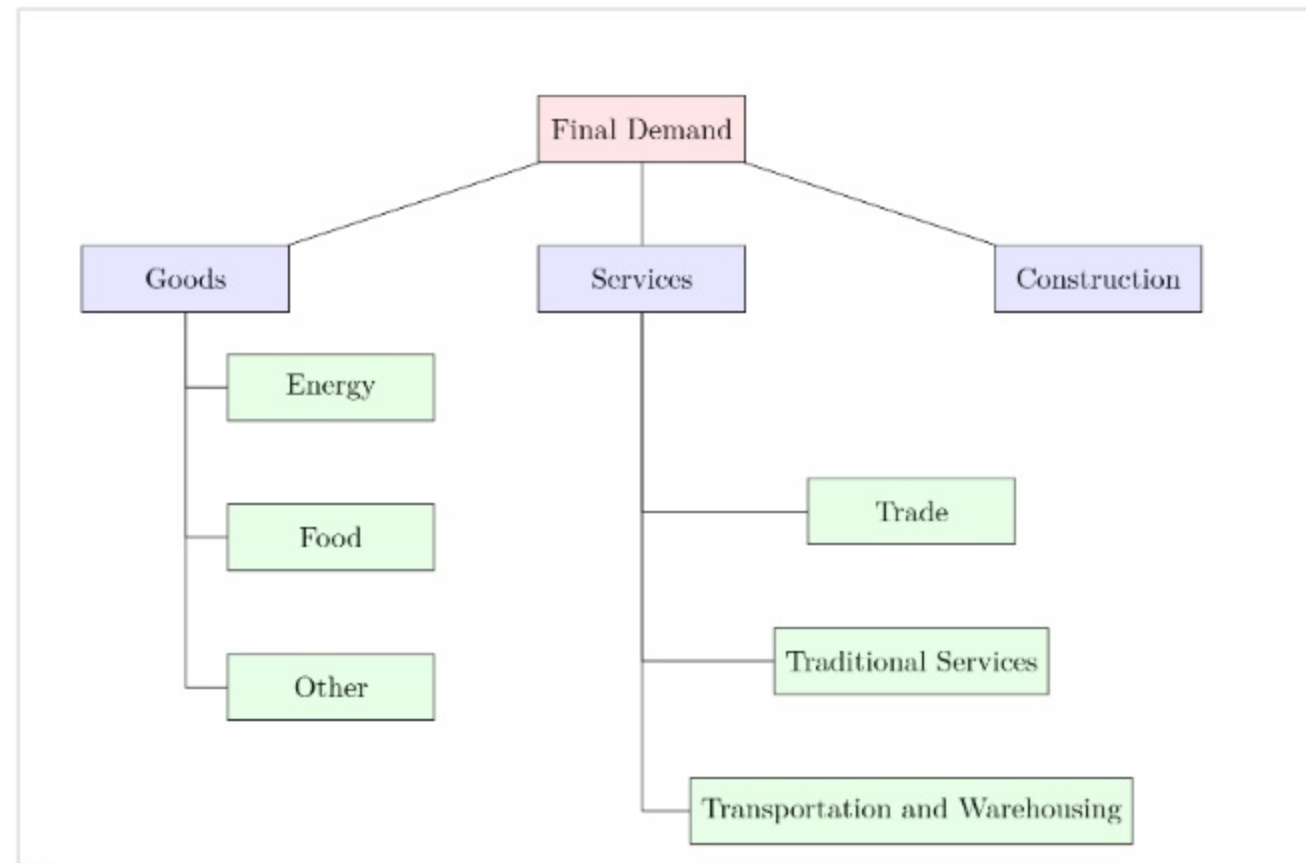
# Concordances



# Intermediate-Demand Class Structure



# Final-Demand Class Structure



# Implementation

- Calculated in R using the [piar](#) package developed internally
- Lowe index, weights updated with release of Supply-Use tables
- Quarterly release
- 3-month lag between reference period and release

# Coverage

## Intermediate-Demand Coverage

Classification	Coverage
Overall	71.48%
Processed Goods	100.00%
Unprocessed Goods	100.00%
Services	49.40%
Services less Trades, Transportation and Warehousing	42.17%
Services - Trades	98.15%
Services - Transportation and Warehousing	54.28%
Construction	100.00%

## Final-Demand Coverage

Classification	Coverage
Overall	74.71%
Goods	98.98%
Services	53.52%
Construction	65.49%
Personal Consumption Expenditure	69.75%
Personal Capital Investment	70.31%
Government Capital Investment	54.69%
Exports	88.18%

# Challenges

- Coverage on the services side
- Concordance mapping
- Standardizing data from diverse sources and surveys
- Integrating data managed by multiple teams with varying workflows and timelines
- Finalize index for release

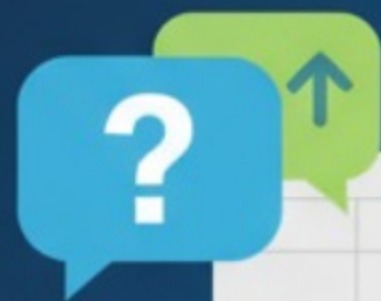


# Next Steps

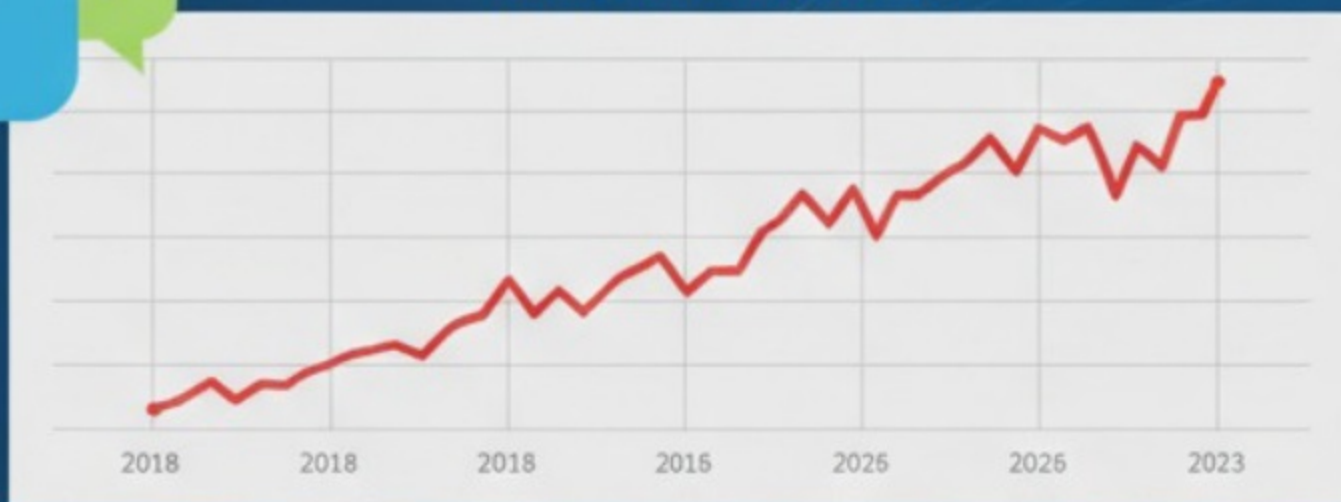
- Refactor and finalize production code and pipeline
- Finalize class structure and release levels
- Complete documentation
- Review finalized results
- Prepare for publication
- Begin production flow development



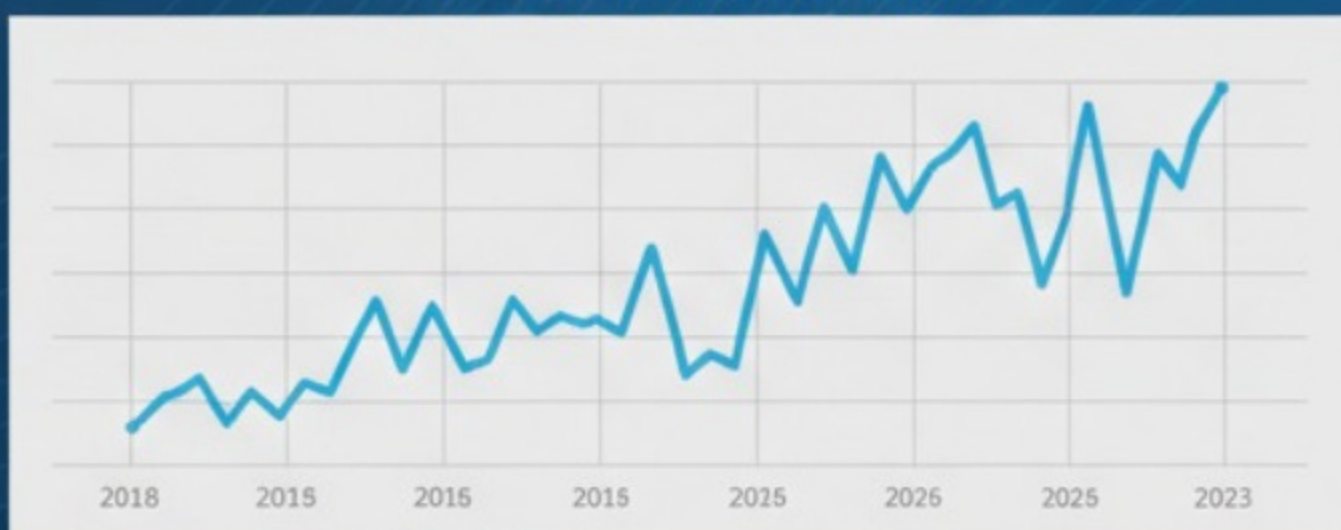
# Questions?



FINAL DEMAND PRICE INDEX



INTERMEDIATE DEMAND PRICE INDEX



DISCUSSION & QA