





Labour Shortages in Canada

Erwin Gomez Gomez Employment and Social Development Canada (ESDC) June 22, 2023

Structure

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- Labour Market Information System in Canada
- Canadian Occupational Projection System (COPS)
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 - Challenges



About ESDC

Federal ministry that works to improve the standard of living and quality of life for all Canadians. We do this by promoting a labour force that is highly skilled, and an efficient and inclusive labour market.



Labour Market Information System in Canada

Federal	 COPS 3-year outlooks
Provincial	 Different products
Sector Councils	 Labour Requirement Specialized



What is COPS?

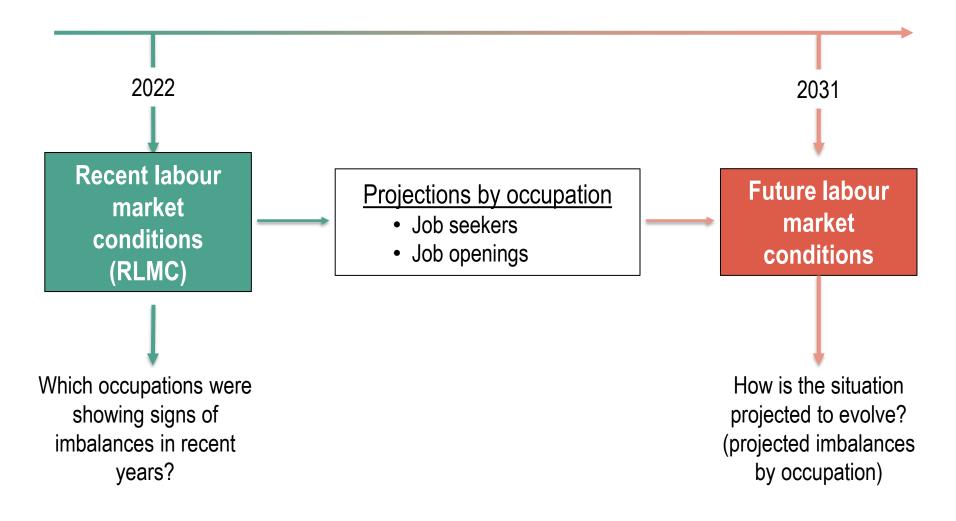
The Canadian Occupational Projection System (or COPS) is a suite of models developed and used by ESDC to project labour demand and labour supply, and identify labour market imbalances (shortage/surplus)



Examples of information that COPS provides:

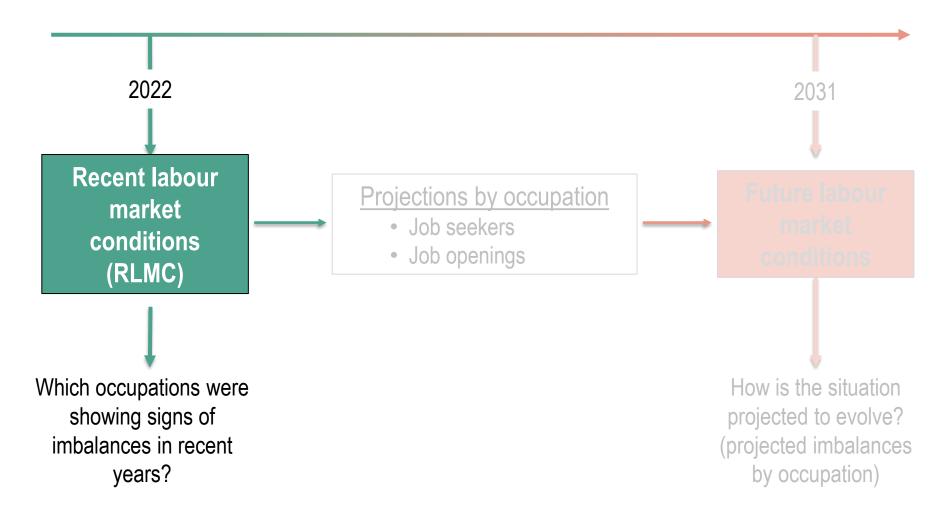
- Occupation with the strongest employment growth, or strongest/weakest retirement pressures
- What kind of education will be required to fill the job openings?
- How many new labour market entrants will come from the education system? Or immigration?

Structure of COPS



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Structure of COPS



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RLMC Methodology

Currently, there is <u>**no**</u> powerful automated method (or plug-and-play tool) to identify shortages. Our process consists of 3 main steps:





2. Overall Consultation with external stakeholders (direct and indirect)

> Sector Councils Industry organizations Professional Associations

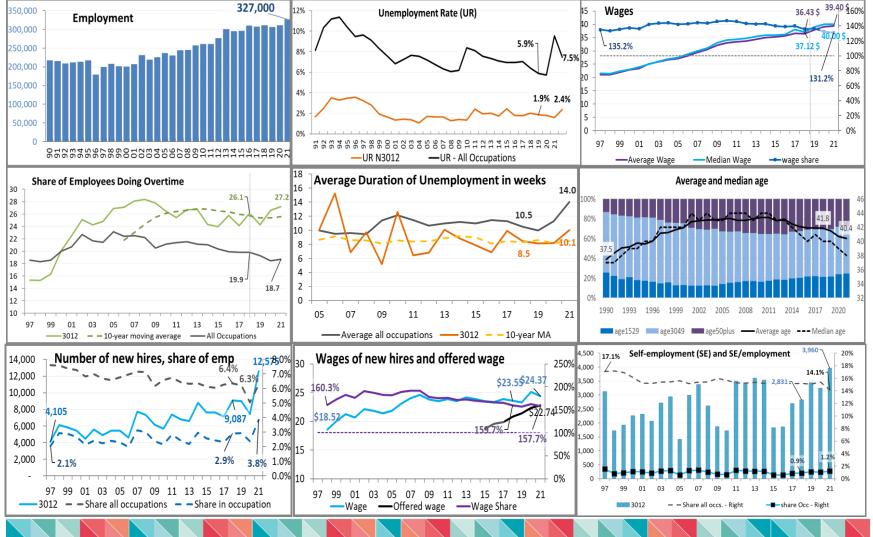


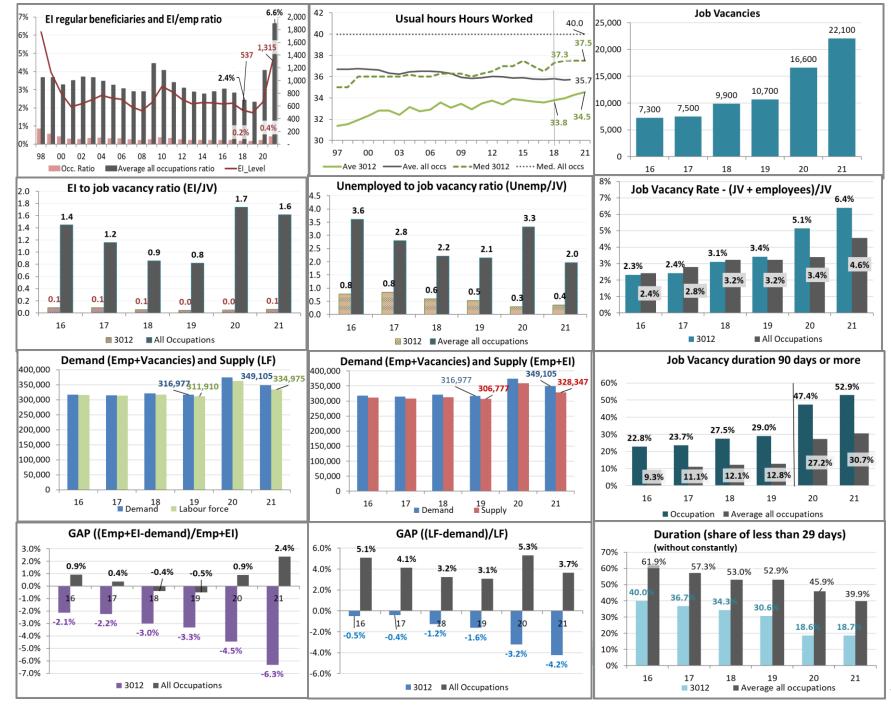
<u>3. Detailed Consultation</u> with regional economists within ESDC and

provincial partners

OCCUPATIONAL ANALYSIS

List of indicators – some graphs Registered nurses and registered psychiatric nurses (NOC 3012)



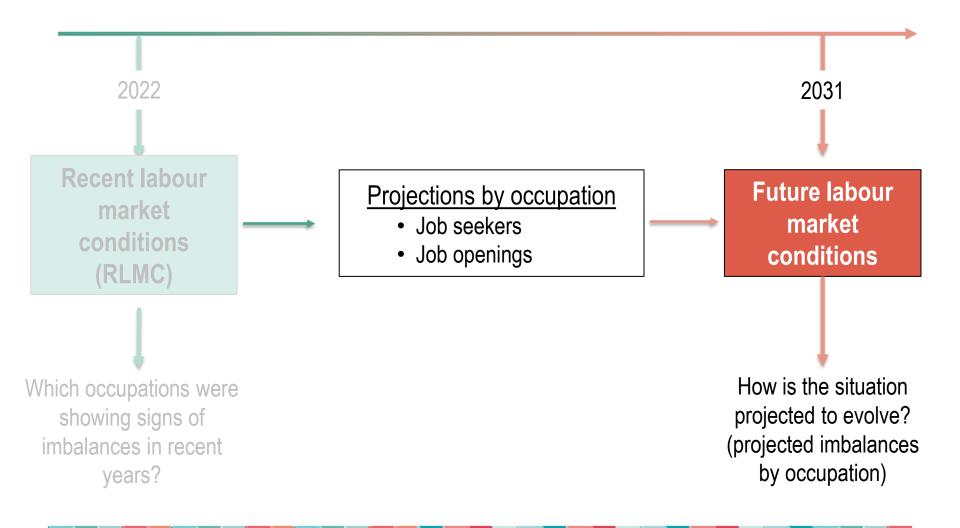


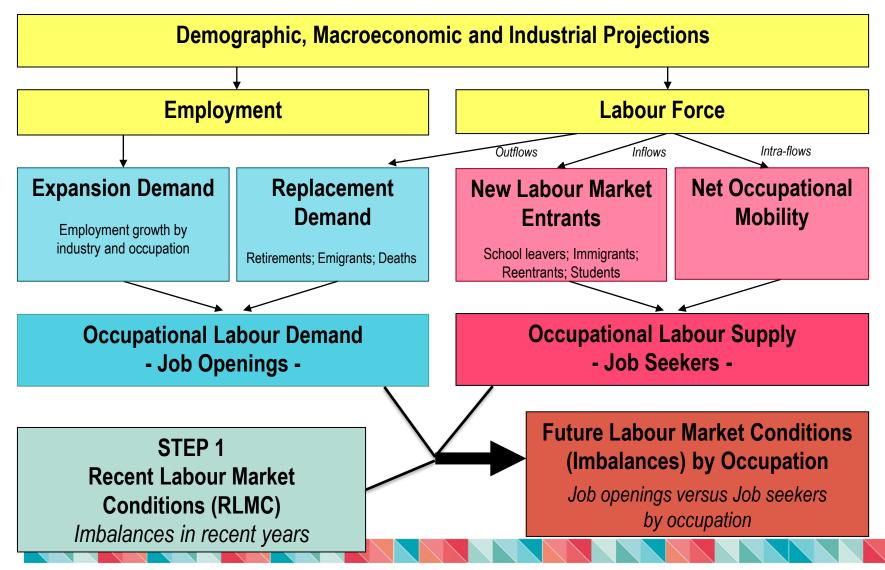
Recent Conditions: *There are currently twice as many occupations in shortage situation as there were prior to the pandemic*

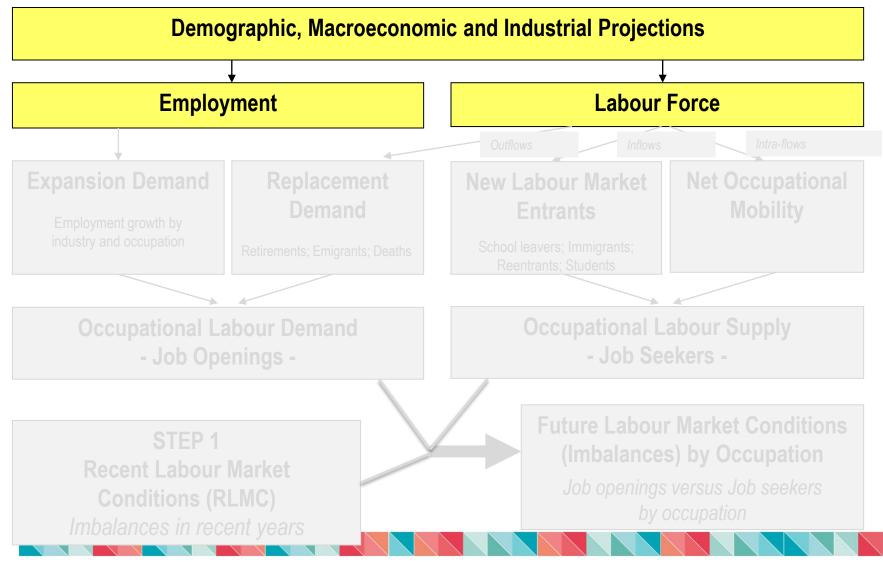
Occupational groupings showing signs of shortage or surplus conditions in recent years*									
Occupations showing signs of:	Number of occupations*	Share occupat	-	Employment, 2021	Share of total employment, 2021				
- Shortage – Struct.	38	13%)	2,812,000	15%				
- Shortage – fric./cycl.	20	7%		1,942,300	10%				
- Balance	228	78%)	13,936,600	74%				
- Surplus – Struct.	4	1%		115,700	0.6%				
- Surplus – fric./cycl.	– fric./cycl.		58,900		0.3%				
Occupations showing	signs of labour shor	tage	Occupations showing signs of <u>labour surplus</u>						
 17 health-related occupation 11 natural and applied scients 8 sales and services 8 trades 7 manufacturing occupation 3 natural resources and age 2 education, law, social and 2 management occupation 	ence ns priculture d government	 4 business, finance and administration 1 natural and applied sciences 1 arts, culture, recreation and sports 1 sales and services 							

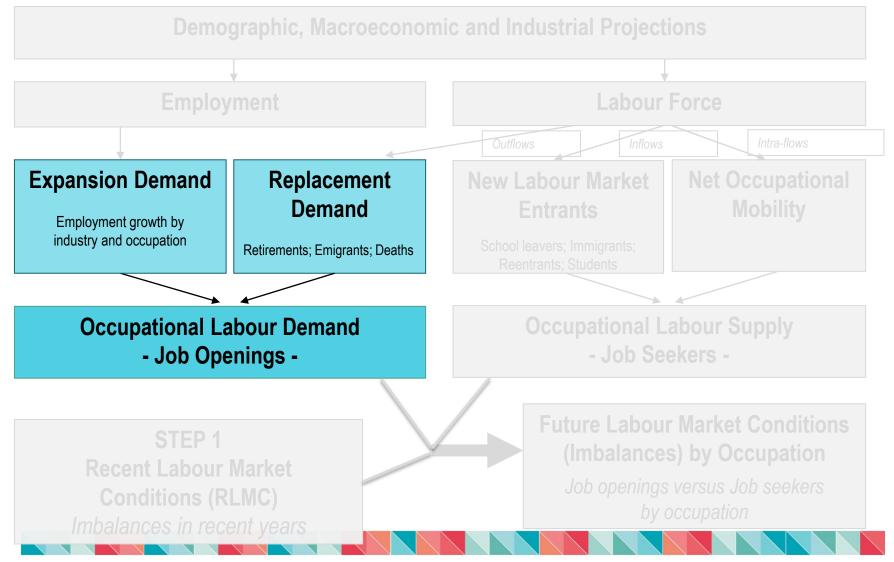
Sources: ESDC 2022 COPS Projections (preliminary) using ESDC and Statistics Canada data.

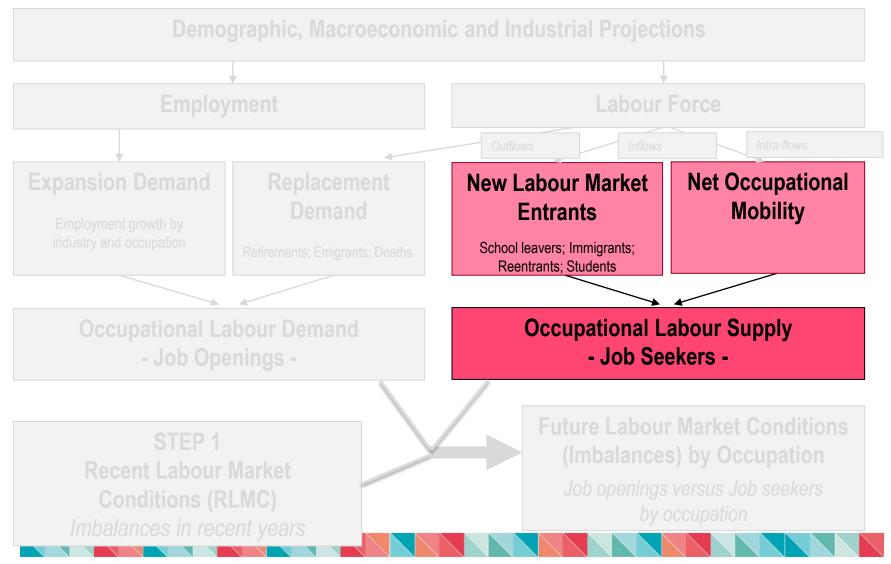
Structure of COPS

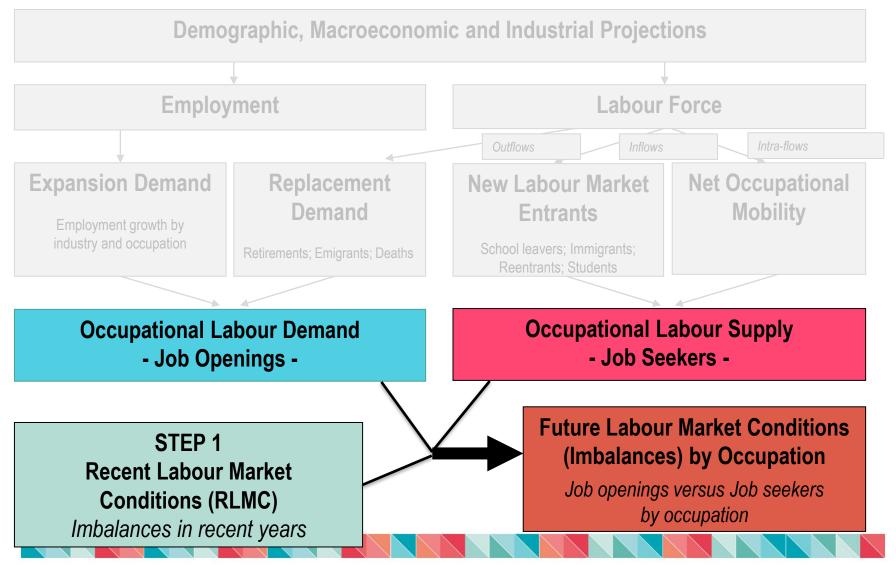










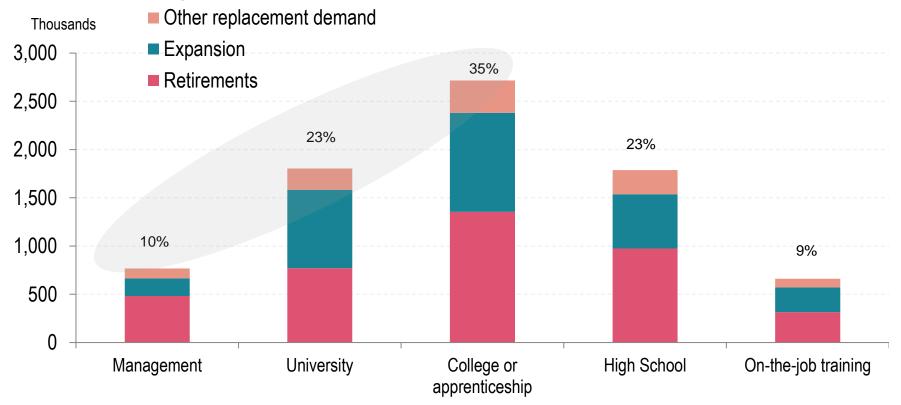


High level results – Mega-trends

Aging of Population	Population is aging in Canada. All baby boomers will surpass the typical retirement age (65 years old) by the end of the projection period.
Immigration	 Canada announced a plan to increase immigration to about 450,000 immigrants annually (previously 250,000 to 325,000), which is an average rate of 11 immigrants per 1,000 population
Automation	 Productivity impacting employment growth Impacting occupational distribution within industries: over / under utilization of occupations
Green Transition	 Canada's Emissions Reduction Plan (ERP) - reduce emissions to 40% below the 2005 levels by 2030 Carbon Pricing Clean Fuel Regulation (CFR) Complementary sectoral measures

Two-thirds of all projected job openings are in occupations usually requiring at least post-secondary education or in management occupations.

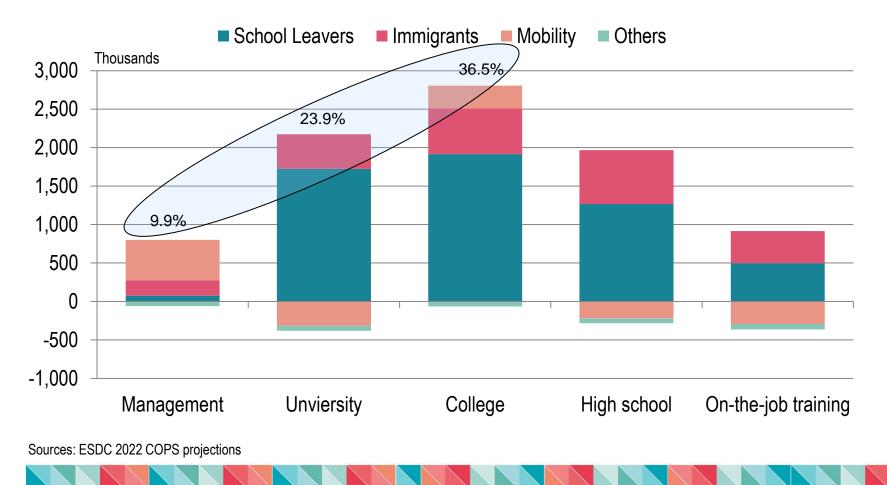
Job Openings from Expansion and Replacement Demand by Usual Educational Requirement, Projection 2022-2031



The shaded area represents the occupations are related to management or that typically required at least post-secondary Source: ESDC, COPS 2022 Projections.

Two-thirds of all job seekers are expected to look for work in occupations usually requiring at least post-secondary education (PSE), or in management occupations.

Job Seekers by Usual Educational Requirement, 2022-2031



Final outlook summary - Most frictional/cyclical imbalances return to balance, but some become structural.

Distribution of occupational outlooks, 2022-2031								
Occupations showing signs of:	Number of occupations	Share of occupations	% of emp. 2031	Ratio of Job Openings				
- Shortage (Structural)	$38 \rightarrow 56$	19.1%	20.8%	44.4%				
- Surplus (Structural)	4 →8	2.7%	1.0%	25.5%				
- Frictional/cyclical imbalances in recent years returning to Balance	23 →16	5.5%	8.3%	35.6%				
- Balance	213	72.7%	69.9%	40.9%				
Shortages		Surpluses						
 18 in health-related occupational group 14 in occupational groupings related to applied sciences. 9 in trades occupational groupings related construction. 4 in occupational groupings related to a 	natural and ted to	finance an 1 in occupa applied sc	 2 in sales and services related occupational 					
4 in occupational groupings related to r	nanufacturing.		1 in occupational groupings related to Occupations in art, culture, recreation and sport.					

Sources: ESDC 2022 COPS Projections (preliminary) using ESDC and Statistics Canada data.

<u>Top 10 skills</u> with the largest difference between occupations expected to be in shortages and surplus conditions, 2022-2031

	IN SHORTAGE	IN SURPLUS	ALL OCCUPATIONS
Science	31.5	9.8	18.2
Operations Analysis	31.7	18.2	26.1
Trouble shooting	28.4	16.8	23.2
Operation Monitoring	38.7	28.2	34.7
Quality Control Analysis	37.3	27.0	32.8
Learning Strategies	45.1	35.6	41.3
Systems Evaluation	42.4	33.2	38.1
Active Learning	51.1	42.9	47.2
Instructing	46.5	38.4	42.7
Management of Personnel Resources	42.0	34.0	40.3

Source: ESDC, COPS 2022 projections and using O*NET (Author's estimates).

Uses - LMI

- Job Bank: Canadians and councilors for career planning.
- Immigration, Refugees and Citizenship Canada (IRCC):
 - Economic immigrant:
 - Skilled workers;
 - Trades.
 - Immigration level planning.
- Temporary Foreign Worker Program:
 - Labour Market Impact Assessments (LMIAs);
 - Global Talent Program (priority processing for certain occupations);
 - Pilot projects (Alberta negative list).
- Youth Employment Strategy (YES).
- Foreign Credential Recognition Program.
- International trade negotiations

COPS Challenges

- It is extremely time consuming
- Small sample size for what it is demanded
 - Too much volatility
 - Suppressed data
- Lack of further occupational detail
 - New NOC offers new details, e.g. IT occupations
- Lack of understanding of what it can do and what it is built for
 - Labour requirement
 - Business cycles
- Lack of consensus to serve everyone
- No historical data for some components (e.g. School Leavers, emigration, others)
- Provincial and Regional imbalances are masked by a national view

Merci Thanks

Canadian Occupational Projection System (COPS)

https://occupations.esdc.gc.ca/sppc-cops

(or just type COPS Canada in your search engine)

Generic email: <u>SPPC-COPS@hrsdc-rhdcc.gc.ca</u>

