



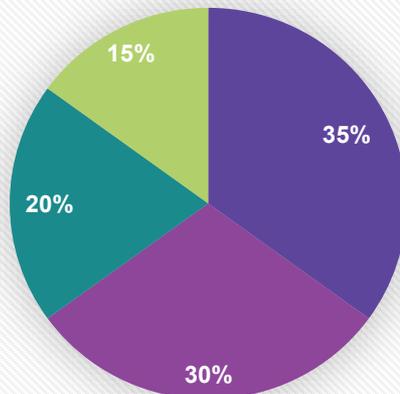
Wildfire Mapping Products At ESDC



Geomatics Across ESDC

- Skills & Employment Branch (GSU),
- Chief Data Office Branch,
- Program Operations Branch,
- Service Canada Regions (WT, On, QC, Atlantic).

Geomatics Services Unit

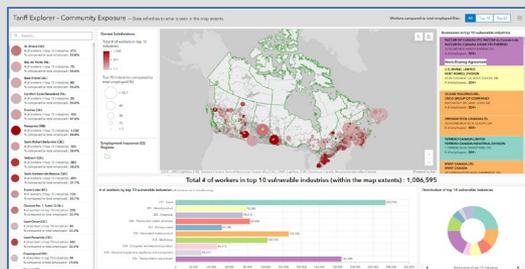


- Geospatial Analysis for Program Delivery & Policy Development
- Operational Geospatial Products (Geo-Enabled Datasets)
- Geomatics Software/Data Product Management & Support
- Cartographic Production



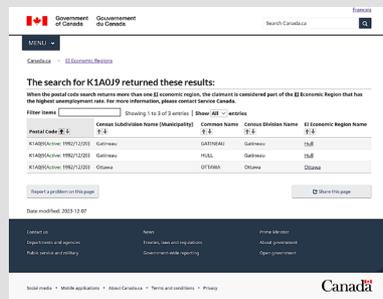
Tariff Impact Analysis / Dashboards

- Regions / communities most vulnerable to trade disputes (tariffs)
- Weekly EI Applicants “Hot Spots”



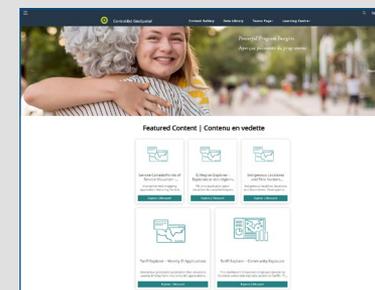
Economic Region Database (ERDB)

- Employment Insurance postal code claimant linkage file



ArcGIS Enterprise

- Platform maintenance & User Enablement



Wildfire Mapping Projects at ESDC

Wildfires Postal Codes List

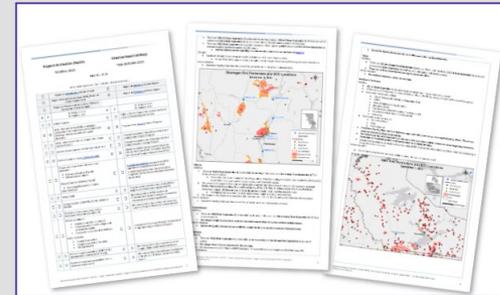
Supporting Service Canada's program delivery (Program Operations Branch)

	A	B	C	D	E
1	PostalCode	PR	CSDuid	CSDname	Comm_Name
2	TH00G1	48	4819048	Girouxville	GIROUXVILLE
3	TH02N2	48	4817026	Northern Sunrise County	NORTHERN SUNRISE COUN
4	TH03E0	48	4819059	Saddle Hills County	SILVER VALLEY
5	TH03W0	48	4817825	Clear Hills 152C	WORSLEY
6	TH04E0	48	4817095	Mackenzie County	ZAMA CITY
7	T851B6	48	4819038	Peace River	PEACE RIVER
8	T851J2	48	4819038	Peace River	PEACE RIVER
9	T851K7	48	4819038	Peace River	PEACE RIVER
10	T851M3	48	4819038	Peace River	PEACE RIVER
11	T851M6	48	4819038	Peace River	PEACE RIVER
12	T851X8	48	4819038	Peace River	PEACE RIVER
13	T9H4L8	48	4816037	Wood Buffalo	FORT MCMURRAY
14	T9H4T3	48	4816037	Wood Buffalo	FORT MCMURRAY
15	T9H5L9	48	4816037	Wood Buffalo	FORT MCMURRAY
16	T9K1M6	48	4816037	Wood Buffalo	FORT MCMURRAY
17	V0C1R0	59	5959806	Fort Nelson 2	FORT NELSON
18	T851G8	48	4819038	Peace River	PEACE RIVER
19	T851K2	48	4819038	Peace River	PEACE RIVER
20	T9H5G7	48	4816037	Wood Buffalo	FORT MCMURRAY
21	T9K1L9	48	4816037	Wood Buffalo	FORT MCMURRAY
22	TH04J20	48	4817093	High Level	HIGH LEVEL
23	TH04Z00	48	4817064	Hines Creek	HINES_CREEK



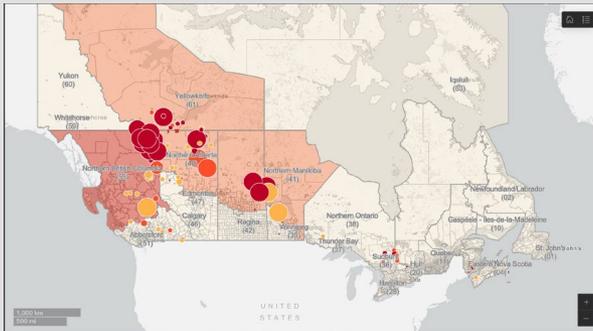
Service Canada Western Region

Identifying Postal Codes for Areas Under Evacuation Order for Regional Emergency Operations Centre (REOC) Situation Reports



EI Region Wildfire Impact Dashboard

Active Fires and Affected Communities.



Weekly Wildfire 24x36 Wall Map

Awareness



Employment Insurance (EI) Program Support



Geomatics Support

EI Economic Region Boundary Review: Conducted a mandated 5-year review involving geospatial and economic analysis, producing maps of current and proposed EI regions, integrating labour market data, and preparing results for ministerial and public release.

Disaster Impact Mapping: Tracked EI regions affected by natural disasters (e.g., wildfires, floods), supporting targeted policy responses and emergency planning.

Special Policy Projects: Supported pilot initiatives like the Inuit Nunangat unemployment rate application and contributed to studies on temporary residents' employment and EI usage.

Claimant Dispute Analysis: Mapped postal codes of claimants disputing EI unemployment rates to inform regional fairness assessments and policy evaluation.

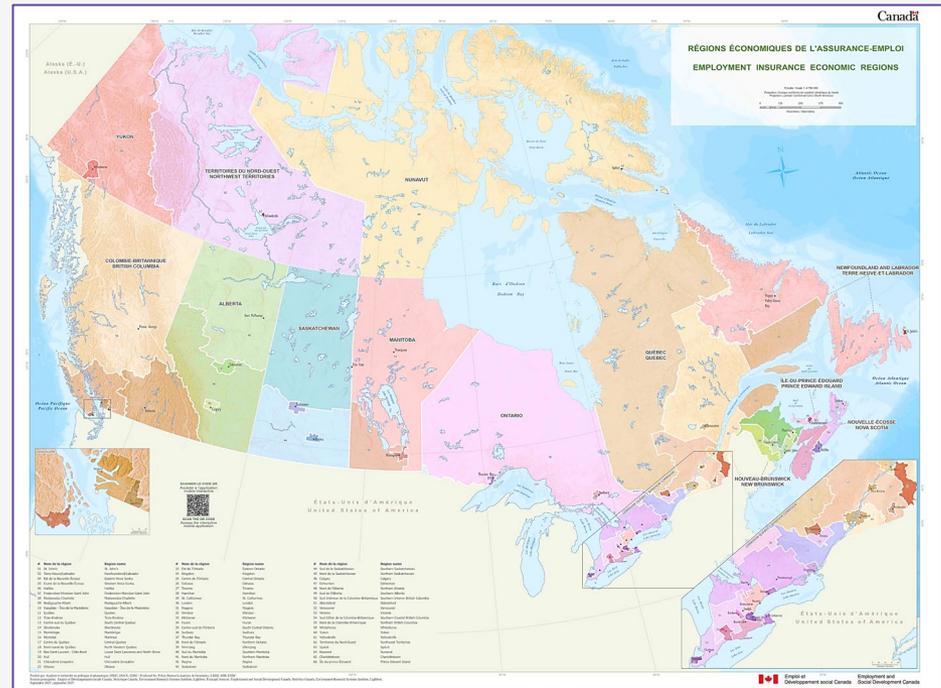
New Project – Optimizing financial support response times



Employment Insurance (EI) Regions

About the EI regions

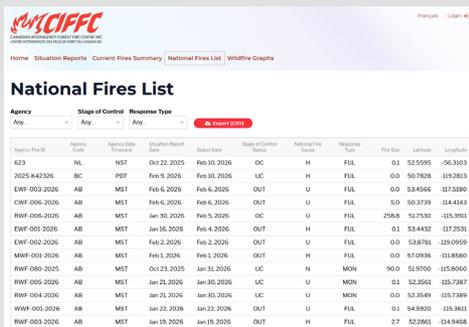
- EI regions are created by combining Statistics Canada census areas into larger zones for labour-market analysis.
- They bring together communities that share similar labour market conditions and unemployment patterns.
- Each EI applicant is assigned to one of these regions, which determines their eligibility and benefit parameters.



Our Data Pipeline to the Dashboard

Source of live wildfire data

Canadian Interagency Forest Fire Centre Inc. (CIFFC)



Agency Fire ID	Agency Code	Agency Name	Agency Date	Start Date	End Date	Status	Stage of Control	Nature of Fire	Response Unit	Fire Size	Latitude	Longitude
623	NL	NST	Oct 22, 2025	Feb 10, 2026	OC	H	FUL	01	52.5595	-56.3803		
2025-842326	BC	POF	Feb 9, 2026	Feb 10, 2026	UC	H	FUL	0.0	50.7928	-129.2613		
EWf-001-2026	AB	MST	Feb 6, 2026	Feb 6, 2026	OUT	U	FUL	0.0	53.8456	-117.5500		
EWf-006-2026	AB	MST	Feb 6, 2026	Feb 6, 2026	OUT	U	FUL	5.0	50.3739	-114.4143		
RWF-006-2026	AB	MST	Jan 30, 2026	Feb 5, 2026	OC	U	FUL	256.8	51.7350	-115.3111		
EWf-001-2026	AB	MST	Jan 16, 2026	Feb 4, 2026	OUT	H	FUL	0.1	53.4432	-117.2031		
EWf-002-2026	AB	MST	Feb 2, 2026	Feb 2, 2026	OUT	U	FUL	0.0	53.8781	-119.0559		
MWF-001-2026	AB	MST	Feb 1, 2026	Feb 1, 2026	OUT	H	FUL	0.0	57.0996	-119.8880		
RWF-001-2026	AB	MST	Oct 23, 2025	Jan 31, 2026	UC	N	MON	50.0	51.9760	-115.5660		
RWF-005-2026	AB	MST	Jan 21, 2026	Jan 30, 2026	UC	U	MON	0.1	52.3651	-115.7187		
RWF-004-2026	AB	MST	Jan 21, 2026	Jan 30, 2026	UC	U	MON	0.0	52.3549	-115.7389		
WWF-001-2026	AB	MST	Jan 22, 2026	Jan 22, 2026	OUT	U	FUL	0.1	54.5920	-115.3611		
RWF-003-2026	AB	MST	Jan 19, 2026	Jan 19, 2026	OUT	H	FUL	2.7	52.2861	-114.9468		

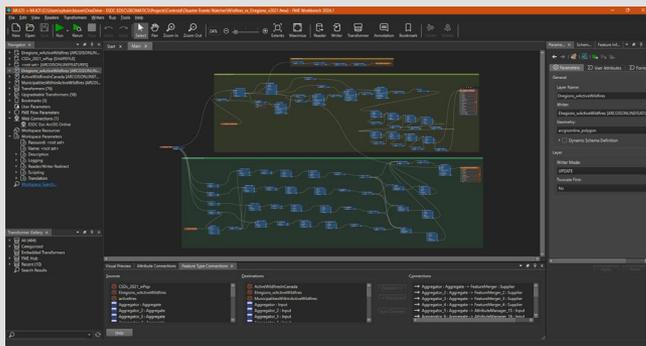
ArcGIS Online version

ESRI Canada maintains a GIS layer during wildfire season, which is available online



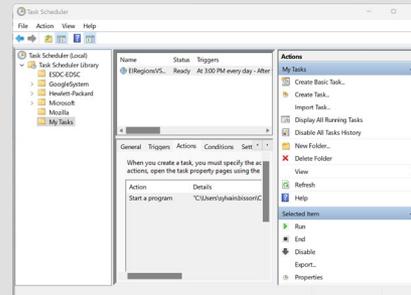
Data manipulation workflow

Using FME Form to extract, prepare and publish the data

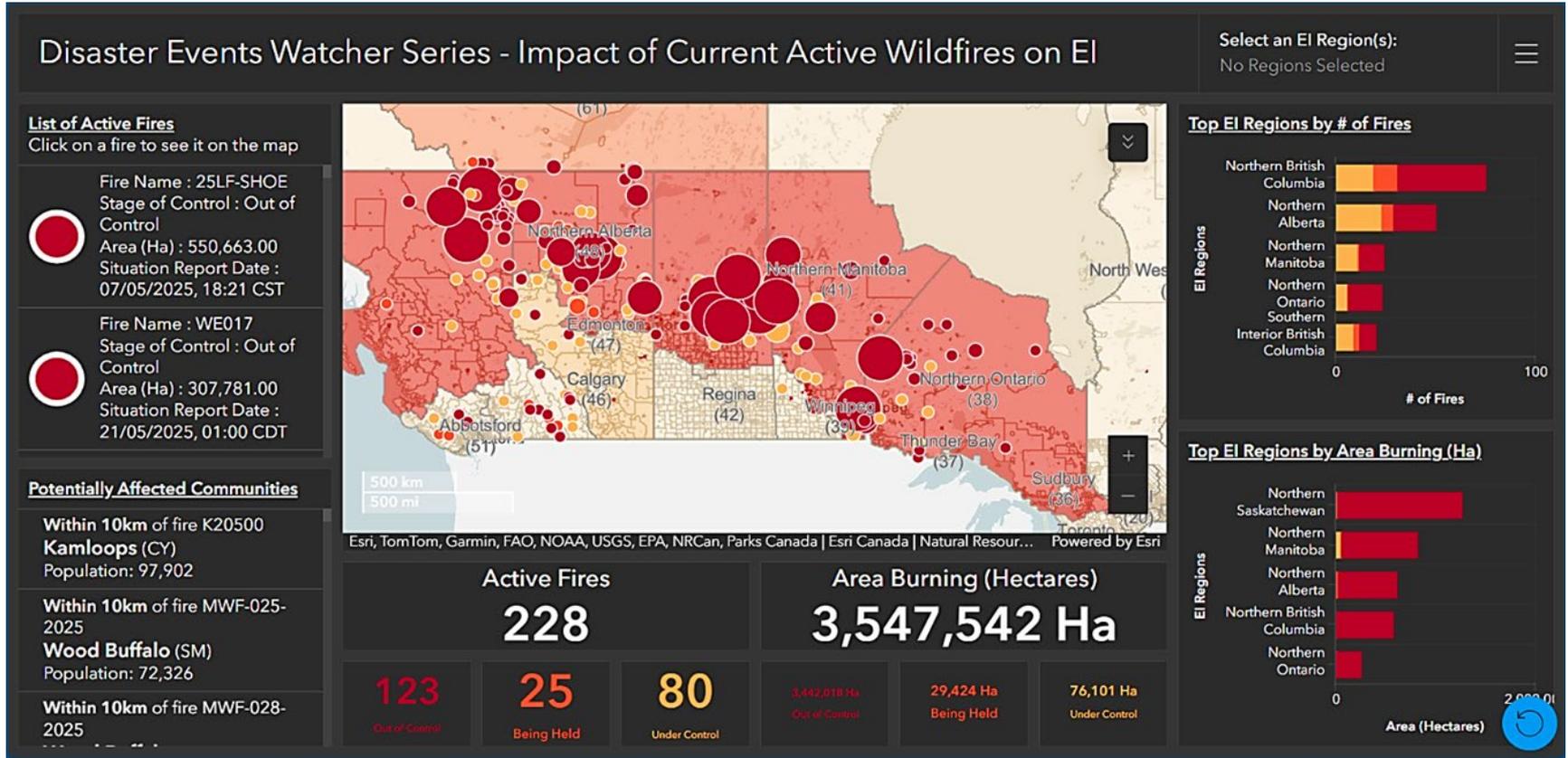


Automation process

A Task Scheduler runs the workflow every 6 hours to update data



DEMO - INTERACTIVE MAPPING APPLICATION / DASHBOARD



DEMO

