

What is Catena?

A real time search engine for government spending.

https://explorecatena.com



Search Interface



Spending Data Explorer

- Official Government of Canada theme
- Fully accessible
- Instant search

NRC-IRAP - Blockchain publishing prototype

The National Research Council of Canada, through its Industrial Research Assistance Program (NRC-IRAP) is using the Ethereum blockchain to proactively publish grants and contribution data in real time, a measure that complements ongoing guarterly proactive disclosures available through the Open Government website.

On the simplest level, blockchains are public ledgers that record transactions shared among many users. Once data is entered on a blockchain it is secure and unalterable, providing a permanent public record. This technology offers unprecedented levels of transparency and trust allowing public records to be searched. verified and audited at a level the world hasn't seen before.

Search published disclosures

▼ Filter Options	Total disclosed value: \$524,115,963					
Use the options below to filter	Filter items	Showing	Showing 1 to 10 of 4,489 entries Show 10 + entries			
your search results	Value	Recipient	City 1	Region 1	Date 🕇 🖡	
Date Any date 2016, Q1 2016, Q2 2016, Q3 Region Any region Alberta	\$11,849,091	Ryerson University	Toronto	ON	2016-Q4	details
	\$9,886,212	Invest Ottawa	Ottawa	ON	2016-Q4	details
	\$6,257,162	The Governors of the University	Edmonton	AB	2016-Q4	details
	\$6,109,138	Mars Discovery District	Toronto	ON	2016-Q4	details

Try it now! <u>nrc-cnrc.explorecatena.com</u>





National Research Council of Canada

Problem

Over \$300,000,000 of research grants are issued per year, and it is difficult to:

- Ensure contracts are signed for each grant
- Audit the total amount of grants issued to each company
- Make this data available to the public



Metrics



1,065,387

Requests served during launch week

\$519,776,133

Dollars of spending publicly disclosed

172

Countries with visitors





Blockchain in Canada



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Canadian Regulation Landscape

AML Regulator

FINTRAC

CANAFE





Question: How does a foreign firm get a clear picture of their freedom to operate inside Canada?

Enforcement: How will regulations be applied to foreign firms?





Founded in Toronto (2014)

ICO in Switzerland (2014)

Foundation in Switzerland (2015)



Canadian Founder



Binance Launch in China (2017)

Worlds Largest Exchange (2018)

Potential move to Malta (2018)





Lesson:

- Blockchain teams are nomadic
- Low barriers to move jurisdictions

Lesson:

- Global Customer Base
- Domestic firms compete with lowest regulated jurisdiction

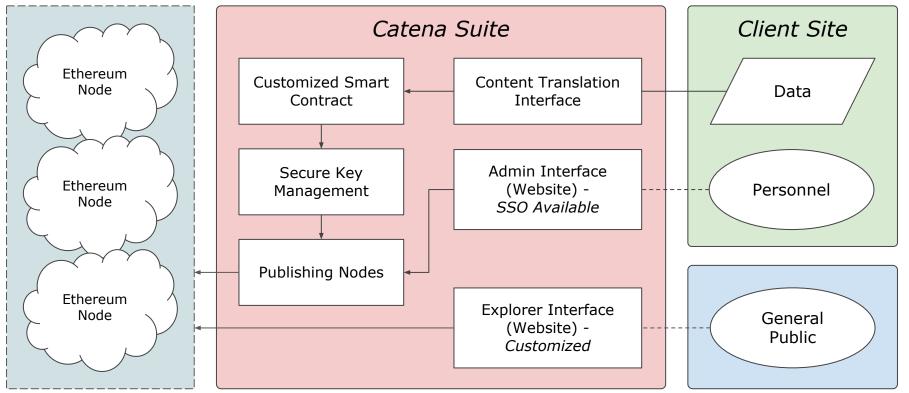


Thanks!

Moe Adham moe@bitaccess.ca



Infrastructure Outline





Public Data API

Disclosures	~ [Disclosures					
Disclosure Retrieve	• c	DISCLOSURE RETRIEVE					
Disclosure List	•	GET /api/v1/public/disclosures/{id}{?lng} Disclosure F	Retrieve				
Disclosure List DataTables	▶	Get a single disclosure by id.					
History	~	Example URI					
Version 1.0:		GET https://api.explorecatena.com/api/v1/public/disclosures/kkzxVXzBbnFyBNkD3Zv6tbPJxO6w0L?In g=en					
https://api.explorecatena.co	m	URI Parameters	Hide				
		id string (required) Example: kkzxVXzBbnFyBNkD3Zv6tbPJxO6wOL The unique ID of a disclosure					
		<pre>Ing string (optional) Example: en Language to localize results by. This will merge the data in localized. {lng} into the base disclosure object and remove the original locali field from the response. Choices: en fr</pre>					
		Response 200	Show				

api.explorecatena.com

