



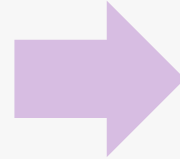
Team Eligible

One Ledger, One Team

Sharing information
across the government is
too hard.

We want to use blockchain to make it easy.

Delivering Citizen-Centric Services



The Hackathon- What we learned



Overcoming
Barriers

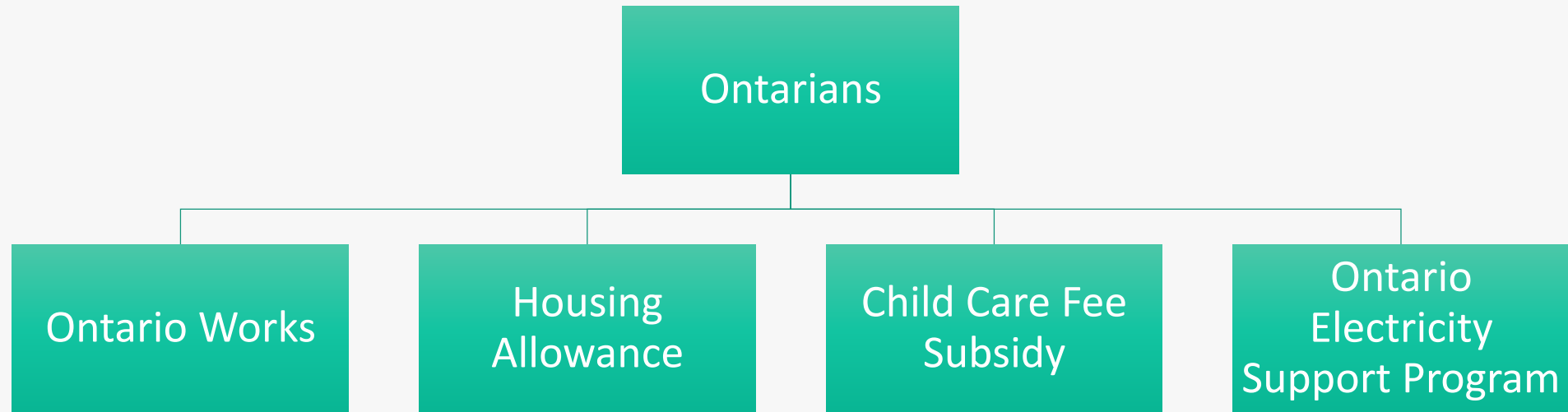


Collaboration
Works



Built Something

Focusing on Ontario Human Services Programs



Why these programs?



Common clients



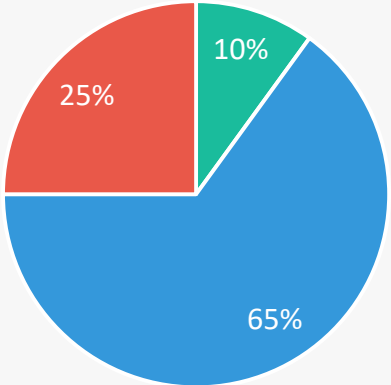
Municipally Administered



Provincially Funded

The Problem

Ontarians submitting applications for Human Services Programs

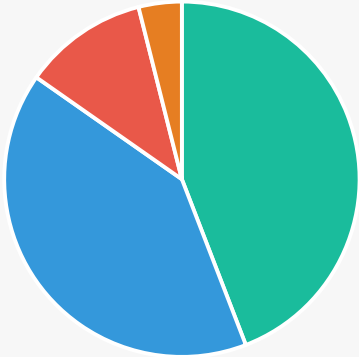


■ Phone Call ■ In-Person ■ Online

~60 min.

Average time spent collecting client info.

Number of Applications Submitted by Program (per year)



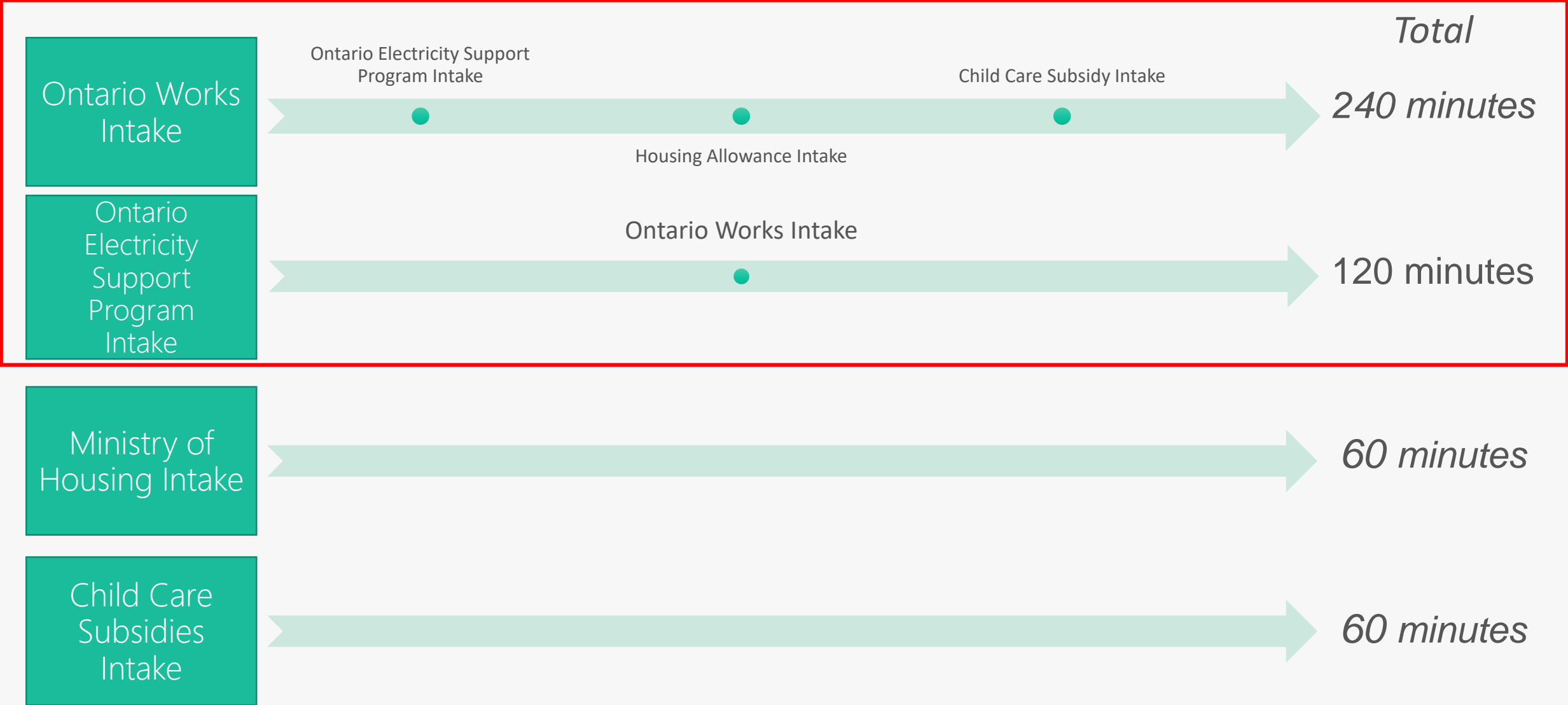
■ Ontario Works* ■ Child Care Benefits Subsidy**
■ Housing Subsidy ■ Ontario Electricity Savings

457,000+

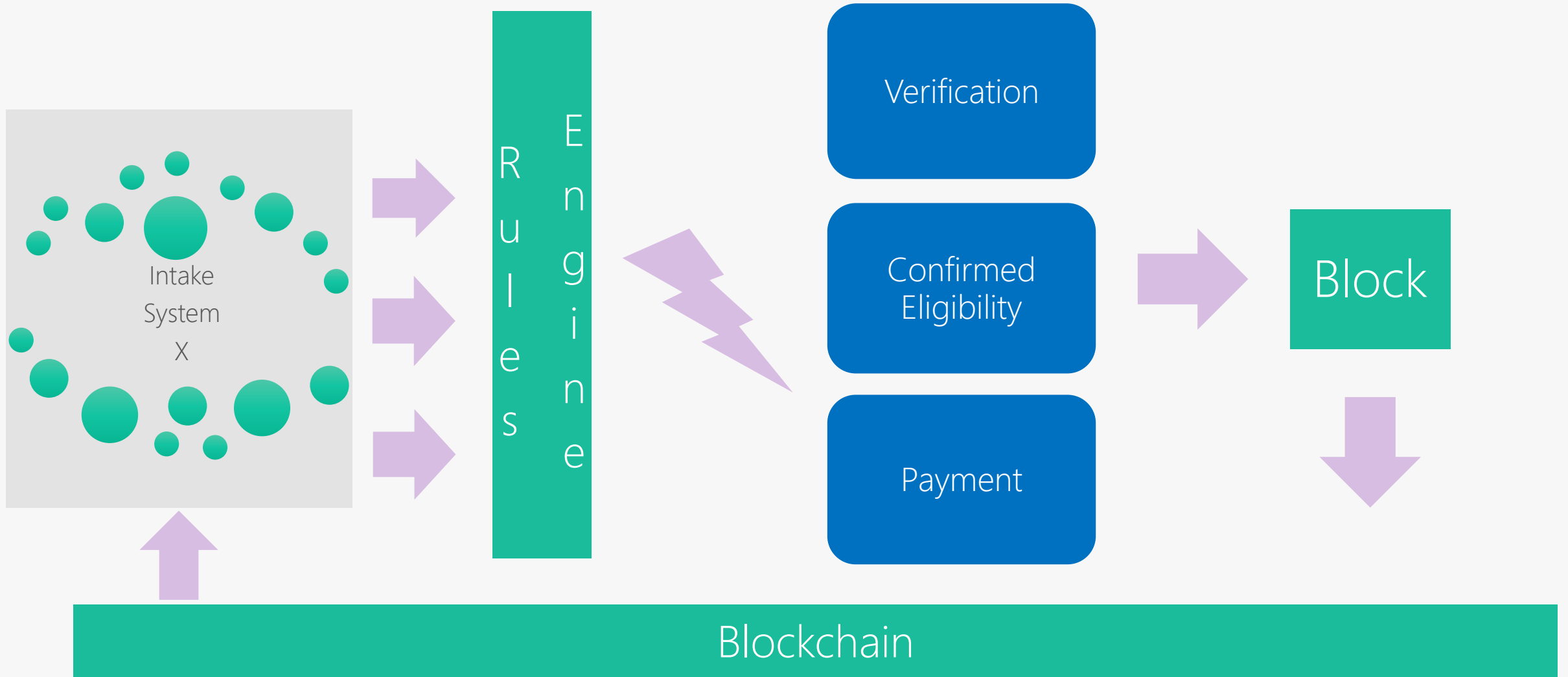
Est. Total number of cases submitted across programs

**18000 applications are submitted a month for Ontario Works, confirmed by MCSS
**Calculation can be found on appendix slides 15*

The Problem - Compounded



Using Blockchain (Ideal World)



Our
Demo



User Driven



Judy

19 Single Parent
In a full time high school program
2 y/o son
No Income
\$500 in savings
Car
Pays \$900 in rent
Pays utilities
Canadian Citizen and Lives in Belleville
No Rental Assistance



David "CCB" Case Worker

Judy submitted her information online for the OW program.

Child care specialist proactively calls Judy to tell her that she is eligible for CCB benefits, once it's confirmed there are spaces available.

David verifies the information from the OW application and within minutes sends Judy on her way.



Smith's

2 Parents (Husband & Wife)
2 Kids (17 y/o and 11 y/o)
Household income of \$1000/month
Assets of ?
Savings of
Own a car
One parent is employed
Utilities cost \$500
Permanent Residents of Ottawa

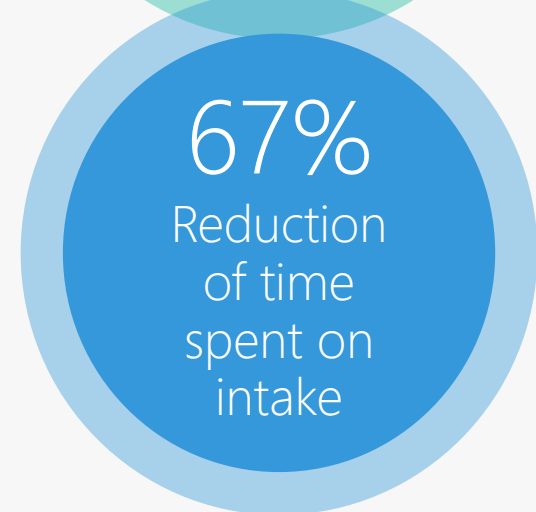
Benefits

Applicant



Respect
& Dignity

Case Worker



Universal Eligibility Ledger



Single Source of
Truth



Immutable
(100% Trust)



Multi-System
Accessible

Blockchain Options



Public
Blockchain

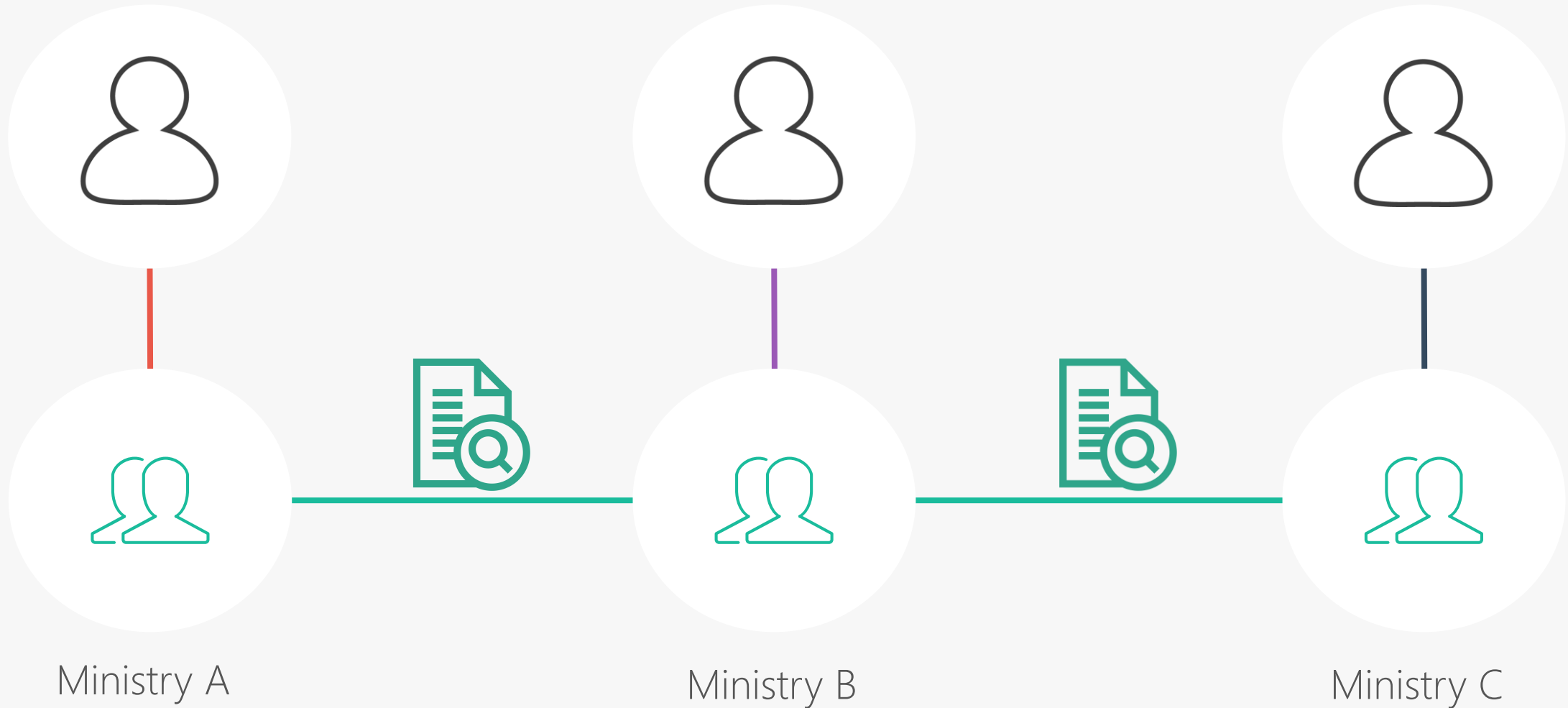


Consortium

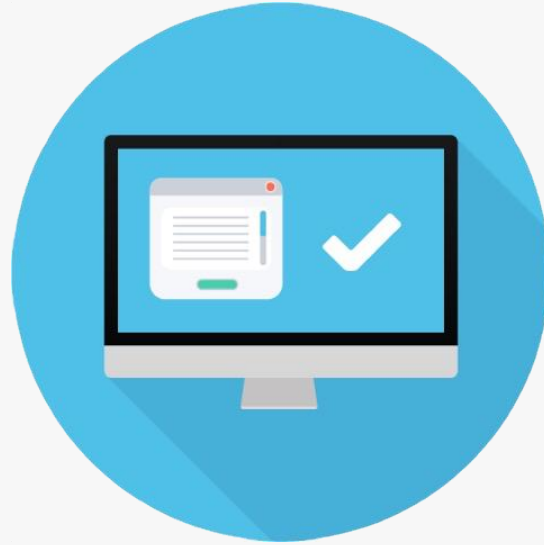


Private
Blockchain

What is consortium?



Vision



Enterprise Consortium

To have one internal
government wide blockchain
network.

Breaking Eligibility Barriers,
one block at a time.

The Team

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CSC IT Cluster

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Developer

CSC IT Cluster

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Analyst

MOF

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Senior Analyst

MOF

Radhika Uppal

Team Lead

MEDU

Alex Carter

Program Analyst

MCSS

Appendix: Estimation of Child Care Benefits Case Load

Estimating Child Care Benefit Applications			
Population of Ontario		Income	Estimation
Population of Ontario	13,200,000	Median after-tax income of couple economic families with children in 2015	99,205
Couples with children	1,708,995	Median after-tax income of lone-parent economic families in 2015 (\$)	50,317
Total - Lone-parent census families in private households	644,975	Interested in Child Care Fee Subsidy (all time)	772,329
Couples with children (divorced/married/seperated)	2,353,970	Estimated # of applications submitted for the Child Care fee subsidy	386,165
Total Size (%)	18%	Received a fee subsidy	123,000
		Gut Checks	
		% of all couple with children in Ontario	16%
		% of Total Ontario Population	3%

*all data captured is from the 2016 Canadian Census (www.statcan.gc.ca)

Appendix: Estimation Housing Subsidy Case Load

Estimating Housing Fee Subsidy Applications		
Population of Ontario	13,200,000	
Income Levels	Actual	Estimated Looking for Housing Assistance
Under \$5,000	92,220	92,220
\$5,000 to \$9,999	71,480	67,906
\$10,000 to \$14,999	136,550	122,895
\$15,000 to \$19,999	192,920	173,628
\$20,000 to \$24,999	222,605	189,214
\$25,000 to \$29,999	211,440	169,152
\$30,000 to \$34,999	232,755	174,566
\$35,000 to \$39,999	244,335	-
\$40,000 to \$44,999	247,645	99,058
\$45,000 to \$49,999	241,965	96,786
\$50,000 to \$59,999	463,170	23,159
Average Monthly Shelter Cost for Rental Units	\$1,109	
Total Eligible for Housing Assistance		1,208,584
Social Housing Units Reported		253,984
Number of people on the waitlist for socially assisted housing		82,000
Estimated residents actively applying or in the process		349,040

Known Facts:
 ~3.9 year wait time for socially assisted housing
 82,000 Ontario Residents are on the waitlist for a housing subsidy