

From Data Pipelines to Insights

Future Proofing your Homelessness Data Strategy

Alain Ndayishimiye November 10, 2023

Land Acknowledgement

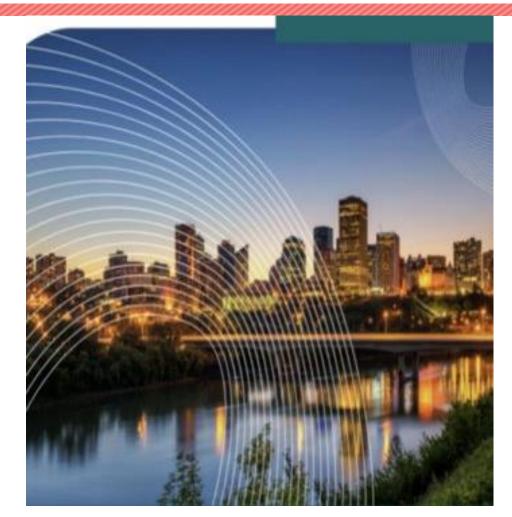
Homeward Trust respectfully acknowledges our place here on Treaty 6 Territory, the traditional and ancestral lands of many First Nation, Métis and Inuit people. We acknowledge the diverse Indigenous Peoples of this land which include the Cree, Blackfoot, Dene, Iroquois, Anishinaabe/Saulteaux /Ojibwa, Nakota Sioux, Inuit, Métis and many others whose footsteps have marked this land for time immemorial. Those whose stories, languages and culture continue to thrive today. We acknowledge ourselves as visitors living and working in this Territory.



Future Proofing Your Homelessness Data Strategy

— Overview

- Background and Context
- Current State
- New Approach and Strategy
- Next Steps







Current state.



Comprehensive Approach

Leads efforts to end homelessness in Edmonton

 Responsible for leading provincial and local plans to end homelessness

- System planning
- Community leadership
- Data and knowledge management (HMIS)
- Evaluation
- Innovation

- Stewards and directs funding from 3 orders of government to meet community priorities
 Ensures compliance and contract reporting
- Invests in programs, housing supply, and community capacity

Implementation

- Community planning and engagement
- Review and investment in what works
- Taking risks and learning



Scale of the Work







Scale of the Work

60 Coordinated Access partners

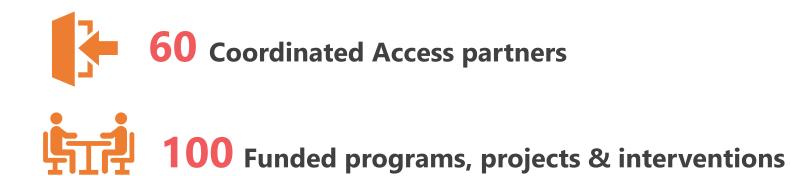
100 Funded programs, projects & interventions







Data: Scale of the Work



780 User accounts that enter data every day

Substantial volume of structured and unstructured data that require transforming into a dynamic, data set to meet increasingly demanding and rapidly changing organizational needs





Complex and Evolving Data Needs

Today, SPOs require continuous adaptation and improvement.



Program insights:

Providing programs key insights into what's effective in their program areas.



Government and stakeholder reporting:

Ensuring meeting funder reporting requirement in a timely and accurate manner.



Community Engagement:

Informing community on the progress towards mission.



Decision making and resource allocation:

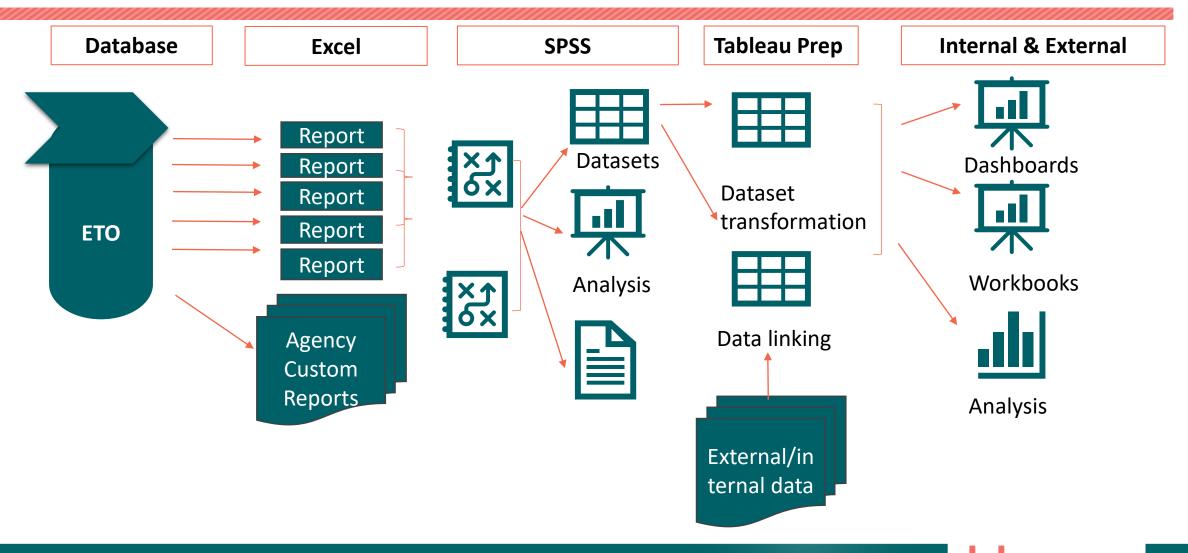
System view of what's effective, ensuring there is no duplication of work so that public dollars are invested in programs that are delivering.



The challenge.



Current Data Ecosystem



homeward trust

edmonton

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Current Data Eco-system



This means more staff time, slow response to needs, and limited adaptability.

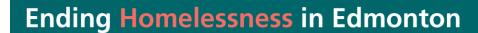


Solution?





Build a new data pipeline.





Data Capture – Client Journey Timeline



Sets the stage for matching Coordinated Access to Intake to Housing



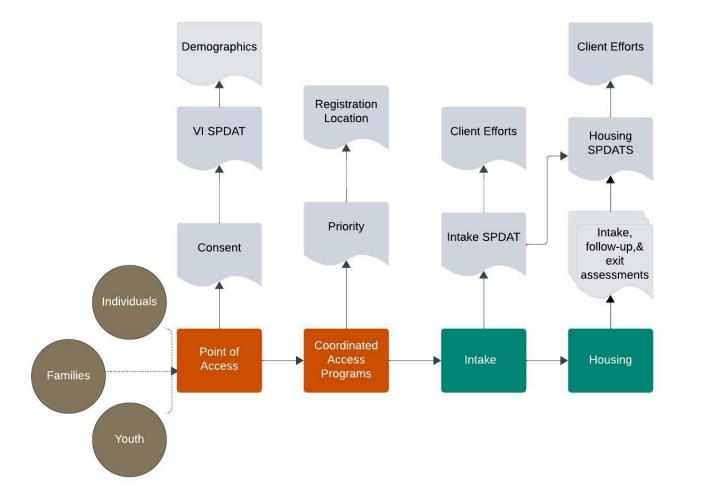
Informs code organization



Associates supplementary data to the appropriate stage of the housing continuum



Data Capture: Client Journey Timeline







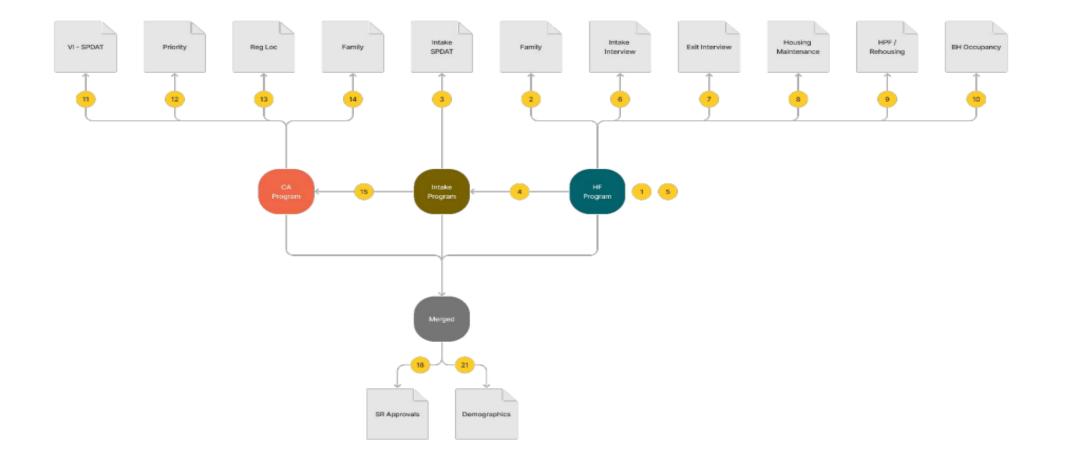
Supplementary data joined to each program data set.

Program data merged.

Each joint made as per set business logic.



Data Merging





The outcome.



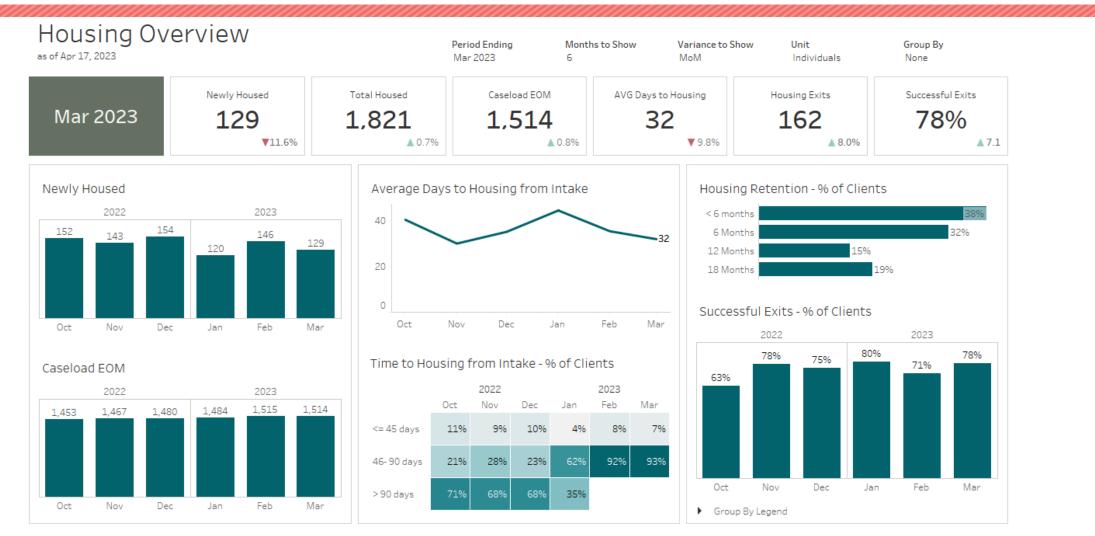


A Data Set Ready for Immediate Utilization

itrn	ENTID	CA Program	CA Start Date	Intake Program	Intake Start Date	HF Program	HF Start Date
1	450	CA	2015-01-01	x		х	
2	450	CA	2016-01-01	INT	2016-02-01	х	
3	450	CA	2017-01-01	INT	2017-02-01	HF	2017-03-01
4	450	х		INT	2018-01-01	HF	2018-02-01
5	450	х		x		HF	2019-01-01
6	450	x		INT	2020-01-01	x	

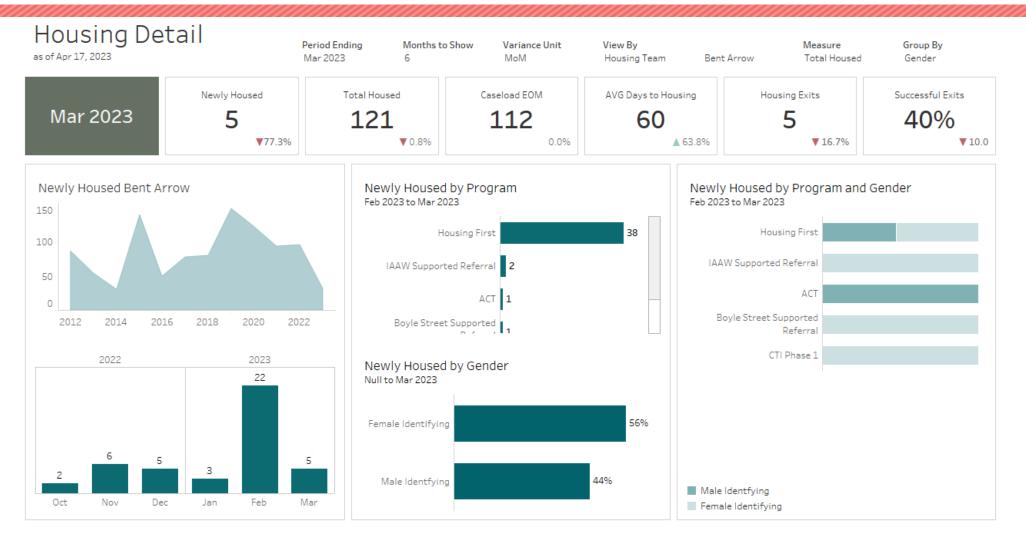


System Reports: Real Time Data Visualization





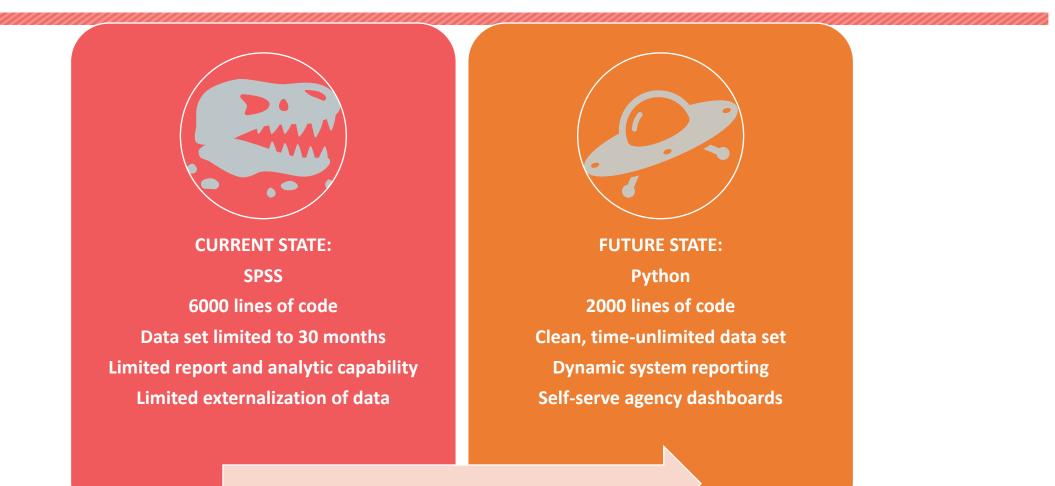
Data Visualization: Agency Dashboards







Evolving Data Approaches:





Lessons Learned & Next Steps



- Dynamic, rapidly changing environments require agile solutions.
- Get business logic right.
- Build consistent and standard data language.
- Consider end users in every decision.



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Thank You!

— Alain Ndayishimiye

Manager, Data & Analytics

Homeward Trust

andayishimiye@homewardtrust.ca

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