

# **Meet Our Team Members**

We are a group of dedicated business students from SAIT collaborating to deliver a comprehensive pitch for our project.



**Saran Poocharoen** 



Deanna Rose Quiambao



**Prajwal Nagaraj** 



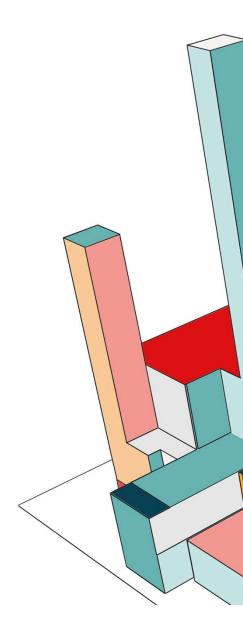
Thi Hanh Nguyen Phan



**Genevieve Ababa** 

# **AGENDA**

- ☐ Pitch Purpose
- ☐ The Problem & Solution
- □ Project Scope
- ☐ Competitive Analysis
- Methodology
- ☐ Final Products
- □ Conclusion



# **Pitch Purpose**

"Meet Maya. Last December, she walked 5 km in - 30°C to find a shelter, only to be told it was full."

What if we could have predicted that, and guided her somewhere with space?





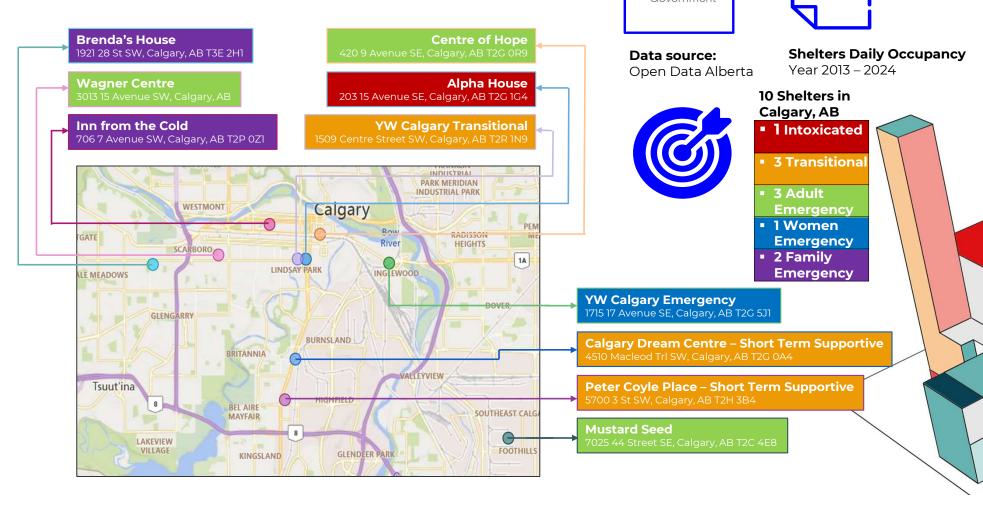


- Calgary shelters face overcrowding and/or under-utilization due to demand fluctuations.
- Current platforms provides real-time data but lacks forecasting.
- Vulnerable populations may be turned away during high-demand periods.



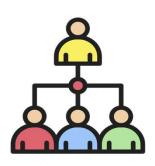
- We built a simple, intuitive platform that forecasts shelter occupancy in advance.
- Predict shelter occupancy trends for the next
   2 years.
- It helps staff act early, plan better, and prevent people from being turned away.

# **Project Scope**



# **Target Market**









Frontline Workers & Caseworkers

Shelter Management & Staff Government
Agencies &
Public
Services

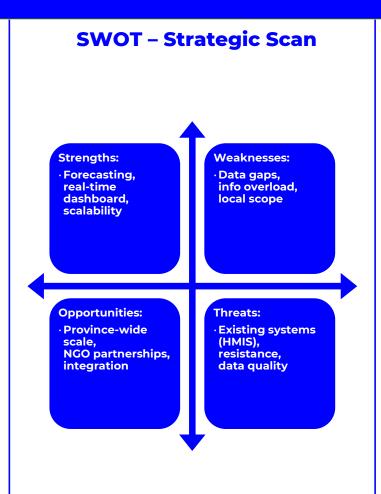
The General Public

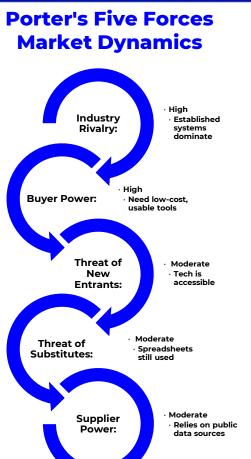
# Competitors

Existing Shelter Systems	Strengths	Weaknesses
Shelterlink App	Real-time bed tracking; expansion potential	No predictive analytics; data consistency issues
Homelessness Management Information System (HMIS)	Tracks performance; privacy compliant	No predictive analytics; limited participation
Coordinated Access and Assessment (CAA) systems	Real-time matching; service integration	No predictive analytics; inconsistent data systems
ShelterSafe	User-friendly; 24-hour helpline	No real-time tracking; limited to domestic violence shelters
DomesticShelters.org	Multilingual; lists shelter needs	No predictive analytics; no real- time updates
My Sister's Keeper	Women's homelessness focus; local engagement	Small capacity; no real-time tracking
Find Shelter	Lists shelters by location; offers extra services	No predictive analytics; no real- time updates
iHEAL App	Links to resources; safety planning for women	No real-time tracking; focused on safety, not housing

# **Competitive Analysis**

## **PESTLE - EXTERNAL FACTORS** Gov't support, privacy laws (PIPEDA), Political policy changes Funding shifts, **Economic** tight budgets. limited resources · Public support, Social rising demand, varied adoption Analytics adoption, **Technological** integration issues Data sharing, compliance, Legal terms of use Environment · Winter surges, displacement risk

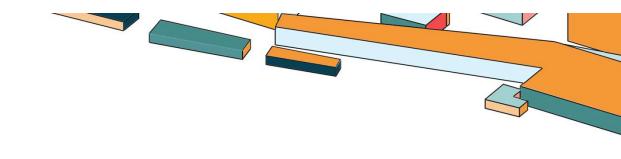


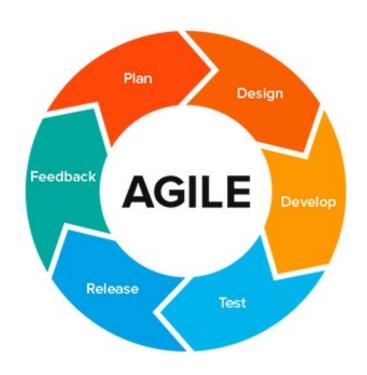


# **COMPETITION**Why We are Different

Feature	Existing Tools	Our Solution
Real-time Tracking	Yes	Yes
Forecasting (Next 7 days – 2 years)	No	Yes
Easy to Use	No	Yes
Designed with Shelters	No	Yes
Affordable for Nonprofits	No	Yes

# **Methodology**







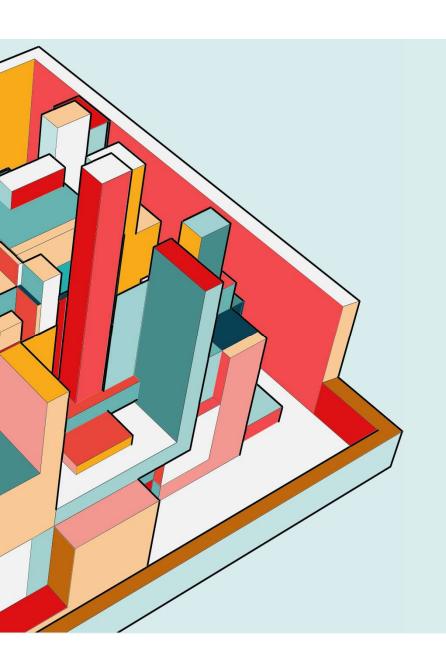
Agile approach with weekly sprints



Close mentorship with YW Calgary

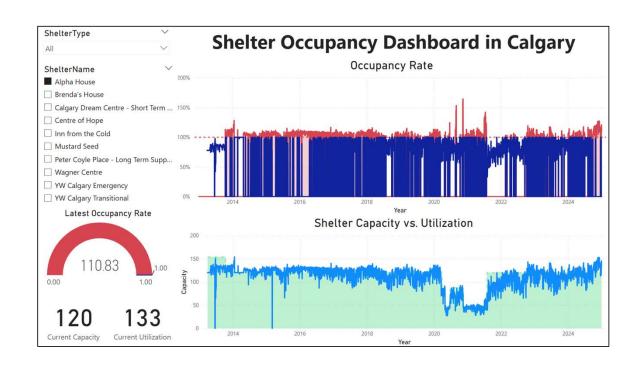


Regular testing, feedback loops, and stakeholder reviews



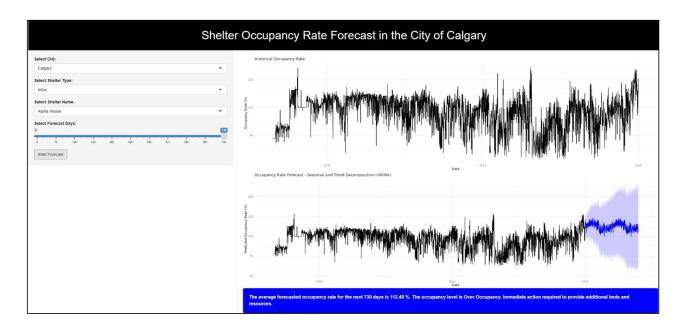
# Demo: How It Works

# Prototype 1: Shelter Occupancy Dashboard





# Prototype 2: Shelter Occupancy Rates Forecast Web-App





Model: Seasonal Decomposition Auto-Regressive Integrated Moving Average (ARIMA)

# **Prototype 3: Action Plan Framework**

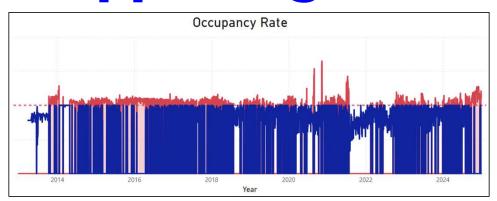
Occupancy level	Occupancy Rate	Action
Low Occupancy	< 60%	Address underutilized resources
Moderate Occupancy	60% - 85%	Maintain Efficiency & Flexibility
High Occupancy	85% - 100%	Proactive Intervention is Necessary
Over Occupancy	>100%	Immediate action required



# **Prototype 3: Action Plan Framework**

Occupancy level	Occupancy Rate	Notes
Low Occupancy	< 60%	Underutilized resources
Moderate Occupancy	60% - 85%	Normal operations
High Occupancy	85% - 100%	Risk of overcrowding
Over Occupancy	>100%	Need more beds immediately

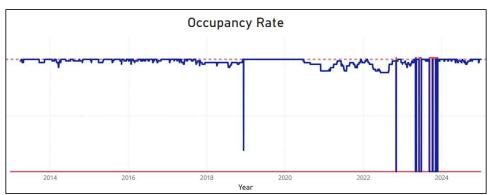
# Supporting Materials Historical Analysis: 2013 - 2024



### Alpha House | Intox

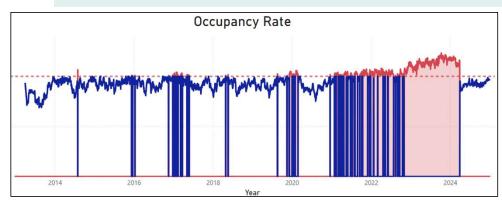
Trend: Stable

Occupancy level: Frequent Over-occupancy



## **Peter Coyle Place | Transitional**

Trend: Stable. Rare Fluctuations Occupancy level: Frequent High to Full Occupancy



## **Calgary Dream Centre | Transitional**

Trend: Increasing

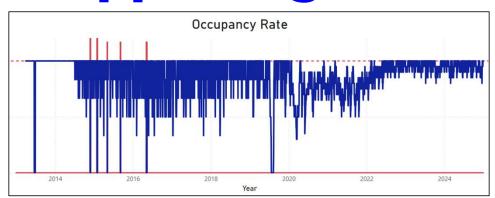
Occupancy level: Over-occupancy, especially after 2021



## **YW Calgary Transitional | Transitional**

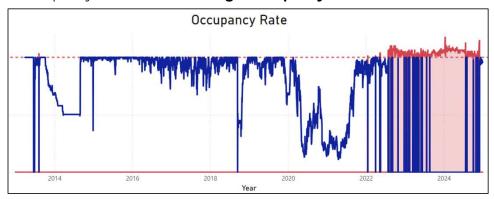
Trend: Fluctuating from 2014 to 2022, stabilized afterwards Occupancy level: High to Moderate Occupancy

# Supporting Materials Historical Analysis: 2013 - 2024



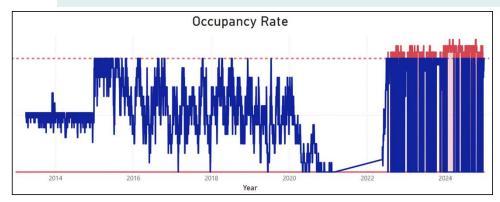
## YW Calgary Emergency | Women Emergency

Trend: Stable. Decreased on year 2020 to 2022 Occupancy level: Consistent High Occupancy



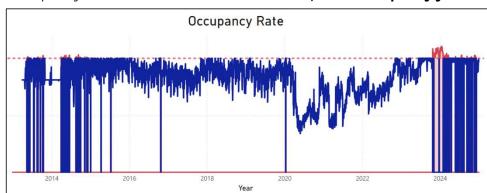
### Centre of Hope | Adult Emergency

Trend: Stable until 2018, Decreased in 2020, Remained stable afterwards Occupancy level: Over Occupancy starting from middle 2022



### Wagner Centre | Adult Emergency

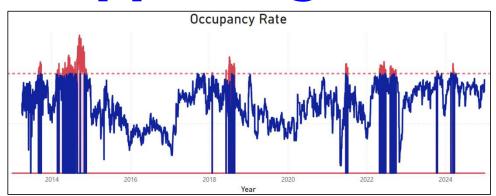
Trend: Decreasing until 2022, stable years after Occupancy level: Low to Moderate until 2022, Over Occupancy years after



### **Mustard Seed | Adult Emergency**

Trend: Stable until 2019, Decreased in 2020, Increased again afterwards Occupancy level: High Occupancy

# Supporting Materials Historical Analysis: 2013 - 2024



## Inn from the Cold | Family Emergency

Trend: Obvious Fluctuations Occupancy level: Over Occupancy during 3<sup>rd</sup> and 4<sup>th</sup> Quarter Low to Moderate during 1st and 2nd Quarter

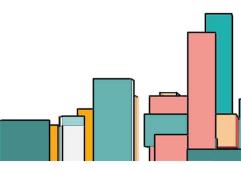


### **Brenda's House | Family Emergency**

Trend: Fluctuating Occupancy level: Moderate Occupancy

# Results and Analysis Forecast Analysis: 2025-2026

Shelters Affected	Occupancy Level in the Next 2 Years	Analysis
Alpha House	Critical Over-occupancy	Immediate Action Required
Wagner Centre	Critical Over-occupancy	Immediate Action Required
Mustard Seed	Critical Over-occupancy	Immediate Action Required
Peter Coyle Place	High Occupancy	Proactive Intervention is Necessary
Centre of Hope	High Occupancy	Proactive Intervention is Necessary
Calgary Dream Centre	High Occupancy	Proactive Intervention is Necessary
YW Transitional	High Occupancy	Proactive Intervention is Necessary
YW Emergency	High Occupancy	Proactive Intervention is Necessary
Inn from the Cold	High Occupancy	Proactive Intervention is Necessary
Brenda's House	Moderate Occupancy	Maintain Efficiency & Flexibility



## **Recommendation for Critical Over-Occupancy Shelters**

## Alpha House | Wagner Center | Mustard Seed

Intox | Adult Emergency | Adult Emergency

	Allocate funding for	Request additional funding from stakeholders for possible expansion of shelter spaces (i.e. Government of Alberta, Partners,	NLT 3 <sup>rd</sup> Quarter Year 1
	possible expansion of	Sponsors, Donors, etc.)  Secure temporary shelter spaces, such as hotels or private-market apartments, to provide immediate relief and increase capacity.	Year 1
	Increase partnerships	Collaborate with other emergency shelters within the city to facilitate the referral of clients and adopt housing-first support approach.	Continuously
with other emergency shelters in the city		Participate in the Service Hub Model program led by the GoA to establish referral of individuals experiencing homelessness to a wider range of resources.	Year 1
	Improve case management of the clients in the shelter	Review the Average Length of Stay (ALOS) at the shelters and determine specific clientele who have overstayed their intended	Within 1 <sup>st</sup> Quarter
888		shelter duration.	Year 1
		Establish a seasonal staffing pool and maintain a list of well-trained on-call staff, while complying with the standard case management ratio to client.	NLT Year 2
	Conduct Future Studies and Innovations	Conduct comprehensive future studies to assess additional factors that influence the demand for shelter services, such as economic trends, seasonal fluctuations, and client needs.	Year 1

## **Recommendation for High Occupancy Shelters**

## Peter Coyle Place | Centre of Hope | Calgary Dream Centre | YW Transitional |

Transitional | Adult Emergency | Transitional | Transitional

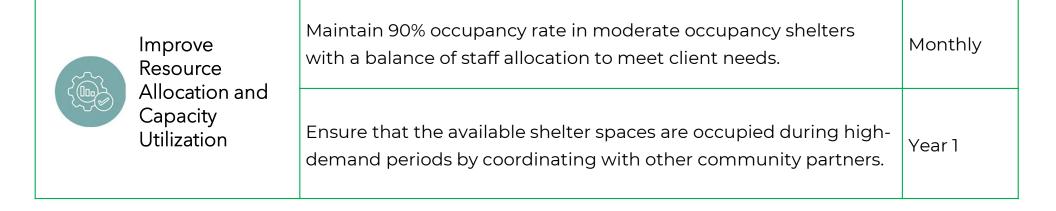
## YW Emergency | Inn from the Cold

Women Emergency | Family Emergency

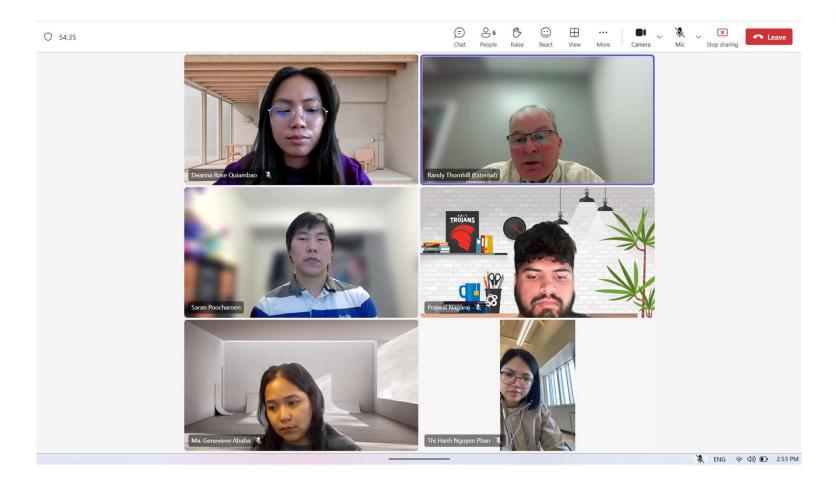
Develop and implement	Utilize the Web app to track the occupancy rate for one week in advance.	Weekly	
new strategies for better tracking		Develop and implement more effective planning and resource allocation based on the tracking of occupancy rate weekly.	Quarterly
Utilize the capacity more effectively	Develop the resource allocation plans (staff, facilitie) during underused capacity.	Quarterly	
	Coordinate with other housing partners to utilize underused capacity using the predictive occupancy rate from the Web app.	Continuously	
communica		Conduct needs analysis by assessing more factors which can affect shelter demands (seasonal, economic trends, client's needs).	Year 1
	Understand and	Working with community/housing partners to develop and implement a "by-name" list to support coordination of resources and understand	Quarterly
	communicate progress on shelter demands	changes in shelter demands in Calgary.	Year 1
	orrementer dermande	Develop communication strategies for regular communication with and	
		receiving information from the community/housing partners for shelter demands.	Quarterly

## **Recommendation for Moderate Occupancy Shelter**

**Brenda's House** | Family Emergency



# **Presentation to Industry Mentor**



## **CapCon 2025**



With our Industry Mentor Mr. Randy Thornhill, YW Calgary



With our Capstone Instructor
Ms. Chantelle LaMotte, School of Business, SAIT

