



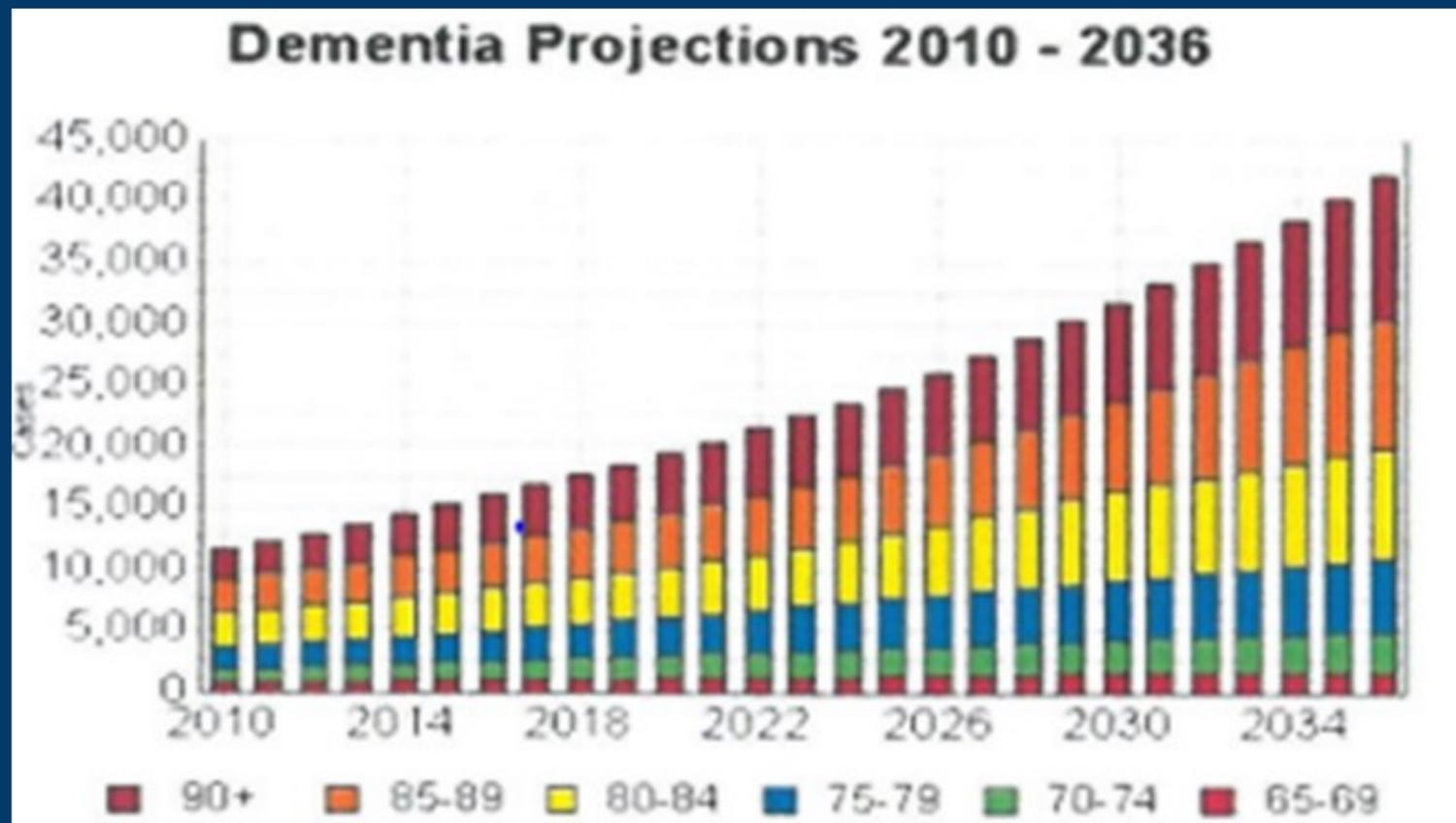
PROJECT LANTERN UPDATE

Sgt. Justin Vandenbrink
Peel Regional Police

Danielle Kilby-Lechman
Toronto Grace Health Centre



CURRENT STATE



- There are approximately **17,000** persons living with Alzheimer's within Peel Region.
- According to Alzheimer's Society, **60%** of all persons living with dementia will become lost at some point.
- **50%** of all missing persons with dementia beyond 24hrs will be located **injured or deceased**.



OBJECTIVE



The objective of Project Lantern was to develop a proactive system to **reduce** the number of missing person incidents involving persons living with Dementia.



When persons living with dementia do go missing, to provide a more **effective police response**, resulting in safer outcomes while reducing the strain on front-line resources.



COMMUNITY PARTNERSHIPS

- Teamed up with Alzheimer's Society of Peel for Project Lantern (MOU in 2023)
- All persons living with Alzheimer's that PRP encounters will be connected to ASP
- **Total Number of Referrals: 456**





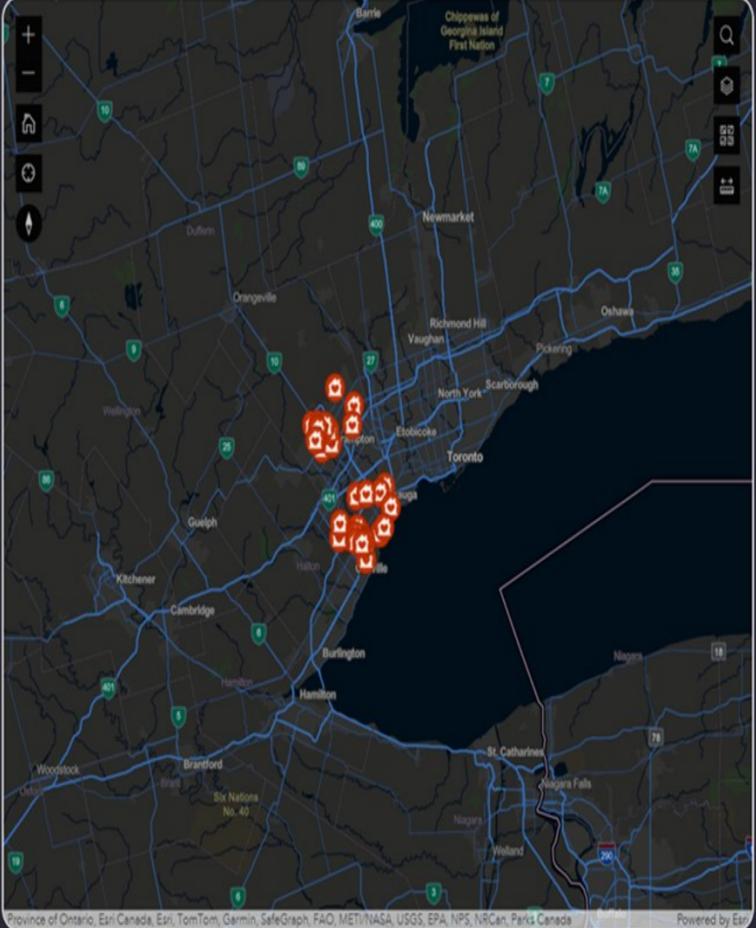
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VULNERABLE PERSONS REGISTRY - VPR

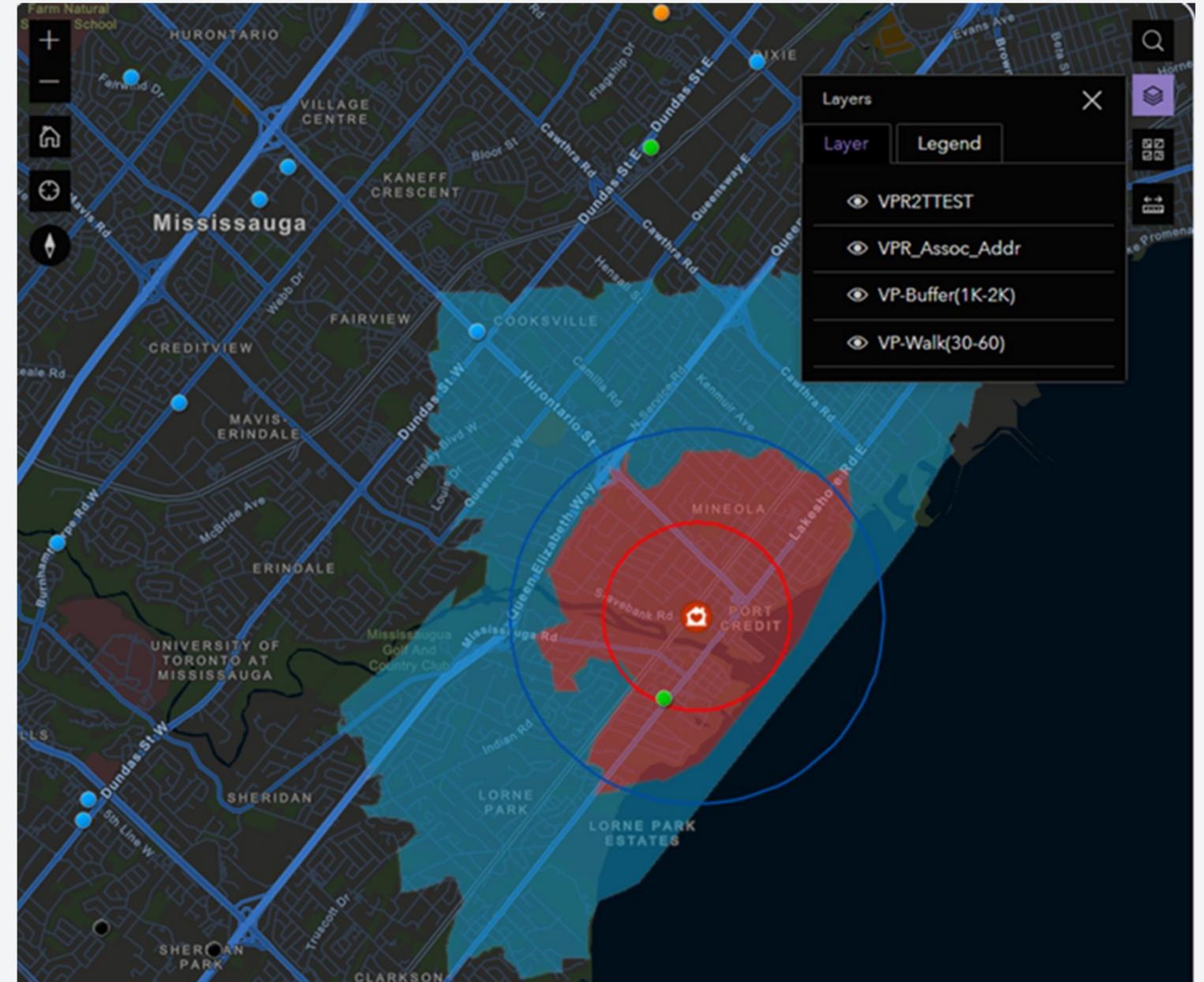
VPR - VULNERABLE PERSONS REGISTRY SIMULATED DATA

VP LIST 31

VP LIST	VP LIST
 Visir ABAZI 8/8/2019 (5)	
 Samir ALEEHAB 4/4/1956 (68)	 Sara GIRALDO 11/11/1965 (70) 1177 Bloor Street Mississauga View Additional Details
 Ethan BAKA 2/21/2012 (13)	
 Ming CHANG 7/7/2019 (5)	
 Summer CORONA 6/9/1937 (87)	
 William FERGUSON 4/1/1942 (82)	
 Victor FERNANDES 9/15/1946 (78)	
 Jonathan GILLINSKY 11/3/2019 (5)	
 Sara GIRALDO 11/11/1965 (70)	

Province of Ontario, Esri, Canada, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, NRCCan, Parks Canada. Powered by Esri

FirstName
 Surname
 Gender
 Age
 Race
 Address
 Height
 Weight



Layers

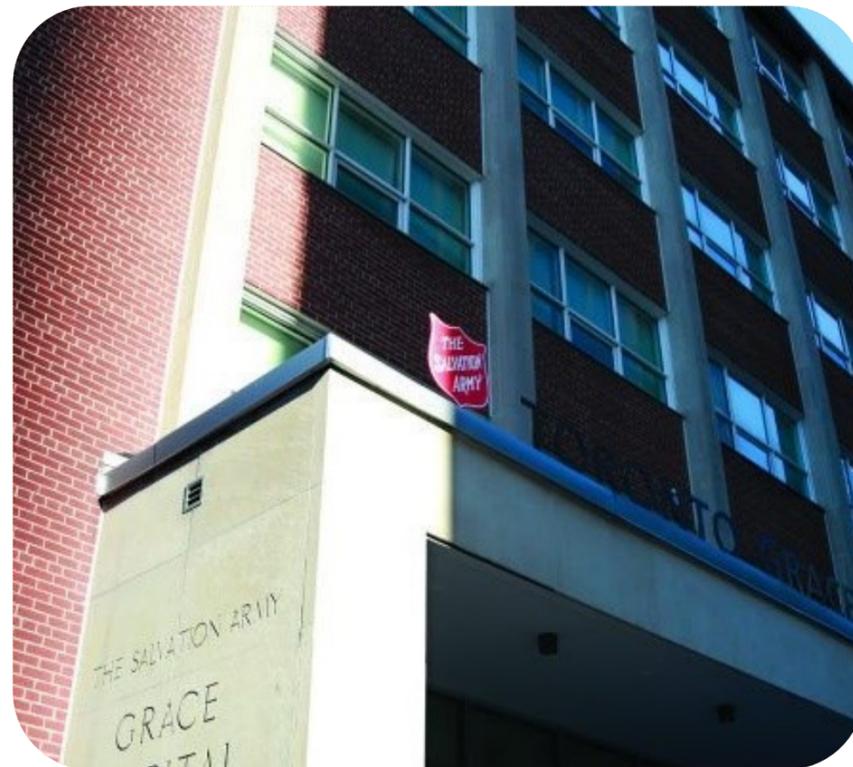
- VPR2TTEST
- VPR_Assoc_Addr
- VP-Buffer(1K-2K)
- VP-Walk(30-60)



COMMUNITY SURVEY RESULTS

- **100% of respondents** rated the professionalism of PRP officers positively, with **33% describing them as very professional and 67% as extremely professional.**
- **All respondents (100%)** rated PRP officers' communication skills favorably, with **25% rating them as good and 75% as very good.**
- **92% of respondents** reported that **Project Lantern** had a positive impact on their family's quality of life.





Toronto Grace Health Centre's Remote Care Monitoring: Use of Technology to Support Missing Persons Cases

Danielle Kilby-Lechman, MSW RSW
Director, Integrated Transitional Care



RCM Program and Services

- Servicing **older adults living with frailty** across all **5 regions of Ontario** (plus presence in **British Columbia** and **Prince Edward Island**)
- **24/7/365 Call Centre and Remote Monitoring** via a variety of safety devices.
- **Personalized client escalation pathways** in alert situations.
- Province-wide remote deployment and support through a Hub and Spoke model.
- **Coordinated services with local programs and resources**, including hospitals, community paramedics, emergency responders, primary care, home care and others.

System Overview

The remote monitoring solution comprises the following four modules, all centrally reporting to the Monitoring Platform for 24/7 client visibility:

GRTH3®
Vital Signs Monitoring



GRTMed®
Medication adherence



Oasis®
Passive Monitoring



OdysseyGO®
ACTIVE alert device



GRTInsight®
monitoring platform

Client: John Rogers

Age: 90Y, Sex: Male, Weight: 137

Primary illness: Chronic Systolic Heart Failure

Medical Monitoring

Heart Rate	65
Respiration	-
SPO ₂	-
Blood Pressure	118 _{sys} / 75 _{dia}
Last Updated	10/20/2022 10:26 AM

Environment

Current Temperature	19
Front Door	Closed
Call Button Status	InActive
Last Location	Kitchen
Bed Status	-

Karie Information

Last Dose Status	Dose Delivered on Time 10/24/2022 10:42 PM
Last Cartridge Inserted	10/03/2022 10:37 AM
AC Power Status	●
Device Online Status	●
Alert Status	● 09/13/2022 5:51 PM

Presences (Multiple Attempts, Last Recorded: 21/07/2022 11:19 PM)

Room	Presence	Motion
Washroom	●	●
Living Room	●	●
Bedroom	●	●
Kitchen	●	●
Door	●	●
Outings	●	●

Call History

Call Type	Phone Number	Time
Dialing out	14166167526	10/21/2022 12:20 PM
Incoming call	+17828207988	08/02/2022 6:25 PM
Dialing out	14166167526	06/28/2022 9:57 AM
Dialing out	14166167526	06/28/2022 9:53 AM

Personal Alert Monitoring Pendant

- **Outdoor and Indoor Locating** & Personal Alert Device (Cellular & Bluetooth)
- **Canada-wide coverage** (subject to cellular coverage).
- **Satellite coverage** available in rural areas
- **Caregiver involvement:** Hierarchy of contacts can be programmed to pendant.

Features:

- 2-way voice communication
 - **Geo-fencing (min. 300m)** – for wandering behaviours
 - **Outdoor locating (via GPS)**
 - Fall Alerting
 - SOS Alert
 - Waterproof
- ❖ Needs to be charged 1-2 hours daily.
 - ❖ TGHC Call Centre receives low battery alerts and will remind clients to charge their pendant.
 - ❖ [Click to watch "How to" video](#)



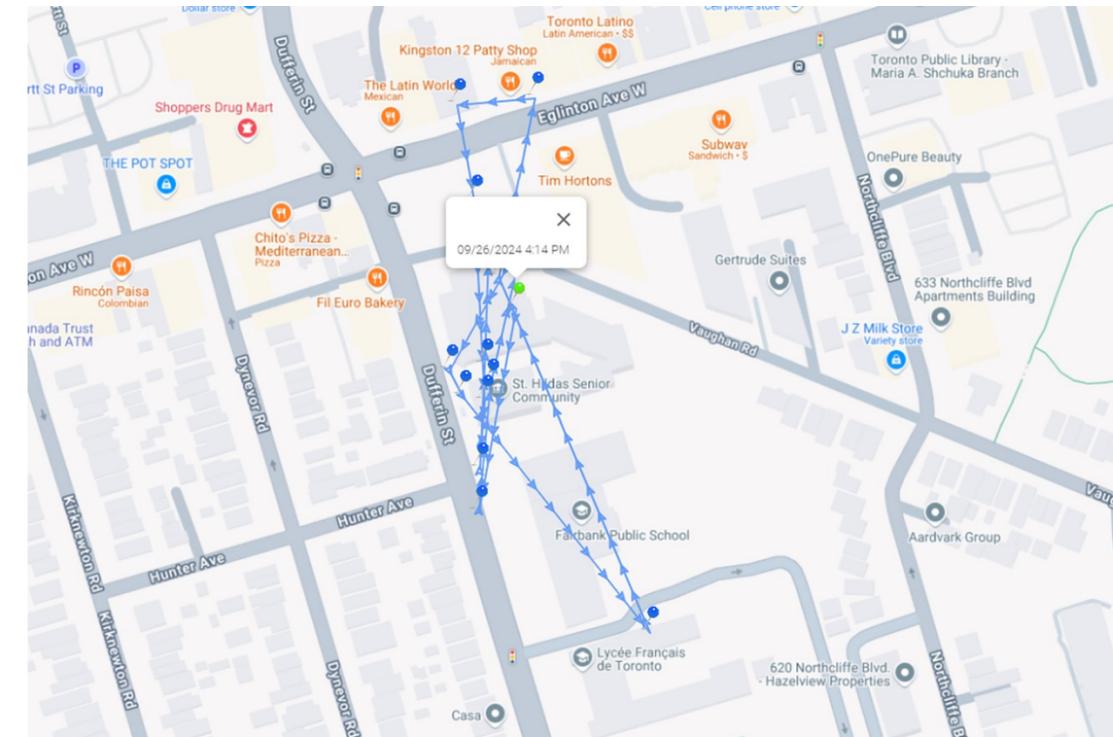
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Remote Care
Monitoring

GPS Tracking and Locating

- When in motion, location is updated every 10 minutes. When stagnant, location is updated every 1 hour.
- Tracking enabled, so that specific route can be seen.
- Historical data kept.
 - Have access to previous routes a client has taken, which can be provided to police services. This is helpful in the event the pendant battery has depleted.
- Uses satellite GPS (if device has line of sight to satellite).
- Uses Wi-Fi access point location, if no satellite lock found.



Documentation & Records Management: RCM Portal

- **Cloud-Based** – Can be securely operated on a centralized or decentralized basis.
- **Full Integration with remote monitoring devices** – All hardware is integrated and centrally reports to the platform.
- **Roles Based Access** – Roles based access and integrated charting based on roles.
- **Hardware Agnostic** – The platform is designed to new and evolving monitoring devices to be continually integrated
- **PHIPPA/HIPPA Compliant**

Dashboard
Dashboard > Client Summary

Logged in as: Admin John Doe

Client Summary
Client: **Smith, Christopher**
Age: 78, Sex: Male, Weight: 137.5 lbs
Temperament: Difficult, Eye Sight: Limited, Hearing: Normal, Primary Illness: Diabetes, Hearing Disease

Medical Monitoring

Heart Rate	Difficult
Respiration	Limited
EKG	Normal
SPO ₂	Diabetes, Hearing Disease
Blood Pressure	120 _{sys} / 75 _{dia}

Recent Alerts

No wake up	John Doe	07:10 AM, 12/11/2019
Absence of Movements	John Doe	07:10 AM, 12/11/2019
Missed Medications	John Doe	07:10 AM, 12/11/2019
No wake up	John Doe	07:10 AM, 12/11/2019
Absence of Movements	John Doe	07:10 AM, 12/11/2019
Missed Medications	John Doe	07:10 AM, 12/11/2019

Medication

Next Medication: **9:00 AM** 15/11/2020
Last Missed Medication: **9:00 AM** 15/11/2020
Next Cartridge Change: **15 Dec, 2020**

Environment

Current Temperature	20.5 °C
Front Door	Closed
Call Button Status	Active
Last Location	Bed Room
Bed Status	Unoccupied

Progress Notes

Title of the progress note comes here Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor.....	Steve Caregiver 2/11/2020 7:40PM
Title of the progress note comes here Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor.....	Steve Caregiver 2/11/2020 7:40PM
Title of the progress note comes here Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor.....	Steve Caregiver 2/11/2020 7:40PM
Title of the progress note comes here Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor.....	Steve Caregiver 2/11/2020 7:40PM

Devices

Sensor Bedroom	Active	Maintenance: Ok	Battery: 90%
Sensor Entrance	Active	Maintenance: Pending	Battery: 10%
Sensor Living room	Active	Maintenance: Ok	Battery: 90%
Nomad click	Off	Maintenance: Pending	Battery: 90%
Sensor Bedroom 2	Active	Maintenance: Ok	Battery: 90%
Sensor Entrance 2	Off	Maintenance: Ok	Battery: 90%

Linked Accounts **05**
Linked Devices **12**

Map
BTE Location: Bedroom, Movement: None
Current Location: 124 South St, Toronto

Help & Support | Terms & Conditions

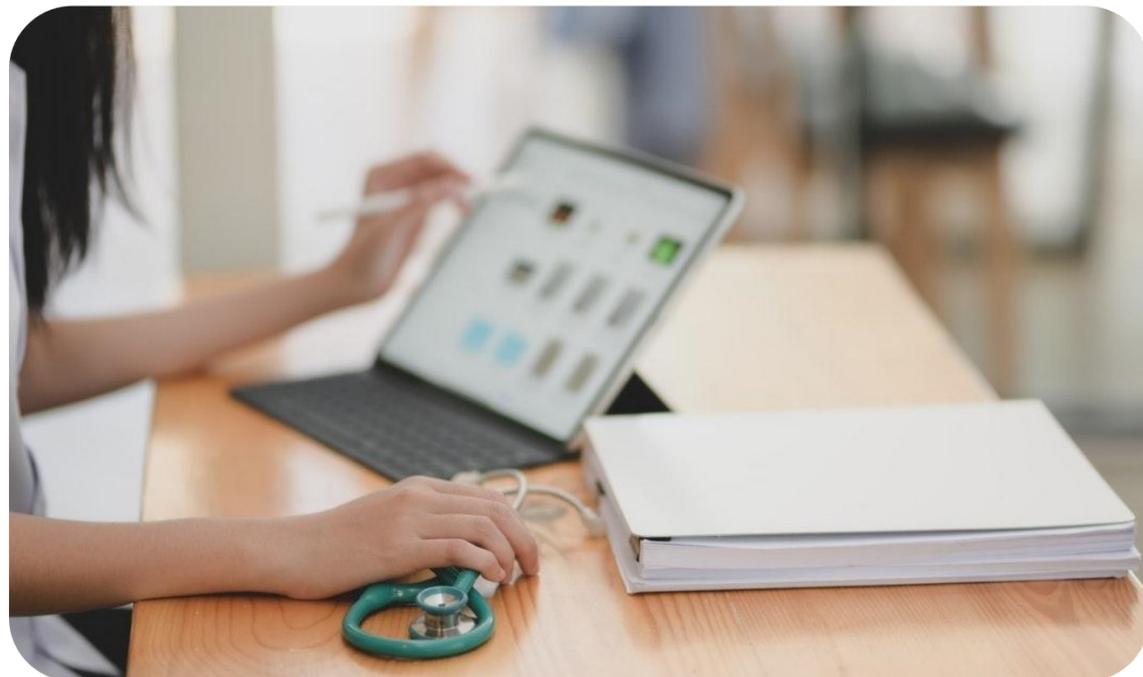
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Clinical Extension of Remote Monitoring

The **holistic approach** to remote monitoring

- Support **clinical intervention decision-making** via tailored escalation pathways
- Provide holistic, **client-centered care**
- Escalations to **RCM interdisciplinary team**
- Improve human resource efficiencies



Alerts

Alerts are reactive – how do we provide **service that is proactive?**



Data for Interventions

The use of RCM alert data to inform the use of clinical interventions.



Trigger Escalations

RCM alerts as data points to trigger escalations to:

- The RCM **Interdisciplinary Team** (SW, PT, OT, NP);
- Other service providers (e.g. Ontario Health atHome, Community Paramedicine, Primary Care, etc.)
- **Internal TGHC services**, such as our **7 outpatient clinics** (including **geriatrics**), TIME at Home, and Community Care (virtual friendly visitor service)

Proven Results



- Robust escalations to community partners (via set “triggers” and individualized pathways)
- **RCM+Program** - Separate sub-program: High-intensity, transitional PSW support (in select areas)
 - 500+ ALC patients discharged with PSW (to-date)



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Remote Care
Monitoring



SCALE & PRESENCE IN PEEL REGION

Peel Referrals Overview

- Currently enrolled (Peel-referred): 300
- Total referrals since 2024: 965
- Referrals since April 1, 2025: 356

Key Peel Referrers

- Peel Regional Police
- Trillium Health Partners
- William Osler Health System (Brampton Civic Hospital)
- Community Paramedicine – Peel
- Ontario Health atHome (Mississauga-Halton)
- Alzheimer's Society
- Other social service organizations



PEEL ALERT VOLUME AND RESOLUTION

(Data Since May 2024)

Total alerts (not all wandering related) by Peel clients: 459

- **SOS: 301 – across 93 clients**
- **Fall-Down: 148 – across 60 clients**
- **Geo-fence: 10 – across 3 clients**

Percentage of alerts escalated to 9-1-1: 37%

- **170 alerts escalated to 9-1-1 (across 39 clients)**

Out of 459 alerts from Peel residents, **63% were resolved without emergency services.**



PEEL REGIONAL POLICE CLIENTS

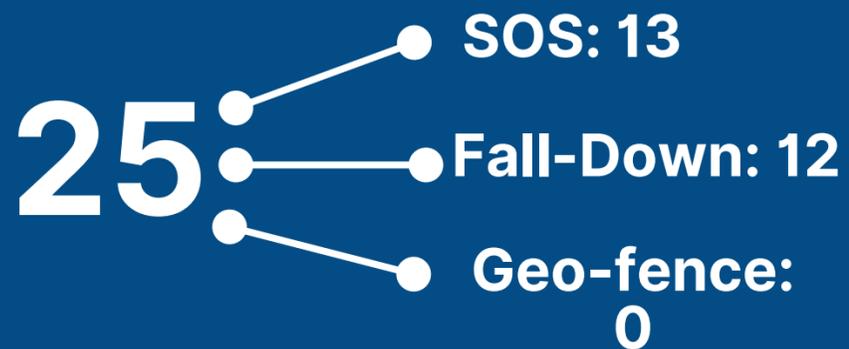
(Data Since June 2025)

25

Enrolled Peel Regional Police clients

45

Referrals submitted by Peel Regional Police



Total Alerts Generated by Peel Regional Police clients

12%

Alerts escalated to 9-1-1

Out of **25** alerts from Peel Regional Police clients, **88%** were **resolved without emergency services**



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ABSENCE OF GEO-FENCE ALERTS: PREVENTION

- Geo-fence alerts occur after someone leaves a safe area;
Our goal is prevention.
 - Geo-fence = late-stage response
 - Falls/SOS = early intervention
- Pendants are often activated during early confusion or distress, allowing:
 - Immediate voice contact
 - De-escalation and reorientation
 - Caregiver involvement
- Caregivers respond before police are needed.



The **technology is a means to achieve early human response** and intervention



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QUESTIONS



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