

Buildings & Community Resilience in St James Town

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The Solution Proposal Team

Buildings & Community Resilience in St James Town



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The Focus

Buildings & Community Resilience

1. *Green Champions* training
2. Emergency Preparedness training
3. *Floor Captains* program
4. Low Carbon workforce development and training
5. Building energy audits
6. Community Resilience Room

What is Resilience?

Resilience is the ability to respond satisfactorily to disturbances to various human needs



Maslow's Hierarchy of Needs



Buildings & Community Resilience Hub

Buildings & Community Resilience in SJT

Who?

For the community by the community



ANGELA SIMON (ANGIE) - THE CAREGIVER



37
Toronto, Ontario
Cashier Supervisor @ Food Basics
Divorced • 3
Lucas age 10, Isabel age 6,
Samuel (Sam) age 3

ATTITUDES & MOTIVATIONS

Angie wants to take care of her kids and to have a secure environment and a good future. She is frugal as she is trying to use the app living in a rent-controlled apartment to save a first deposit for a home and to provide her future.

Very good with time management, Angie is as much free time as possible which she spends with her kids.

PAIN POINTS

Lack of money for alternative living accommodation use of emergency.
Worries about her kids in emergency situations.
Lack of time for preparations.
Lack of storage space for emergency supplies.

OPPORTUNITIES FOR EMERGENCY PREPAREDNESS

- Limited to bite size information chunks due to lack of time
- Receptive to communication through kids (school activities and newsletters)

KAYRA KOIRALA (SAANI) - DAYCARE ATTENDEE



3
Toronto, Ontario
Daycare attendee

ATTITUDES & MOTIVATIONS

Kayra is curious and wants to learn new words by asking each and everything she sees.

She is focused on her tv shows and the story books she reads to complete them.

She is very well adapted to the new environment and her new friends from different cultures.

PAIN POINTS

Have to completely rely on family during the emergency.
Cannot read on her own about the emergency preparedness procedures.



AMIHAN DELA CRUZ - THE SENIOR CITIZEN



78
Toronto, Ontario
Retired, worked in the catering industry
Married • 1

children and grandchildren, however she has been feeling lonely, isolated due to the coronavirus pandemic. Recently she wanted a number of flyers about local food programs which she is interested in. However, due to her lack of computer literacy and limited English, she plans to enquire about the programs within her community.

ATTITUDES & MOTIVATIONS

Plans to live in SJT for the rest of her life around her friends and family.

Loves to cook delicious traditional dishes for herself and others.

PAIN POINTS

Breathing health condition that requires high degree of indoor air quality and temperature control.

Onset of mobility issues, and living with a spouse with health issues.

Limited English language skills.

Limited computer literacy.

OPPORTUNITIES FOR EMERGENCY PREPAREDNESS

- Knowledge and experience with organizing kitchens, parties, and food events
- Closely connected with lots of people with various passions and skill sets

KEY VARIABLES



Buildings & Community Resilience in SJT

The problems



**Aging
infrastructure**



**Lagging climate
awareness**



**Lack of social
capital**



**Increasing
number of
Emergencies**



Buildings & Community Resilience in SJT

2030 Vision

By 2030...

- Have **3-6 Resiliency Rooms** that are well established, with an **emergency response plan**
- All SJT buildings have emergency-trained **Floor Captains** ready to mobilize the emergency response plan
- **Empowered residents (Green Champions)** well versed in climate strategies
- Engaged **stakeholders** actively implementing the **building energy efficiency and carbon reduction plan** aligned with governmental GHG emission reduction goals



Decarbonization
Resilience
Electrification
Adaptation
Multi-family

Buildings & Community Resilience in SJT

Project Scope by 2023

- Developed an **Emergency Preparedness Plan** ready to be mobilized in a climate event
 - Green Champions, Floor Captains and Emergency Response Team trained
 - 1 Resiliency Room designed, piloted, and constructed
- Developed a **Low-carbon Climate-resilience Roadmap** for the building infrastructure
 - Trained building auditors for the team and qualified residents
 - Building audits completed by building owners
 - Developed and presented an integrated plan that aligned building owners' interest with feasible financial case



Buildings & Community Resilience in SJT

Program Road Map 2021-2023

Phase 1

Dec. 2021 to Apr. 2022

- Green Champions training
- Building inventory info gathering (public data sources)
- Emergency preparedness plan development and training for residents

Phase 3

Sept. 2022 to Dec. 2022

- Continuous training (Green Champions, workforce, floor captains, resident's emergency preparedness)
- Resiliency Room design
- Building energy audits completion by building owners

Phase 0

Apr. 2021 – Nov. 2021 - (partial completion)

- RSI Community Climate Ambassador Training
- RSI Workshops
- Partnership development
- (Tower Renewal, CoT, TNO etc.)
- Funding source identification and application (Metcalf etc.)

Phase 2

May 2022- Aug. 2022

- Low carbon workforce training (energy auditors, floor captains)
- Building owner engagement

Phase 4

Jan. 2023 to Jul. 2023

- Resiliency Room pilot construction and completion
- Low carbon climate resilience plan for buildings

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Key Metrics (KPI)

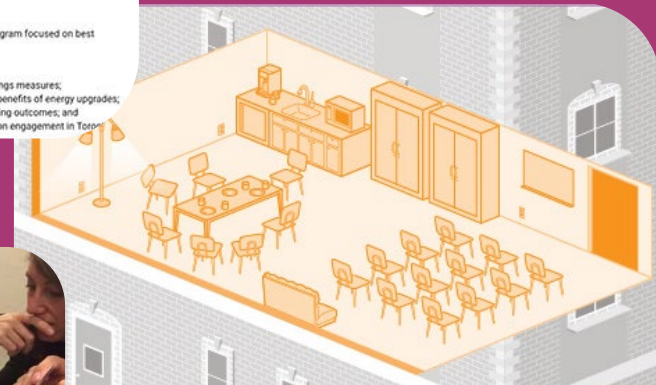
- **No. of residents:**
 - Completed Tower Renewal's Green Champions training
 - Received Emergency Preparedness training
 - Trained as Floor Captains
 - Engaged in communication (newsletters etc.)
- **No. of capacity development sessions**
 - Energy audit training sessions
 - Building tours
- **No. of low carbon building audits completed**
 - Building owners engaged
 - Inventory audits conducted based on available open data (2022)
 - Building audits conducted and presented (2023)
- **No. of resilience rooms constructed**



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Where Else Has It Worked?

- CREW - Community Resilience to Extreme Weather - SJT
- TNO - Green Champions - Thorncliffe Park, Toronto
- HEAT - Home Efficiency Animator Training - City of Toronto
- Seattle Emergency Hub Network
- ATCO - modular structures - Fort McMurray wildfire relief
- Concert Properties - Existing Buildings Carbon Framework
- Minto Properties - Deep Retrofit plan of Marlborough Court in Oakville



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Funding Sources

- Intact Foundation - Municipal Climate Resiliency Grant (Supporting community resiliency to flooding)
- Metcalf Foundation - Opportunities Fund (Improving economic livelihoods of low-income people in Toronto)
- Tower Renewal - Green Champions program
- City of Toronto, and Provincial, and Federal governments
- In-kind contribution from experts and community groups



Buildings & Community Resilience in SJT

Next Steps – Strategic Partnerships and Funding

- **Partnership development**
(Connect with TNO, Tower Renewal, previous Green Champion neighborhoods, City of Toronto, TCHC, CREW, SJT Community Co-op, RSI)
 - Green Champions Training
 - Floor Captains Training
 - Resiliency Plan and Training
 - Workforce Training **WoodGreen Community Services**
- **Funding source identification and applications** RSI
- **Building scan using open data:**
 - Resiliency challenges
 - Critical Infrastructure (energy, water and waste)
- **Residents and building owner engagement**
New Common + other organizations in SJT
(in partnership with community groups, green champions etc.)



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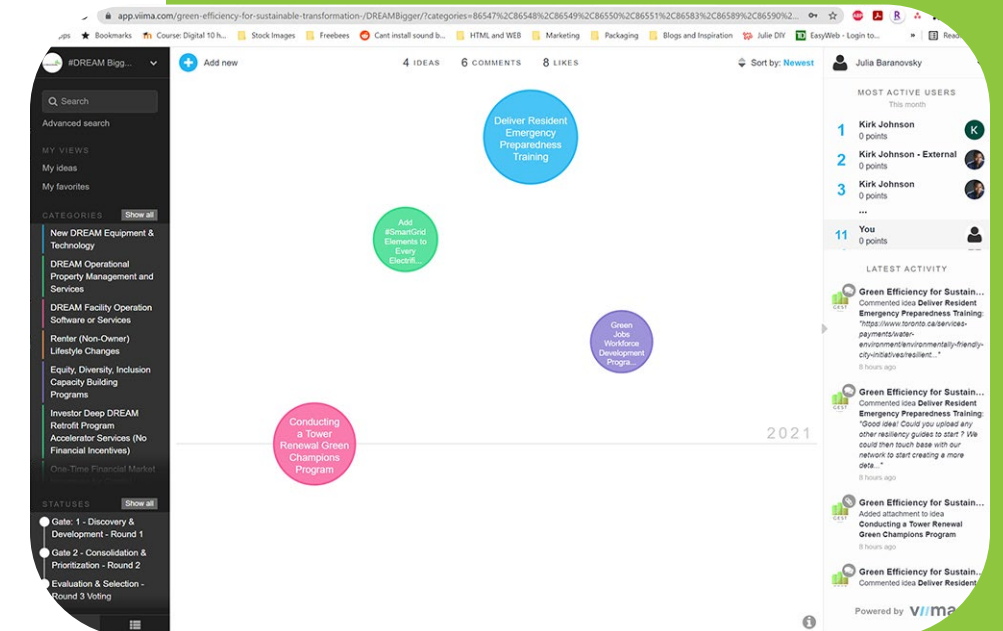
The ask

- **Moving forward to Phase 1 ~ \$100K**

Team training, scope surveying for capital phases, project management and stakeholders' engagement

- **Capital Phases 2 and 3**

Budgeting and securing the funds



Thank you!

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