

Buildings & Community Resilience in St James Town

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COMMUNITYCLIMATEACTION.ORG







TRINITY LIFE





The Solution Proposal Team Buildings & Community Resilience in St James Town







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Kirk Johnson Mentor

Agile Sustainability **Program Design & Delivery**





Julia Baranovsky Peer Leader

Project management and visual design

Community

Climate Action

ST. JAMES TOWN



Justin Hung Peer Leader Architectural designer, strategist, and student



Alaa Hammoudi Peer Leader Electrical Engineering





Nigel Etherington, P.Eng. Mentor

Founding Principal, Planet & Company Inc

Ali Kasiri **Peer Leader** Mechanical Engineering



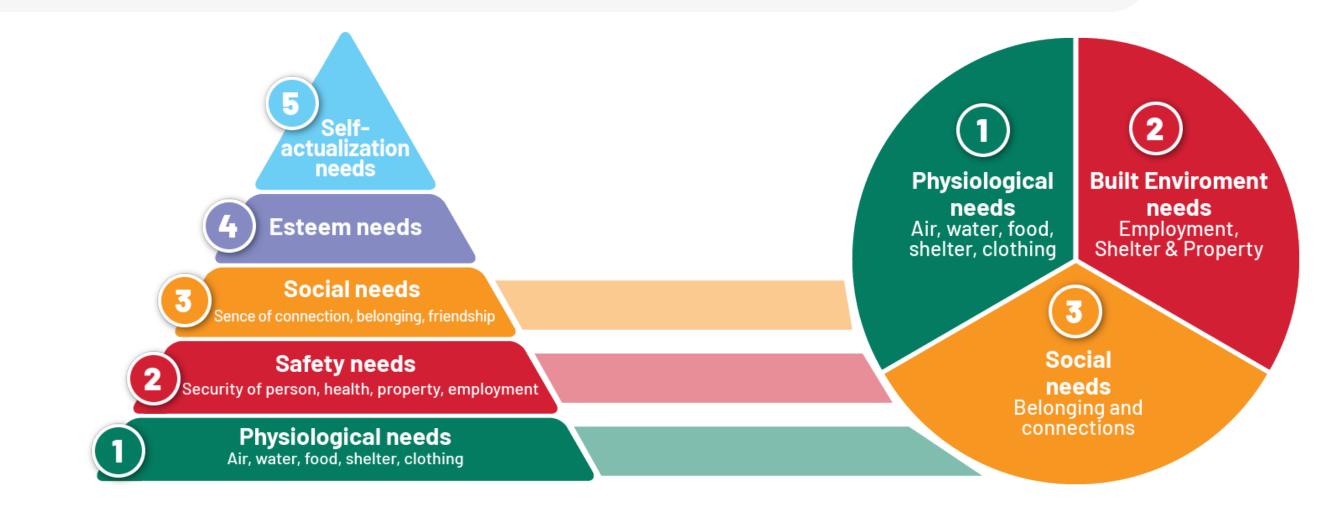


Buildings & Community Resilience

- 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

Samuel (Sami) age 3

ATTITUDES & MOTIVATIONS - Angelo works to take care of her kids and with a secure environment and a good futu She is frugal as she is trying to use the op ing in a sent controlled apartment to sm first deposit for a home and to provide it future.

· Wry good with time monoorment. Angle as much free time as possible which she children PAIN POINTS

"HT KIDS MADE THE FUTURE WORTH LIVING FOR."

Angle lives in her aperament in SUT on the 17 foor. She moved

to the building with her nusband to years ago, two years after

immigrating to Canada from Mexico Now she is divorced and

takes care of her three kids. She wants her approximent to be a safe, warm and secure place for her kids to prox. She point?

have time to be involved in community Lfv as she works a full.

time job as a cashier supervisor in the local Food Darics She velies neavily on the information she gets at work, friends and

her kids schools

- Lock of money for alternative living a use of emergency - Worries about her kids in emo + Lock of time for preparations Lock of sterage space for emergency si

"THIS IS HOW I KICK HOT SUMMER DAYS."

Kayra, 9 years old, lives with her family in Wellesley Street. East on the 16th floor. She came to Canada along with her

AMIHAN DELA CRUZ - THE SENIOR CI



BEING IN THE ST. JAMES TOWN COMMUNITY HAS EIVEN ME A SENSE OF SUPPORT AND BELONGING."

Amhan has been a resident of St. James Town for 8 years She others is retred from working in the food catering industry and lives. with her husband Angelo (Bil) who is a retired mechanic, and ther dog, on the solt face of a high rise. They immigrated to RAIN POINTS Toronto from The Philippines with their son who now lives in

Scarborough with his family Anney ree a reach conston that affects her ability to breache.
- Orset of mobility issues, and friang with a spouse with especially in extreme weather and limited mobility to she health basies needs a walker Her husband uses a scooler Annhan enjoys spending time with her husband, their filends.

dren and drandchildre oally solided due to the coronautus pendemic Recent the Kurdeverbed in Reserver due to her lade of econol cer iteracy and limited English, she plans to engline about the rocrams within her community. ATTITUDES & MOTIVATIONS

- Hons to live in 511 for the rist of her life around her friends and family - Lows to cook deliceus traditional dahes for herself and

- Breathing health condition that requires high degree of indoor oir quality and temperature control

- Liested English longuoge skill - Limited computer literacy







KAYRA KOIRALA (SAANI) - DAYCARE ATTENDEE

<u>₩</u> 3	KEY VARIABLES	
P Toronto, Ontario	Reliance on others in emergency situ	ations
Daycare attendee	Depending on myself	Depending on others
	Trust in authorities	-
ATTITUDES & MOTIVATIONS	Low	High
 Kayra is qurious and wants to learn new words by asking each and everything she sees. 	7 Tolerance for disruption	
 She is facused on her tv shows and the story books she reads to complete them. 	Low	High
 She is very well adapted to the new environment and he 	Hunger for information	
new friends from different cultures.	Low	High
PAIN POINTS	Interest in Emergency preparedness	
Have to completely rely on family during the emergency.	Low	High
Cannot read on her own about the emergency prepared	Comfort with technology	
ness procedures.	Low	High
OPPORTUNITIES FOR EMERGENCY PREPAREDNESS - Knowledge and experiance with organizing Alchems, parties, and face events - Classify consolicit with lasts of people with serious	•	
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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





Source of DREAM model: Kirk Johnson

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

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

- RSI Workshops
- Partnership development
- (Tower Renewal, CoT, TNO etc.)
- (Metcalf etc.)

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

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



Phase 0

- RSI Community Climate Ambassador Training

Funding source identification and application

Phase 2

May 2022- Aug. 2022



Jan. 2023 to Jul. 2023

Slidesgo.com

Buildings & Community Resilience in SJT 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





Buildings & Community Resilience in SJT 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





Buildings & Community Resilience in SJT 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.)





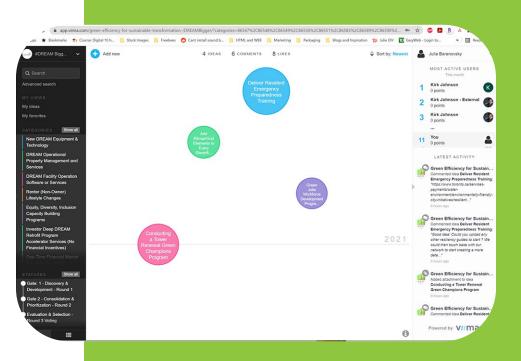
Buildings & Community Resilience in SJT The ask

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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