



MisterChalmers' ChalmersCards

Zach Donsky

129 Peter St
24 HOURS



Shelter Referral Line

Toll Free 24 hrs 1-877-338-3399

Chances of finding a job

Foodandshelter.org

...tells you where
to find food.

Food/Foodbank Information

This map lists all the free

Food Banks in the area



\\" Shortly after starting this project I made a habit of stopping and talking with the folks I passed by on the street who were panhandling or flying signs. I also started volunteering at a weekly drop-in warming center.

I quickly learned that friendly conversation can be rare, and is nearly always appreciated, for someone who experiences unstable housing. A lot of the folks I talked to were often insulted, ignored, and sometimes assaulted. I tried to show them that I gave a damn about the state of homelessness in Toronto. Often folks were keen to tell me about their lives growing up, and about their experiences on the street.

I learned a lot from these conversations. Later on in the project, after vetting the information on my prototypes, I began distributing Chalmers Cards to the people I spoke with.

I want to be clear that these conversations were never part of a formal research effort. I gained a lot of key insights from these conversations, many of which you'll find in this book. But the intentions of the conversations were only ever to be friendly, or were a byproduct of my attempts to bolster the ranks of front line workers fighting homelessness in Toronto.

I wanted to put a dent in Toronto's Homeless Population.

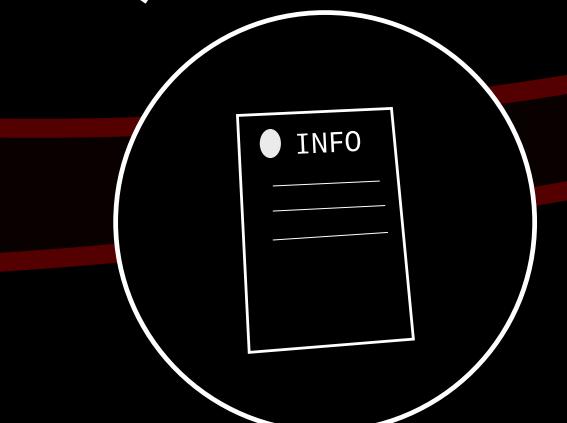
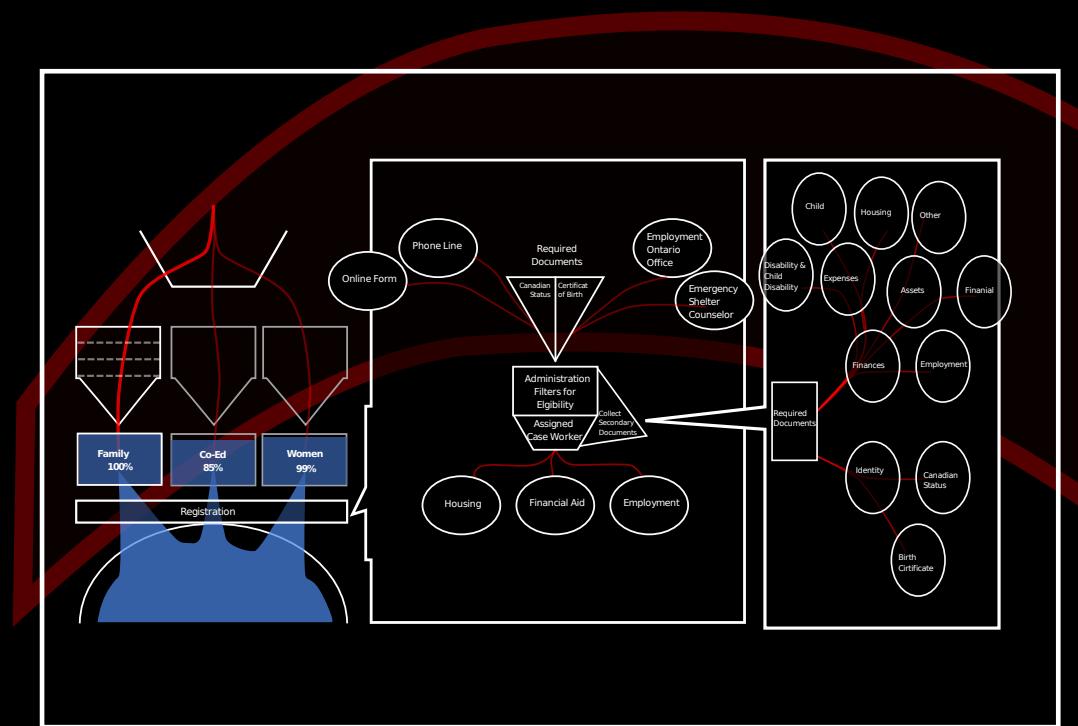
\\" There are more than 6000 Torontonians that experience unstable housing. An estimated 600 Torontonians sleep rough on the street.

I cannot commute to school without passing a fellow Torontonian sitting on the street and flying a sign.

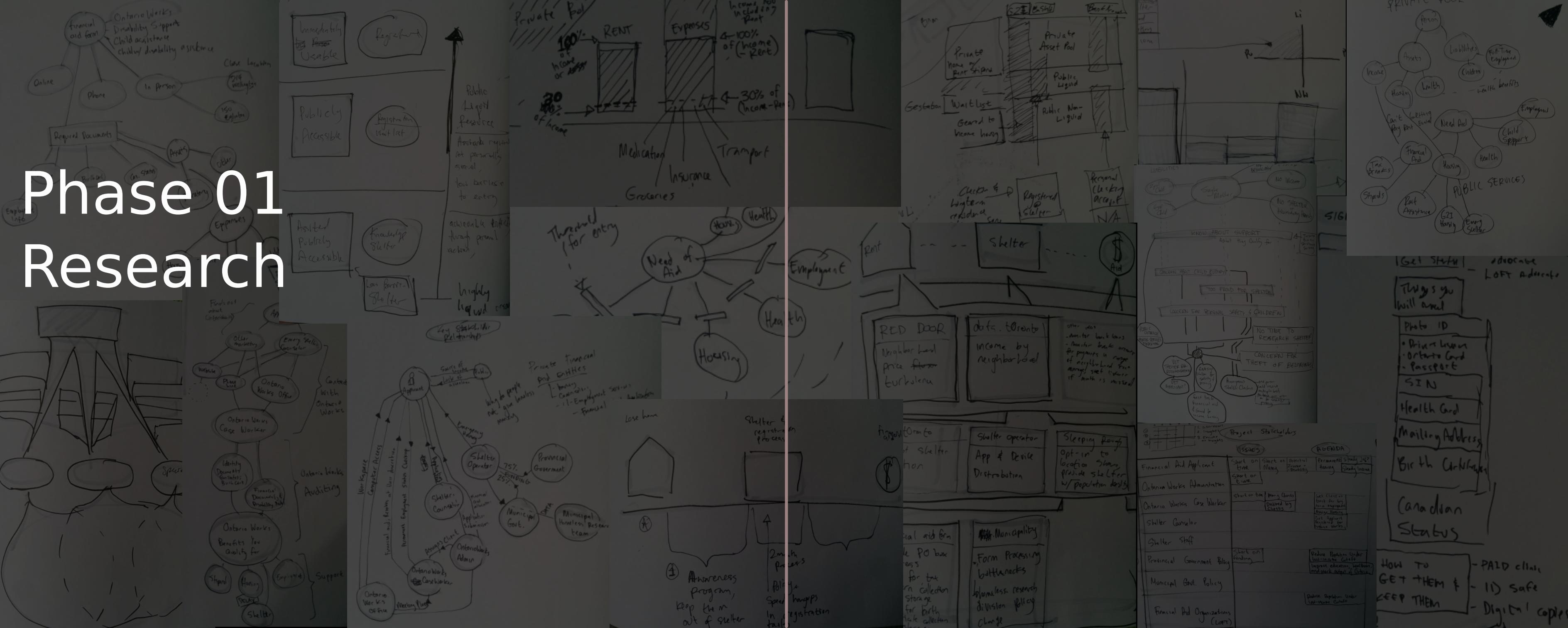
This summer I went on birthright with a group of my peers. I visited the western wall in old Jerusalem. I don't believe in God, but while my friends made prayers of their own, I promised to find a way to help the homeless in Toronto.

It sucks that there are people that have to sleep on the street. And it sucks that emergency shelters have a reputation for being dangerous, wrought with theft, and discriminatory.

Phase 01 Research



Phase 01 Research



Temporary Shelter

Emergency Shelter

Winter Respite Center

Out the Cold Program

Transitional Housing Programs

Financial Aid

Ontario Works

Ontario Disability Support Program

Support Programs

Neighborhood Houses

Toronto Public Library

211 / 311 / other phone lines

\\" The emergency shelters have multiple tiers, and have sub tiers that they organize their bed supply into . Financial Aid programs have tiers and sub tiers as well. Support program locations and times are peppered throughout the city.

The tiers of each resource usually refers to the quality of service. And a users placement in tiers usually depends on the stability of their current situation, or in their cooperation in a resource's recommended programming.

For example: Ontario Works has a tier of financial aid stipend often referred to as "street allowance" --the amount payed to applicants who sleep rough on the street or in low barrier emergency shelter-- \$275/month. But Ontario Works offers stipends up to \$780/month. Larger stipends are payed to applicants who need help paying rent, and who participate in Ontario Works programming.

\\" I focused my research of Toronto's existing infrastructure on three perspectives.
* The perspective of the municipality
* The perspective of the applicant
* The perspective of the administration.

\\" The municipality operates an array of emergency shelters which have specialties.

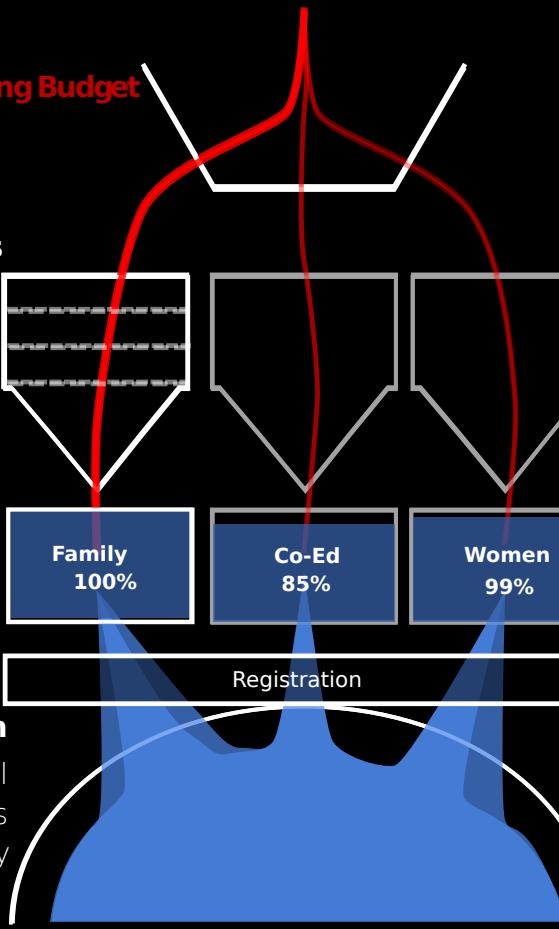
In the chart on the right I have singled out Family, Womens', and Co-Ed shelters. Family shelters and Womens' shelters are the most over crowded shelter types. Co-Ed shelters were included for reference.

Perspective of Municipality

City of Toronto Operating Budget

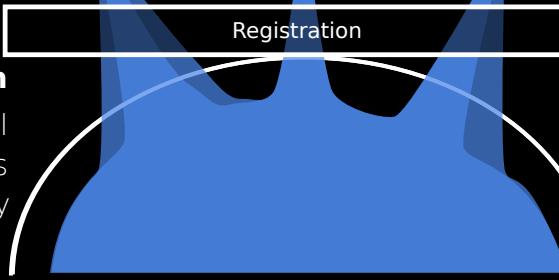
Shelters & Operators

Carrying Capacity
Supply
Staff Expertise



Operator Specialty

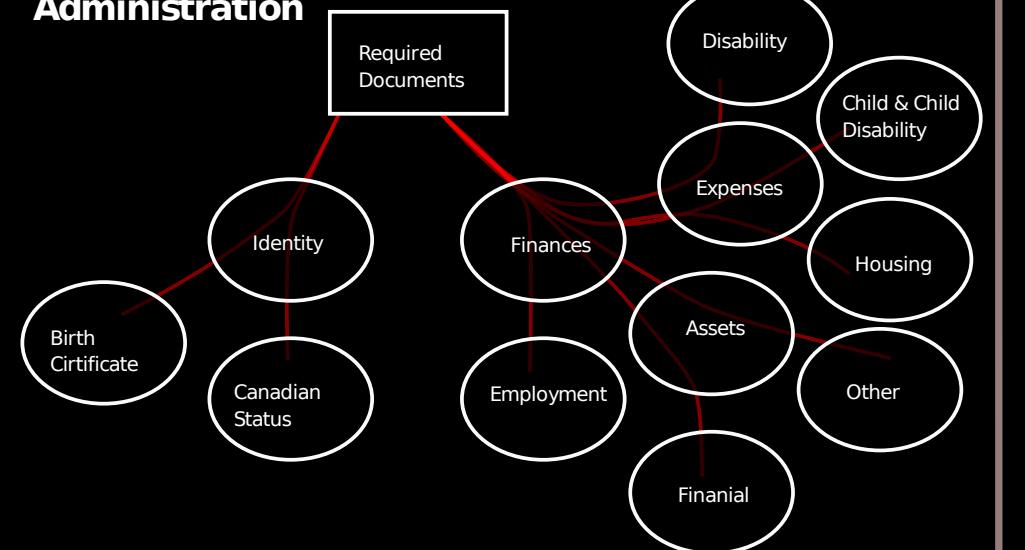
Youth Specialty
Female Specialty
Family Specialty



\\" The chart on the right details the documents Ontario Works administration staff will require from a client before they can start to receive stipends and benefits. It should be noted that over this past year (2017), Ontario Works has made a lot of progress in improving the user experience of registering for financial aid. Also, Ontario Works case workers have been known to occasionally issue stipends before all the required documents have been processed.

The documents fall under two categories, which Ontario Works internally refer to as Primary and Secondary documents, but which are labelled on the right as Identity and Finances. The purpose of the documents are to establish proof of identity and a full audit of the client's financial situation.

Perspective of Administration

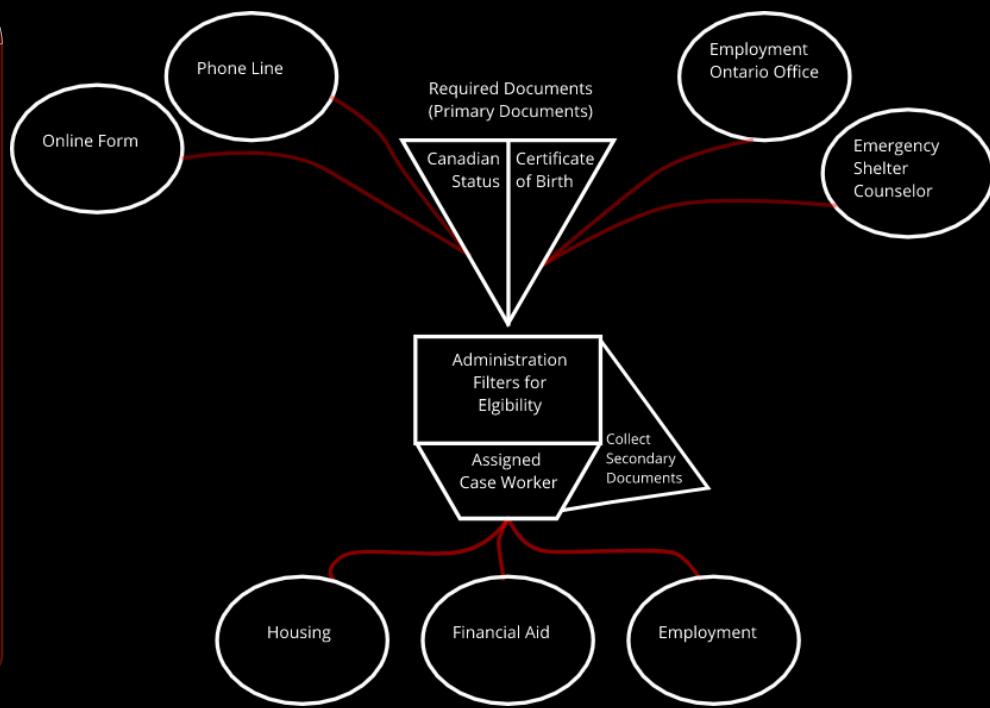


\\" Support infrastructure from the point of view of the applicant happens in three steps: entry, processing, resource delivery.

Financial aid registration for Ontario Works has four intakes: internet, phone-line, at location reception, and frontline counsellors.

After being referred to Ontario Works, the client must interface the staff to collect their required documents and be assigned to their Ontario Works caseworker.

Through their caseworker, the client can access financial aid resources like stipends and subsidized housing.



Bottlenecks in the existing infrastructure

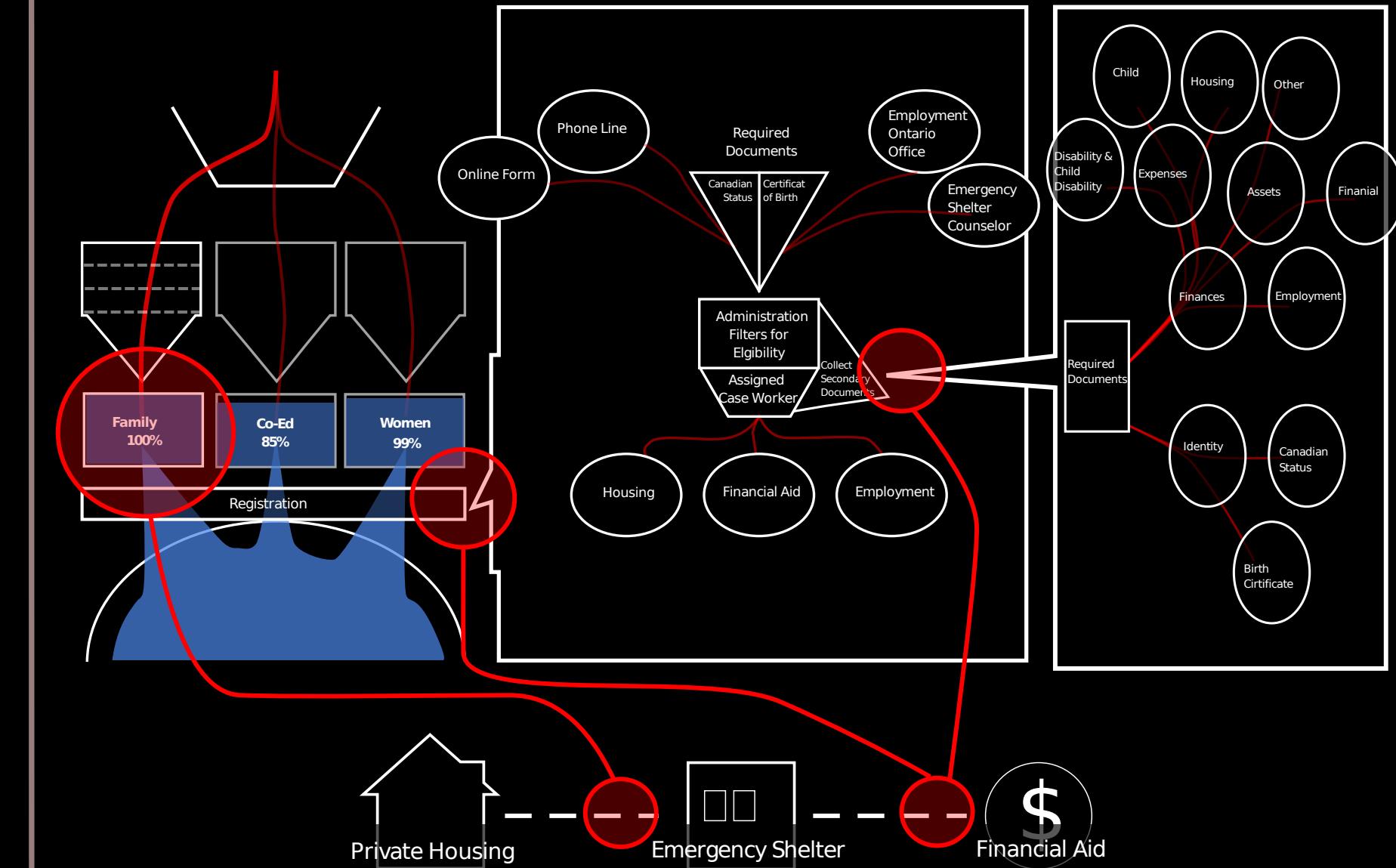
\\" The most pressing bottlenecks I identified in my research of Toronto's existing infrastructure were a shortage of shelter space and a shortage of staff. Additionally, there is a bottleneck involved in collecting the required documents for registering a client for financial aid, but Ontario Works has been successfully making changes to improve this process.

According to city estimates, not a single night in emergency shelters in the last ten years has been recorded below the city mandated maximum capacity. Ten years ago was when SSHA started recording nightly shelter capacity numbers.

The shortage of staff is especially apparent in the operation the shelter referral line, and the workload of Ontario Works case workers.

The referral line has extremely long wait times. It is the City's only recommended intake process for acquiring shelter space, other than going in person to Streets to Homes at 129 Peter St. Even though the referral line is expected to service all of Toronto's unstable housed citizens, there are only 6 operators working per shift. Additionally, the operators are encouraged to conduct lengthy surveys to collect the callers personal information.

Ontario Works case workers often have as many as 100 clients each. The case worker is responsible for helping their client collect all required documents and for interfacing with Ontario Works programming and services.



Interviews

\\" To deepen my understanding of the existing infrastructure, I conducted interviews with SSHA administration, frontline staff, and Torontonians who've been clients of support infrastructure.

I met most of my contacts while volunteering at Civic Tech Toronto, a weekly volunteer meetup where technologists and civil servants work together to chip away at civic problems.

Additionally, I made contacts inside City Hall with the help of the Toronto City Hall Innovation Office. I regularly attended the Innovation Office open hours, which are every friday.



CIVIC
INNOVATION
OFFICE
Solving for Toronto

\\" It was around this time in the project I decided my target market: Torontonians who sleep rough on the street. Due to extreme weather conditions this past winter, sleeping rough in Toronto was extremely dangerous. There are other dangers involved in sleeping rough: theft and sexual assault are common. It should be noted that in some cases these two dangers exist in shelters as well.

People Sleeping Rough
on the Street

High Risk of
Injury



Population change is more easily measurable than people with low income living with family or friends

Points of Contact



Interviews
with
Toronto
Financial
Aid Workers



Research on
Living Rough
on the
Streets

Key Findings

Cellphones are a rare item among those sleeping rough

It seems like everyone who sleeps rough has had their phone stolen from them at least once

Identification is stolen all the time from people sleeping rough

It's pretty uncommon for people to know about secure places to keep their ID, like ID safes at shelters and community health centers

Public computer access is poor without a Library Card (limited 30 mins at Library)

It's common for those sleeping rough to have a poor relationship with the public library

Those that have used the new OW registration or ID clinic give it glowing reviews

It is uncommon for people to know that OW registration has greatly improved since the spring

Some shelters (like Streets to Homes) will receive mail on behalf of someone

Geared to Income housing has a very long waitlist. But if you are escaping an abusive relationship you are strongly prioritized

Ontario Works prepaid visas are sometimes issued to applicants without ID who are desperate

Some IDs, like an Ontario ID card, are sufficient by themselves to get registered for Ontario Works

Key Findings Cont.

\\" What many of the key findings had in common was that access knowledge of what resources were available was pretty poor.

Most folks sleeping rough didn't seem to have cellphones, as they were often stolen. In many cases people described themselves as having poor computer skills. What public computer access was available was poor; Most locations limited users to a half hour of use. Additionally, I was often told that there were many people who had a poor relationship with their public library.

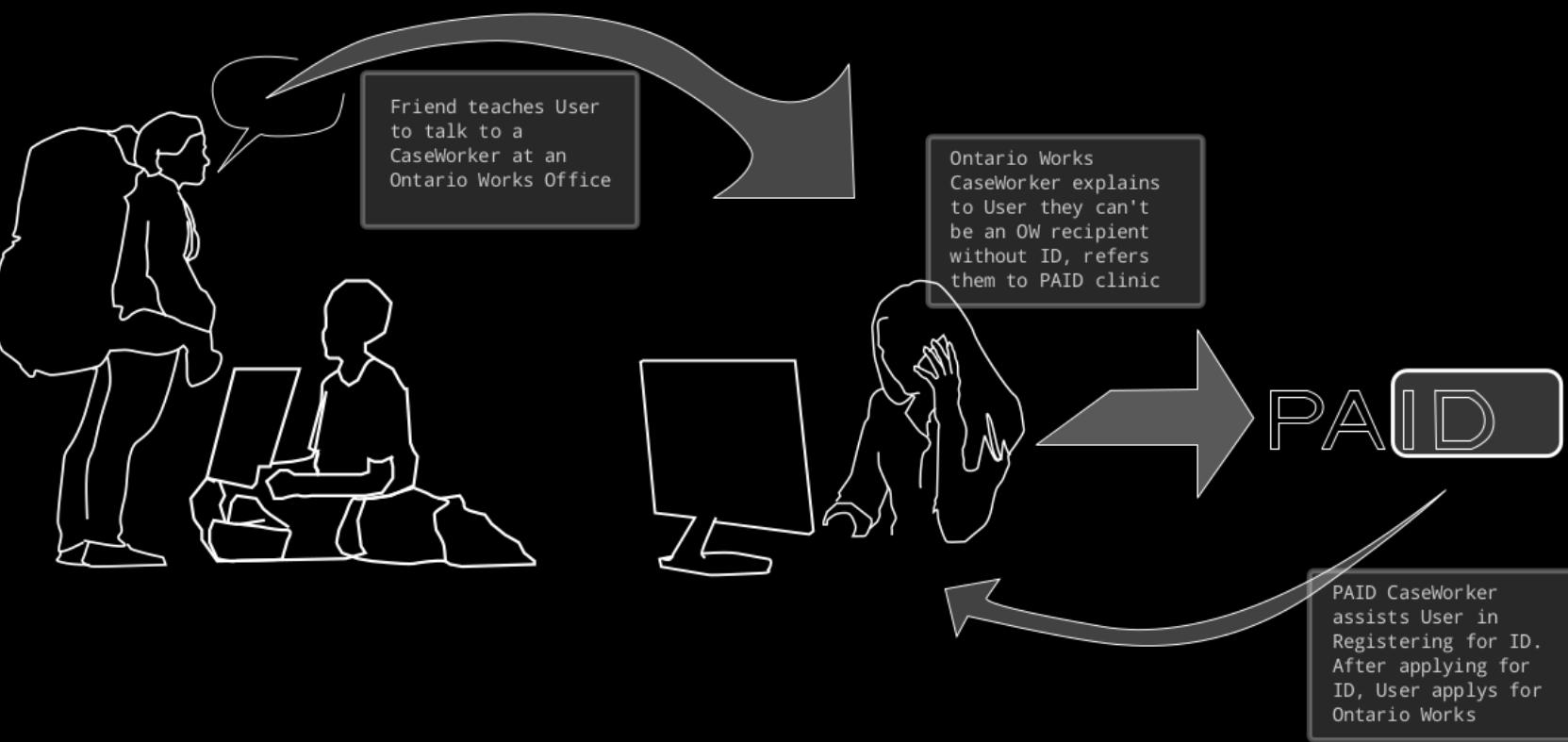
The poor access to information on public resources was unfortunate because many of these resources had short cuts and recommended work-flows.

Ontario Works caseworkers were known to occasionally issue stipends on their first meeting with a client. But these occurrences weren't common knowledge, and their issuing the stipend depended on merit and circumstance.

Food banks and soup kitchen locations often only open for a few hours a few times per week. But when strung together, multiple locations can form schedules that could keep a person fed on 3 meals a day. The city of Toronto developed a web-app to keep track of all the locations and times, but no one I spoke to had heard of it except for the developers themselves.

\\" People usually just learned about resources from word of mouth. Friends would relay personal experiences they had, and sometimes bring them to their first visit. A persons knowledge of resources usually involved the locations that were closest to them.

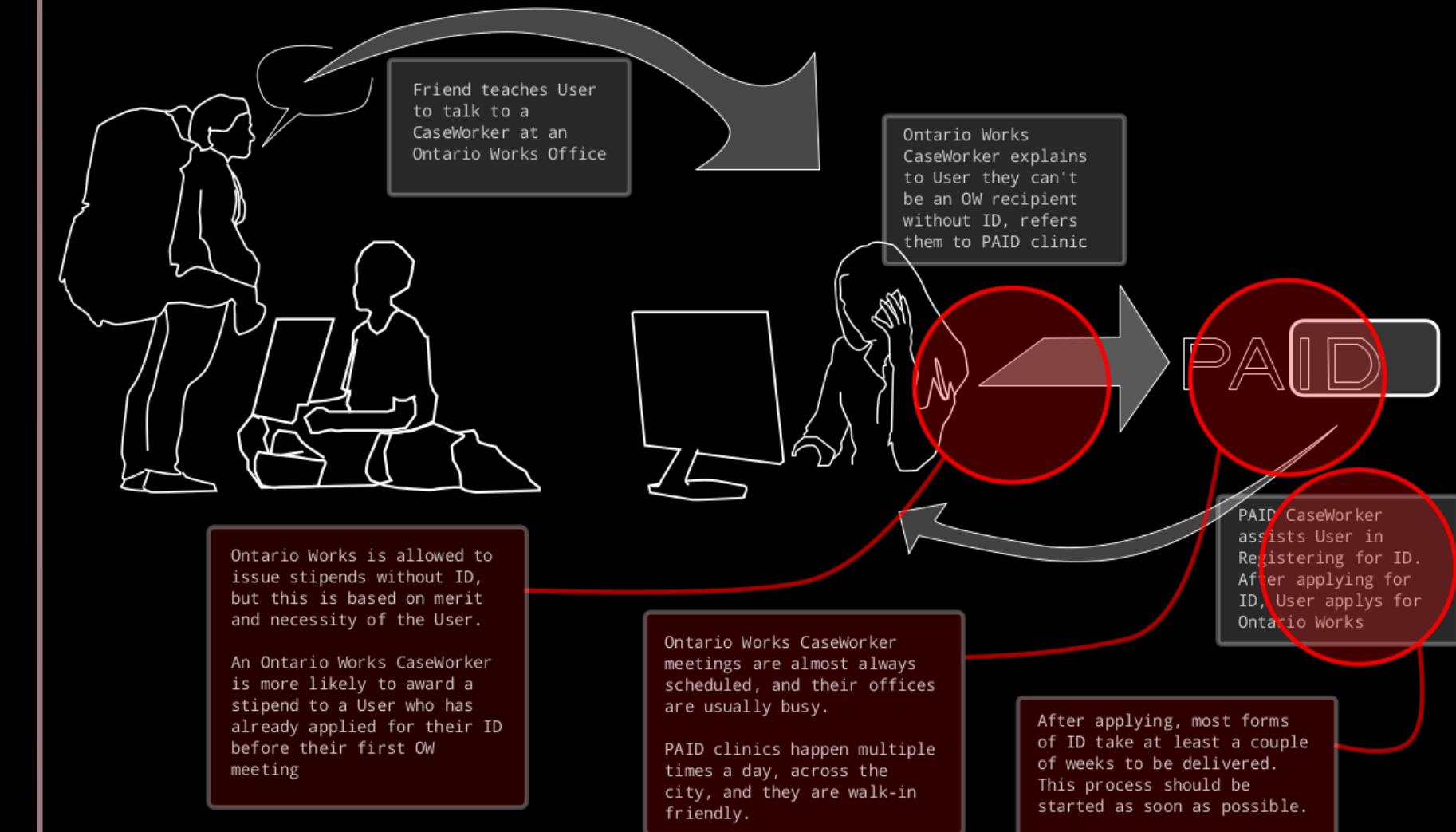
In the example below, someone is unable to access stipends from Ontario Works because they have lost their ID. The caseworker refers them to an ID clinic, because the person can't be registered until their ID is reissued.



People who are underhoused often don't have easy access to information on public resources.

\\" Getting on the Internet is a real chore when you don't have a computer. So people's navigation of public resources depends on learning from friend's experiences, and being referred to resources by friends and front-line workers.

\\" When they arrive for their first time at a resource, they may be missing a required article. This event creates frustration and extra work for the user. A user pressed for time might abandon a resource after this event.



This is what it might look like if people did have easy access to knowledge on public resources.

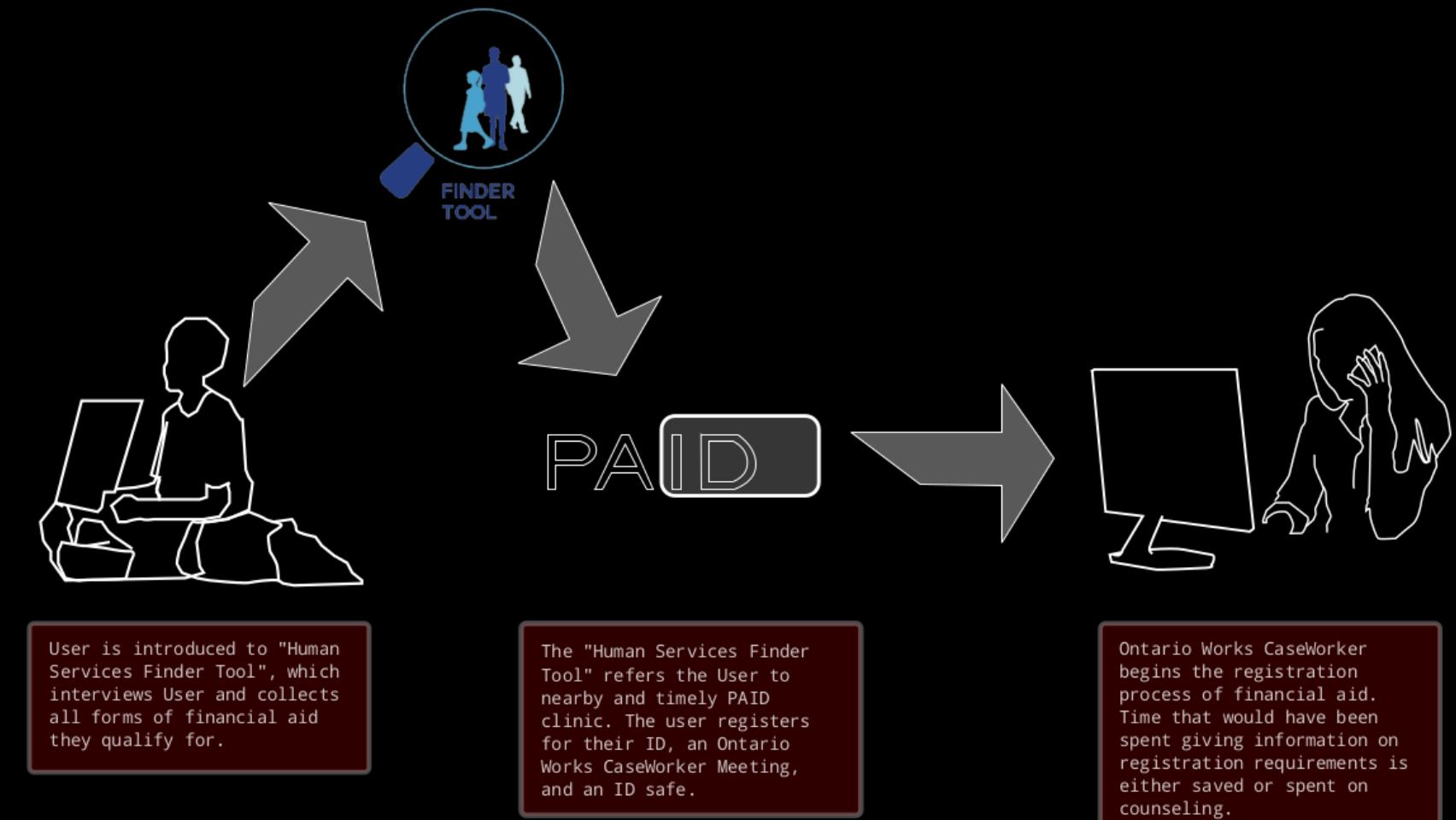
\\" The diagram on the right is an example of what it might look like if a person who has just had their belongings stolen had a comprehensive knowledge of how to register for financial aid.

The example uses an existing web site called the Human Services Finder tool to explain to the user what financial aid they qualify for. The user is queried about how much ID they have; Since their ID was stolen, the tool refers them to the closest and soonest ID clinic.

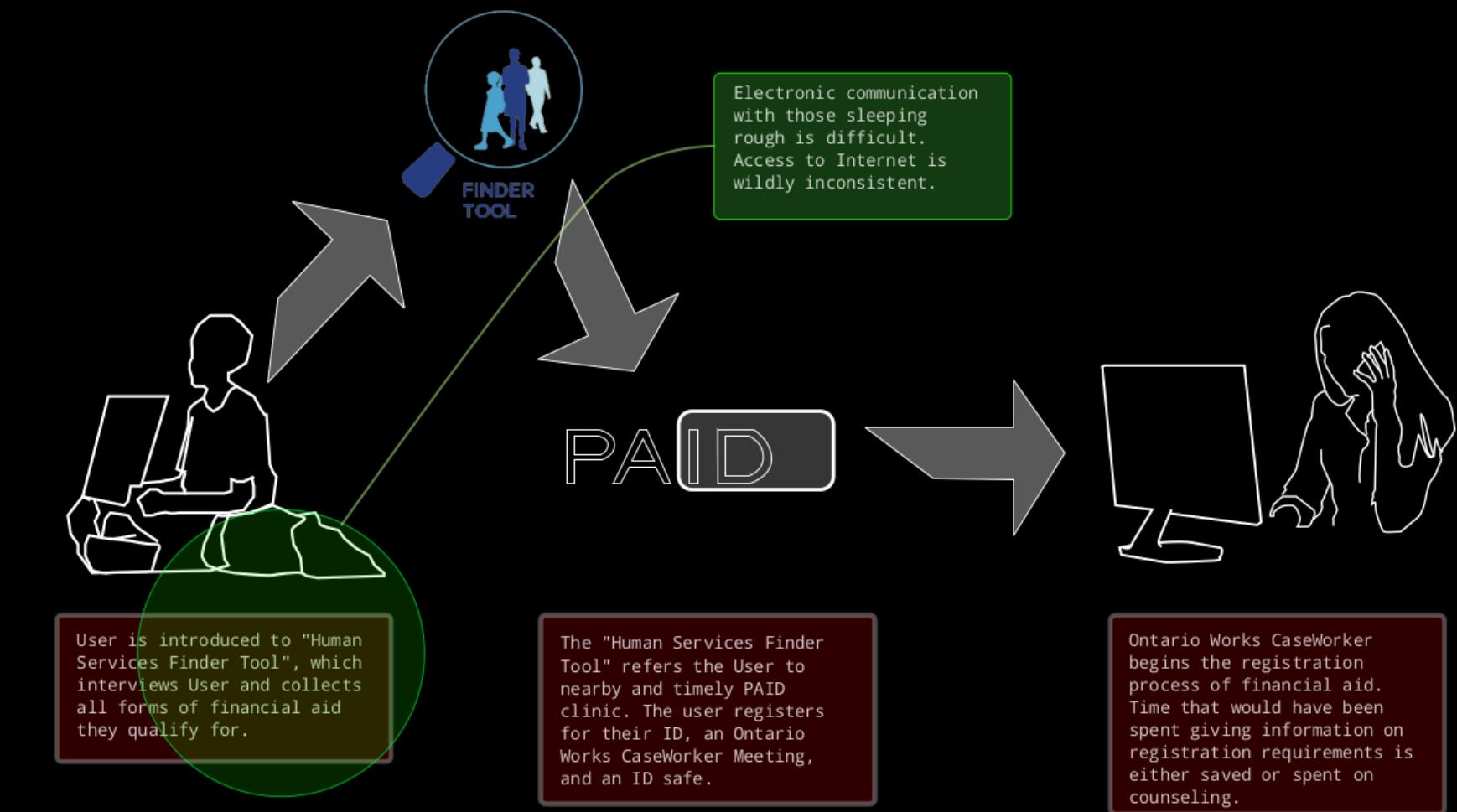
After applying to get their ID reissued, the user gets a meeting with an Ontario Works caseworker. Because the user has already applied to get their ID reissued, it is more likely the caseworker will issue them a stipend that day.

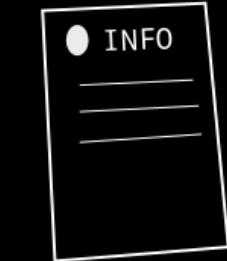


The Human Services Finder Tool is a web app built by the City of Toronto.



\\" The example diagram is flawed because it depends on a user interfacing with a web app. Getting on the internet is difficult for people who don't have computers, and computer literacy is lower on average among people who sleep rough on the street.





Public street computer

\\" The illustrations on the right are of NYC Hub, an existing project. NYC hub provides street level free computer access, phone access, and wireless internet access.

A public street computer in Toronto offers internet access in an extremely accessible way -- unmonitored, unregulated, and unobstructed on the side of the street.

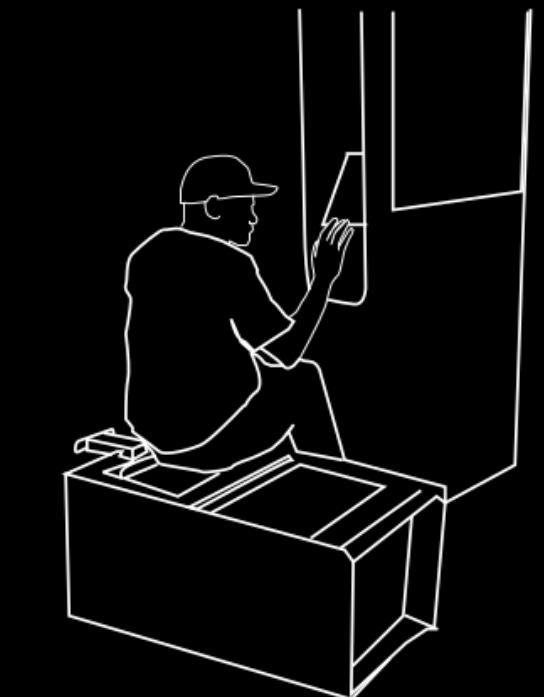


Permanent Outdoor Installation

Link Hub in New York City

Project is monetized by advertisement on it's side

Provides:
Tablet for internet access,
free phone calls, free
wireless internet, phone
charging



The Public Library

\\" Libraries are a widely spread resource, they are staffed, and they already have programs to support under-housed citizens. It's especially important that any interaction can be explained and assisted by on-site staff.



Free Phone



\\" Distributing free smart phones to anyone who does not have a computer has some big disadvantages.

1. It'll require complicated distribution and regulation
2. It'll have the expense of the phones (~\$50 per unit)
3. Phones are a high priority target for theft

But they have some potentially powerful benefits.

1. Could potentially provide internet access wherever the user is
2. Device would personally belong to the user, which gives lot of agency.
3. Likely be easy to convince the user to accept the phone; Reaching the target market may be easier.

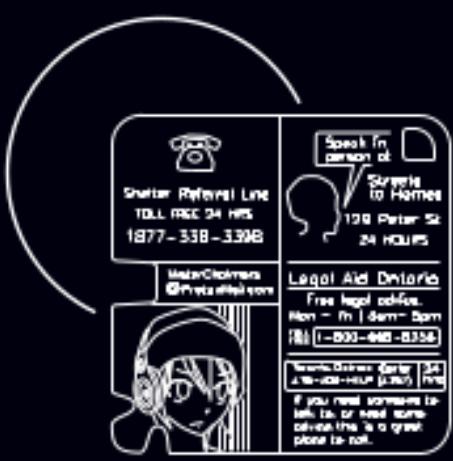
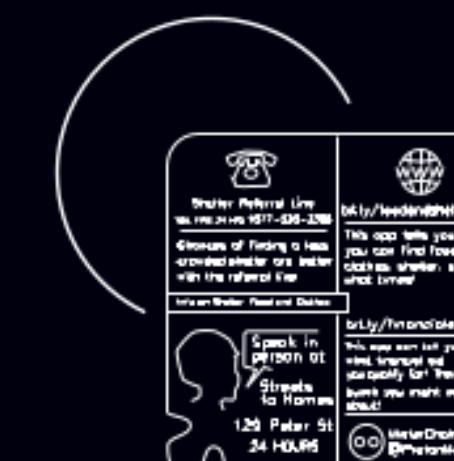
Handout

\\" Distribute something cheap and light.

Its only barriers are literacy, language, and eyesight. It's cheap and easy to distribute. And of the four strategies, it's by far the easiest to prototype.



Phase 02 Prototyping

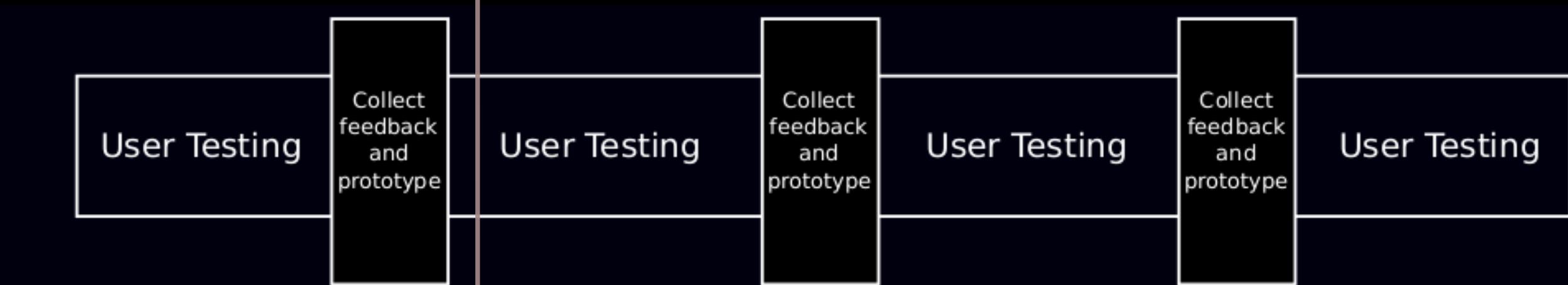


Number
Tested

~60

~140

~40



Phase 02 Prototyping

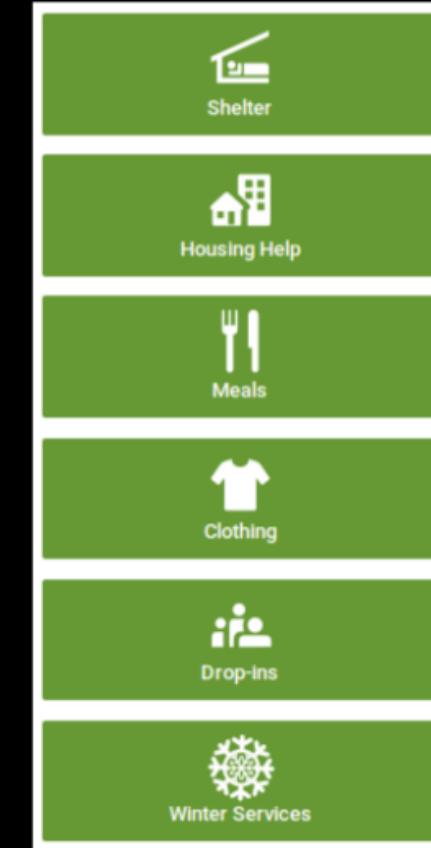
Web App

\\" Three of the four identified strategies involved internet access. So I felt it was necessary to investigate the option of building a web-app for people to access info on public resources.

To test the feasibility of a web app, I demoed City of Toronto's Homeless Help web app for friends I had met while volunteering. Most of the people I demoed it to didn't own computers, so I printed cards with shortened URLs on them so they could access the app again later.

No one was interested in using the web app.

Getting onto the Internet is too large a barrier for someone who doesn't own a computer



Shelter

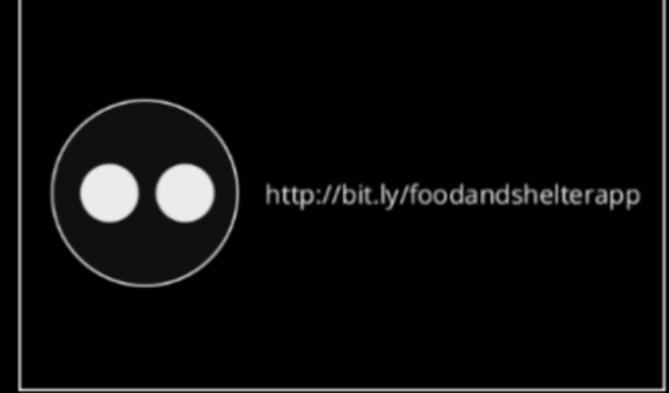
Call 311 or Central Intake at 416-338-4700, 1-877-338-3398 for emergency shelter. Youth and adults can get a walk-in referral from the Streets to Homes Assessment and Referral Centre at 129 Peter St (the red map marker). The shelters listed can be contacted directly, but may not have available space.

Filter Services:

Search:

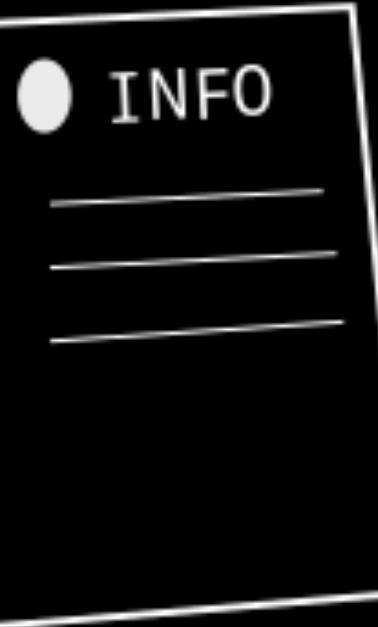
Eligibility:

42 services found



Handout

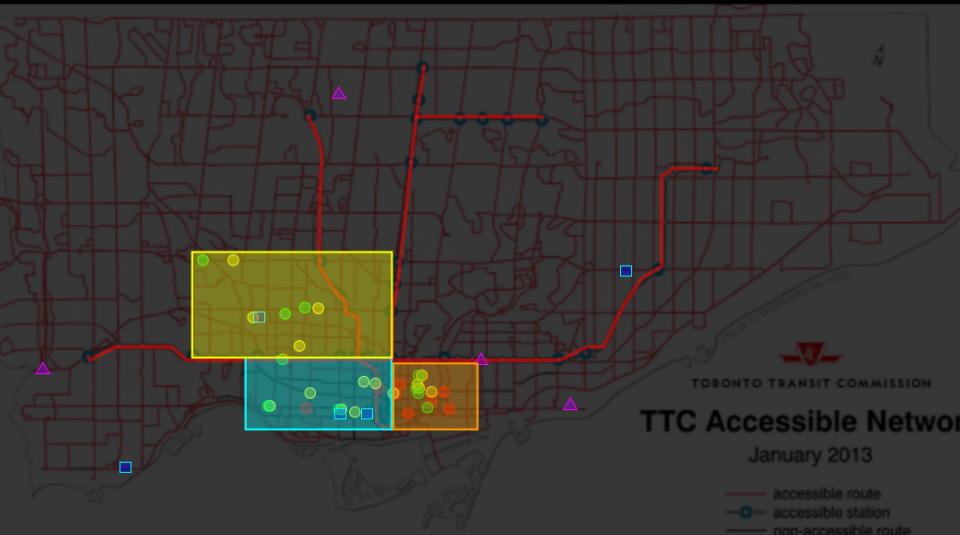
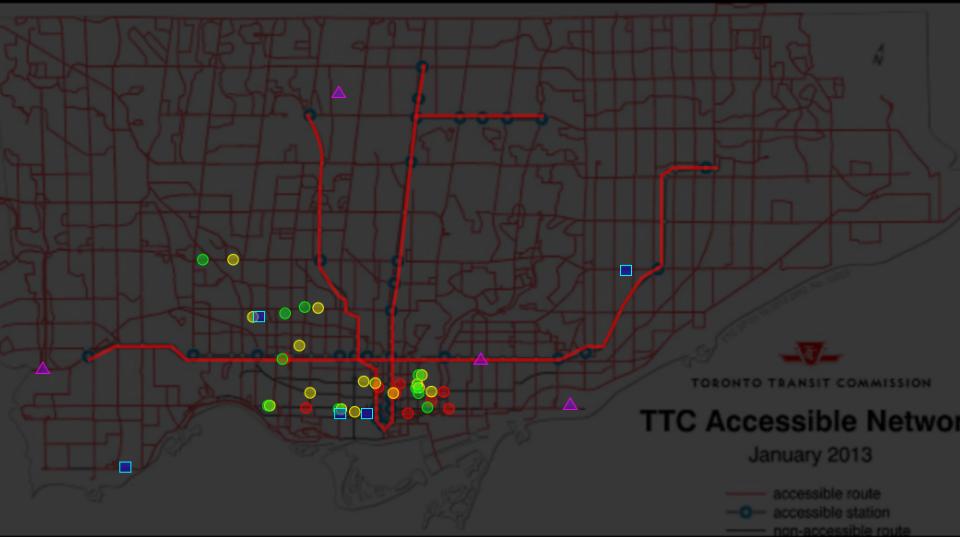
\\" Since my research suggested building a web app would be an ineffective strategy, I switched to building an inexpensive handout. I figured a handout would be easy to prototype. That way I would be able to move into testing quickly.



Mapping

\\" To plan out the first handout, I familiarized myself with the resource location in Toronto by mapping them.

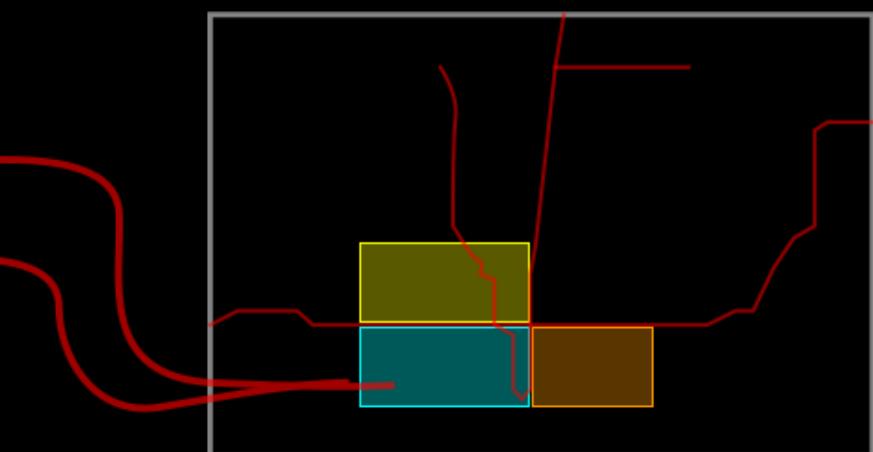
The resources seemed to concentrate themselves in clusters. So I sorted the resources into sectors.



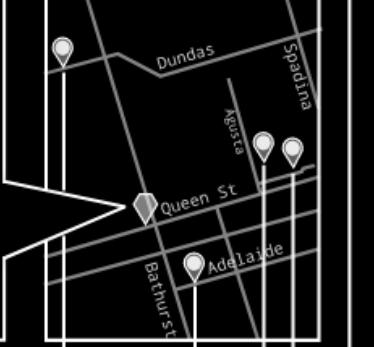
Paper Handout

\\" I picked a sector, and within the sector I picked two resources that had consistent hours and a cluster of other resources nearby them. I then printed cards with the resources' information on them.

One of the two resources is detailed on each side of the card, as well as other resources within a one block radius.



The Meeting Place



588 Queen St W
Drop-in hours

mon	9:30am - 4pm
tue	9:30am - 4pm
wed	11:30am - 6pm
thr	11:30am - 4pm
fri	9:30am - 4pm
sat	9:30am - 4pm
sun	closed-----

416-504-3535 x239

Nearby free food

- YMCA
7 Vanauyl Avenue
mon-fri 9:30-5
- St. Felix
25 Augusta
mon-thr 9-6:30
fri 9-3
- Evangel Hall
552 Adelaide
mon-fri 9-12:30
- FortYork Foodbank
797 Dundas
tue-sat 9-2

This place has a warm vibe and a good community. There's a few beds and some cool programs on their calendar. There's even a pool table

 Computer Access
 Phone Access

Sistering

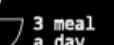
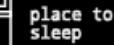


962 Bloor W
24 Hour Drop-in
WOMEN ONLY
416-962-9762

Nearby Resources

- Neighborhood Center
850 Bloor W
mon-sat 10-4:30
- HouseLink
805 Bloor W
mon-thr 10-4
sat-sun 12-8
- Native Services
655 Bloor W
mon-fri 9am-9pm
sat 12-8

Sistering will accept women into their home 24hrs a day. There's a dedicated staff there; these folks WILL help you out. If you're female, be sure to check this place out.

 3 meal a day
 place to sleep

If you like this resource, or you think something should be different, let me know at...
MisterChalmers@protonMail.com

User Feedback

\\ I handed out the cards while volunteering.
Most people were happy to take them, but it often seemed like the cards were taken because the effort was appreciated, and not because the cards seemed useful.
People's lack of interest in the cards became more apparent after a few weeks. The cards were often lost, and were also easily damaged.



- ## User Feedback
- Everyone Liked the icons for resources
 - People were pleased at the genuine interest in helping the cards demonstrated.
 - People were willing to distribute them amongst their friends



- ## User Feedback
- Some found the map useful. Most people were able to operate the map with mild difficulty
 - Some folks found the illustrations intimidating. Others found it mildly helpful.
 - Some folks found the descriptions imprecise. Some thought removing them would cut down on the amount of text. Some found them friendly though.
 - Many people explained that there was too much text on the card. They described it as looking too complicated.



- ## User Feedback
- Virtually everyone found the lines to the nearby resources confusing.
 - People had difficulty relating the location title with its illustration, hours and description
 - In one case, a user explained that he didn't want to use the resource because the shelters had people more lost than him.

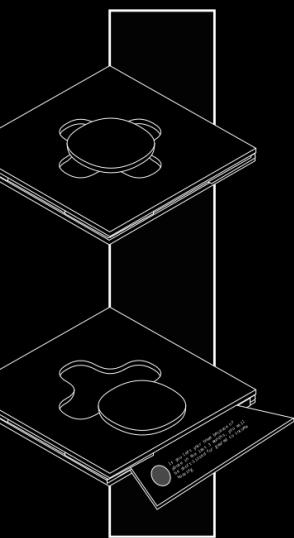
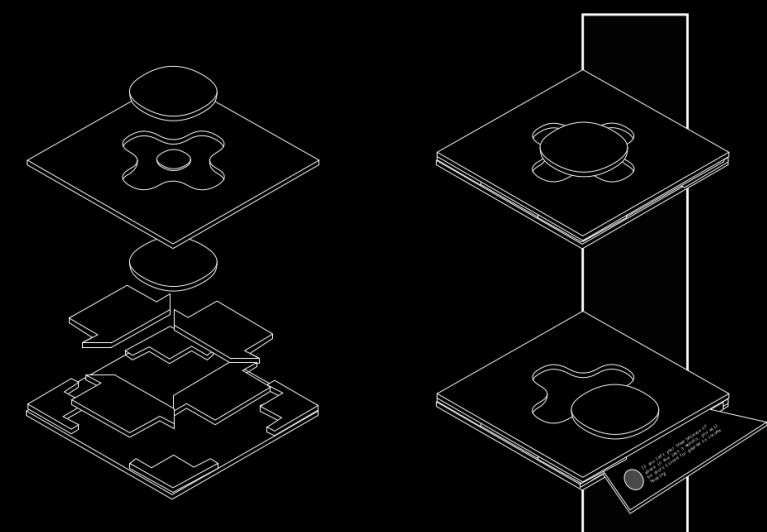
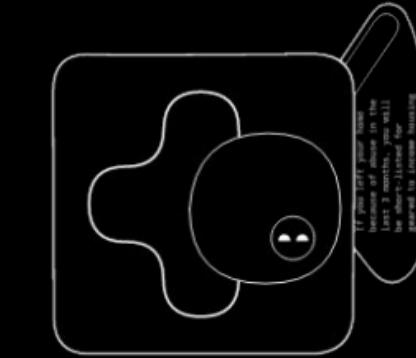
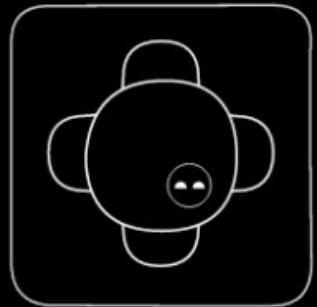
\\" I think what made the first card so unappealing was that it was flimsy and felt cheap. It was paper, and could be mistaken for a business card or flyer.

The insight the first card handout taught me was:



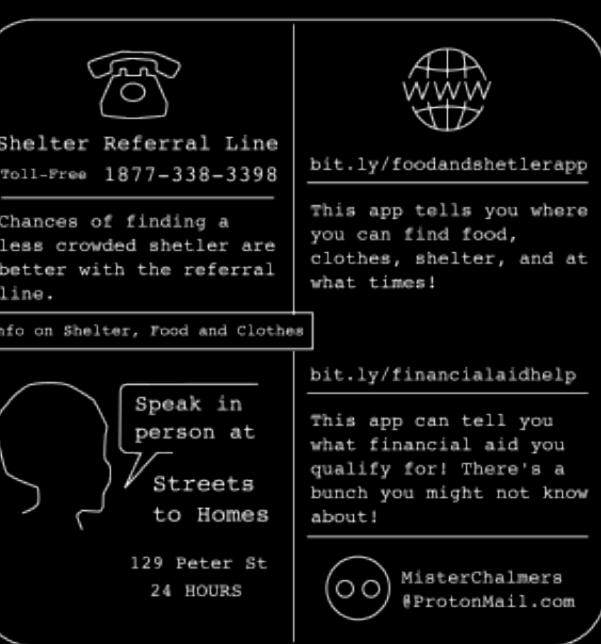
I resolved to prototype the next iteration of the card by laser cutting it out of plywood.

\\" This first laser cut design was never built. It felt a bit too playful, and was an inefficient use of the space for text on the plywood.



Simplifying the Handout

\\" I iterated on feedback of the last prototype being to dense and complicated. I removed the map and location based resources. Instead included resources that had toll free phone numbers and consistent hours. Many of the resources included were 24 hours. That way the resources could be accessed from anywhere in the city, even if the person had to use a payphone with no cash.



Adding Value

\\ The first card that I massed produced (about 140 cards) was a single 70mm by 70mm piece of laser cut birch plywood. They smelt really nice.

People thought they were really cool, like there was a bit of magic in them. It's like the first time you see something 3d printed, and then you get to keep it.

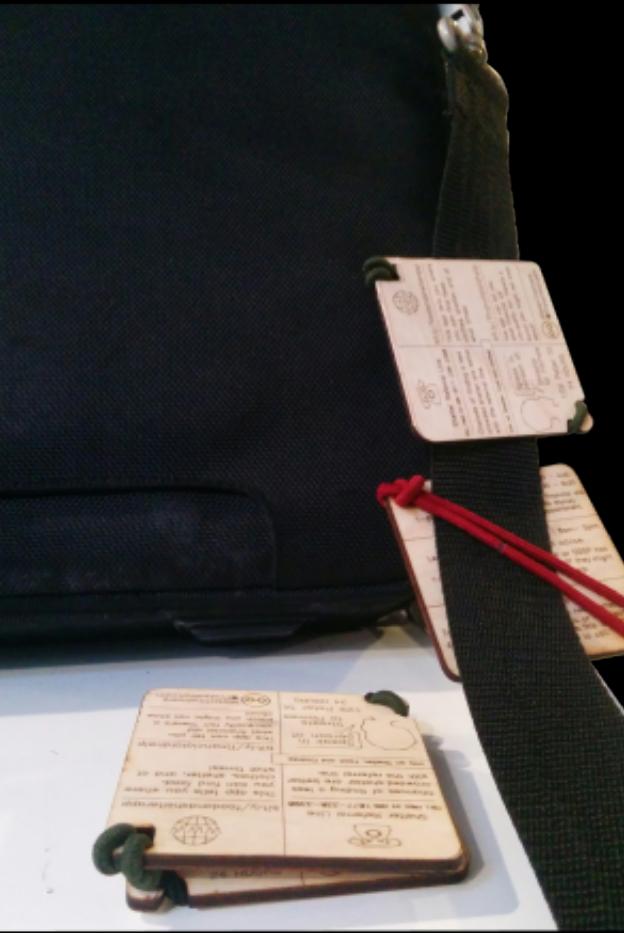
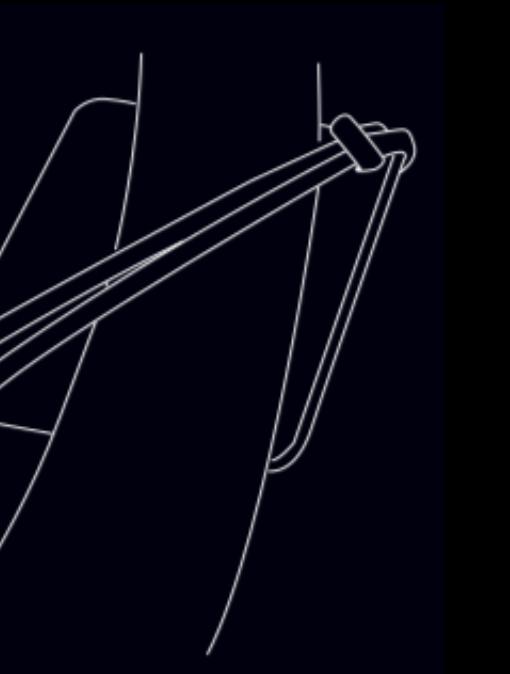
Giving out the paper card felt like giving out a flyer. But giving out the laser cut card felt like giving out a gift.



Adding Value

\\" The added value of laser-cutting the information onto wood motivated people to keep the cards! People kept the cards on their person, and people I talked to would tell me about times that they had used the numbers on the cards! People even asked for multiple cards so they could distribute them among their friends.

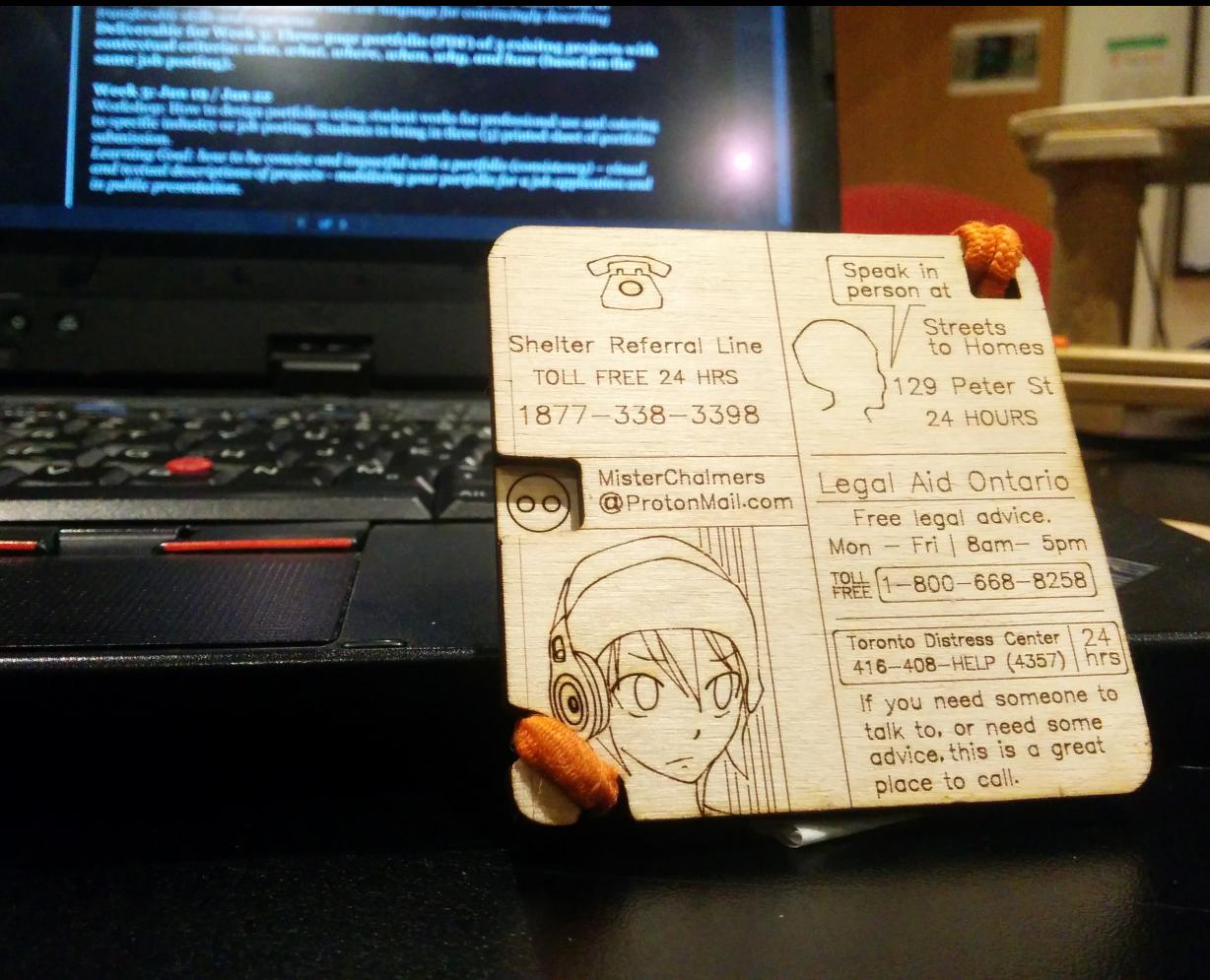
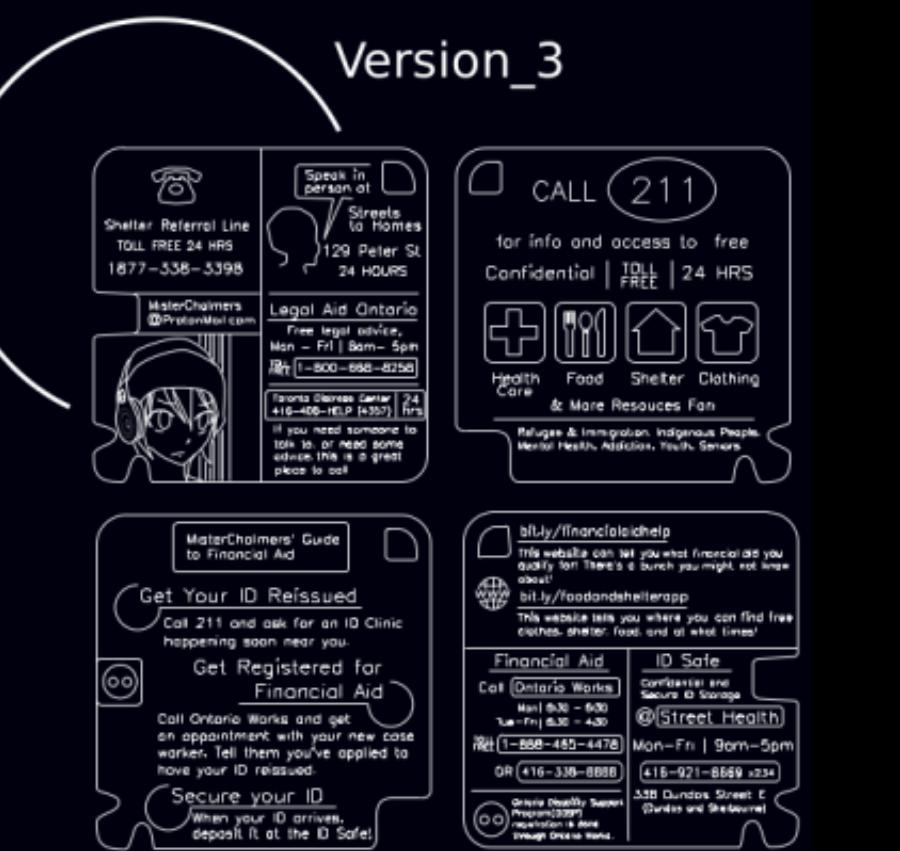
I soon added an elastic, so that the card could be snapped onto backpacks.



Adding Value

\ Adding a second card allowed the guide to become more comprehensive

One of the pain points identified in sleeping rough was a lack of understanding in how to apply for financial aid benefits. Belongings being stolen is a common occurrence for people sleeping rough, people rarely have their ID. ID is a requirement for receiving any type of financial aid. So I added a workflow for getting ID reissued and applying for financial aid to the card. I also included a not well known resource "ID Safe", so people could secure the ID against theft.



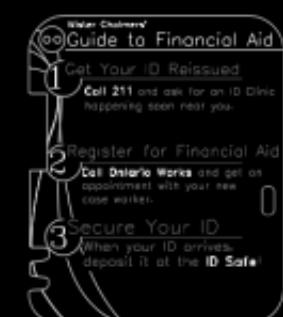
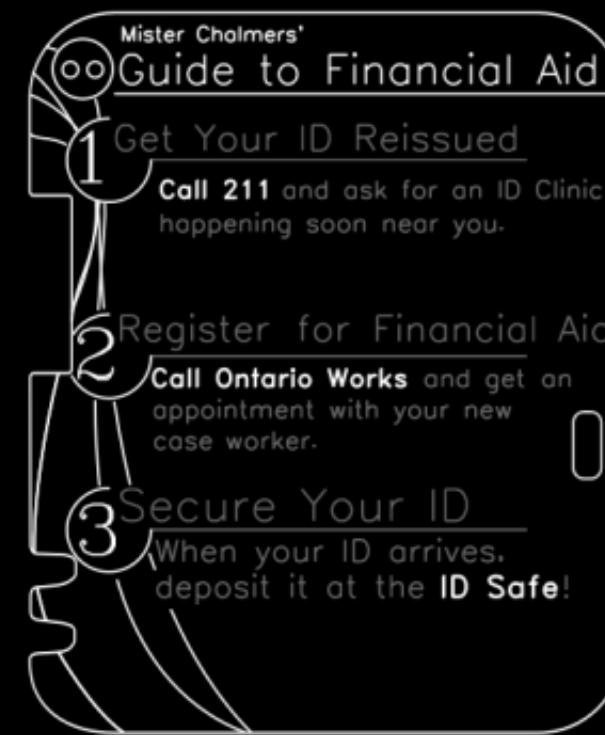
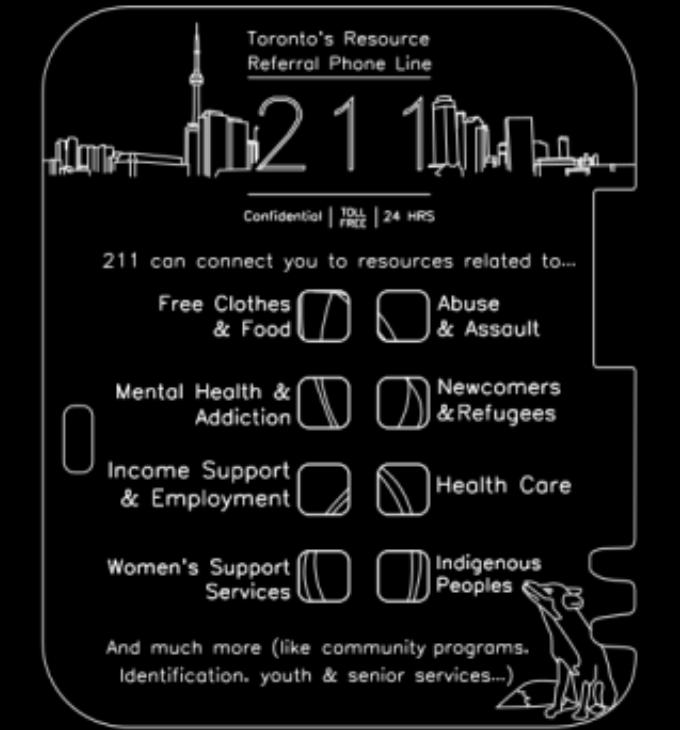
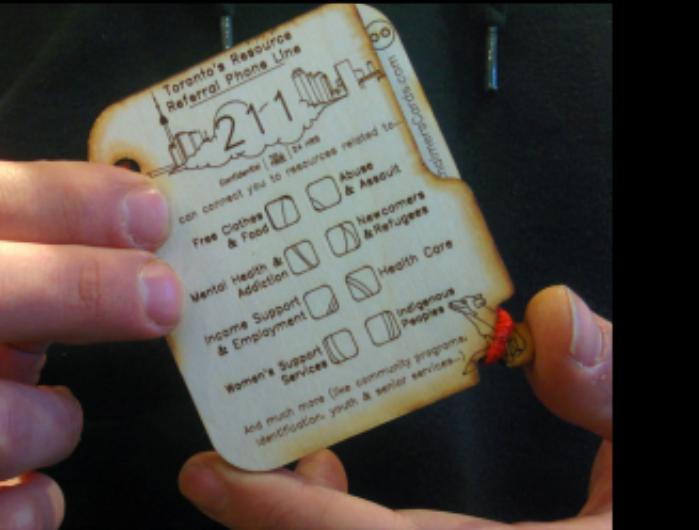
\\" This is the design I'm currently
distributing.



\ The form factor was increased to allow for a bigger font size. The graphic design was reworked.

I did my best to sort the information from front to back by its level of stigma. For example:

The Shelter Referral line has a poor reputation because of it's long wait times. It was also recently in the news for distributing incorrect information. But it is still an important service to include on the card. So it is on the very back of the card, in a more tightly packed area so as to not stand out.

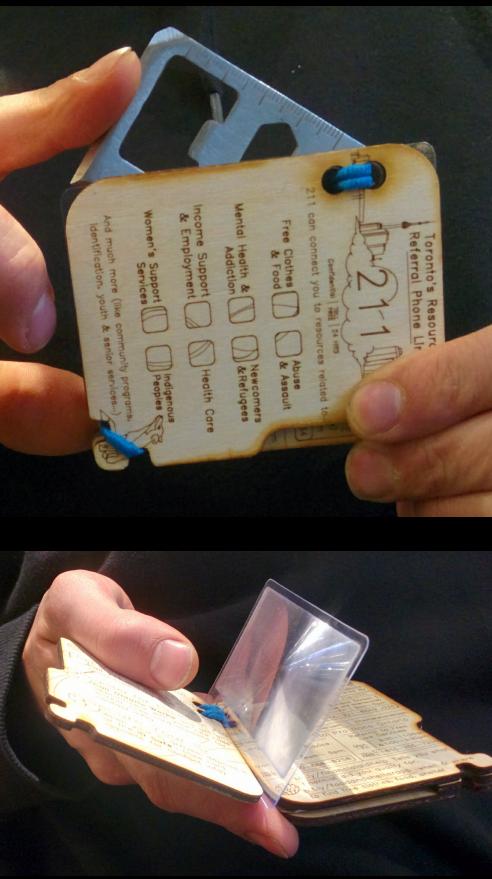


Least Specific
Least Stigmatizing

Most Specific
Most Stigmatizing

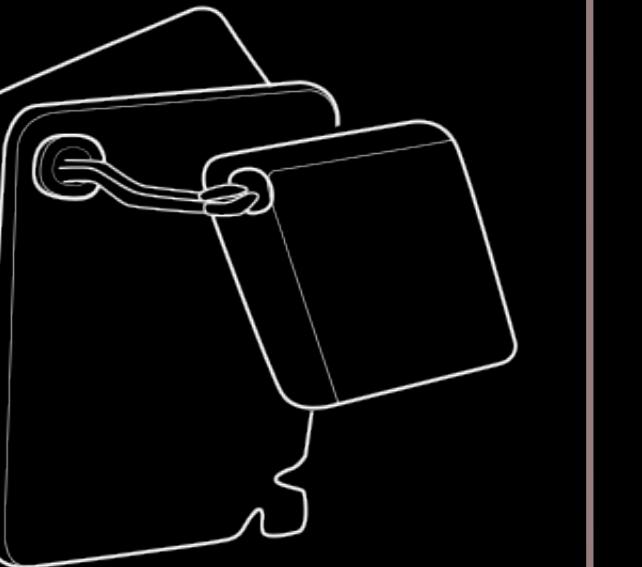
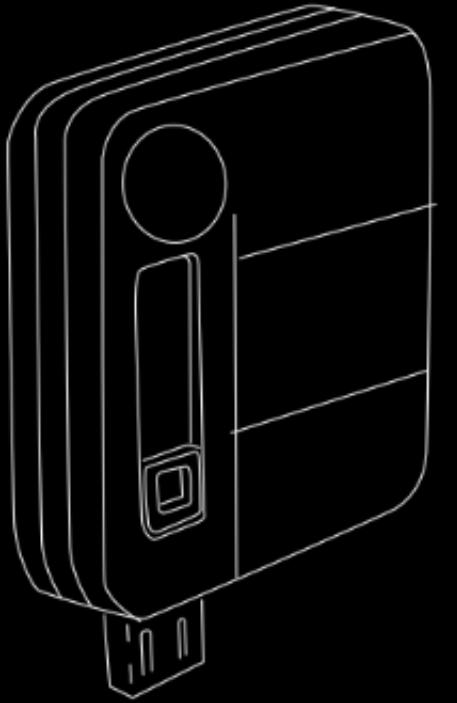
Experimentation

\\" I started experimenting with different ways of increasing the card's value. Concepts included tools, different form factors and font sizes, artwork.



Magnifying Glass
Multi-Tool

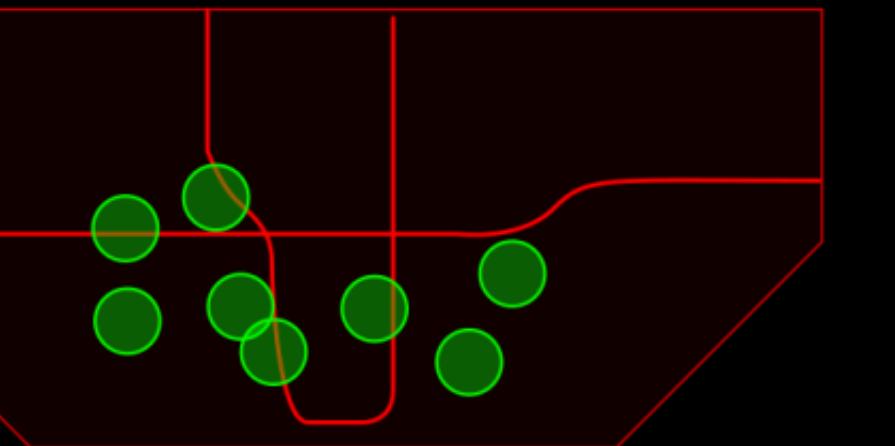
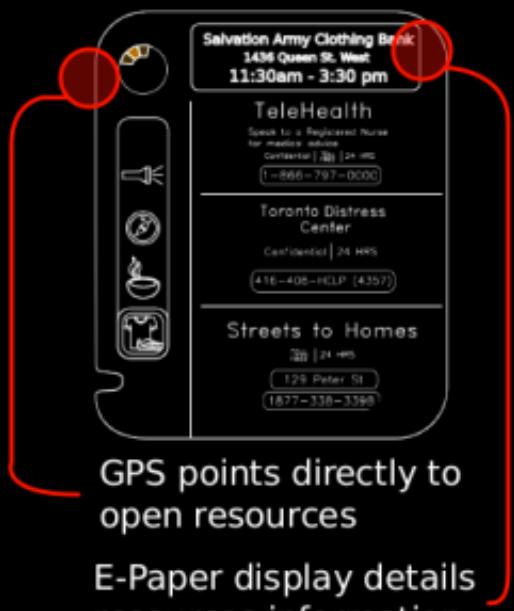
Expansion Concepts



VV The following are untested prototypes. Some of them are concepts I plan to explore over the summer.

Pointer to closest public resource

Free downtown wireless



- TO Mesh
- Toronto Free Wifi

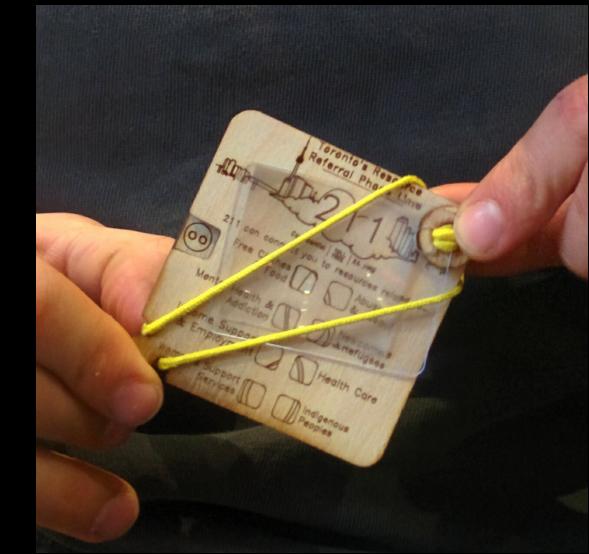
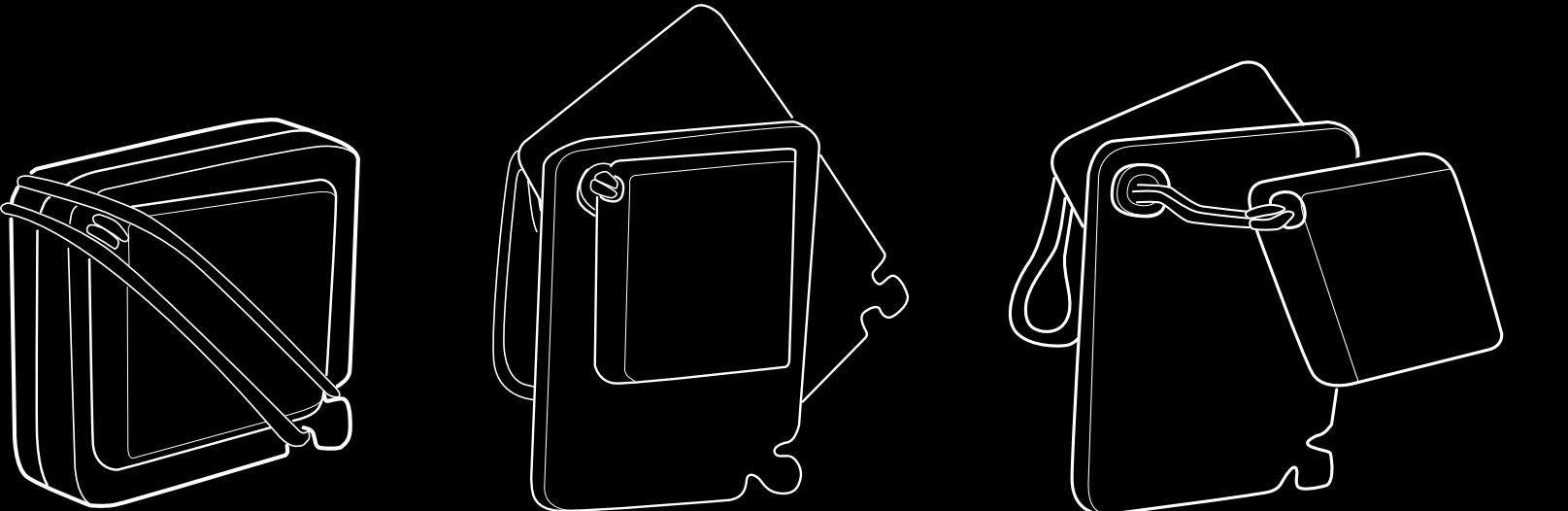
\\" It would be neat if the card had the ability to simply point the user towards the closest resource.

This card is difficult to prototype, and compared to the other cards would be very expensive. It would likely require an inexpensive single board computer (like a Pi Orange) and a GPS and 3-axis compass module.

Magnifying Glass

\\" Glasses are often lost, broken, or stolen among folks who are under-housed. Magnifying glasses are a cheap, temporary fix for someone who has lost their glasses.

In addition to wood and the elastic, this card requires a magnifying glass and a rubber grommet.

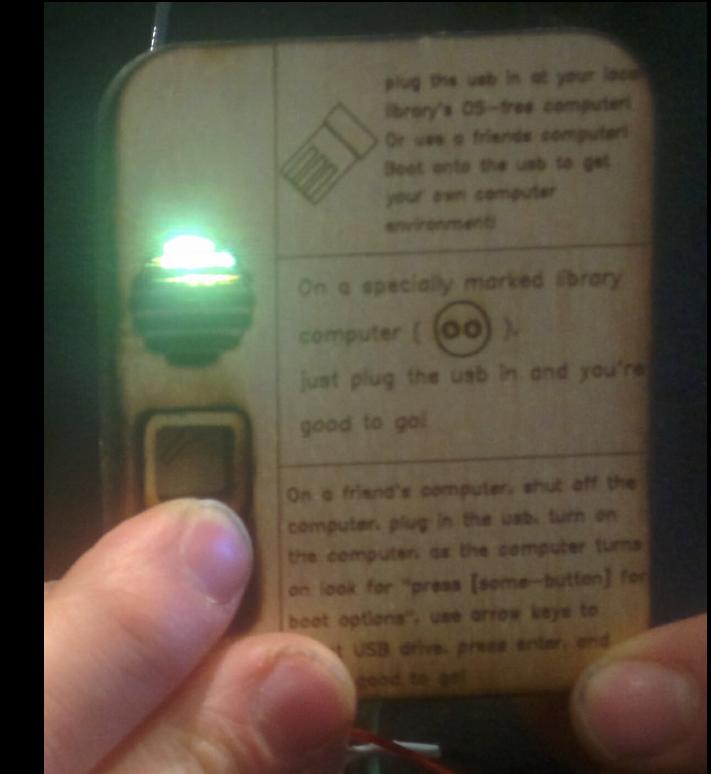
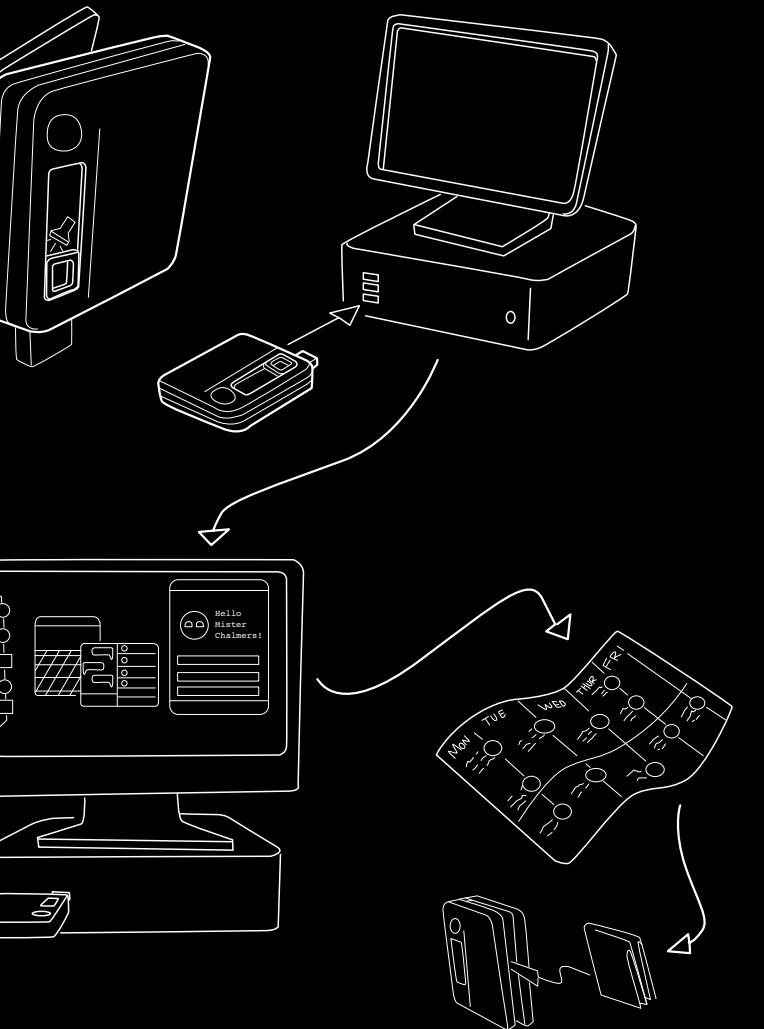


Library Card

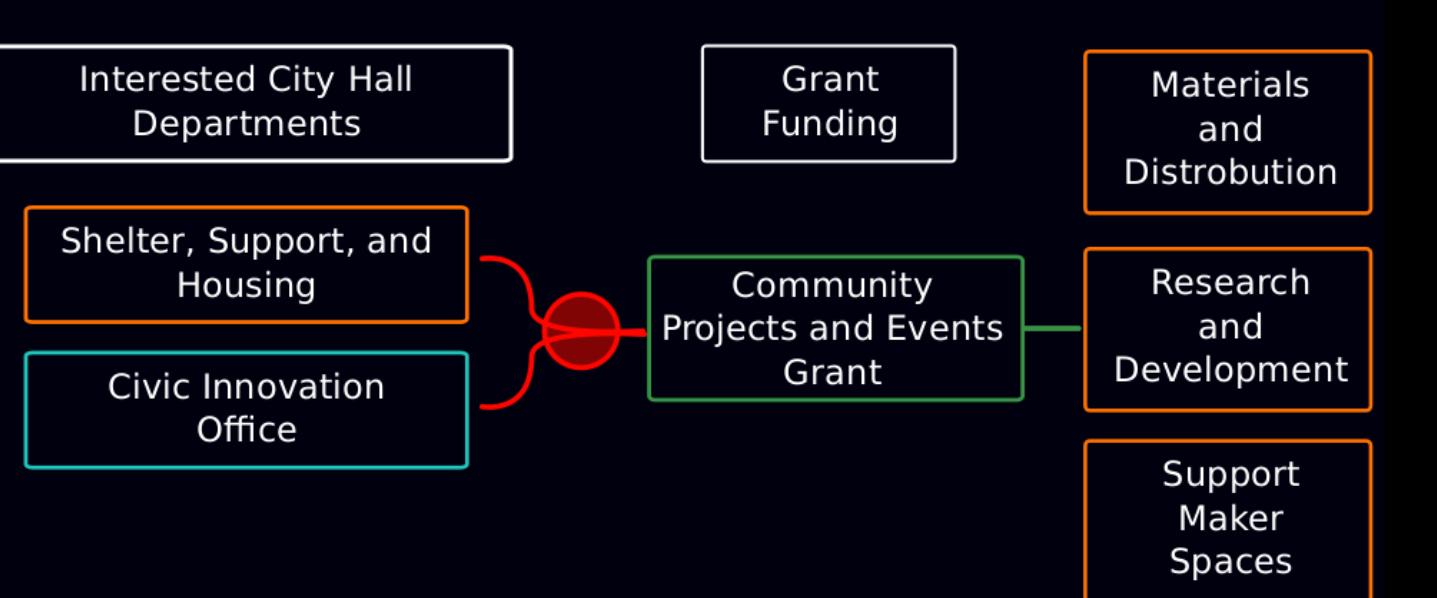
\\" My strongest electronics concept includes a flashlight and a USB storage drive.

The USB storage drive is useful for storing digital files, but it also contains a bootable Operating System. The user can use a public computer at a local library to boot onto their own operating system. The user has full authority over this operating system, and can customize it to their liking (unlike a traditional library computer).

The operating system is preloaded with a program that queries the user on their interest in public resources and free workshops. The program outputs a one week schedule of events that are happening at the library they are currently at, and at nearby locations.



Funding



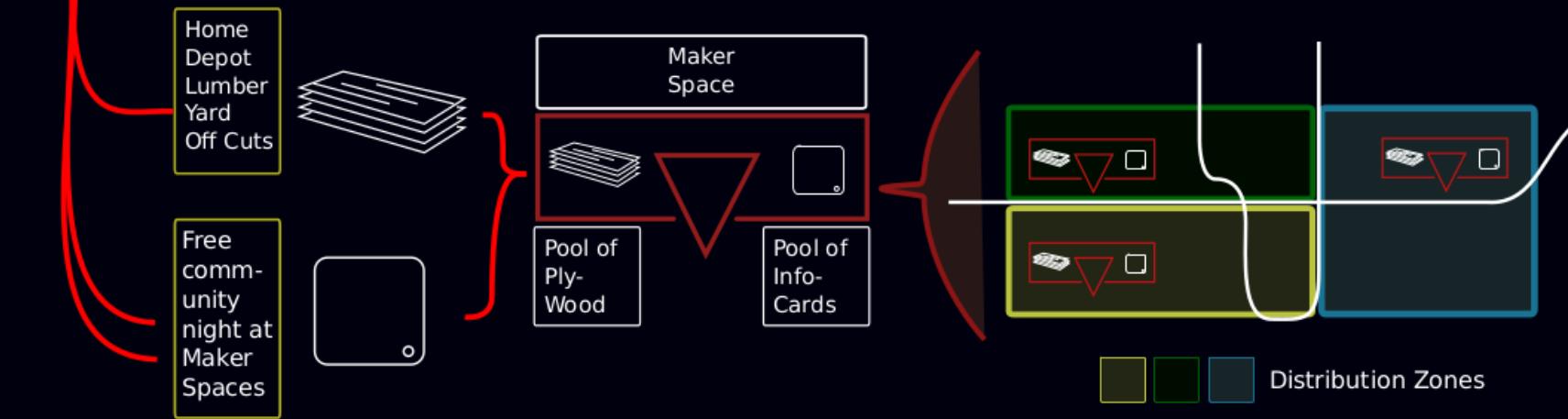
\\" I considered a couple of options for funding.

Some folks who work at the SSHA office (Shelter, Support, and Housing Administration) and the Innovation office in city hall had expressed an interest in helping attain a grant from City of Toronto to laser cut a bunch more cards.

Alternately, a handful of volunteers from The Center for Social Innovation expressed interest in helping with producing the card. It would be possible to mass produce the cards by using laser cutters at maker spaces



Volunteers



Zero Cost Manufacturing

Funding

