

PRESENTED BY TIMO, ALEKS, & LUKE

CAMPUS SECURITY

IMPROVING UBC SAFETY
SERVICES & RESOURCES



INTRODUCTION

UBC provides safety services and resources through disparate sources:

- Campus Security
- RCMP
- First Aid
- Incident Reporting
- Accident Reporting
- Safewalk
- Friend Walk
- Emergency Blue Phones
- UBC Safe App
- Sexual Violence Prevention



WHAT DOES SAFETY MEAN FOR STUDENTS?

- Safely navigating campus
 - Bike paths
 - Car accidents
 - Escorts
- Adequate lighting
 - At night
 - Parking garages
 - Walking paths
- Surveillance
 - Patrols
 - CCTV
 - Presence of others
- Restricted access to buildings & housing
- Theft reduction (Bikes, Laptops, etc.)



EMERGING THEMES FROM SURVEYS

HOW SAFE DO YOU FEEL...

Q	How safe do you feel...	Min	Max	Mean	Std Dev	Count	Mode
Q11	On campus in general?	2	5	4.52	0.74	48	Extremely safe
Q12	On campus at night?	2	5	4.02	1.10	47	Extremely safe
Q13	In buildings and facilities?	2	5	4.66	0.69	47	Extremely safe
Q14	In student housing?	2	5	4.48	0.74	33	Extremely safe
Q15	Using parking garages and lots?	2	5	3.89	0.94	38	Moderately safe
Q16	Using UBC services like Safewalk?	2	5	4.04	0.94	26	N/A
Q17	Attending UBC or AMS events?	2	5	4.30	0.81	44	Extremely safe
Q18	Locking and leaving your bike?	1	5	2.8	1.30	30	N/A

HOW IMPORTANT DO YOU FEEL...

Q	How important do you feel...is to campus safety?	Min	Max	Mean	Std Dev	Mode
Q26	Lighting inside buildings	1	5	3.79	1.04	Very important
Q27	Outdoor and walkway lighting	2	5	4.25	0.99	Extremely important
Q28	Restricting access to buildings and facilities	1	5	3.52	1.15	Very important
Q29	Restricting access to student housing	1	5	3.88	1.24	Extremely important
Q30	Emergency Blue Phones	1	5	3.38	1.20	Very important
Q31	Campus Security patrols	1	5	3.81	1.15	Extremely important
Q32	UBC services like Safewalk	1	5	3.58	1.09	Very important
Q33	The UBC Safe App	1	5	2.94	1.20	Mildly important

UNDERUTILIZATION OR AWARENESS?

14%

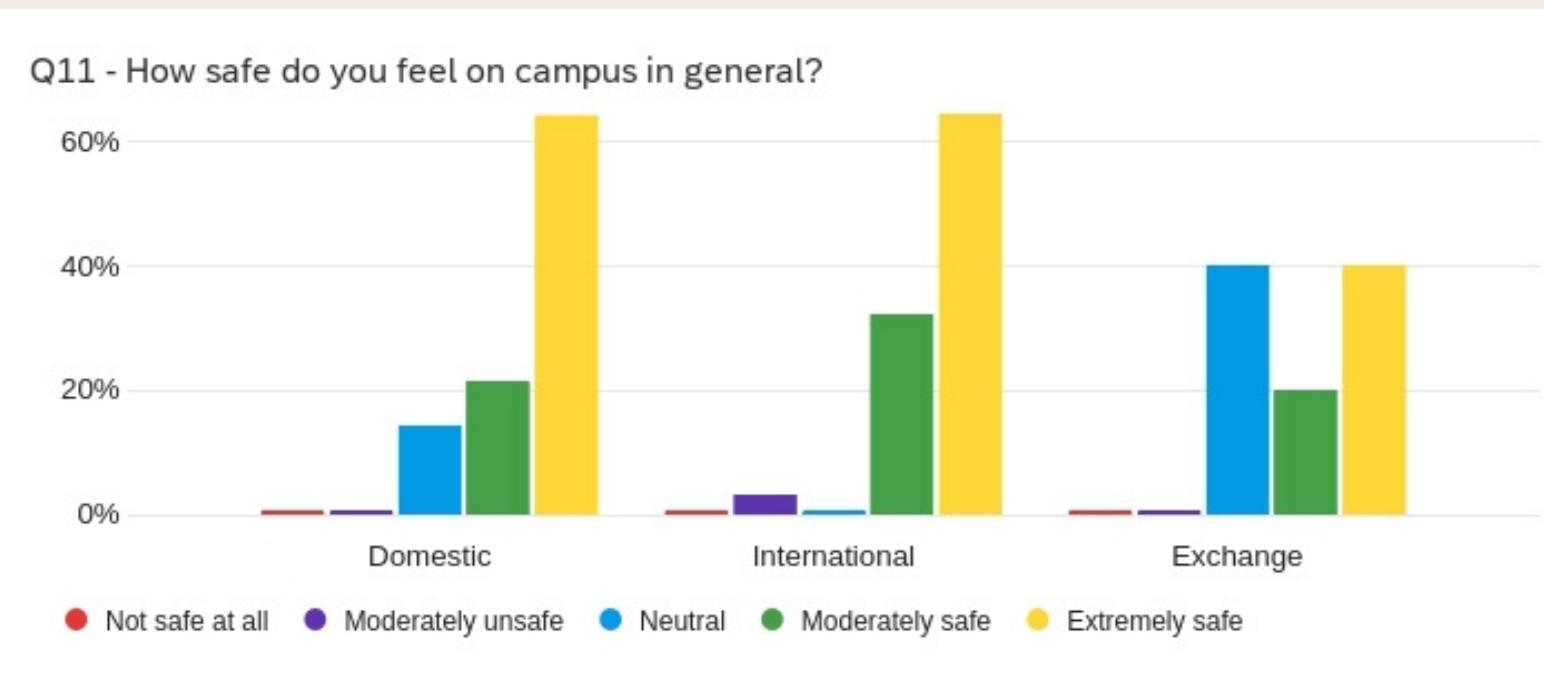
CONTACTED CAMPUS
SECURITY

18%

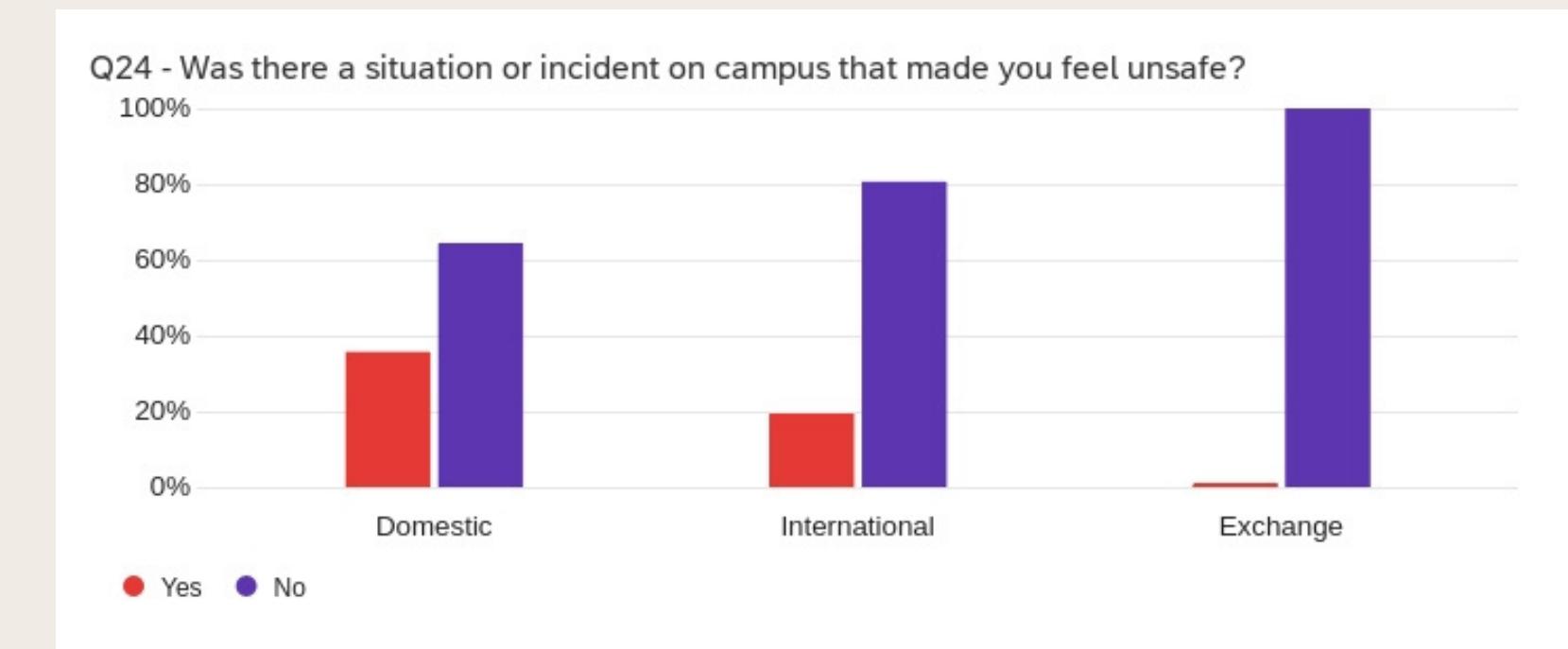
USED UBC VANCOUVER
SAFE APP

PERCEPTIONS OF SAFETY

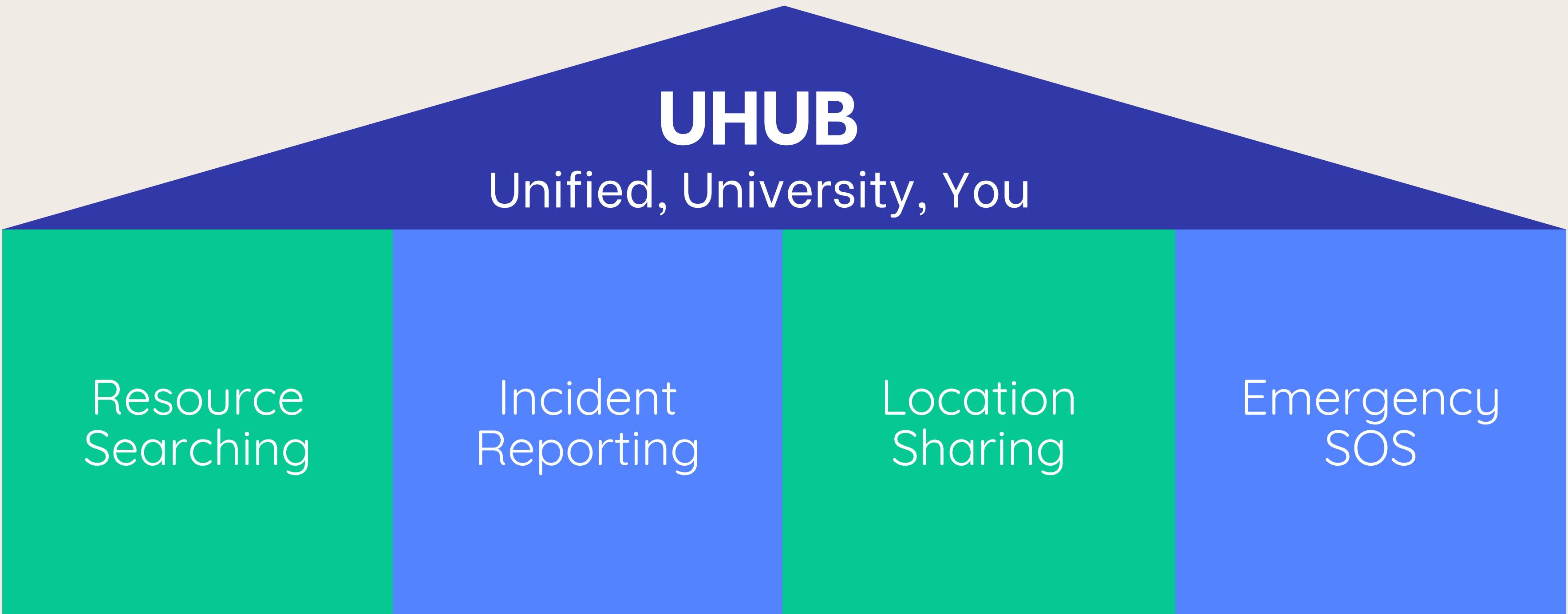
SAFETY BY STUDENT TYPE



INCIDENT BY STUDENT TYPE



A UNIFIED APPROACH



UHUB

Unified, University, You

Resource
Searching

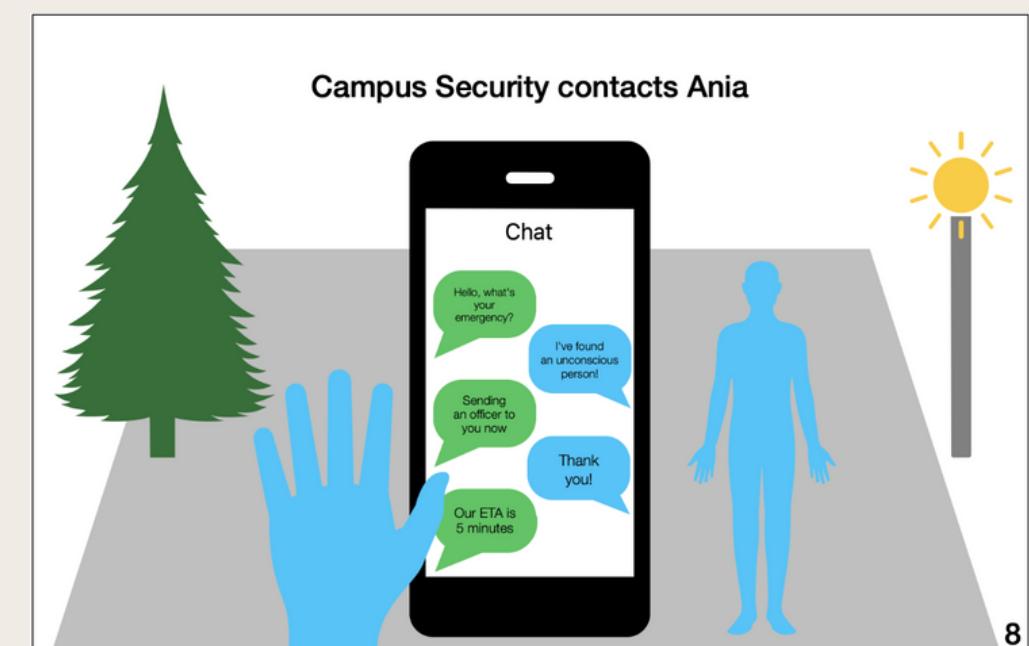
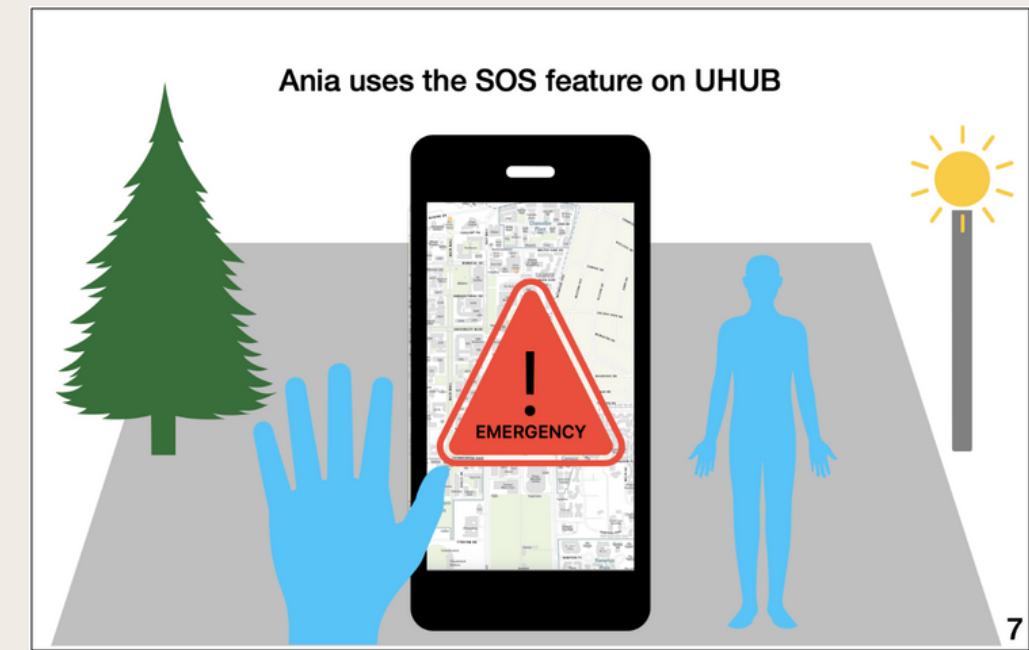
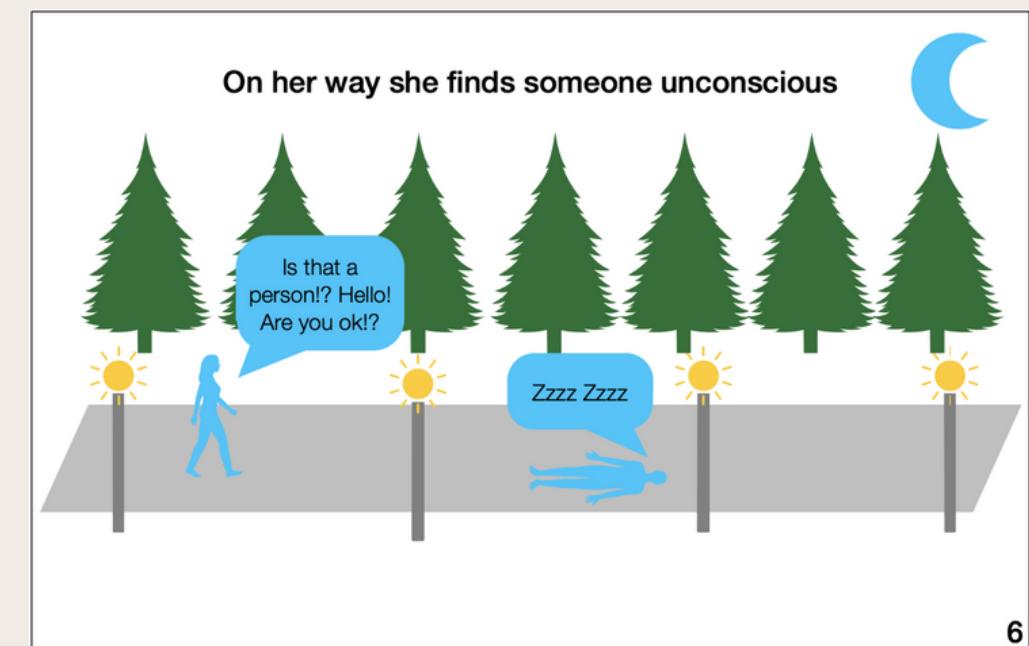
Incident
Reporting

Location
Sharing

Emergency
SOS

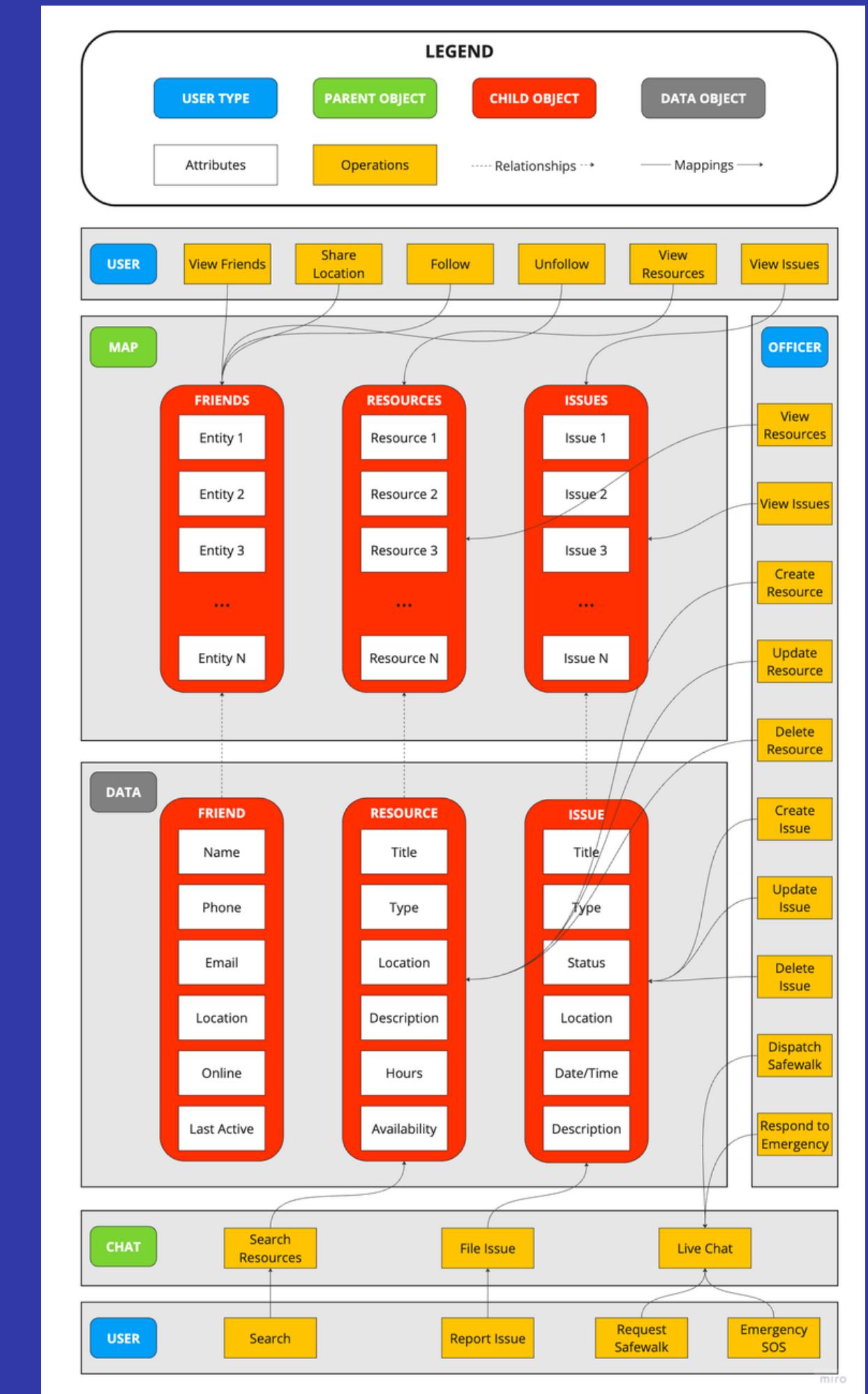
GOALS & REQUIREMENTS

- Unification of Services
- Raising Awareness
- Crowdsourced Safety
- Real-Time Resource Accessibility
- “Areas of Concern” Mapping
- P2P Live Location Sharing



DESIGN DECISIONS

- Map Interface (Exploratory)
- Chat Interface (Conversing)
- User-Focused Lo-Fi Prototype
- Vertical Components:
 - Resources
 - Incidents
 - Friends
- Horizontal Components:
 - Chatbot
 - Emergency SOS



TRADE-OFFS OF UHUB MODEL

POTENTIAL STRENGTHS

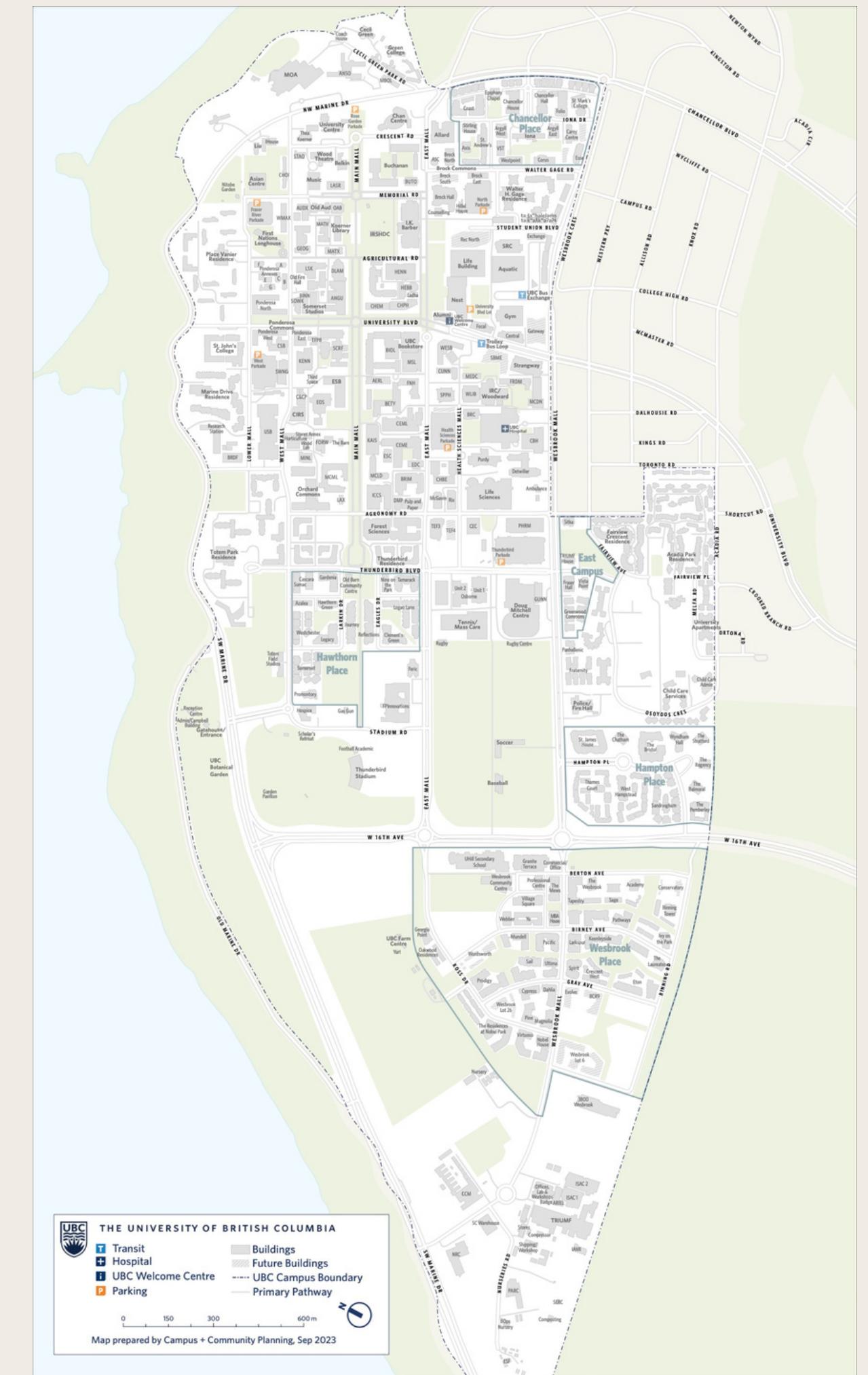
- Unification of Services
- Two Searching Modalities
- Scales via Crowdsourcing
- Familiarity with Maps

POTENTIAL WEAKNESSES

- Information Overload
- Up-to-Date Information
- Visually Inaccessible
- Requires Tech Savvy

TASK EXAMPLES

1. Searching for Bike Storage
2. Viewing Incidents in Area
3. Sharing Location with Friends
4. Reporting an Incident
 - a. Map
 - b. Chat
5. Emergency SOS Assistance

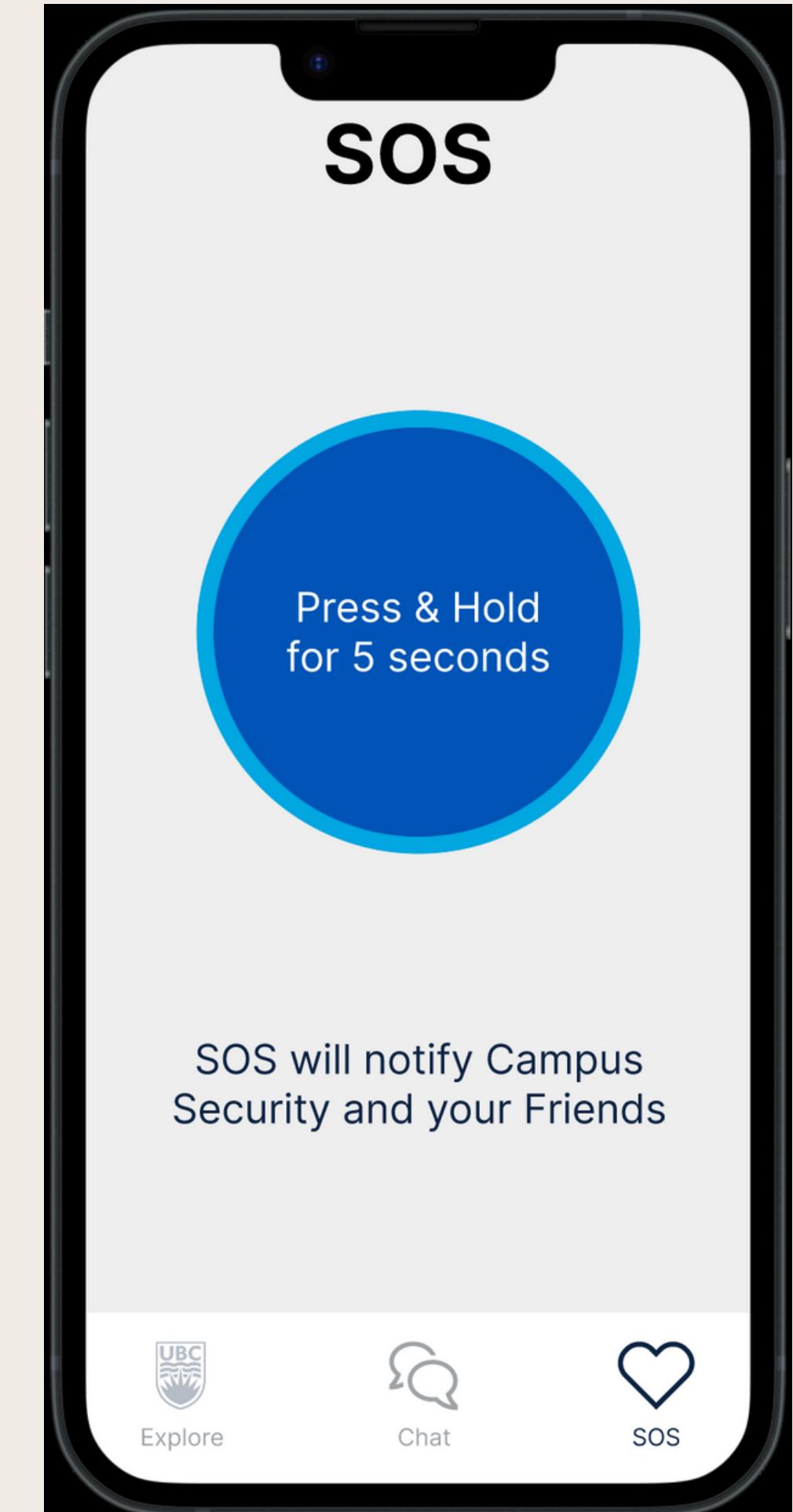


LOW FIDELITY PROTOTYPE DEMO



LOOKING AHEAD

- Map Interface (Med-Fi)
 - OpenStreetMap & Google Maps
 - User-Generated Content
- Chat Interface (Low to Med-Fi)
 - LLM API (Llama-2)
 - Self Fine-Tuning
- Campus Security Integration (Low-Fi)
 - Resources and Data Integration
 - Security Officer Interface



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**THANKS!
QUESTIONS?**

