## **INCREASE**



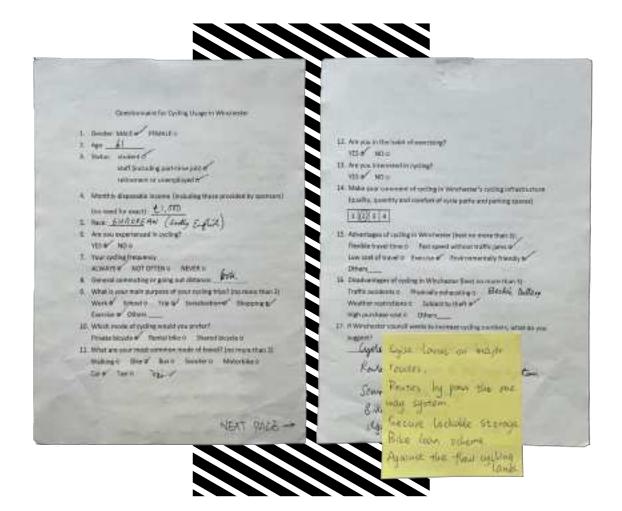
CINDY MIA HAOYU
NEMO MENG KATHY

#### **BRIEF**

This project is aiming at the promotion of cycling in Winchester. It includes interview with citizens, and researches on facilities and roads. The team displays the results in charts, map and pictures. Three user modelling techniques are used to clarify and organise our research. Some ideas of solutions are provided after the research and discussion.



## Questionnaires & Interviewee

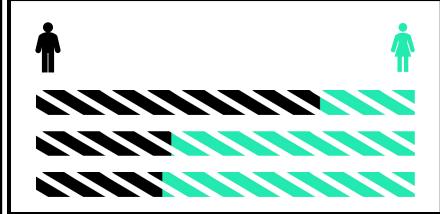


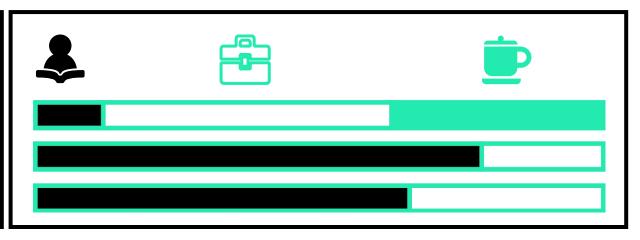




## **QUESTIONNAIRE RESULTS**







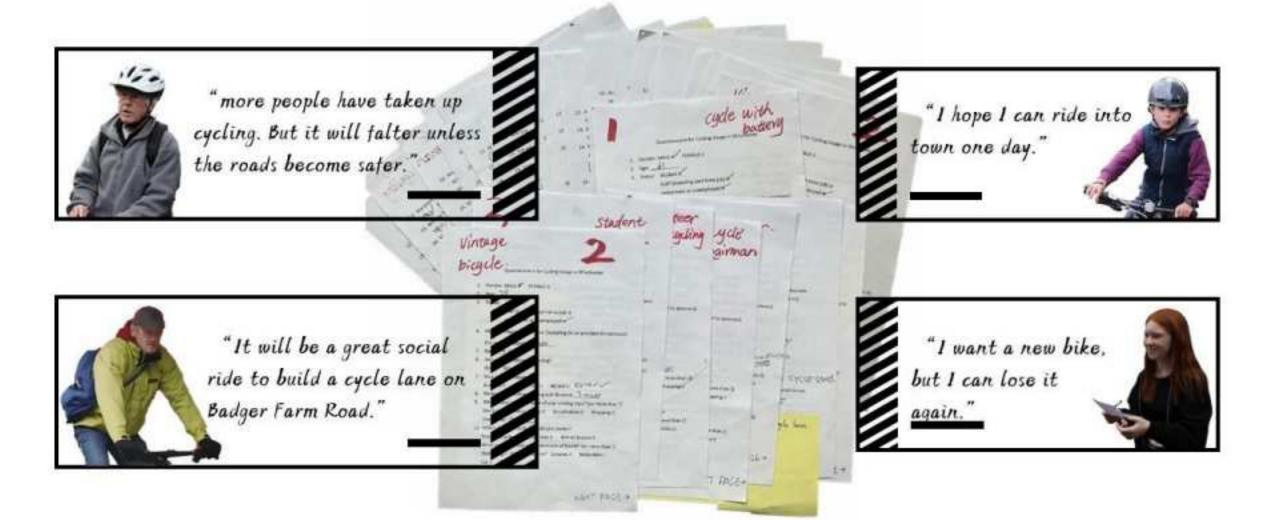






#### COLLECT

# QUOTE





#### Steve

AGE GENDER Male

Retired

#### Motivations

Price Interest.

Convenience

Speed.

Eco-friendly

"More people have. taken up cycling. But it will fafter unless the roads become safer,"

#### Pain points

- · I've owned three great bikes, all of which ended up being stolen.
- North Walls is a nightmare for people on bikes, especially whe cars pull out of the side streets straight in front of you. I've had plenty of close shaves on my bike.

#### Goals

- Cycling should be part of the driving test. It gives people insight into how vulnerable cyclists are and encourage them to be safer and more considerate drivers.
- Routes that are more logical for cyclists should be ctreated.
- -Traffic-lights at large junctions allow cyclists to move first then cars.
- The security for bike parking should be improved.

#### Scenario

These days Steve is retired. He uses his bike for shopping and visiting friends almost everyday, it's flexible for Steve to ride as he doesn't need to wait for a bus. But some journeys are difficult because of those steep hills and road layouts. And he doesn't cycle on main roads as he feels unsafe.













## **OBSERVATION**



**CCTV** 

**SHED** 

**TOOLS** 

**CAPACITY** 

QUANTITY

Cycle Hub







High

20%

Only 1



Bike Stand





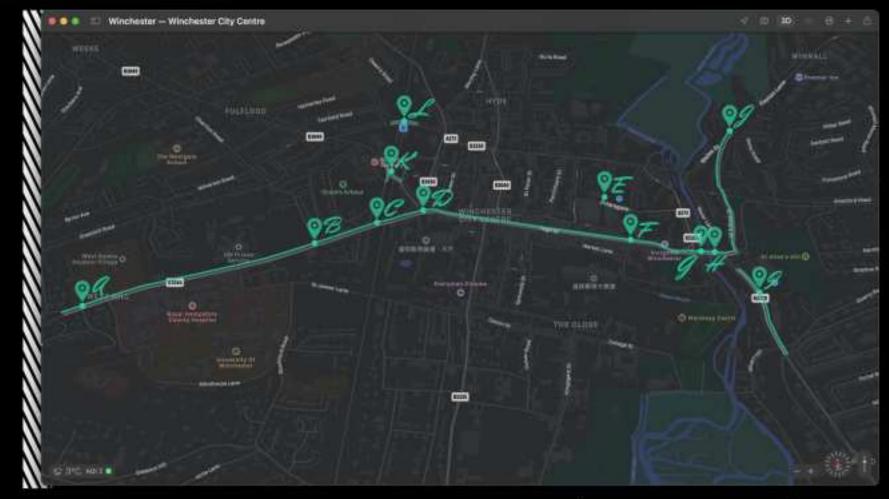




80%

A lot

## Collect

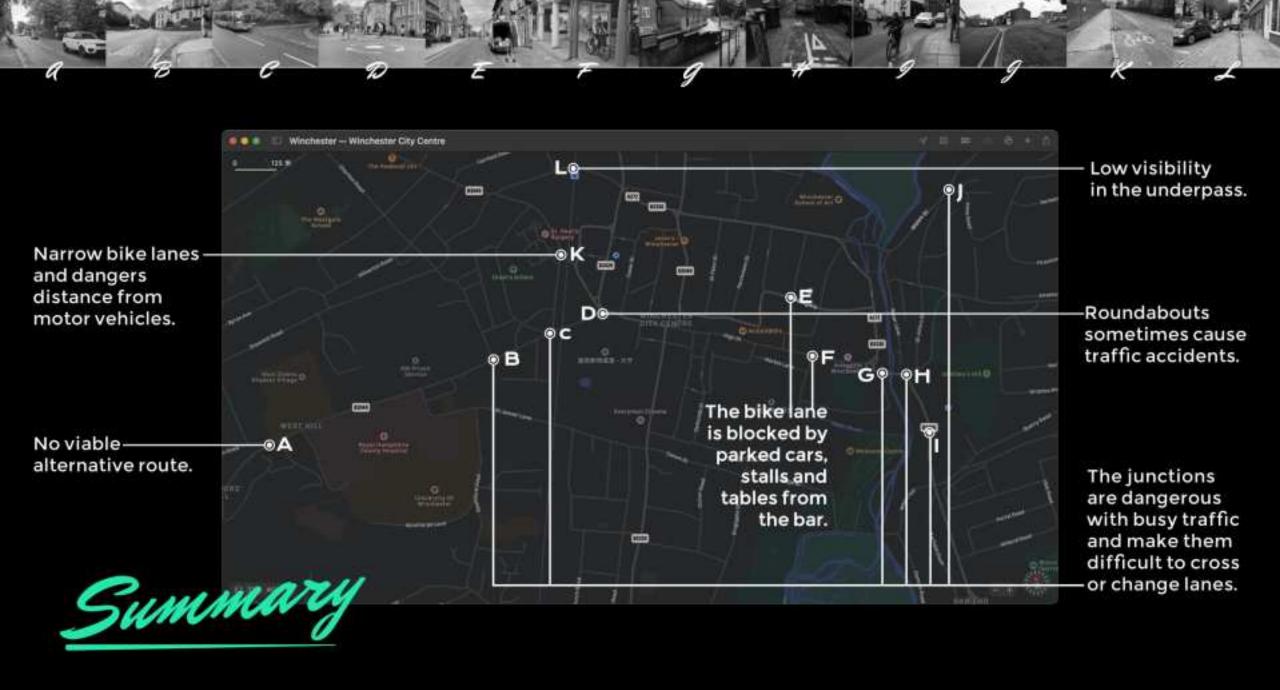


observation: cycle routes

- No viable alternative route for travel between west and city centre.
- B. Hazardous junction West End/ Romsey Rd.
- C. Difficult crossing Romsey Rd/St James Terrace/ Clifton Terrace.
- D. Occasional accidents here due to camber and road surface. Motorists often ignore priority at roundabout.
- E. The short segregated cycle lane on Middle Brook St is often blocked by parked vehicles at its northern end.
- G. difficult turn from Bridge St onto cycle path.
- H. Cycle path often blocked by lorries unloading and part-blocked by tables from bar.
- I. Chesil St busy, narrow.
- NCN23 takes cyclists out of town on Wales St then turns right across heavy traffic into Eden Rd. Needs a safer way os doing this.
- K. difficult crossing Romsey Rd/ St James Terrace/ Clifton Terrace.
- L. low visibility in the underpass.

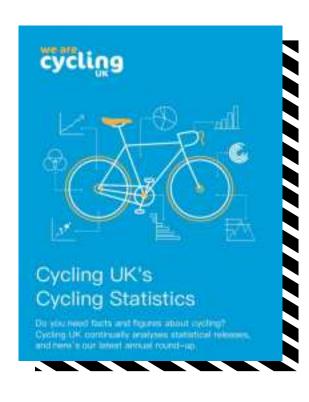






#### COLLECT

## SECONDARY RESEARCH



1. How many people own or have access to a bicyle?

22,000,000

2. Who cycle most—woman or man?

Average number of cycle trips

**3:1** (male: female)

3. Which age group cycles most?

**16-24** For travel

45-54 For leisure

4. How safe is cycling?

Reported casualties in 2019

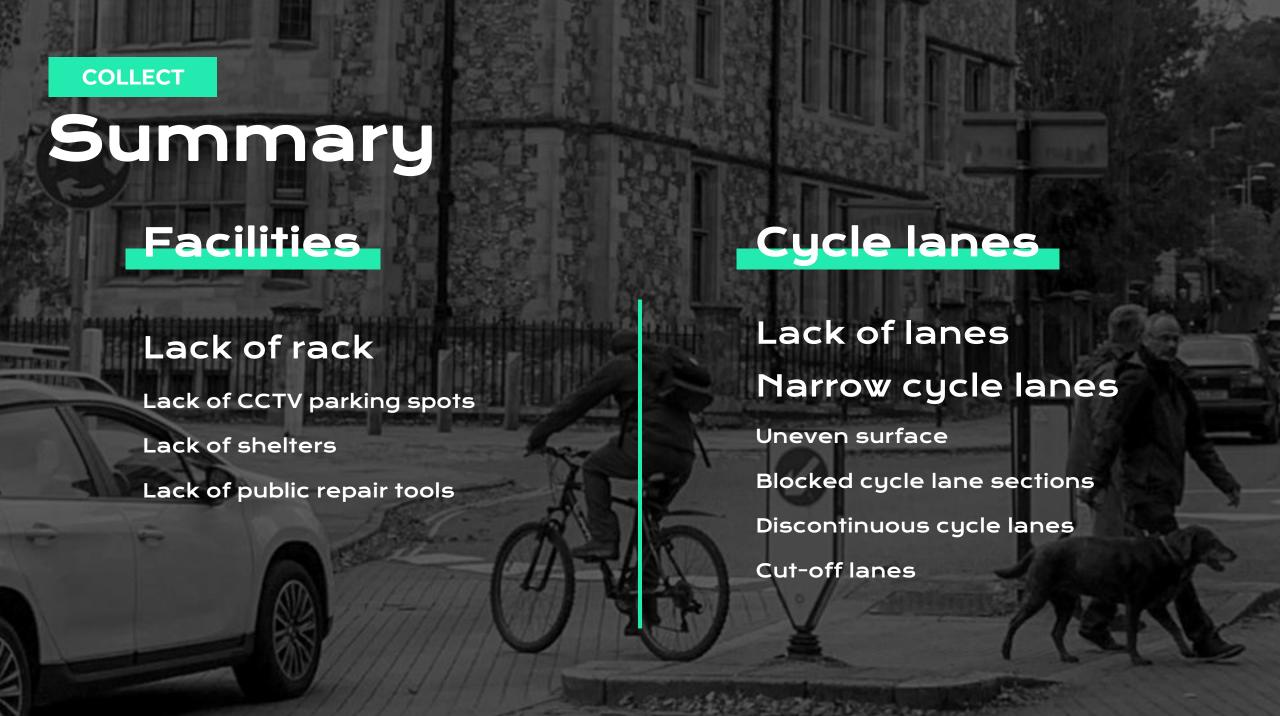
100 killed

4333 Seriously injured

12451 Slightly injured

5. How many cycles are stolen in the UK?
Incidents of bicycle theft from 2019 to 2021

271,000



#### COLLECT

## **OBSERVATION**

Bike Hub



**EXPENSIVE** 

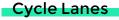
Good bicycles are expensive.



\_

**EQUIPMENT**Many other

equipment to purchase.





**BLOCKED** 

Occupied cycle lanes are inconvenient.



**DISCONTINUOUS** 

The lack of cycle lanes is confusing.



**NARROW** 

The road is too narrow and easy to scratch.



#### **COMPREHEN**

## **EMPATHY MAP**

- I am disappointed that my tike is always stalen and hopes to take more measures to prevent my tike from being stalen opsin.
- I think that cycling near the north wall is very unsafe. Bicycles are easy to callide with cars and cause scraftles.
- I thinks that some drivers did not abide by the tripffic rules, reputting in coofusion in road cycling and bicycle traffic.

THINK&FEEL



- I sew the cyclist give way to the rider at the traffic lights at the intersection, leaving the cyclist in an ursafe position.
- I saw that some roads were not suitable for cyclists.
- I sew that my friends usually reduce their speed to ensure a safe cycling environment.

- My wife dissuades me from cycling less, and the traffic is complicated.
- . My friends and me enjoy the flexibility of cycling.
- My children sey it can exercise, but 1 should pay attention to road safety.

#### HEAR

#### SAY&DO

- I fried to ride another route, which was relatively safe.
- I fried to ride of a sofe speed.
- I fried to strengthen the accurity of my bike.
- I go shopping by bike and waits my friends' homes.

#### PAIN POINT

- The problem obout the bicycle parking security, it is easy to be stolen.
- Cors and bricycles are easy to collide on the main road, which is very dangerous.
- There are not enough and suitable routes for riders to ride safety.

 At the intersection of traffic lights, bicycles are always in a dangerous position.

#### GAIN POINT

- There are more bucycle lones for cycling to increase safety.
- Mane and more people know that cyclists are valverable and core more about their safety.
- The traffic order is getting better and better, and the route planning is more reasonable.
- Bicycle parking is safer.













# Steve's Journey Map

#Male #Retired #64-year-old #Always ride

"More people have taken up cycling. However, this trend will falter if there is nothing done to make the roads safer."

brands, price, features etc.

- Purchase bicycle and other related equipments

Research on

- Wait for delivery or pick up in stores.

- Wear the equipments on.
- Learn and practice cycling.
- Choose a destination and route, get ready to go riding.

- Ride on cycle lanes.
- Observe traffic signs.
- Ride across intersections.
- Avoid pedestrians and motor vehicles.

- Find a bicycle rack to park.

- Maintain and repair.





TOWER.

**PURCHASE** 

PREFEVOLE

CYCLING

POST-CYCLE

#### CONCEPTUALIZE

## **IDEA**

# **IDEA - 01**



### **BETTER CYCLE LANES**

Add more cycle lanes and traffic signals.

Add foot board to rest cyclists' feet.

Add rain probes to double the green light lasting time for cyclists when it is rainy.

Let's go cycling

MAKE RIDING SAFE AND COMFORTABLE

#### CONCEPTUALIZE

## **IDEA**

## **BETTER PARKING**

Add CCTVs for safety.

Add shelters to prevent from getting wet when it is raining.

Let's go cycling

MAKE PARKING SAFE AND COMFORTABLE

