

Design Report

Enhancing pedestrian
experience in cities

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Problem Statement

Issue: The experience of the pedestrian traffic light is frustrating.

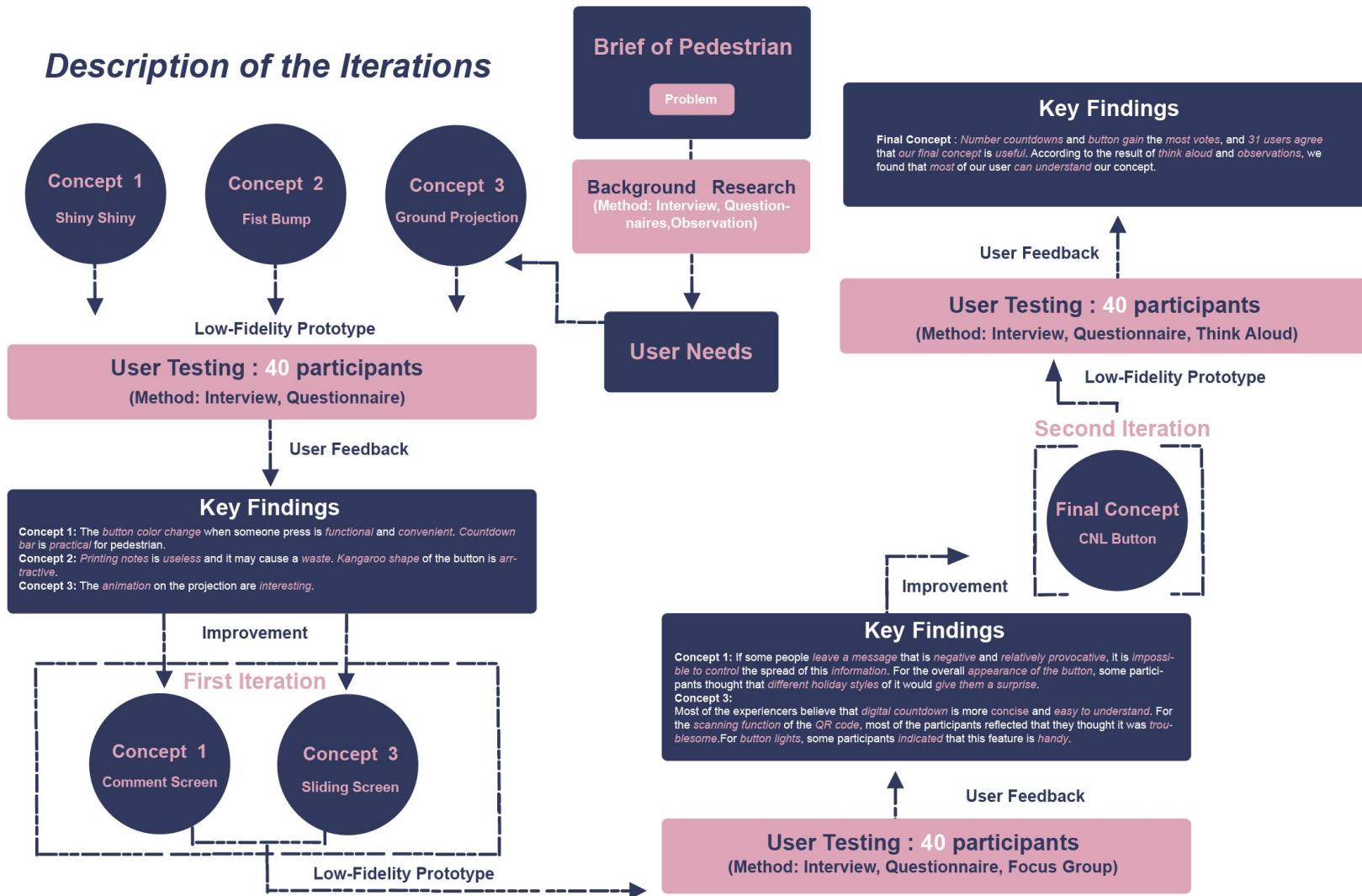
To improve pedestrian traffic light, we did some research. We found some problems that pedestrian encounter in the current pedestrian traffic light. For example, there is no feedback when the button is pressed. People don't know how many times they need to wait for the traffic light and how many time they have to cross the street as well. Hence, we came out with three concepts. They are Shiny-Shiny, Fist Bump, and Ground Projection.

In this assessment, we are going to test three of our concepts and find out the user needs and make some improvements based on user's feedback. After that, we can come out with our final idea to improve the experience of the pedestrian in the traffic light.



Final Mock-up

Description of the Iterations



Data Collection - Approaches

Interview is the most commonly used method for collecting data in qualitative research. We are able to collect data by a relaxing and informal conversing to our users one-to-one. Most of the questions are based on our users' answers, (Surendran, A) in this way, we are able to obtain more detailed and specific data we want.

Questionnaire is used to collect data from wide and variety of people. The way of this method collecting data is by asking our users to answer questions in the form. (Gangrade, K. D. ,1982) It allows us to collect the most complete and precise data in a logical flow. (Abawi, K. ,2017) We intend to ask our users to fill out the questionnaire after we explained our concepts to them. Sending questionnaire after explanation helps us to get accurate answers from users on our concepts.

Observation is a qualitative method of data collection. We immerse ourselves in the environment of the respondent,(Surendran, n.d.), and carefully observe the participants' actions, physical posture, changing in facial expressions, gaze and gesture in relation to our concepts. In addition to taking notes, we can also use audio recording, video, and other similar methods.

Focus group like a group discussion, basically 6 to 10 people and the host to host the ongoing discussion. It is a way to listen to people and learn from them. Focus groups build the line of communication. Besides, it is the greater communication process that connects us to the participants (Morgan, 1998). This is a method of collecting directional data. It helps us understand the customer's ideas and their opinions on the product.

Think aloud means that subjects are asked to perform a task and to verbalize whatever crosses their mind during the task performance(Gambier & Doorslaer, 2010). It is an effective method of quantitative data collection. It provides a wealth of verbal data about reasoning during problem solving tasks. Participants are free to say their idea, and it can help us gather more information.

Data Analysis



We are going to use the following steps to analyze our qualitative data.

Step1: Transform and arrange our data

First of all, our data is basically disorganized and some may look useless. Therefore, the most important thing we need to do is to organize our data. Firstly, we need to convert our data into text format by using docs or tables to help us input/enter our data.



Step2: Classify our data

After arranging our data, we have to classify and organize them. The best way for us to organize and classify our data is based on the questions we asked and our initial objectives. In this step, we have to organize our data orderly rather than in a mass.



Step3: Number or code our data

This step helps us to narrow down and assign our data quickly. It is an important step in qualitative data analysis as we are able to obtain thesis from relevant discoveries. After we organize our data by using code, we can acquire in-depth perception and make sensible decision.



Step4: Verify our data

This is one of the important steps of our data analysis, in this way, ensuring that data is not flawed is critical. While we have to verify our data multi times but no only once. This step is reliable and accuracy.



Step5: Summary our data

Finally summary of the data is necessary and important. The data we summarized should be methodical, in a clear and order structure and it can be easily for us to used. The summary should also include the method we used, advantages, disadvantages and suggestions.

Methods

To test our concepts, we came up with low-fidelity prototypes, and we set them at the cafe on the Wilkinson Building. Our target user group are USYD students. We used interview, questionnaires, observation, think aloud, and focus group on conducting our user testing and evaluation, we used these five methods during our testing.

Reasons of choosing the methods:

- 1. **Interview** are the most direct way to communicate with our users. It helps to gain deep insight into the experiences of users and collect detailed feedback about our prototype, it also allows us to find out the potential problems of our concepts. (Tomitsch et al., 2018) According to Oakley, qualitative interview is a type of framework in which the practices and standards be not only recorded, but also achieved, challenged and as well as reinforced. (Jamshed, 2014) Thus, we are able to make improvement and make our concepts more applicable to our users.
- 2. **Questionnaire** can be clearly statistic in tabular form. (Tomitsch et al., 2018). Through the data obtained from the questionnaire, we can filter the data we want to use easier. We use Questionnaire as a quantitative research, by answers obtained through closed-ended questions with multiple choice answer options are analyzed using quantitative methods and they may involve pie-charts, bar-charts and percentages. ("Questionnaires", 2019)

Methods

Reasons of choosing the methods:

- **3. Focus group** is useful for gathering concrete information about our concepts, building understanding with users, defining our design problems, and providing feedback on our design concepts and prototypes. (Tomitsch et al., 2018) As different person has different opinions about our concepts, this approach helps users discuss their dissatisfaction together. In this way, we can also find out the main problem of our concepts.
- **4. Think-Aloud** is a research method in which participants speak aloud any words in their mind as they complete a task.(Charters.,2003). Since low-fidelity prototype may be difficult to understand, By using this method, it helps us to find out whether people understand our concepts and the way they use our concepts. At the same time, we can discover the problems of our concepts.
- **5. Observation** is a type of qualitative research method which not only included participant observation, but also covered ethnography and research work in the field. In the observational research design, multiple study sites are involved. Observational data can be integrated as auxiliary or confirmatory research.(Jamshed, 2014).We use observation to observed user's actions, physical posture, changing in facial expressions and gaze and gesture in relation to our concepts. By analysing those datsa, it can help us developing a better understanding of design problems and context, as well as for gathering feedback about our prototype.

The type of information we gain

Testing1

Interview, Questionnaires

Interview

- The most popular and unpopular concept
- Feedback on three of our concepts
- The user needs of traffic lights
- Suggestions for improvement

Questionnaires

- The degree of affection for each of our concept
- The most popular concept

Testing2

Interview, Questionnaires

Focus Group

Interview

- Feedback of two concepts
- The most popular concept
- Suggestion of improvements.
- The user needs of traffic lights
- The content displayed on the screen.

Questionnaires

- The degree of affection for each of our concept
- The most favorite concept of users
- The favorite countdown way of users
- The most interactive concept

Focus Group

- Gathering concrete information about existing experience while waiting for traffic lights.
- User feedback on prototypes.

Testing3

Interview, Questionnaires

Think Aloud

Interview

- Suggestion of improvements.
- The content displayed on the screen.
- The screen size.

Questionnaires

- The degree of affection for each of our concept
- The most popular concept

Think Aloud

- The degree of affection for each of our concept
- The most popular concept



Shiny Shiny

There are three main points in the design of Concept 1:

- The button lights up when it is pressed. The purpose of this design is to provide timely feedback after the pedestrian presses the button.
- On the column above the button, add a progress bar countdown device. The progress bar is divided into three blocks. As the waiting time decreases, the progress bar disappears slowly. When the last progress bar goes, the countdown ends. Pedestrians can cross the road.
- Audio is set under the button to play music when the program ends, reminding pedestrians in the waiting area to cross the street.



Fist Bump

There are three main points designed in Concept 2:

- We changed the appearance of the button. We designed the shape as a kangaroo, and the buttons were designed to look like the kangaroo's fist. The reason for creating a kangaroo format is that kangaroo is one of the most representative animals in Australia. The button is intended to be a fist because, through previous investigations, people sometimes use a venting mood when pressing the traffic light button. Press the button with force, this design is to allow people to press the button forcefully, and the button will not be easily damaged.
- We have designed a print port that can print small strips of paper. The content on the strip may be an exciting piece of text, which may be a cold knowledge. This design enhances the interaction between pedestrians and traffic lights and improves user experience.
- At the bottom of the button, we designed a sign board that shows the direction of the road, a "press" sign.



Ground Projection

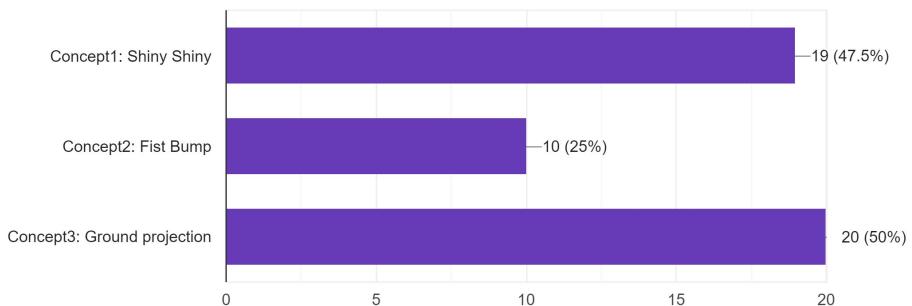
Concept 3 has two main designs:

- The button lights up when it is pressed. The purpose of this design is to provide timely feedback after the pedestrian presses the button.
- A projector is placed under the button. Whenever a pedestrian presses the button, the projector will start and project a picture to the ground. The content includes time, countdown, and animation. When the program ends, a green square will appear on the screen to block the original content. The text is displayed on the square. It is time to cross the road. This design is mainly to increase the fun, to solve the problem that pedestrians are bored when waiting for the traffic light. Meanwhile, the countdown design allows people to know the time to wait accurately.

User Testing 1 - Key findings

Which one do you want to try more if they implement on the market?

40 responses



We did 40 user testings on our initial three concepts.

- Through our **questionnaire**, we found that only 1/4 of our user like concept 2 (Fist Bump).
- User's affection for the second concept is lower than the other two concepts.
- Concept 3 (Ground Projection) is the most popular concept.

User Testing 1 - Key findings

Through the Interview, we found that most of our users are satisfied with our button color change design, countdown design, and display time on projection design. Thus, we will keep these three functions.

Concept 1 (Shiny Shiny)

- Music player is **useless** and it is difficult to set up the appropriated music.
- The concept of the button color change when someone press is functional and **convenient**.
- The **countdown bar** is practical for pedestrian.

Concept 2 (Fist Bump)

- The **kangaroo shape** of the button is attractive, while eight users claim that the kangaroo design is **childish**.
- Printing notes is **useless** and it may cause a **waste**.

Concept 3 (Ground Projection)

- The **animation** on the projection is interesting, while **seven** users claim that projecting on the ground is **harmful** to people's spine, and it may easily affect by the **weather**.
- Counting down is **useful** for a pedestrian.

There are also some suggestions we received from our users:

- Combining concept 1 and concept 3.
- Making a **screen** which **parallels** to the person's line of sight rather than **projecting** on the ground.
- Putting **news**, advertisement or **videos** instead of **animation**.

User Testing 1 - Summary

Concept 1 (Shiny Shiny) and concept 3 (Ground Projection) are more popular and more appeal to our users than the second concept (Fist Bump) In this way, we are considering to get rid of our concept 2.

Most of our users are satisfied with our button color change design, countdown design, and display time on projection design. Thus, we will keep these three functions.

There are two controversial functions of our concepts, which are the shape of the button and the projection.

There are two functions we will discard because our users feel useless, which are the printing notes and the music player.

User Testing 1 Improvement

Based on the result of our user testing, we make some improvements for the two controversial functions:

1. Projection: We decide to change the ground projection to a screen which is set above the button.
2. The shape of the button: we decide to decorate the form only when it is close to a festival, and it will stay normal in the rest of the time.

We also have different choices in our design of the button color change, countdown system design, and the content of our screen.

1. Button color change design

- Change the color of the arrow.
- Change the color of the button

2. Countdown design

- Figure countdown
- Countdown with the progress bar

3. Content of our screen

- More interactive
- Dissemination of information



Improved version of concept 1

This concept combines the previous concept 1 and concept 2.

- The appearance combines the design of the kangaroo outlook.
- Adding a message board screen. Pedestrians can upload their messages on the mobile phone to the cloud through scanning the QR code while waiting for the traffic lights, and it can also upload photos.
- The button retains the original design, and the button lights up when people press the button.
- The progress bar countdown has been improved. Based on the original, increased the display of the percentage number. In the red light, there is red progress bar. As time goes by, the progress bar gradually decreases while showing the percentage. When the red progress bar disappears, a green progress bar appears, telling people when they can pass.



Improved version of concept 3

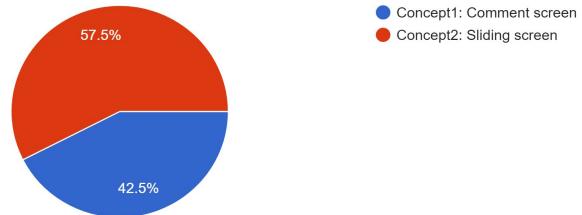
This concept is based on previous concept 3.

- The projection on the ground in previous concept three was changed to a screen suspended on the button post.
- The content of the screen includes location, weather of the day, time, and a countdown device.
- In the center of the screen, there are scrolling some on-screen advertisements daily recommendation, etc.
- At the bottom of the screen, there is a QR code that can be scanned if the pedestrian is interested in the ad being played.
- The arrow above the button will lights up when the button is pressed.
- A digital countdown device is placed across the road to allow more people to see the countdown.



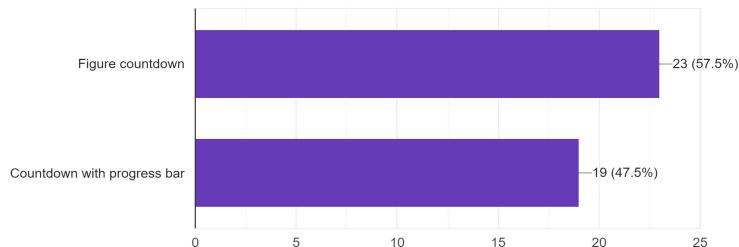
Which concept you like most?

40 responses



Do you prefer figure countdown or countdown with progress bar?

40 responses



User Testing 2 - Key findings

We did 40 user testings on our initial two concepts.

- 23 users are more inclined to choose concept3
- 23 participants believe that digital countdown is more concise and easy to understand.

User Testing 2 - Key Finding

Concept 1 Comment Screen

1. For the comments function, the participants have different opinions. Some of them think that the message from others is very engaging, and the content is real and vivid. They believe that the interactivity of this function is satisfactory. But most of the experiencers think there are some problems with this feature. They believe the length of time for waiting for the traffic lights only a few tens of seconds, and they don't have enough time to edit the text. Some experiencers also say they are worried that someone will spread wrong information through this feature. Others said they don't like messages.
2. Kinson: I personally don't like the message one. Because of the short time, I may not be able to write a lot. It may be a concise sentence.
3. Nigel: If some people leave a message that is negative and relatively provocative, it is impossible to control the spread of this information.
4. For the overall appearance of the button, some participants thought that different holiday styles of it would give them a surprise.

Concept 3 Sliding Screen

1. The results of the interviews indicate that most of the experiencers believe that digital countdown is more concise and easy to understand.
2. For the content that was played on the screen, respondents indicated that the news was useful and attractive.
3. Zhongyi Liu: Maybe some news, present as short clips, quick, and eye-catching.
4. For the scanning function of the QR code, most of the participants reflected that they thought it was troublesome. Based on these feedbacks, we are considering to remove this feature.
5. For button lights, some participants indicated that this feature is handy. At the same time, most participants prefer the shape of the arrow.

User Testing 2 - Summary

Through the result of the questionnaire, we found that most of the user is more inclined to choose concept 3. According to the data analysis results, we will merge concept 1 and concept 3.

The **controversial** part is the **comments function**. Some participants think that the function has been very interactive, while the other part feels that the function is useless, and there may be information security problems.

For some function that have **good feedback**, like arrow lights, digital countdowns, and **News** sections, we will retain these features.



User testing 2 - Improvement

Based on the results of the user test, we combined our two concepts and made some improvements:

Screen: We decided to put the content on the screen with daily news scrolling and traffic information.

Button shape: We have retained the design of the Katong shell, but only decorate the form when it is near the festival, and it will remain normal for the rest of the day.

Countdown system: We have retained the original design. On this basis, we made some improvements. We designed the countdown of the waiting time to be red, and the timing of the green light was green.



Final Concept-CNL button

The Final concept is an upgrade and improved design based on the results of two previous two user testings.

This concept is a device set at the pedestrian traffic light. This design consists of three main parts: **button**, **screen**, **countdown**.

- The **arrow** above the button will light up when the pedestrian presses the button, it gives users a sense of interaction.
- There is a **screen** hangs above the button, the screen will play **daily news** and some information about the road conditions. It also displays a **figure countdown** of the waiting time.
- A large figure **countdown device** is hung across the road, and it will start counting down after the pedestrian presses the button.
- The **countdown system** will display the remaining time when the pedestrian crossing the street.
- Current location of the traffic light will also be recorded in the side of the button in **braille**.

Final concept - Problems we solved

Problem 1. Pedestrian button do not have any reaction after someone pressed.

Solution: The arrow above the button will light up after pedestrian press the button.

Problem 2. The flashing red light makes pedestrian nervous as they do not know whether they can cross the street.

Solution: The figure countdown set on the pedestrian traffic light.

In addition, the braille on the side of the button can also help blind people.

The news on the screen can also alleviate people's boredom when waiting for traffic lights.

The decoration of the button can also improve the experience of the pedestrian because most of our users feel that it is attractive and interesting, some of them feel that the decoration of the button will improve.

Experience Prototype



Mock-Up



User Testing 3 - Key findings

We conducted 40 user testing for our final concept.

According to the result of our questionnaires, we found that 21 users like our concept and 15 users strongly like it. Figure countdown and button gain the most votes which is 22. While for the degree of interaction, 15 users feel that it is not interactive enough.

According to the result of our Interviews, 31 users agree that our final concept is useful, including the news on the screen, figure countdown and the changing color of the arrow.

According to the result of think aloud and observations, we found that most of our user can understand our concept without explanation, most of them believe that our concept is straightforward.

Summary

Based on the feedback of our user testings, we sorted out the advantages and disadvantages that users evaluated.

Strengths:

- News makes pedestrian have things to do while waiting the traffic light, and the news is also relevant to pedestrian's daily lives.
- The color of the arrow will be changed when someone press the button, it as a reminders prevent pedestrian from pressing the button multi-times.
- The figure countdown gives pedestrian a concept of the waiting time or crossing time, in this way, they do not need to hurry and they may not feel frustrated.
- The braille on the side is helpful for blind people.

Limitations:

- 29 users claim that screen size is a bit small, pedestrian who stand far away may not able to see the screen.
- The cost of our concept is high.

Suggestion:

- The screen can be bigger.
- More picture but less text, big headline but less detail.
- Sound prompt would be better.



Target audience

Location:

Sydney's traffic lights, except for the outlying and some traffic lights which less pedestrian.

Target audience:

Pedestrian in Sydney, including normal pedestrian and blind pedestrian.

Reason:

- From the previous observations, we found that many people will choose to go through the red light when they think there are fewer vehicles at the intersection. According to U.S. Department of Transportation, pedestrian will cross the sidewalk early if they believe that the button does not work. As a result, our countdown design is suitable for them.
- 60 percent of respondents mostly 'bump into' that type of content as they do other things on Facebook and other sites. (Sydney G, 2019) Our news screen can bump to them and make them read news.
- Braille helps blind pedestrian to know the current location of the pedestrian

Implementation Plan

Software:

- 3ds max
- Sublime
- Photoshop
- Html
- Css

Hardware:

- Traffic light model (around 90 dollars)
- Button (3D Printing)
- Countdown timer (around 60 dollars)
- Ipad
- Digital LED Light (around 20 dollars)
- Jumper Wires
- Arduino Uno
- 3D Printing & Laser Cutting (around 60 dollars)

For purchasing these materials, each of our group member contributes \$150 AU.

Creating prototype:

Designing News screen:

Yiqi Liu, Jiayu Ye

Modeling of the button and 3d printing:

Mengyu Li

The modeling of the shape of the button and 3d printing:

Siying Ma

Making connection: **All of our group members**

Testing: **All of our group members**

Video:

Video script writing: **Mengyu Li**

Filmming: **Siying Ma**

Operating: **Yiqi Liu**

Editing: **Jiayu Ye**

Team member responsibilities

	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Purchases and delivery the traffic light model and the countdown		9.20-10.8					
Design our button and the shape of our button by using 3Ds Max		9.24-10.1					
Print our 3Ds modeling out by using 3D printing machine.			10.2-10.6				
Design the content (news) of our screen by using photoshop, html and css		10.2-10.4					
Making each of our component connect with each other by using code			10.10-10.18				
Test our model					10.20		
Set the scenario and film the video of our prototype by using camera					10.22-10.29		
Edit our video by using Premiere					10.26-11.1		

Software

Hardware

Testing

Reflection



Based on the user feedback, we are going to make some improvement for our final concept.

1. Making our screen bigger.
2. Making the font size of the news bigger.
3. Making the content of the news succinct and allows our users access the important news in the shortest time.
4. Keeping the sound of the current street button, moreover, sound prompt should also consider about blind pedestrian

We already purchased the traffic light model, in the next step, we are going to design our button and the appearance of our button through 3ds max, and printed them out by using 3d printing. Moreover, we are also going to make our news screen out by using sublime (html, css). After that, we will connect all of our model together by using codes.

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Appendix:

1.1 Interviews

User Testing1 (Siyi Ma)

1. Jingxuan Chen

Q: Which concept you like most?

Concept 3, because this concept is very interesting and attractive. It can not only inform pedestrians the waiting time, but also provide entertainment which pedestrians can interact with the city.

Q: Which concept you like most? Why?

Concept 2. The concept is a little bit ordinary. The idea of sending pedestrians scripts is quite unrealistic. It will be a waste of paper.

Q: Which one do you want to try more they implement on the market?

Concept 1. Even though concept 1 is not as interesting as concept 3, it will be more suitable to replace the traffic light in term of functional. This concept is a better version of the traffic light today. It's simple and useful.

2. Siqi ma

Q: Which concept you like most?

I like the first concept because it is simple, practical, and low cost, it can solve user needs.

I like the countdown design and sound tips. If it is a digital countdown, it will be better because it can show my waiting time more clearly. The design of the button lighting is also very good if someone else pressed it. I don't have to go over and press again.

Q: Which concept do you least like?

I don't like the second concept because it is not practical, it is not environmentally friendly, and it is too polluting. Who put the new paper after the paper was printed? It would be more feasible to become a screen display.

Q: What do you think of the third concept?

The idea is very similar to the first one, but the cost is too high, and the applicable group is too single. Not everyone likes cartoons may be more popular for children

Q: What kind of content do you think will attract you?

Weather forecast, time, location, or important news will more useful and attractive.

3. Tingting wang

Q: Which concept you like most? Why?

I like the third concept most because I think the projection is very interesting. I can watch it when I wait for the traffic lights. It won't make me bored.

Q: If the existing traffic lights set this projection, will you still play with your phone?

It will be attractive at first because it is very novel, but it may be less attractive over time, depending on what it is delivering.

Q: What content do you prefer to play in the projection of the third concept? News, latest product ads, animations, etc.

I might prefer to play the animation. But it would be better if you put a new animation over time.

Q: What do you think of the second concept?

I think the shape of the second concept is very cute, but is this size too big? How does it remind pedestrians to cross the road? This cartoon ear will have a voice prompt. So cute. However, I think the idea of this concept is not environmentally friendly.

Q: Which one do you want to try more they implement on the market?

I will definitely choose the first concept. It is highly practical and low cost. I think this kind of traditional button is also very good. Because I am used to this button, if it changes to other shapes, it may make me less accustomed.

4. Xiangyu Lu

Q: Which concept you like most? Why?

Third concept. Because waiting for the traffic light to crossing the road is very boring, and this concept can watch cartoons when I waiting for the traffic light. When the traffic light turns to the green light, then the screen will be green too and will remind me that I will cross the road I think this is good design.

Q: Which concept do you least like?

Second concept. Because it feels very naive and looks useless.

Q: Which one do you want to try more they implement on the market?

I think it would be better if it were the first and third concept combination.

Q: How to combine?

It can be combined with the digital countdown of the third concept, and the countdown of the first concept.

5. Cameron wang

Q: Which concept you like most? Why?

I prefer the third concept.

Q: Why you prefer the third concept?

Because waiting for the traffic light to crossing the road is very boring, and this concept can watch cartoons when I waiting for the traffic light.

Q: Which concept do you least like?

Secondly concept. This kind of design is cumbersome and not useful, and it is very environmentally unfriendly. You see if this paper I don't like after I get it, I don't know where to throw it, if someone throws it on the ground, that is pollution for the environment.

Q: Which one do you want to try more they implement on the market?

If it is real life, I may be more inclined to the third concept or combine first and the third concept I think these two concepts will be better.

6. Ge Song

Q: Which concept you like most? Why?

I think it is the first one because it embodies the real role of the traffic lights and the concept is highly feasible and low cost.

Q: Which concept do you least like?

I don't like the second concept at the least, because it doesn't do much. I don't like the design of this strip. Simple design is more comfortable in everyday life. Or it would be better to change the paper strip to the screen display because it is environmentally friendly.

Q: How do you think third concept?

The third concept I think is too costly and not realistic. And many teenagers are too destructive. If the projections and screens are damaged by the teenager, the cost of the government is too high.

Q: The first concept do you think there is something need to improve?

If this led countdown is changed to a digital countdown, I think it will more convenient.

Q: If the design of the first concept is compared with the existing traffic lights, do you think there is an improvement? That must be improved. The button is improved, when someone presses the button it will turn green and the countdown design is good. Because most of the traffic lights in Sydney do not show the time, the flashing time of the red light is unknown. The most important thing for me is the time of the traffic lights. I think the digital countdown is perfect.

7. Kathie:

Q:Which concept you like most?

Third concept.

Q:Which concept do you think is the most useful?

I think the first concept is the most practical, but I think it is too normal. However, I think this countdown is very good. I think it would be better if there is a clearer countdown.

Q:Which concept do you least like?

The second concept is very interesting, but the printing cost is too high, and it is not environmentally friendly, so I think it is not very good.

Q:Which one do you want to try more they implement on the market?

I might prefer the third one. Because the third concept function has changed a lot. Although the cost of the cost is high, I think it can be placed on the busy road.

8. Xuan Wu

Q:Which concept you like most?

I like the first concept most, which is consistent with my usual habit of crossing the road. I feel really good about the improvement of the green button. The red light countdown is very important to me because if it can help me distinguish how much time the red light will be flashing, I think it is a good design!

Q:Which concept do you least like?

I least like the second concept because it's useless and the paper strip is not environmentally friendly.

Q:Why don't you choose the third concept?

This concept is very similar to the first one, but the first one is more in line with my behavior. For the third concept, the content on the screen is not clear when the sun is in the daytime and the screen will reflect on my eyes.

Q:Which one do you want to try more they implement on the market?

First concept

9. Ting Zhang

Q:Which one do you want to try more they implement on the market?

I will need the first one more, it is more practical. Because it does solve my existing problems. When I was crossing the road, I wanted to know how long I had to wait, so this countdown is very practical for me.

Q:Which concept do you least like?

The second reason I didn't like it very much was that it wasn't very useful, although it looked interesting but not very attractive to me. I like simple design.

Q:What do you think the third concept?

I think the third one is also very interesting and has something in common with the first one. But its cost is too high and not very practical. If I really use it, I prefer to use the first concept and it is simple and solve the problem of crossing the road.

Q:Which one do you want to try more they implement on the market?

I think the first concept would be better.

10. Fan Yang

Q:Which concept you like most?

I would prefer the first one because I think it is more simple and more satisfying my needs for traffic lights. Its improvements can solve my current needs. I think it would be more perfect if it was a digital countdown.

Q:Which concept do you least like?

The last thing I like is the second concept. Although I like this appearance, it is too wasteful to be environmentally friendly. This printed paper may be taken for the first time, but it won't be attractive for a long time. If this design appears in real life, it will have a serious impact on the social environment. You can consider replacing the printed note with a screen display. I

think this concept look is pretty good, but the function is not very good. It would be better if you combined these three concepts.

Q:How to combine?

I think is the third concept, the display on the ground can be changed to the small screen will be better and put on the pillar of the traffic light, because the practicality is not high on the ground, and if the sun is very large during the morning, the screen content can not be seen clearly, and look down. The cute shape of concept 2 can be considered for use during the holidays. Both designs of the first concept can keep the countdown of the red light, and the button will turn green

Q:If the design of the first concept is compared with the existing traffic lights, do you think there is an improvement?

I will still choose the first concept because it is the most feasible, simple, practical, and low cost. Other concepts seem to cost a lot of money. And if it is damaged, it will be time and money to repair. In addition to the countdown, if the countdown can be changed to a digital countdown it will be great. I think other improvements are very good and can meet my needs.

User Testing 2 (Siying Ma)

1.Luxiang yu

Q: Which concept is your favorite one? Why
The second one. Graphic is more direct than text.

Q: What do you think it can be improved?

It will be better if the news are limited in the time of waiting for the traffic light, because people may not want to scan the QR code on the way.

Q:Why does the other one not attract you?
I don't like to read text when waiting for the traffic light.

Q:Which one do you think is more interactive?
Second concept.

Q:Which one would you try if both of them implement on the market?
Second concept, but combine the progress bar's concept.

Q:What kind of content do you want on the screen? Like games, videos or news?
Daily big news will more attract to me

Q:Which design do you prefer more? figure countdown or progress bar?
Both, progress bar as graphic announcement, while counting numbers to let me know the exact time left.

Q: Do you prefer the button light or the arrow light?
Button lightening.

2.Shirley

Q: Which concept is your favorite one? Why
I like the first one. because the screen can make me get more information about time. and the idea of cover is so cute. they can have more different styles. the process bar is pretty good for many people who doesn't like number.

Q: What do you think it can be improved?
The size of screen board should be suitable for traffic light pole and maybe i think many people doesn't like spend too much time on scanning the QR code

Q:Why does the other one not attract you?
The second one is too simple and the first one make me felt safety, when i waiting for traffic light and playing the mobile phone

Q:Which one do you think is more interactive?

The first one. Cuz I can get some news in the screen board.

Q: Which one would you try if both of them implement on the market?

Second one

Q: What kind of content do you want on the screen? Like games, videos or news?

Maybe the news

Q: Which design do you prefer more? figure countdown or progress bar?

The process bar

Q: Do you prefer the button light or the arrow light?

Button

3. Yifei Hu

Q: Which concept is your favorite one? Why

I prefer concept2. because the second concept not only involves of interaction with pedestrians but also simple and useful. comparing to posting message, videos are more appealing and involving of less operation as pedestrians usually spend little time on waiting for traffic lights.

Q: What do you think it can be improved?

I think the posting message system needs improvements. It needs regulation to restrict what people can post and what they can't.

Q: Why does the other one not attract you?

As mentioned before, the first concept needs regulation system to restrict the posts

Q: Which one do you think is more interactive?

Concept 1 has more interaction as pedestrians have to scan the QR code to post message

Q: Which one would you try if both of them implement on the market?

I personally prefer concept1 because its simple and useful. though concept1 has more interaction and pedestrians can post what they like but too much information can be messy and disturbing. moreover i usually don't spend' that much time waiting for traffic lights, let alone posting messages

Q: What kind of content do you want on the screen? Like games, videos or news?

News and movie trailers are very useful' and attractive

Q: Which design do you prefer more? figure countdown or progress bar?

Number countdown is more obvious and direct

Q: Do you prefer the button light or the arrow light?

I prefer arrow glowing is better because button will be pressed by many people everyday. it could be broken.

4. Yu Zhuo

Q: Which concept is your favorite one? Why

My favourite one is the 1st one because i am interested to make friends with others and know others' lives.

Q: What do you think it can be improved?

The interface can be more fascinating and attractive

Q: Why does the other one not attract you?

I don't like the animation

Q: Which one do you think is more interactive?

The 1st one

Q: Which one would you try if both of them implement on the market?

The first concept

Q: What kind of content do you want on the screen? Like games, videos or news?
Some guidance of traffic and activities recently

Q: Which design do you prefer more? figure countdown or progress bar?
Number countdown because it is clearer

Q: Do you prefer the button light or the arrow light?
I prefer arrow glowing

5. Zhongyi Liu

Q: Which concept is your favorite one? Why
I prefer the first concept. this equipment give users more sense of interaction, more playable

Q: What do you think it can be improved?
As a press-button signal column, always located at busy place that pedestrians may not pay attentions to this equipment

Q: Why does the other one not attract you?
Ordinary, this kind of screen already applied in other place, like subways or shopping malls, not that creative.

Q: Which one do you think is more interactive?
The fist one, users can interact with others without the limitation of time and space.

Q: Which one would you try if both of them implement on the market?
If considering whether it is useful, maybe the second one. the first one is quite creative and interactive, but if consider about the real-world situation on the pedestrian the second one seems not that useful.

Q: What kind of content do you want on the screen? Like games, videos or news?
Maybe some news, present as short clips, quick and eye-catching

Q: Which design do you prefer more? figure countdown or progress bar?
I prefer the progress bar, because the wings on the signal bulbs often get in the view.

Q: Do you prefer the button light or the arrow light?
Button, because it be more directly shows that somebody already press it, like people's attention maybe more concentrate on the button itself rather than the arrow above.

6. Jingxuan Chen

Q: Which concept is your favorite one? Why
Concept 2. This concept is more concisely and useful.

Q: What do you think it can be improved?
How to maintain the LED screen? to repair or to prevent from rain. What if they are stolen or broken?

Q: Why does the other one not attract you?
They are quite similar, what will be showing on the screen is the difference. Personally I prefer what's showing in the concept 2.

Q: Which one do you think is more interactive?
Concept 1.

Q: Which one would you try if both of them implement on the market?
Concept 2.

Q: What kind of content do you want on the screen? Like games, videos or news?
I will prefer news, which is suitable for public display. Or movie trailers, is short and good for spending time.

Q: Which design do you prefer more? figure countdown or progress bar?
I prefer number countdown

Q: Do you prefer the button light or the arrow light?
The button will be better.

7. Tingting Wang

Q: Which concept is your favorite one? Why
I like the first concept the best, because it is more interactive than the other one. Also, I like the design of countdown bar which would really remind me the time when waiting. The holiday of traffic light cover is so cute.

Q: What do you think it can be improved?
The message that displayed to the screen may need some restrictions. Ensuring there is no unsuited information displayed. For example, kids also as a part of engagement audience they may read naughty thing because of the screen.

Q: Why does the other one not attract you?
I don't like it much because safety should be vital, downloading the carton to the phone and watch it continuously is not safe enough for the pedestrian. I am a big worried they would walk without pay attention to the traffic conditions.

Q: Which one do you think is more interactive?
Absolutely the first one, because the first concept has really encouraged pedestrian to use it and get engaged with the screen. However, for the second one they are only watching the video with no actual interactions with the "machine".

Q: Which one would you try if both of them implement on the market?
I prefer the first one because it seems more practical and less complicates.

Q: What kind of content do you want on the screen? Like games, videos or news?
I hope promotion news or Movies trailer because I am personally like shopping. If the screen could provide the promotion news it would be grateful.

Q: Which design do you prefer more? figure countdown or progress bar?
I prefer the countdown bar, because it looks like a sand clock, very interesting.

Q: Do you prefer the button light or the arrow light?
I prefer the arrow because visually it's more straightforward. I think it is better to combine the button concept and the arrow concept together. So maybe make the arrow change color like the button does.

8. Zhongyue Jiang

Q: Which concept is your favorite one? Why
I prefer the second concept, because it was innovation and can improve the user experience.

Q: What do you think it can be improved?
I think we don't need the QR code

Q: Why does the other one not attract you?
I just feel the second one is more suitable for me.

Q: Which one do you think is more interactive?
First one

Q: Which one would you try if both of them implement on the market?
Second one

Q: What kind of content do you want on the screen? Like games, videos or news?
Big news

Q: Which design do you prefer more? figure countdown or progress bar?
I think figure countdown is better than progress bar.

Q: Do you prefer the button light or the arrow light?

The arrow light is better.

9. Jiayi Jia

Q: Which concept is your favorite one? Why

I prefer concept 2, because the design is innovation and useful.

Q: What do you think it can be improved?

I think it's pretty good, but canceled the QR code may be will better. Otherwise, there will be too many people holding the phone to continue watching the content when crossing the road.

Q: Why does the other one not attract you?

Although the first concept can prevent others from pasting the paper ads on the traffic light, the information content of the screen message is difficult to control.

Q: Which one do you think is more interactive?

The interaction of the two concepts is similar.

Q: Which one would you try if both of them implement on the market?

I think it can be combined, for example, the countdown of the bar and the countdown of the numbers can be combined.

Q: What kind of content do you want on the screen? Like games, videos or news?

Of course, major news will be more meaningful

Q: Which design do you prefer more? figure countdown or progress bar?

I may be more inclined to the countdown of the numbers. Because you can see at a glance how many seconds I still need to wait.

Q: Do you prefer the button light or the arrow light?

I prefer the arrow to light up because I can see the arrow lights up when I press the button.

10. Siqi Ma

Q: Which concept is your favorite one? Why

I prefer the second concept. Because the design of the second concept is very useful and it can better to solve my needs.

Q: What do you think it can be improved?

I think if can cancel the QR code will be better. Otherwise, there will be too many people holding the phone to continue watching the content when crossing the road.

Q: Why does the other one not attract you?

Although the first concept can prevent others from pasting the paper ads on the traffic light, the information content of the screen message is difficult to control.

Q: Which one do you think is more interactive?

I think first concept will be better.

Q: Which one would you try if both of them implement on the market?

I think it can be combined, for example, the countdown of the bar and the countdown of the numbers can be combined.

Q: What kind of content do you want on the screen? Like games, videos or news?

Of course, major news will be more meaningful

Q: Which design do you prefer more? figure countdown or progress bar?

I prefer the bar countdown because I am not very sensitive for the numbers.

Q: Do you prefer the button light or the arrow light?

I think the arrow light up is better than button light up because if I often press the button it will be broken quickly.

User Testing 3 (Siying Ma)

Chendu Jiang

Q: How do you feel this concept compared to the current traffic light? Do you think our concept can improve the user experience?

Yes. As it clearly suggests pedestrians whether the button has been pressed.

Q: What else do you think it can be improved?

So far, no. This is a simple idea and doesn't need to be complicated. However, if a timer is installed on the pedestrian signal lights, you won't need the yellow arrow then.

Q: Which part do you think is the most attractive part for you?

First it shows whether the button has been pressed, Second one is it reduced anxiety when waiting.

Q: What do you think about the content played on the screen?

It would be better to have on time traffic information.

Q: How do you think the size of the screen?

Considering the budget it's ok to have such size.

Q: What do you feel about the content? Do you think it should be more detail or just a headline?

Yes. Since the waiting time varies. Some pedestrian might wait for longer time in major traffic intersections

Yifei Hu

Q: How do you feel this concept compared to the current traffic light? Do you think our concept can improve the user experience?

Yes, the new concept is more convenient and interactive.

Q: What else do you think it can be improved?

The font style and size of the screen should be simple and clear that pedestrians can easily understand. choose the main traffic lights with the most pedestrians to decorate during festival.

Q: Which part do you think is the most attractive part for you?

Once the pedestrians pressed the button the arrow sign starts to glow. This design is very useful and solve the current traffic light issues.

Q: What do you think about the content played on the screen?

I like the idea of playing the latest news

Q: How do you think the size of the screen?

The screen can be bigger because the current size is hard to read unless people get very close.

Q: What do you feel about the content? Do you think it should be more detail or just a headline?

I think just the titles are good. because usually pedestrians don't have much time on reading the detail contents. titles are enough for pedestrians to know what happened.

Siqi Ma

Q: How do you feel this concept compared to the current traffic light? Do you think our concept can improve the user experience?

Of course, because this new concept is more useful and solve the pedestrian issue.

Q: What else do you think it can be improved?

The font style and size of the screen should be clear that pedestrians can easily understand.

Q: Which part do you think is the most attractive part for you?

When the pedestrians pressed the button the arrow sign starts to glow.

Q: What do you think about the content played on the screen?
It's useful can help pedestrians easily to know the latest news

Q: How do you think the size of the screen?
The screen size can be bigger

Q: What do you feel about the content? Do you think it should be more detail or just a headline?
I think just the titles is enough, because pedestrians don't have much time to reading detail contents.

Jingxuan Chen

Q: How do you feel this concept compared to the current traffic light? Do you think our concept can improve the user experience?
Yes, it's more useful.

Q: What else do you think it can be improved?
I think it's almost perfect

Q: Which part do you think is the most attractive part for you?
The countdown, safety is the most important thing

Q: What do you think about the content played on the screen?
It's suitable.

Q: How do you think the size of the screen?
It might be a little bit small, it is a little hard for everyone to see it.

Q: What do you feel about the content? Do you think it should be more detail or just a headline?
No, it's not enough time for people to read all of this.

Zhongyi Liu

Q: How do you feel this concept compared to the current traffic light? Do you think our concept can improve the user experience?
Yes.

Q: What else do you think it can be improved?
The font of text on the board, maybe the composition of the board can be improved to make the information easier to understand.

Q: Which part do you think is the most attractive part for you?
The lighting arrow, even in the dark environment the press button area will still be obvious

Q: What do you think about the content played on the screen?
Good

Q: How do you think the size of the screen?
Kindly, maybe a little bit small, however the weight and size seems appropriate to be hold on the post

Q: What do you feel about the content? Do you think it should be more detail or just a headline?
Maybe some information of special event in the city will be good.

Michele

Q: How do you feel this concept compared to the current traffic light? Do you think our concept can improve the user experience?

Yes, because it gets me more connected to the current affairs of my location.

Q: What else do you think it can be improved?

Slightly larger screen to easier understand and focus for a older audiences, less white space so the fonts can increase

Q: Which part do you think is the most attractive part for you?

Santa's decoration as a cover is a good design idea

Q: What do you think about the content played on the screen?

Good, i like seeing the news as i don't personally check the news on a daily basis

Q: How do you think the size of the screen?

Should be slightly larger for people with bad eyesight

Q: What do you feel about the content? Do you think it should be more detail or just a headline?

I think need more detail

Fan Yang

Q: How do you feel this concept compared to the current traffic light? Do you think our concept can improve the user experience?

Yep, It give me a new experience of waiting traffic light

Q: What else do you think it can be improved?

I thought it works well weather information could be added.

Q: Which part do you think is the most attractive part for you?

I love the screen and cartoon decoration

Q: What do you think about the content played on the screen?

It could be more information in it.

Q: How do you think the size of the screen?

The size may be bigger will be better.

Q: What do you feel about the content? Do you think it should be more detail or just a headline?

Yep, life tips or weather

Kelu

Q: How do you feel this concept compared to the current traffic light? Do you think our concept can improve the user experience?

Of course, this new concept is more useful and interactive.

Q: What else do you think it can be improved?

If news content can be broadcast by voice will be better.

Q: Which part do you think is the most attractive part for you?

When the pedestrians pressed the button the arrow sign starts to glow.

4.What do you think about the content played on the screen?

The font of the title can be larger, the font of the content can be smaller or change to other color.

Q: How do you think the size of the screen?

The screen size is not bad because the traffic light post is not very wide.

Q: What do you feel about the content? Do you think it should be more detail or just a headline?
You can put the main content of the news but the font color can be changed.

Xiangyu Lu

Q: How do you feel this concept compared to the current traffic light? Do you think our concept can improve the user experience?

Yes. It mostly improves the problem of not informing the left time to cross the road.

Q: What else do you think it can be improved?

It'll be better if counting number and graphic pattern can show the time together.

Q: Which part do you think is the most attractive part for you?

Not only can it inform me the time left, but also can let me know the latest news.

4. What do you think about the content played on the screen?

Maybe the title font size can be larger. And I like the graphic news.

Q: How do you think the size of the screen?

Yes, it suits the trunk of the traffic light.

Q: What do you feel about the content? Do you think it should be more detail or just a headline?

Maybe in a sentence will better.

Tingting wang

Q: How do you feel this concept compared to the current traffic light? Do you think our concept can improve the user experience?

Yes, this concept seems more interesting than the old one. It seems applied more technology on.

Q: What else do you think it can be improved?

Maybe put the braille to somewhere easy to touch. I mean to the front not the side of the button. But I am not sure if that change is good or not. Also, making the screen font size bigger and easy to read, reduce the word length of the news. Personally, I prefer image more than words.

Q: Which part do you think is the most attractive part for you?

I like the idea of figure counting and the arrow lights above the button. Also, this concept considered most of the potential users which is good. The cartoon decoration is really good to use on the holiday.

Q: What do you think about the content played on the screen?

I think it's ok. But maybe put less accident news, because the news may impact on their mood of the day.

Q: How do you think the size of the screen?

The size of the screen is ok, but just make the font bigger.

Q: What do you feel about the content? Do you think it should be more detail or just a headline?

Probably, display some cold knowledge about the traffic lights or other cold knowledge

User Testing1 (JIAYU YE)

Jeremy:

Q: Which concept is your favorite one?

Jeremy: The first one (shiny shiny)

Q: Why do you like the first one?

Jeremy: Compared to the other two concepts, the first one is more humanization.

Q: What do you mean by humanization?

Jeremy: I think the function of the other two concepts are useless, while the first concept has some practical functions, such as countdown.

Q: What do you think the first one can be improved?

Jeremy: I think it should be redone because it is already existing. At first, the music part should be improved, it is useless.

Q: Can you tell me the reason?

Jeremy: It influence the mood of people.

Q: Actually, it eases people's mood.

Jeremy: I don't think so. Moreover, deaf people cannot hear the music.

Q: Emm, that is true. If this concept implement on the market, would you try it?

Jeremy: Actually, I already try it in China.

Q: Why you dislike the second one? (Fist Bump)

Jeremy: It is really useless.

Q: What do you think of the third concept?

Jeremy: I think the projection should not be projected on the ground if it wants to prevent people from playing with their mobile phone. Looking down at the projection is same as looking at the mobile phone. Moreover, it's bad for people's spines.

Q: What do you think of the design of the button?

Jeremy: Firstly, the button should be soft. It should give users some feedback when users pressed it.

Q: What do you mean?

Jeremy: For example, the normal button is too hard, I need to use a lot of my energy to press it, it is annoying.

Q: What do you think of the shape of the normal button?

Jeremy: It is unattractive and normal.

Q: What do you think the pedestrian traffic light can be improved? Or maybe what is your ideal pedestrian traffic light?

Jeremy: I think buttons can be designed to be trampled rather than pressed. Why don't you guys think of this way?

Q: Trampled? How about disable people?

Jeremy: I think you can make the button inductive. The button will be pressed automatically when it feels the weight because sometimes, I take a lot of stuff and I do not have free hand to press the button.

Q: I see...

Rex:

Q: Which one is your favorite concept?

Rex: I like the third one (Ground projection)

Q: Why the third one is your favorite one?

Rex: I think the animation on the projection is interesting, it improved my interest of crossing the street.

Q: How do you think it can be improved?

Rex: I think I will feel annoyed if it is time to cross the street and the animation suddenly stops.

Q: If the third concept implement on the market, would you try it?

Rex: Yap, I think so.

Q: Why don't you like the first one?

Rex: It less of technology, I think it is too normal.

Q: What do you think about the second one?

Rex: For me, I don't like cartoons, I like something seriously. Actually, I am not really understanding what the inspiring quotes mean? Is it improve people's mood?

Q: Yap, similar to that. Are you satisfied with the current traditional button on the street? Including the shape and the functionality.

Rex: I think the current traditional button is fine. However, it is not any indication tell you whether the button has been pressed. I think it is annoying.

Q: What is your ideal pedestrian button?

Rex: I hope the pedestrian button can be inductive. You can make a digital or invisible button, when your hand is close to the button, it is pressed.

Q: Haha, high-technology!

Divya:

Q: Which concept is your favorite one?

Divya: I like the Ground Projection, the last one.

Q: Can you tell me the reason?

Divya: Because it is interesting cause it will entertain the person who is waiting. It will also tell you how many seconds and what the current time is. So it is useful. And also for deaf people or something like that.

Q: How do you think it can be improved?

Divya: The projection can be , it can have a map or you can make it more interactive/ Like maybe they can choose what goes on the projection. So it can also have some guide. And maybe you can add some speakers from the previous one. So that if they blind then they can hear. All of your ideas are good, you just need to combine them together.

Q: Which one you dislike more?

Divya: I don't dislike any of them but the kangaroo one, I love the kangaroo's head, like the pressing idea, but I think the notes, a lot of people might not...umm, they just crossing the road and it might create like rubbish around. Some people might drop them on the floor, it's just an idea. Or maybe you can make it as a screen instead and maybe you can have an option to print it and it doesn't print immediately.

Q: Ok, thank you. Do you like the normal street button?

Divya: I guess so. I mean it does its job. Maybe it can have something to do while you waiting because it can get boring and you don't know how long you are going to wait at the light for. I think I like the way it does its job but it is boring.

Q: Yap, Thank you.

Divya: No worries.

Nathaly:

Q: Which concept is your favorite one?

Nathaly: I like the Fist Bump.

Q: Can you tell me the reason?

Nathaly: The shape of the Fist Bump is cute and I think it can help the kids get used to understand how to cross properly when I just run to cross a road.

Q: Which one you dislike?

Nathaly: I don't like the projection one as much because it is too absorbed in looking at what's on the ground. And it turns to green, you may just want to walk without checking, it has some causes on the road.

Q: Do you like the normal street button?

Nathaly: Yap, they are great I mean having a countdown too when it goes green, it is probably a good idea.

Q: What you think that the button of the Fist Bump can be improved?

Nathaly: I don't know, maybe it can be different animals? Maybe it can have koala instead of all kangaroos?

Q: Oh, that is true, thank you so much!

Nathaly: Welcome.

Pairs:

Q: Which one is your favorite concept?

Pairs: I like the Fist Bump.

Q: Can you tell me the reason?

Pairs: Firstly, the shape of the Fist Bump is cute and interesting. I will feel joyful if I see this kind of button, I will be in a good mood. Secondly, the inspiring quotes of the notes will also make me feel warm and it also change my mood, I will feel inspired when I see these quotes.

Q: What do you think it can be improved?

Pairs: Improved? I think using notes may become rubbish if someone does not want that. Maybe you can set up a screen, and the screen shows like news, advertisements, videos and so on.

Q: Why don't you like the first one?

Pairs: I think some people may not know how many seconds does each grid represent and it can be confused. In this way, it is unattractive to me.

Q: How do you think of the current street button in Sydney?

Pairs: I don't think it is good because it does not get fast when I pressed it. Sometimes I did not press but the light still turns to green. In this case, I am not sure what the function it is.

Yvonne:

Q: Which one is your favorite one?

Yvonne: The Fist Bump.

Q: Why do you like the Fist Bump?

Yvonne: The shape of the button is interesting and attractive. people might not forget to press the button with this shape.

Q: What do you think it can be improved?

Yvonne: The notes may be too wasteful, some people may just throw them away. We should protect our earth, right?

Q: Yap, you are right. Why don't you like the Shiny Shiny?

Yvonne: I think it is too complicated for me, I need to calculate how many seconds left by myself, it is difficult. I think the countdown should be shown directly by figure.

Q: How do you think of the normal street button?

Yvonne: Sometimes there is no one press the button and the light will not change, it makes me frustrated.

Q: That is right. Thanks for your interview.

Nancy:

Q: Which one is your favorite one?

Nancy: So far, I really like the Shiny Shiny.

Q: Can you tell me the reason?

Nancy: Just because it can give me visual way of finding out how long I need to wait. And I like there are different ways like sounds and a little thing to see. So when I am listening to music and I can look at that. Or when I am on my phone or I am not looking up, I can maybe hear the sound. And I guess, most of my focus is just like when I cross.

Q: Which one you dislike?

Nancy: I think maybe not dislike but maybe not my top favorite. It is probably the Fist Bump, I guess when I am crossing, I mostly on my phone, so I don't need anything to look at, I just want to be way to cross.

Q: How do you think the normal street button?

Nancy: I think it is ok now but I can imagine if you have difficulty seeing or hearing, it is not as good. And sometimes it has different types, for example, you know the number counting down, it is hard to see that and the orange is very confusing. But in general, it is a bit ok.

Q: If we set our first idea (Shiny shiny) on the market, would you try it?

Nancy: Yap, definitely. I really like the first idea.

Q: Ok, thank you!

Sonny:

Q: What is your favorite concept?

Sonny: The Shiny shiny and the Ground Projection.

Q: Why do you like these two concepts?

Sonny: The Ground Projection shows something different, it shows time, right? Shows time and shows cartoon, it is quite different and unique. The Shiny shiny change the light on the progress bar, for 20 seconds, 40 seconds and 60 seconds, right? So it is commonly different. And if you go to other places, you cannot see this kind of things. It is really nice.

Q: Thank you, and why don't you like the Fist Bump?

Sonny: For this concept, I don't know why, I just don't like that. I think the structure is completely not that much.

Q: How do you think the normal button on the street?

Sonny: It should be changed.

Q: What do you think the problem is now?

Sonny: Problem is that if there is no pedestrian, the traffic light will also turn to green and it wastes time.

Q: If you don't press the button, sometimes it will not turn to green.

Sonny: Yap, that is the problem.

Q: Ok, thank you

Deng:

Q: What is your favorite concept?

Deng: I like the Fist Bump.

Q: Why do you like the Fist Bump?

Deng: I like the fist, I feel it cool. The shape of the button is also nice.

Q: What do you think it can be improved?

Deng: Emm, I don't know.

Q: Which one do you dislike most?

Deng: The Shiny shiny,

Q: Why don't you like the Shiny shiny?

Deng: I feel confused about the green light and the red light, and I am also confused about the grid, I don't know how many seconds it left. I also need to think about how many seconds left by myself.

Q: How do you think of the current street button?

Deng: I think it can tell me how many seconds left.

Q: You think it is better to have a countdown?

Deng: Yap.

Q: Which one will you try if three of them are implemented on the market?

Deng: The Fist Bump, because it is convenient.

Jack:

Q: Which one is your favorite one?

Jack: I think the Ground Projection is nice.

Q: Why do you think it is nice?

Jack: Because it is ornamental compared to the other two concepts. Moreover, it has a countdown, showing the specific time is more intuitive.

Q: What do you think it can be improved?

Jack: I think you can add more interaction.

Q: Which one do you dislike most?

Jack: The Shiny shiny.

Q: Why?

Jack: I think it is too normal and unattractive. I don't think countdown with progress bar is better than the figure countdown, because people do not know the specific time.

Q: How do you think the current street button?

Jack: I think the current street button is too normal and it does not have a specific countdown to remind me.
Q: Which one will you try if three of them are implemented on the market?
Jack: The Ground Projection. Actually, I think the shape of the Fist Bump is also attractive and interesting because it is a kangaroo.
Q: You like its appearance?
Jack: Yap, the appearance is sightly.

User Testing 2 (JIAYU YE)

Ben:

Q: Which concept you like most?

Ben: The comment screen.

Q: Could you tell me the reason?

Ben: I think it is more interactive, making comments is a bit more fun or take a picture, some people may just take picture without comment, that is quick and easy.

Q: What do you think it can be improved?

Ben: I think where the screen is and how people interactive, like physical interaction.

Q: Why the other concept unattractive compared to the comment screen?

Ben: It just looks less developed by the concept.

Q: Which one you would like to try if both of them are implemented on the market?

Ben: The comment one.

Q: What kind of content you want on the screen?

Ben: I am not sure, but I think too many is too much. You can just make 1 or 2 things, so the time, you don't need the time, that is my view.

Q: Ok.

Ben: Because you running for a train, maybe I don't know, but you really just need something interaction and how many seconds you can cross.

Q: Do you prefer the figure countdown or the countdown with progress bar.

Ben: I think the bar.

Q: Ok, that's all, thank you!

Ereina:

Q: Which concept is your favorite one?

Ereina: The sliding screen.

Q: why do you like that one?

Ereina: I think it would be easier having the actual seconds counting down rather than progress bar, for me I prefer exact numbers to tell me how long it would take for me to cross. Also, I don't mind the advertisement. I mean you have to advertise somewhere, right? While the comment screen has message which I think I would not read if I try to go somewhere.

Q: What do you think it can be improved?

Ereina: This one it turns to yellow when someone pressed it? Then how I know I am able to cross?

Q: The light will turn to green if it is time to cross.

Ereina: Ok, Erm probably I would get rid of the advertisement, the screen. I don't think it is necessarily having both...like two things are saying the same thing, instead of the countdown here. Because I think these days people will just look at their phones when they are trying to figure out the weather, the time, and also the countdown because you already set it on the traffic light. So just to simplify it.

Q: What kind of content do you want on the screen? Like games, videos or news?

Ereina: I would say news, like just quick news with headlines, I think people will be into that. I will be more into that rather than...Also the advertisement can be more specific, like here is the University of Sydney, so you could advertise

something like the art gallery event is close by and it is more relevant to where I am. So, I think is news and event, kind of that.

Q: Which one would you try if both of them implement on the market?

Ereina: I would do the sliding screen, I think the figure countdown is a bit more clear than the progress bar.

Q: Which one do you think is more interactive?

Ereina: The comment screen is definitely more interactive because people can write some message like some cute message. In terms of the advertisement, it doesn't have that much.

Q: Thank you!

Xuan:

Q: Which one is your favorite one?

Xuan: Both? I think you can combine these two concepts. Like the countdown of the comment screen change to figure countdown rather than countdown with progress bar.

Q: So you prefer figure countdown?

Xuan: Yes, I think it is clearer. By looking at the bar, I need to spend time to think of what 75% represent...Like I need to calculate the time by myself.

Q: I see, what do you think they can be improved?

Xuan: Just making the countdown of the comment screen to figure countdown rather than progress bar.

Q: Oh, and the shape of our button will change according to the festival, while in the normal day, they are just a button without any decoration. What do you think of this?

Xuan: For crossing the street, I think the most important part are the button and the countdown. I think others are only enhance the interest, while for practicality, a button and a countdown are enough. Others which you want to enhance the interest should based on your target audience.

Q: Do you prefer arrow color change or button color change when you press the button?

Xuan: Both are fine because both remind me that I have pressed the button. For me, I think change the button color may be more intuitive because there is where my eyes are when I press the button. For my personal behavior, I prefer the button color change.

Q: Which one do you think it is more interactive?

Xuan: I think both, but I think the comment screen is more interactive because people can comment whatever they want and they can also like contact with another pedestrian.

Q: Which one do you think is better if they implement on the market?

Xuan: Is the comment screen have advertisement?

Q: No...

Xuan: I see, if you want to put one the market then you need to consider the costs. In this way, I prefer the sliding screen because it has advertisements and you can have some sponsors. Otherwise, you need to pay by yourself.

Q: What kind of content do you want on the screen? Like games, videos or news?

Xuan: I prefer news.

Xiaochen, Weiting:

Q: Which one is your favorite concept?

Weiting: The sliding screen because the figure countdown is clearer.

Xiaochen: Me too

Q: So you prefer figure countdown, right?

Weiting: Yes.

Q: Which one do you like most? Comment, animation or news?

Weiting: I like animation or news.

Xiaochen: For the comment one, if no one comment then it will not have any comment...

Weiting: Yes, it is embarrassing.

Xiaoting: Pedestrian may also not have time to comment. They may also do not have time to read these comments.

Q: Do you prefer arrow color change or button color change when you press the button?

Xiaoting: I think it doesn't matter.

Weiting: Yap, both are fine.

Q: Which concept do you think is more interactive?

Weiting: I think the button is already interactive, like it will turn to yellow when you press it. While the interaction of screen content is almost the same.

Q: What kind of content do you want on the screen? Like games, videos or news?

Xiaoting: I think maybe news.

Weiting: Same as me.

Q: What kind of news?

Weiting: I think you cannot put anything that is irrelevant to traffic because it may cause dangerous. You cannot put anything that is too attractive because pedestrian should mind the car on the road as well.

Wenyang:

Q: Which concept do you like most?

Wenyang: I like the comment screen.

Q: Why do you like that one?

Wenyang: Emm, actually, I think both of them have their length and weakness.

Q: So you think they can be combined?

Wenyang: Yes, I think so. By comparing the screen part, I like the comment screen because the comment part is more attractive and vivid, and the comments are written by other pedestrians. Their comments may be useful, you can read the comment and you may not feel bored when you are waiting. While Comparing the countdown, I prefer the figure countdown, even though the progress bar is good but it doesn't tell me that the exact time I need to wait.

Q: What do you think it can be improved?

Wenyang: I think not only the screen will turn to green when it is time to cross, you can also create some sound that tells people it is time to cross. For example, when you press the button, it will also have a sound remind you like "di".

Q: I see, and do you prefer the button light or the arrow light?

Wenyang: I think maybe arrow because it can emphasize you that you can go straight or something. While I think the button light has less meaning than arrow light.

Q: Which one do you think is better if they are implemented on the market?

Wenyang: Haha, I think it is a good question haha, I don't know how public consider about but I think they may like the animation one, the sliding one because it is more interesting.

Q: What kind of content do you want on the screen? Like games, videos or news?

Wenyang: I think you can see news and advertisements everywhere, like bus stop or train station. While animations or other's comment will make people feel more unique and interesting.

Q: Ok, Thanks.

Yunan:

Q: Which one is your favorite one?

Yunan: I like the comment screen one.

Q: Why do you like that one?

Yunan: At first, it is countdown by using a progress bar, emm, I think for countdown, the figure countdown may better than countdown with a progress bar because it is clear and easy to understand. While overall, I like the comment screen because the content of the screen is more attractive compared to news and animation, people may prefer advertisement like finding something or renting and so on.

Q: Would you use it if it implements in real life?

Yunan: Yap, of course I will.

Q: You feel that is useful?

Yunan: Yap, I think there is a large group of people in the traffic light and most people can see that and comment.

Q: Do you prefer the button light or the arrow light?

Yunan: I think maybe button.

Q: Can you tell me the reason?

Yunan: It is a good question.

Q: Is it your personal habit?

Yunan: Yes, like personal preference.

Q: For the sliding screen, you feel that animation is unattractive to you, so you want something like news, right?

Yunan: Yes.

Q: And you prefer figure countdown, right?

Yunan: Yes.

Q: Why you don't like the progress bar?

Yunan: I think figure countdown is easier to understand and you do not know how many seconds left by seeing the progress bar. Moreover, different people have different understanding of the grid of the progress bar.

Q: Do you think it would be better if the progress bar has figure countdown as well?

Yunan: Of course it will.

Jeremy:

Q: Which one is your favorite one?

Jeremy: None of them.

Q: If you don't like any of them, how do you think they can be improved?

Jeremy: For the progress bar, emm, I think it is difficult for people to understand.

Q: So you prefer figure countdown?

Jeremy: Yes, I think figure countdown is more intuitive, while you need to calculate when it is progress bar.

Q: How do you think of the sliding screen one?

Jeremy: It is difficult to set up and it will cost a lot of money. Moreover, it is too childish because it plays cartoon.

Q: How about if it plays news?

Jeremy: I think I may not read the news.

Q: Which one do you think is more interactive?

Jeremy: I think the comment one because people can comment on the screen.

Q: Which one do you think is better if they are implemented on the market?

Jeremy: None of them. For the comment screen, if someone expresses hate speech, it is bad for social harmony, it will also influence the reputation of Sydney.

Q: How about the sliding screen one?

Jeremy: Too childish and I think it is useless.

Q: What kind of content do you want on the screen? Like games, videos or news?

Jeremy: Of course is advertisement.

Q: Why?

Jeremy: Because you can get some sponsors through advertisements.

Zhongda:

Q: Which one is your favorite one?

Zhongda: May I ask you a question first, are you guys set these concepts around the world or a city?

Q: We want to set it on Sydney.

Zhongda: Sydney, emm, I think at first, you guys need to consider the cost. These concepts are attractive and creative and they have a lot of messages and information for pedestrian, and it is frequently used in a place where there are a large group of people. However, it may cause waste if you set on a place where only a small group of people.

Q: How do you think if we set it around our university? Is it a waste?

Zhongda: Around the university? There are a large group of pedestrians, I think you guys can try. However, you still have another problem, people may stuff on the street even if it is a green light and it may cause a traffic jam. Or on the other hand, no one try your concept because they rushed to class or so on.

Q: Actually, our screen will turn to green if it is time to cross.

Zhongda: Oh, that is a good point. Moreover, I think the function of your concept should be simple and you should focus more on crossing the street. In my personal opinion, it does not need a lot of functions because I am a person who wants to do everything very quickly. I think the screen of the sliding screen is more simply. Another thing is that the button may be damaged if people pressed the button multiple times, so I like the concept of changing the arrow and button's color. Overall, I like your concept.

Q: Do you prefer countdown with progress bar or figure countdown?

Zhongda: Countdown with progress bar because it is intuitive in visual.

Q: While someone may claim that figure countdown will be more intuitive because people may not know what each grid of the progress bar represent.

Zhongda: Yap, definitely. People need to calculate by themselves by seeing the countdown with progress bar, in this way, figure countdown maybe more intuitive. I think it is better to combine these two countdown methods. Or maybe you can make a lot of grid on your progress bar, one grid represents one second and so on.

Q: What else do you think we need to improve?

Zhongda: I think you should set something important and relevant to your concept.

Q: Could you give me an example?

Zhongda: I think maybe some news, which is relevant to the city. Like where the train break down, where the place is fire and so on. I think play animation is unnecessary.

Lucas:

Q: Which one is your favorite one?

Lucas: I think I like the comment screen.

Q: Could you tell me the reason?

Lucas: I like the shape of the button, it shows Australian style. Moreover, it uses progress bar to countdown rather than figure countdown. I think someone may not see the figure very clear and someone may memorize things by using color, in this way, using color may be more intuitive.

Q: While many people think that figure is more intuitive.

Lucas: I don't think so. I think green light represent cross and red light means stop. In this way, color can give pedestrians a warning and tell them whether they can cross the street.

Q: Which concept do you think is more interactive?

Lucas: Must be the comment screen because you can comment and you can look at other people's comments, and you can also scan the QR code.

Q: What do you think of the sliding screen?

Lucas: I think the cost of the sliding screen is too high. For practicability, I don't think that many people will focus on the light of the button. For me, I will just look at the road after I pressed the pedestrian button. Moreover, the light may be damaged because a lot of people are pressing it.

Q: If we really want to set a light, do you prefer arrow light or button light?

Lucas: I think arrow light will be better, but it can just be a reminder tells you that you or someone has pressed the button, rather than tells you that it is time to cross the street.

Q: What kind of content do you want on the screen? Like games, videos or news?

Lucas: I think it depends on the location, and I think it should not be decided by ourselves but decide by advertiser. In this way, you can get some sponsors from the advertiser and it can reduce the cost you should spend. In the financial district, you can advertise some news or message according to finance. In the business district, you can advertise something like discount or so on, in this way, you can get some sponsors. It can meet different kinds of user needs.

Q: What kind of content do you like if we only focus on the function?

Lucas: I also prefer advertisement rather than comment. For practicability, it does not give the user any good feedback when people comment. Or maybe you can combine both of the comment and advertisement together. If you only set comment, someone may disseminate bad speech.

User Testing 3 (JIAYU YE)

Pisithpong:

Q: Do you like this concept?

Pisithpong: I think it will be more interesting than the normal button.

Q: What do you think it can be improved?

Pisithpong: ...

Q: Haha, do you like the news?

Pisithpong: Yap, I think it is good because sometimes you used to wait and you can read some news to get an insight and better to understand what happened around you.

Q: Do you prefer just the headlines of news or you want a little content as well?

Pisithpong: I think maybe just the headlines of news and you can scan the QR code to know more about the content, I think that will be fun because you can continue to read the news on your phone maybe.

Q: Compared to the current button, do you think it is better or ...?

Pisithpong: Of course it is better. The normal one is just for crossing the street.

Q: Which part of this concept is your favorite part?

Pisithpong: I like the information part.

Q: The news?

Pisithpong: The news.

Q: Do you think the size of screen is fine for your or you prefer a bigger size?

Pisithpong: I think the bigger would be better, right? Because we can see better, since in this size, I'm not sure whether the person who stand away from the screen can see it clearly.

Q: That's it, thank you!

Helin:

Q: How do you think our concept different to the current street button? Do you think our concept is better?

Helin: I think it is definitely better. Unless you know whether someone has pressed the button and you can also see the countdown.

Q: What do you think it can be improved?

Helin: I think you can put some big data which shows the accident of people jaywalking or something. Like some news that makes people feel frightened of jaywalking. Or maybe you can put a propaganda video about the harmfulness of jaywalking and the propaganda video should hit people's hearts directly, must be influenced. Or maybe using slider rather than video.

Q: Which part do you think is the most attractive part for you?

Helin: The countdown part, like it shows me how many seconds left. And the yellow light of the arrow is also a nice part because it tells me whether the button has been pressed. As some people may be lazy and they would not press the button.

Q: And everyone is waiting for a long time.

Helin: Definitely!

Q: Do you think the size of screen is fine for your or you prefer a bigger size?

Helin: I think the size is fine. I don't think it's necessary to be too big.

Q: Do you prefer just the headlines of news or you want a little content as well?

Helin: It definitely should have some content, but I think you should put more picture rather than a lot of words because people may not read them in detail when they are waiting for the traffic light.

Q: You are right! Thanks!

Songyu:

Q: How do you think of our concept?

Songyu: I think this idea is very interesting, this is the first time I hear this kind of thing. It is very fun because I can have something to do when I am waiting for the traffic light. Even though it is only 20 seconds or 30 seconds, but it makes me feel less bored.

Q: How do you feel compared to the current street button? Is our concept make some improvement?

Songyu: It is more creative compared to the current street button, it enhances the user's experience visually.

Q: What do you think it can be improved?

Songyu: It can create some sound prompt maybe...like the sound can sound rapidly when it is closed to green light. It can also sound slowly when there is a long green light hour. Like different kind of sound prompt.

Q: How do you think the size of the screen?

Songyu: I think the size of the text on the screen can be bigger and maybe you can add more pictures but less words. Or maybe you can make it scrolling.

Pairs:

Q: How do you think of our concept?

Pairs: I think there are a lot of good things that have been improved. For example, the shape of the button, the decoration of the button will change according to the closed festival, I think it will enhance the atmosphere of the festival. Moreover, you guys also consider the situation of blind people, it makes blind people more convenient as well. Furthermore, I also like the news part because people can see what happened to the bus or train and we can reduce troubles, and we can choose another solution immediately.

Q: How do you feel this concept compared to the current street button?

Pairs: At first, the shape of the button is more creative and attractive. No only a pedestrian button with a single function, but also afford a lot of functions that make pedestrians feel more convenient.

Q: How do you think the size of the screen?

Pairs: I think the size is fine. However, I think the font or the background of the news can be more interesting and attractive rather than just a normal and serious news. What you set here is helping people to feel more relaxed rather than aggravate their pressure. Maybe you can add more pictures and decorations. Expect the serious news and traffic news, maybe can also add some news about entertainment.

Q: What else do you think it can be improved?

Pairs: What else...I think you can also add some sound, maybe not very loud but the pedestrian can hear when they are waiting for the light, sound can be related to the news or maybe some music.

Q: Ok, thanks.

Olive:

Q: What do you think of this concept?

Olive: Yap, it is really good. I think the shape of the button is happiness.

Lucy: It is really a good idea to tell people whether it has been pressed. When I walk to the traffic light, I have no idea whether someone has pressed it, someone has done it.

Q: I see, so is this your favorite part of this concept?

Olive: Emm, my favorite part is the news.

Lucy: Yap, that one is good. Like everyone wants to know whether their train is coming or breaking down or something.

Q: Do you think the size of this screen is fine for you guys?

Olive: Maybe a little bit bigger? If there is a lot of people around, maybe it is hard to read the screen in the far distance.

Lucy: Yap, maybe it just one person is easier, but a lot of people maybe not.

Q: Do you think more text is better or more pictures?

Olive: Probably maybe both, but more pictures.

Lucy: Yap, like the title and pictures is really good because it is really hard to read if it is time to cross.

Q: What do you think it can be improved?

Lucy: Would shape of the button be digital or physical?

Q: It is physical?

Olive: Or maybe I think just making the screen and the text bigger and it help people easy to read...

Q: Ok, thank you!

Can:

Q: How do you feel this concept compared to the current street button?

Can: I think the braille cannot be put on the side, it is inconvenient for blind people. Maybe you can make it bigger or maybe put it on the front where is easy for blind people to touch.

Q: What do you think of the size of the screen? Do you think it should be bigger?

Can: I think there is too much text. I need to catch the most important information since I have only 1 minute for waiting for the traffic light and I cannot read the whole news. Moreover, I only want to know the news that is relevant to me.

Q: Which one is your favorite part?

Can: I think maybe the countdown because it is useful for me.

Q: What do you think of the content of the screen? Would you like some other thing except news? Or you like news?

Can: I like your previous concept which is the animation.

Q: You like animation?

Can: I think projecting on the ground is very cool. I think screen is more expensive.

Q: Oh, that's right. Thank you

Sreejit:

Q: What do you think of this concept?

Sreejit: I mean this is for pedestrian, right?

Q: Yes.

Sreejit: Yap, it could work. I was a bit confused about how the shape of the button affect pedestrian?

Q: It enhances the atmosphere.

Sreejit: Fair enough...If I press the button more time, would the light be faster or I just need to press once.

Q: Just press once

Sreejit: Oh yap, that is convenient because in Sydney today, most people think that the time will change when they press the button but it doesn't change.

Q: What do you think it can be improved?

Sreejit: I definitely think that in this situation, maybe you can improve how it gives you that how many people will cross at the same time. Like say, if it is not enough time for 20 people to cross and you need to set some priorities for some elderly or children.

Q: Oh, yap. Do you think the size of the screen is fine or?

Sreejit: Slightly bigger because if someone standing over that, or a group of people, they may not see.

Q: What do you feel about the content? Do you think it should be more detail or just a headline?

Sreejit: If there is a bigger screen then you can give them some content but no a lot, otherwise you may distract people, but you don't want to distract people, right?

Q: Yap, that is true, thanks

Nick:

Q: What do you think of this concept?

Nick: I think it is a cool idea, I haven't seen a traffic light like this certain use and it tells other the button has been pressed, and also the braille which helps the blind people.

Q: What do you think it can be improved?

Nick: I think that is...I am not sure these shapes of the button?

Q: It just tells other the festival is coming and enhance the atmosphere of the festival.

Nick: Oh, I like that idea.

Q: Do you like the size of the screen?

Nick: Will it be on the top of the button?

Q: Yap

Nick: It should a reasonable high. Or maybe it is hard for some short people or some children to see it because it is too high for them?

Q: Yap, it is difficult to see. How do you think of the size?

Nick: if you want to set on the pillar, then the size is fine. It depends what you want to show, you want to show news, I think it needs some more space fit on the screen. I think maybe a bigger screen.

Q: For the news, do you think it is ok just a headline or you want some content as well?

Nick: Maybe like a brief description and some summary or maybe some pictures.

Q: More pictures?

Nick: I think maybe 1 or 2 pictures and some quick description, or maybe they want to see more news then they can scroll down or something.

Yvonne:

Q: How do you think of this concept?

Yvonne: I like the news part because it shows a lot of daily news. Sometimes I do not have time to read the news then I can read the news when I am waiting for the traffic light. It also makes me having something to do while waiting for the light.

Q: Do you think it has some improvement compared to the current street button?

Yvonne: Definitely. Especially the color of the arrow, it gives me some reaction when I press the button and I can also know whether someone has pressed the button, it is more convenient for me.

Q: What do you think of the size of the screen? Is it too small or fair enough?

Yvonne: I think maybe you can make it bigger because other pedestrian who standing far away may not able to see the content of the screen.

Q: How about the font size or the content of the news?

Yvonne: I think it should not be too much text because I may not have time to read. Moreover, if there are a lot of people, a big headline can make everyone read the news, while small and heavy text may be difficult to read.

Q: What else do you think it can be improved?

Yvonne: I think maybe you can create some sound according to the traffic light? Like a sound prompt or something.

Q: Ok, thanks

User testing 1(YIQI):

Nigel

Q: What is your opinion on the three concepts?

concept 1:

The traffic light button is a lossy product because the switch is easily damaged during use. The LED light you designed does not guarantee the service life. I think you can keep the shape of the traffic light button. You can create the arrow above the button as an LED light. I think that the vulnerable buttons need to add too much design, and it is easy to reduce the service life.

Regarding the sound, if there are multiple pedestrian traffic lights at an intersection, it is easy to cause interference, which will be a bad user experience for pedestrians. The design should reflect the problems that the product needs to solve most. The tip light above the button can be a little bit added so that pedestrians can understand it more easily.

Concept2:

There is no guarantee of the amount of paper produced per day and the supply of ink. If there is no paper, who will replace it? If you change to the LED screen, you need to consider the size of the text and because each person will display different text after pressing. If many people press at the same time, how to solve it.

I don't think the shape doesn't matter, because for public transportation, the design should be simple. Can be replaced on holidays

Concept3:

I don't like the projection. According to different people's hearts, there will be non-stop user experience, and some people do not like the feeling of being projected. I think that if it is better to switch to the LED screen on the ground, the current technology can also be achieved. You can play an animation, or you can become an ad slot. Regarding the countdown system, because Sydney's traffic light mechanism is different, the waiting time will be adjusted according to the road conditions, so the countdown time may also need to be different.

Q :Which concept do you like the most?

I think the simpler the better, so I like the first one

I don't like the second one, because it is unrealistic, I can't guarantee paper, ink, etc.

I think the traditional button can add one, after the person presses the feedback,

The first and third can be combined, the countdown does not have to be on the ground, it can be the timing of the arrow from no color to gradually green.

Summary:

Concept1 :

The design of the LED light does not guarantee the service life.

I want to keep the original shape of the button

At the crossroads, the way to play music is easy to cause trouble for pedestrians.

Concept2:

Unable to guarantee the amount of paper output and ink supply

For public transportation, I hope that the design is simple, and the cartoon design can increase the holiday atmosphere on holidays.

Concept3:

Don't like the feeling of being projected

Projection replaced with LED screen is better, you can play animation and wave advertising

The overall design hopes to add a feedback after pressing the button

The first and third can be combined, the countdown does not have to be on the ground, it can be the timing of the arrow from no color to gradually green.

Gorge:

Q: Which concept do you like the most?

I like the first one the most, because the first one is simple enough, and you don't need to pay too much attention to this place. People don't like to have too many western medicines when they cross the road. For example, like the third concept, I think it is not suitable, and the second concept is more likely to be damaged, because the kangaroo ear is a flaky thing, it is easier for the pedestrians to be injured, and the production cost will be higher, the future The running price will also be high. First of all, you have to ensure the supply of paper and ink. If there is no paper, or the machine is damaged, it will be a bad user experience if people do not press the paper after pressing it. So I think the first concept is excellent. He is straightforward. He doesn't need too complicated operations, and it can bring a certain amount of fun. I think the only thing that needs to be improved is that the design of the lamp can be more interesting. Into a small game, you can do some fun games based on the length of the button.

Q: If this concept put on the street, would you try it?

Yes, i will.

Q: Which concept do you prefer less?

I think that the third design, because it is projected on the ground, it will be dangerous to keep bowing, and people's attention is on the ground, and it will be impossible to observe the situation around the left and right. This design is only feasible if there is only a pedestrian walking and no vehicle.

Q: Are you satisfied with the traditional button design? How do you for improvement?

I don't feel durable with the traditional buttons. Your design also needs to be designed with durability in mind to minimise costs, otherwise the government will have to spend a lot of money on it each year. Because considering that this design requires long-term exposure to the outdoors, sun and rain, if you do too much design, animation and the like are easily damaged. For example, the lights you design, this is the most easily destroyed by nature, not to mention the artificial destruction. So the material of this lamp needs more research

Sum up:

I like the first one most. I don't want to spend too much time to go to other places when crossing the road.

Concept1:

Simple does not require complicated operations, does not change people's existing habits

Concept2:

The second design is more susceptible to damage, and the design of the ear may accidentally injure passers-by and cost a lot of production.

High operating costs in the future, unable to ensure the supply of paper and ink

If the machine is damaged, or if there is no paper, it will give the pedestrian a bad user experience.

Concept3:

Attention is dangerous on the ground and cannot be noticed around

Can be used on roads where only pedestrians pass or no cars

For the future ideas of our design:

Ensure durability, considering that this design requires long-term exposure to the outdoors, sun and rain, and if you do too much design, animations and the like are easily damaged. For example, the lights you design, this is the most easily destroyed by nature, not to mention the artificial destruction. So the material of this lamp needs more research

Think traditional buttons are not durable, no feedback

Ye Xiao:

Q: Which concept do you like the most?

I like the last one the most, because the first design has a similar design in Sydney. The second design is too drama, and it is impractical for everyone to vomit a note after pressing it, because there is a lot of traffic in the city centre. The countdown to the third design will give people some hope.

Q: If this concept put on the street, would you try it?

I will choose the first one because it is the simplest and most reliable. The third design, the cost of input will be very large, and the design of the ground projection, which can only be seen by the pedestrians in the first row, if the pedestrians standing behind can not see. The first one designed his tip light above the button, which can be seen by many people.

Q:Are you satisfied with the traditional button design? How do you for improvement?

I think it's good about timing design, because it can reduce the anxiety of people waiting. Most people will feel that waiting time is long when you don't specifically tell the waiting time, but you only need to tell people the specific waiting time, people will feel that time passes quickly.

Summary:

I like the last one, because the design of the countdown can reduce the anxiety when waiting for the traffic lights.

Concept2: *The design is impractical, the traffic in the city center is large, and it is impossible to ensure normal operation.*

Concept3: *The cost of input is large*

The design of the ground projection cannot be seen by everyone.

Tiffany:

Q:Which concept do you like the most?

I prefer concept1 and concept 3. Let me first talk about the second place is not very good, for example, when people have a lot of things in their hands, it is difficult to have extra hands to get the note. The first design for me, I clicked the button and I saw that the indicator light slowly turned green, very effective. I like it very much. The projection of the third design, I think it is suitable for children, so that they will not be bored while waiting.

Q:~~SEP~~ If this concept put on the street, would you try it?

I think the second and third designs are suitable for places where there is less traffic. The third design will reduce the number of places where you can wait for the traffic lights, and if the children are fascinated, there may be dangers and safety hazards.

Q:Are you satisfied with the traditional button design? How do you for improvement?

For the current traffic light button, I don't know how he calculated the time. And sometimes I am more anxious to keep pressing the button. If there is a countdown device, it will reduce my anxiety.

Sum up:

I like concept1 and concept3,

Because the first design can see the red light reduction process, it is very effective. The third design is suitable for children, so they can concentrate on waiting for the traffic lights

Concept2:

When there are a lot of things in your hand, there is no way to get a note.

Suitable for places with low traffic

Concept3:

Suitable for areas with low traffic

Projection design reduces the position of the waiting area

People are fascinated, there may be security risks

For the current traffic lights: I don't know when I waited, no feedback

Saisai Li

Q:Which concept do you like the most?

I like the third one the most, because many people are waiting for the traffic lights to be boring, they will choose to watch the mobile phone to pass the time, and then this design will arouse people's interest, thus reducing the use of mobile phones, will make the waiting time become very fast, no Will feel bored. But the only drawback is that keeping your head down is not good for the cervical spine.

Q:Which concept do you prefer less?

I think is the first design, because he only has one cue light, it is boring, he can't let people kill time. The second design also has a certain sense of interaction.

Q: What do you think needs improvement?

For the third design improvement I think that the projection is replaced by a screen next to the button so that people don't have to keep their heads down. But there is also a need to solve problems that can be seen by more people.

Summary:

I like the third one, it is very attractive to me, let me reduce the use of mobile phones.

Don't like the first one, it's boring

Concept1: It's boring, it can't solve the problem that i am bored when waiting the traffic light.

Concept3:

This design will make me feel that the waiting time is very fast.

Always bowing to the cervical spine is not good

Projection is replaced by a screen next to the button

Yuhang Zhan:

Q: Which concept do you like the most?

I like the second one the most, because the last design, looking down at the projection and playing the phone is the same, and the effect of the projection during the day will have an impact. When there are many people, people may step on the projection, which will also reduce the user experience. The second design, if there is a lot of things in hand, there is no way to get the paper. However, I like the image of the kangaroo very much. I have made the traffic light very rich. If you can design different series and different animals, people will have more interest. The first design of the sound, on the noisy road, may not be heard, will not achieve the original effect.

Q: What do you think needs improvement?

The third design would be better if it could be turned into no need to look at the ground. I think the first design is very similar to the existing facilities, there are not many innovations.

Q: Are you satisfied with the traditional button design? How do you for improvement?

Because the button is a public facility, when the usage rate is too high, the button will not be very easy to push, and it will be very inconvenient when carrying a lot of things in your hand.

Summary:

like the second concept

Concept1:

Design is very similar to existing ones

Concept2:

When there is something in hand, there is no way to take paper.

Kangaroo design can make traffic lights interesting

Concept3:

Looking down at the projection and playing the phone is the same.

Daytime projection will be affected

When you have a lot of people, you may step on it and affect the experience.

For the current button:

When the usage rate is too high, the button will not be very good.

It is very inconvenient when carrying a lot of things in your hand.

Ziqing Zhang:

Q: Which concept do you like the most?

I like the third one the most, because the third one is more interesting, and the last green tip is also very clear, its display is obvious, clearly telling me what I need to do. The first design of the indicator light is too small, not obvious. I think the

projection can put some interesting videos such as the funny collection on YOUTUBE, or you can advertise and rent, which can subsidise the government's investment.

Really realized in the future, the third design is the most achievable, because the advertising can be placed, the government can recover the input cost.

Q:What do you think needs improvement?

You can design one to hang on the side of the column. Because people are always looking at the ground while waiting for the traffic lights, not knowing the surrounding situation is a dangerous thing.

Q:Which concept do you prefer less?

I don't like the second one the most, because he doesn't have the most basic display, doesn't tell me what I want to do, and the display is unclear and confusing.

For the first design, it is more moderate and similar to the existing one.

Summary:

I like the third one the most, because it is more interesting, and the final green tip is clear.

I don't like the second one at all. There is no basic display.

Concept1:

The indicator light is too small, not obvious

Moderate design, no attraction

Concept3:

Projection can affect by the time

Can put some interesting videos or advertisements, the government can recover the cost

Improvement: Do not put on the ground, set a screen on the side of the column

Gary

Q:Which concept do you like the most?

I like the second one the most, because it can reduce the time people spend playing mobile phones, and reduce the boring time of waiting for red lights. However, the printed paper will eventually become garbage, which will have a certain impact on the environment. The third is not suitable for use in Australia, because Australia has plenty of sunshine during the day and will have a great impact on projection. And looking down at the projection and playing the phone is no different. The first designed sound, if there are a lot of traffic lights at an intersection, if it is the same music, people will be confused, if the different music overlap, it will be noise.

Q: What do you think needs improvement?

The first design of the cue light can be placed across the road, which makes it easier to look at.

Q:Are you satisfied with the traditional button design? How do you for improvement?

I want to have a button that can be kicked, because there are many situations where I have a lot of things in my hand and I don't have to press the button..

Summary:

I like the second one, which can reduce the time spent playing mobile phones.

Concept1:

Sound, if there are a lot of traffic lights at an intersection, if it is the same music, people will be confused, if different music overlaps, it will be noise

Concept2:

The printed paper will become garbage and have a certain impact on the environment.

Concept3:

Not suitable for use in Australia, because Australia has plenty of sunshine during the day, which will have a great impact on projection.

Looking down at the projection and playing the phone is no different.

Ying song

Q: Which concept do you like the most?

I like the second one the most, because the image of the kangaroo is more interesting, but it can be further development. It can be a small game, it can be a game machine, it will be more interesting.

Q: Which concept do you prefer less?

I think all three designs are OK, but the first design, the design of the music will be strange, because, but he has visualisation, the design of the indicator light is very good, because the existing button, press the button does not respond, everyone I don't know if I pressed it.

The projection of the third design, he kept looking down and looking at the projection and playing the phone is no different.

Q: Are you satisfied with the traditional button design? How do you for improvement?

For the existing buttons in Sydney, it feels annoying, because there is no feedback, I don't know if I have pressed it or not, and I don't know how long it will take.

Sum up:

I think the image of the kangaroo is very interesting.

Concept1:

Don't like the design of music

Like the design of the tip light

Concept2:

Unable to guarantee the amount of paper output and ink supply

Designing into a game will be more fun

Concept3:

It's no different to look down at the projection and play with the phone.s

For the existing buttons in Sydney, it feels annoying, because there is no feedback, I don't know if I have pressed it or not, and I don't know how long it will take.

Dang sen

Q: Which concept do you like the most?

I think the first design is easy to understand and practical. But the most favourite because the second is more interesting, more like the Japanese gashapon machine, can not be limited to the paper, I like reading text, it can be other things. And it may not be clear at night.

Q: Are you satisfied with the traditional button design? How do you for improvement?

The idea of an existing button, the lack of a timing thing and there is no feedback at all.

Sum up:

Concept1: Simple and easy to understand, the most practical

Concept2: Design is more interesting

Can be not limited to paper strips

May not see clearly at night

The idea of an existing button, the lack of a timing thing and a feedback do not know if there is any

concept 1 4 people

concept 2: 3

concept 3 : 3

concept1:

concept2: 4

concept3:

User Testing 2(YIQI):

Nigel:

Q: Which concept do you like? why?

I like the second concept because it uses public resources reasonably, and it provides a medium for information dissemination that allows people to get information through that display while waiting. At the same time, it provides a way to generate revenue for the Australian public transport system.

Q: What improvements do you think need to be made?

No QR code is needed, because it is not necessary, everyone waits for the traffic light for a short time, generally do not go back to scan the QR code. An entire screen, such as advertising, weather and other information can be broadcasted in the form of subtitles. Because too small a screen is not convenient for people to accept information.

Q: Why does the other one not attract you?

Because of the first design: writing comments, it takes a long time. I don't want to spend too much time when crossing the road. Public transportation needs to provide a platform for people to accept information, rather than a platform for information exchange, because the unidirectionality of information dissemination is easier to achieve, and the two-way is not well controlled. For example, if some people leave a message that is negative and relatively provocative, it is impossible to control the spread of this information.

Q: Which of the two concepts do you think is more interactive?

The first concept

Q: If both are on the street, would you choose to try that?

The second concept

Q: What do you want to display on the screen?

I think the news is more public welfare, and it can also be public service advertisements. This depends on the idea of the public transport sector.

Q: Do you prefer digital countdown or precision bar countdown?

The progress bar counts down. I don't need to know the specific time. I just need to know where this precision bar is.

Q: Do you prefer the button to light or the arrow to light?

The arrow lights up, because the button can't control the loss possibility.

- No QR code is needed, because it is not necessary, everyone waits for the traffic light for a short time, generally do not go back to scan the QR code.

Writing comments, it takes a long time.

For example, if some people leave a message that is negative and relatively provocative, it is impossible to control the spread of this information.

I think the news is more public welfare, and it can also be public service advertisements.

I don't need to know the specific time. I just need to know where this precision bar is.

I prefer the arrow lights up, because the button can't control the loss possibility.

Gary

Q: Which concept do you like? why?

I like the second design because I don't have much time to write a message when I waiting for the traffic light, and the message can't control the content of people's messages. And I like the digital countdown in the second design, concise and clear, let me know the specific time I need to wait.

Q: What improvements do you think need to be made?

Content can be diversified, such as daily major news, traffic information, etc.

Q: Why does the other one not attract you?

I said before, waiting for the traffic lights is very short, maybe I have not finished writing the message and the time is up.

Q: Which of the two concepts do you think is more interactive?

I think the first concept is more interactive.

Q: If both are on the street, would you choose to try that?

The second concept.

Q: What do you want to display on the screen?

Daily news, traffic information, etc.

Q: Do you prefer digital countdown or precision bar countdown?

I like digital countdown, more intuitive

Q: Do you prefer the button to light or the arrow to light?

I don't care, there is no big difference for me because I only need one such feedback.

I don't have much time to write a message when I waiting for the traffic light.

It is hard to control the content of people's messages.

I like the digital countdown in the second design, concise and clear, let me know the specific time I need to wait.

Content can be diversified, such as daily major news, traffic information, etc.

I like digital countdown, more intuitive

JingZhu Lin:

Q: Which concept do you like? why?

well ,I like the number countdown system and the progress bar, but I don't like the message board. I also like the screen of the second concept. I don't like the message board because I don't have time to write a message when I wait for the traffic light. I will not go to write a message.The reason I like the second one is that after I press the button, I can simply appreciate it, don't need to participate, and if I have a lot of stuffs in my hand and I don't have a mobile phone, I can't write a message.

Q: What improvements do you think need to be made?

I want to turn the countdown of the second design into a progress bar.

Q: Why does the other one not attract you?

Because I am more like the countdown of the precision bar, but i don't like the common board.

Q: Which of the two concepts do you think is more interactive?

The first one is more interactive.

Q: If both are on the street, would you choose to try that?

The second one

Q: What do you want to display on the screen?

Maybe some animation or daily news.

Q: Do you prefer digital countdown or precision bar countdown?

I like the progress bar countdown

Q: Do you prefer the button to light or the arrow to light?

I prefer the arrow to light up, the colour doesn't matter.

I don't like the message board because I don't have time to write a message when I wait for the traffic light.

If I don't have a mobile phone, I can't write a message.

Maybe some animation or daily news.

I prefer the arrow to light up, the colour doesn't matter.

Shining:

Q: Which concept do you like? why?

I like the first concept, because I can see the comments from different people, it is very interesting, I can know the thoughts of different people. And the second design to play news, I can see more clearly on the phone.

Q: What improvements do you think need to be made?

The improvement can be that designing a screen allows people to write messages directly on the screen, because scanning the QR COAD with a mobile phone and entering it is very troublesome for me. The handwritten message is similar to graffiti, which makes people feel very interesting. Secondly, I don't want to upload my own photos.

Q: Why does the other one not attract you?

The reason why the second design doesn't appeal to me is that I can also see the news on my mobile phone, although it has some convenience.

Q: Which of the two concepts do you think is more interactive?

The first one is more interactive

Q: If both are on the street, would you choose to try that?

The first concept.

Q: What do you want to display on the screen?

N/A

Q: Do you prefer digital countdown or precision bar countdown?

I like the countdown of the precision bar, more visual, but I suggest you can combine two countdowns.

Q: Do you prefer the button to light or the arrow to light?

I prefer the arrow to light up and combine the colour of the traffic lights.

I can see the comments from different people, it is very interesting,

scanning the QR COAD with a mobile phone and entering it is very troublesome for me.

I like the countdown of the precision bar, more visual, but I suggest you can combine two countdowns.

I prefer the arrow to light up and combine the colour of the traffic lights.

Alex:

Q: Which concept do you like? why?

I like the second design because it combines the most important information on one screen, making it easy to see at a glance. The second point is because I prefer to watch the news, and the time for waiting for the traffic lights is short, writing a message maybe not have enough time, so the simpler the operation, the more attractive it will be.

Q: What improvements do you think need to be made?

I hope that the design can be more interesting, such as designing some small games. A small game that can be completed in a short time. A game in which people can participate.

Q: Why does the other one not attract you?

I do not like write commons .

Q: Which of the two concepts do you think is more interactive?

For the interactive is the first concept, but i don't like that.

Q: If both are on the street, would you choose to try that?

The second one.

Q: What do you want to display on the screen?

Maybe some games introduction videos.

Q: Do you prefer digital countdown or precision bar countdown?

I like digital countdown, more intuitive, accurate bar countdown does not have an accurate time concept

Q: Do you prefer the button to light or the arrow to light?

I like the button to light up.

it combines the most important information on one screen, making it easy to see at a glance.

The time for waiting for the traffic lights is short, writing a message maybe not have enough time.

Maybe some games introduction videos.

I like digital countdown, more intuitive, accurate bar countdown does not have an accurate time concept

I like the button to light up.

Yixi Zhai:

Q: Which concept do you like? why?

I feel that each has its own advantages. It is best to combine the two. However, I think the message board is not meaningful.

Q: What improvements do you think need to be made?

Maybe put some important news on the screen.

Q: Why does the other one not attract you?

I think the kangaroo's outer shell is too figurative and maybe design more different images.

Q: Which of the two concepts do you think is more interactive?

The first one

Q: If both are on the street, would you choose to try that?

Maybe both? Lol

Q: What do you want to display on the screen?

I think can put some important news on the screen, because the traffic lights are in a specific place, so I can put some surrounding information such as event information.

Q: Do you prefer digital countdown or precision bar countdown?

I like the progress bar countdown, that user communication is better.

Q: Do you prefer the button to light or the arrow to light?

I like the button to light up, more direct feedback.

It is best to combine the two.

I think the message board is not meaningful.

I think the kangaroo's outer shell is too figurative and maybe design more different images.

I think can put some important news on the screen.

I like the progress bar countdown, that user communication is better.

I like the button to light up, more direct feedback.

Susuan Yu:

Q: Which concept do you like? why?

i like the second one more, because it is lot more simpler , it has a better count down system ,and the comment has a lot of to read , by time consuming ,like when i press the button and then it only have 20 seconds to wait , and there is a hole board comments to read ,i don't have the time to finish that. The second concept, when i pressed the button , it will show a short animation or something else , it has more fun as well . The comments is also very dangerous because the comments can be positive or negative, it might be some extreme people just talking about the government or whatever or could be some very bad comments . The animation can be more easy to control by the company to do advertisement or those stuff .

I like to know where i am because if i am a tourism, i don't know where i am and i look to the screen i can find out where i am that is good .

Q: What improvements do you think need to be made?

Maybe the lights, can be more coloration , like red to stop, yellow to wait and green is free to go .

Q: Why does the other one not attract you?

Even in Australian, the kangaroo is too drama for me .

Q: Which of the two concepts do you think is more interactive?

The fist one.

Q: If both are on the street, would you choose to try that?

if i want to try for fun ,i will try the first concept, because it is more fun to read others comment, but if it is more efficient , i will try the second one , because it is much more easy to cooperate.

Q: What do you want to display on the screen?

Animation is good.

Q: Do you prefer digital countdown or precision bar countdown?

i like the number count down system because i can know the exact time i need to wait.

Q: Do you prefer the button to light or the arrow to light?

I like the arrow turn to the yellow more, because the button when you push it is cool have the light on but i like the arrow more.

I like the second one more, because it is lot more simpler

Comment has a lot of to read , but the waiting time is short.

show a short animation , it has more fun as well.

Even in Australian, the kangaroo is too drama for me .

Animation is good.

I like the number count down system because i can know the exact time i need to wait.

I like the arrow turn to the yellow more

zhengyu:

Q: Which concept do you like? why?

I like the second design, because the second design doesn't take a lot of time to participate. I might watch the content on the screen when I wait for the traffic lights, if I don't want to watch it, then I don't watch it, it is more free. Write comments will take me a lot of time. Because the time may be just one minute when waiting for the traffic lights, there is no time to write a message seriously.

Q: What improvements do you think need to be made?

I don't think that the design of QR code is needed, because if there are many people waiting for the traffic lights, many people want to scan the QR code at the same time, the button will be crowded with people nearby, and there will be certain security risks.

Q: Why does the other one not attract you?

The first design was very creative but like I just said, there is no time to read the messages written by others and there is not enough time to write a message.

Q: Which of the two concepts do you think is more interactive?

The first one but i do not like that.

Q: If both are on the street, would you choose to try that?

The Second one.

Q: What do you want to display on the screen?

Maybe some traffic information.

Q: Do you prefer digital countdown or precision bar countdown?

I like the digital countdown. I want to know the specific time I need to wait. I like the feeling of my own control.

Q: Do you prefer the button to light or the arrow to light?

I think the arrow lights up better because the button will be pressed by many people every day and it is easy to be damaged.

There is no time to read the messages written by others and there is not enough time to write a message.

I like the second design, because the second design doesn't take a lot of time to participate.

I don't think that the design of QR code is needed.

Maybe some traffic information.

I like the digital countdown. I want to know the specific time I need to wait. I like the feeling of my own control.

I think the arrow lights up better because the button will be pressed by many people every day and it is easy to be damaged.

Gorge

Q: Which concept do you like? why?

I like the first design. I think write comments are very interesting. I can write some moods of the day. Interesting things are on the message board. It is also very interesting to read other people's messages. I can find out what others are thinking and I find it very interesting.

Q: What improvements do you think need to be made?

Because the message may have uncertainties, such as some extreme messages, you can design a filter to filter to those not very good messages.

Q: Why does the other one not attract you?

The reason why the second design is not very attractive to me is that I think the content on the screen can be known on the phone, there is no need to look at the screen.

Q: Which of the two concepts do you think is more interactive?

Both are interactive i think.

Q: If both are on the street, would you choose to try that?

I will try the first one .

Q: What do you want to display on the screen?

Maybe news? I don't know

Q: Do you prefer digital countdown or precision bar countdown?

I hope to combine two countdowns

Q: Do you prefer the button to light or the arrow to light?

I think the button lights up better because I turn it on when I press it, it is a quick and intuitive feedback.

I think write comments are very interesting

write comments may have uncertainties, maybe design a filter.

I think the content on the screen can be known on the phone, there is no need to look at the screen.

I think the button lights up better because I turn it on when I press it, it is a quick and intuitive feedback.

Ye Xiao

Q: Which concept do you like? why?

I think both designs are good, but I prefer the second one. The simpler the design, the better. I think the message board is good insight, but it is too much trouble for me. I would not like to participate in that. The second design is much simpler and more straightforward, and I prefer the way of digital countdown. The first way to design this progress bar is that I may not know the exact time and I will be anxious.

Q: What improvements do you think need to be made?

In the second design, you can remove the QR code. I don't think it is necessary, because if you scan the QR code and continue to watch the news on the mobile phone, it will be dangerous, and it is not convenient to sweep when there are many people. QR code

Q: Why does the other one not attract you?

As I said before, the design of the message is too cumbersome, and there is not so much time to write a message when the traffic lights are waiting.

Q: Which of the two concepts do you think is more interactive?

I like the second one.

Q: If both are on the street, would you choose to try that?

The second one.

Q: What do you want to display on the screen?

Some daily news and traffic information.

Q: Do you prefer digital countdown or precision bar countdown?

I like digital countdown

Q: Do you prefer the button to light or the arrow to light?

I think the arrow lights up better, the color doesn't matter.

.I think the message board is good insight, but it is too much trouble for me, and there is not so much time to write a message when the traffic lights are waiting.

The second design is much simpler and more straightforward.

I prefer the way of digital countdown. The first way to design this progress bar is that I may not know the exact time and I will be anxious.

In the second design, you can remove the QR code. I don't think it is necessary, Some daily news and traffic information.

I think the arrow lights up better, the color doesn't matter.

User Testing 3(YIQI):

Lisa

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?

I think it is a very interesting concept, it makes the experiences more enjoyable, and it shows how much time you are waiting for.

Q: Is there anything need to be improved?

Maybe like options of what kind of news, like global news, Australia news .

Q: What do you think attracts you most in this concept?

The timing things i think is the greatest thing in this concept.

Q:What do you think of the content playing on the screen?/5. Do you think the screen is the right size?

I think the screen needs to be bigger.

Q:Do you think it is necessary to broadcast the main content of the news besides the headline?

I think the Headline is more important than the descriptions.

is a very interesting concept, makes the experiences more enjoyable

it is good shows how much time you are waiting for.

I think the screen needs to be bigger.

I think the Headline is more important than the descriptions.

Saisai:

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?
This design has improved my user experience, and it allows everyone to spend time waiting for the traffic lights. I think this design is good because nowadays everyone is watching the news on the mobile phone. With this design, when waiting for the traffic lights, it can reduce the chance of people playing mobile phones.

Q: Is there anything need to be improved?

It would be better if the screen is bigger

Q: What do you think attracts you most in this concept?

The shape outside the button is very attractive to me, and it would be better if there could be more different cartoon characters. In addition, the arrow lights up yellow light is also very good, because the current traffic light button has no feedback, people do not know whether it is successful.

Q: What do you think of the content playing on the screen?

I think the news is good. It can add some content as appropriate.

Q: Do you think the screen is the right size?

I think the screen need to be bigger

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?

Maybe only some main points

1. *The design of the screen can reduce the probability of people playing mobile phones while waiting for traffic lights*
2. *The screen need to be bigger.*
3. *The shape outside the button is very attractive to me*
4. *The yellow light on the arrow is also very good, because it has feedback.*

Issai Mei:

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?
yeh it will improve the user experience, you know how long you waiting for. people don;t need to push the button all over the times.

Q: Is there anything need to be improved?

I don't think the Santa Claus is necessary .

Q: What do you think attracts you most in this concept?

the count down system and the pointing arrow

Q: What do you think of the content playing on the screen?/5. Do you think the screen is the right size?

I am not sure the screen is the right size, because if there is only one person waiting for the traffic light this size is Ok , but if there are multiple people at the same time , it might feel a little small

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?

it is better to have a list of text , it should be the font size make it bow that people can see it.

I can know how long you waiting for don't need to push the button all over the times.

I don't think the Santa Claus is necessary .

If there are multiple people at the same time , the screen is a little small

better to have a list of text , it should be the font size make it bow that people can see it.

Yuqi

Q:Do you think this concept has improved your user experience compared with the existing traffic lights?
Yes it improves, this design can prevent people from repeatedly pressing the button, and the design of the screen allows people to spend time waiting for traffic lights.

Q: Is there anything need to be improved?

Large-scale investment, will the cost be too high? I think that you have considered the safety aspect very well, because the countdowns you set are very large and will not let people look together because they can't see them.

Q: What do you think attracts you most in this concept?

The place that appeals to me is that the arrow above will light up after the button is pressed.

Q: What do you think of the content playing on the screen?

I think the news is very good for the public.

Q: Do you think the screen is the right size?

It would be better if the screen is larger.

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?

I think the only have the title is OK. I don't need much content, because the time for waiting for the traffic lights is very short, and it may not have enough time to read.

1. *The place that attracts me is that the arrow above will light up after the button is pressed.*

This design prevents people from repeatedly pressing this button

2. *The design of the screen allows people to spend time waiting for traffic lights.*

3. *Large-scale investment, the cost will be high.*

4. *The title map can be used. It doesn't require much content.*

5. *The screen will be better if it is bigger.*

LIn:

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?

I have improved my user experience, and I feel that this design is fascinating. The countdown is striking, I can see the time I need to wait at a glance.

Q: Is there anything need to be improved?

I think the screen is a bit small. If you are far away, you can't see it clearly. You can be bigger. In addition, what if the blind person can't see it?

Q: What do you think attracts you most in this concept?

The shape outside the button is very attractive to me.

Q: What do you think of the content playing on the screen?

I think it's not just news, it can be a little publicity to protect the environment.

Q: Do you think the screen is the right size?

I think the screen is a bit small. If you are far away, you can't see it clearly. You can be bigger. In addition, what if the blind person can't see it?

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?

I think that as long as there is a news headline is ok, you can design a QR code. If anyone wants to know the specific one, you can scan the QR code to understand.

1. *The countdown is striking, I can see the time I need to wait at a glance.*

2. *I think the screen is a bit small. If you are far away, you can't see it clearly.*

3. *The shape outside the button is very attractive to me.*

4. *I think it's not just news, it can be a little publicity to protect the environment.*

5. *I think that as long as there is a news headline is ok.*

Rosa:

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?

I feel that there is an improvement in my user experience. I think the design of the button is very good. After pressing the arrow above the button, it will light up. I feel very good when giving feedback. Secondly, this screen design is also very good, because sometimes it will be dull when waiting for red and green, playing a little thing can reduce the boring waiting time.

Q: Is there anything need to be improved?

The height of the screen is too high, and the children may not see it.

Q: What do you think attracts you most in this concept?

The arrow above the button will light up, giving a feedback it is very good.

Q: What do you think of the content playing on the screen?

The content of this screen can be more rich in content, like a preview of a movie.

Q: Do you think the screen is the right size?

I feel the screen is too small for me.

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?

I think that if the news is very long, some people may want to go after reading, it may cause traffic jams. You can play some short videos that you can watch while waiting for the traffic lights.

1. The arrow above the button will light up, giving a feedback it is very good.

2. The screen design is also very good, because sometimes it will be dull when waiting for red and green, playing a little thing can reduce the boring waiting time.

3. The height of the screen is too high, and the children may not see it.

4. The content of this screen can be more rich in content, like a preview of a movie.

5 .I think that if the news is very long, some people may want to go after reading, it may cause traffic jams.

Nigel:

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?

I think there is improvement. First of all, its appearance is very interesting. The design of the screen allows people to wait for the traffic lights and pass the boring time.

Q: Is there anything need to be improved?

I hope to play video animation, with less text. In addition, I think that the design of the button can be changed to, the button does not rebound for a week, rather than the light will be better.

Q: What do you think attracts you most in this concept?

The arrow will light up after i pressed the button.

Q: What do you think of the content playing on the screen?

I think the content can be a little less, and the form of the video is better than the form of the word, because if the station is farther away, the text is easy to see. If you have a video, you can add subtitles. You don't have to have a sound.

Q: Do you think the screen is the right size?

I think the screen is too small. Can be a little bigger.

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?

Maybe a little description is enough.

1. the appearance is very interesting

2. The design of the screen allows people to wait for the traffic lights and pass the boring time.

3. I hope to play video animation, with less text.

4. The design of the button can be changed to, the button does not rebound for a week, rather than the light will be better.

5. . I think the screen is too small. Can be a little bigger.

DI FU:

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?
I think there is improvement. Because there is news, it won't be boring when i wait for the traffic light. In addition, there is a countdown to know the time I have to wait.

Q: Is there anything need to be improved?

The screen is too small for me, and it is not comfortable when I look at it. Then the custom outside the button is too fancy, no need.

Q: What do you think attracts you most in this concept?

What attracted me the most was which button was pressed and the arrow will light on. I think this feedback is very good. Because the current traffic lights are pressed and not pressed, there is no feedback.

Q: What do you think of the content playing on the screen?

Playing video is better than text

Q: Do you think the screen is the right size?

Umm. maybe a little bit bigger is better.

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?
well, it is ok for me.

There is news, it won't be boring when i wait for the traffic light

Have countdown system help me to know the time I have to wait.

The screen is too small for me, and it is not comfortable when I look at it.

The custom outside the button is too fancy, no need.

The button was pressed and the arrow will light on, I think this feedback is very good

Playing video is better than text.

Gabriella:

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?
I think it is good to know when I can cross the street, otherwise i just standing there.

Q: Is there anything need to be improved?

Maybe integrate the timer with the screen . integrate like a bigger screen, because this screen i actually can't see it.

Q: What do you think attracts you most in this concept?

The yellow arrow is most attract me .

Q: What do you think of the content playing on the screen?/6.Do you think it is necessary to broadcast the main content of the news besides the headline?

I think maybe only need to have a Headline picture and some heading

Q: Do you think the screen is the right size?

Integrate like a bigger screen, because this screen i actually can't see it.

it is good to know when I can cross the street.

2.maybe integrate the timer with the screen . integrate like a bigger screen, because this screen i actually can't see it.

3, the yellow arrow is most attract me .

4. maybe only need to have a Headline picture and some headings .

Zhou:

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?

I think there is improvement. Because it has a scrolling of news when it's waiting, it won't be boring. There is no such design for the traffic lights now, so I will be bored when I wait for the traffic lights. The second countdown design allows me to know when I have to wait.

Q: Is there anything need to be improved?

I feel that if I look at the news very seriously, I may not be aware that the surrounding environment may be dangerous.

Q: What do you think attracts you most in this concept?

The light above the button will light up, which is very attractive to me, because the current traffic light button has no feedback, I will press it many times. Your design can reduce the number of times people press the button, which reduces the chance of damage.

Q: What do you think of the content playing on the screen?

I think the news is very popular with the public.

Q: Do you think the screen is the right size?

I think the screen is too small. Can be a little bigger.

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?

I think it can put some road maps. For example, the place where the congestion is red is red, and the place where the congestion is not green is more intuitive.

It has a scrolling of news when it's waiting, it won't be boring.

The countdown design allows me to know when I have to wait.

I feel that if I look at the news very seriously, I may not be aware that the surrounding environment may be dangerous.

The light above the button will light up, which is very attractive to me, which also reduces the chance of damage.

I think the screen is too small. Can be a little bigger.

I think it can put some road maps. For example, the place where the congestion is red is red, and the place where the congestion is not green is more intuitive.

GARY:

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?

I think there is improvement. I really like the button and the arrow above will light up the design, so I can clearly know that I have not succeeded. Today's traffic lights don't have this design, and many people will keep pressing buttons. Then the countdown design is also very good. Every time I wait for the traffic lights, I will be very annoyed because I don't know the specific waiting time. With the specific waiting time, I can reduce the irritability of people.

Q: Is there anything need to be improved?

I think your screen is too small, and the second is that there is too much text to play the content. When the traffic time is short, I may not have time to read the full content.

Q: What do you think attracts you most in this concept?

After the button is pressed, the upper arrow will light up and the countdown design.

Q: What do you think of the content playing on the screen?

Maybe some short videos

Q: Do you think the screen is the right size?

The screen is too small to see the content.

6. Do you think it is necessary to broadcast the main content of the news besides the headline?

If is necessary to be news, I think only have headlines is enough

I really like the button and the arrow above will light up the design, so I can clearly know that I have not succeeded.

The countdown design is also very good. With the specific waiting time, I can reduce the irritability of people.

The screen is too small to see the content.

Too much text can't be finished in a short time.

User testing 1(Margaret)

Ella

Q: Which is your favorite concept?

I like this interaction one. The kangaroo one. If you don't consider the practicality of the cute card, this is a very good concept, quite interactive. This design is a bit more interesting than the other two concept buttons. For the first concept, I don't think it can let a person who is using it for the first time know the remaining duration of one light. It looks great on the visuals, but I think the countdown is easier to understand. Then, I think your concept can be combined. Among the three, I think the simplest and most effective is the button of the kangaroo. It is the easiest process of touching, and it is also the most practical. The nice thing about the first concept is that when I press the button, it turns green. This is very good. Because usually I will press the button 5, 6 times. I am not very satisfied with the button design of Sydney now. For the music when passing, you should consider the actual situation. Because if you put music, you have to choose what music to play. If it is soothing music, the passers-by are happy, but what if they can't go in time. Now the sound of button in Sydney is a warning to everyone, urging to cross the road. Efficiency is also important.

Q: If both are on the market, which one are you more willing to try?

I will use the second one, I will see the second one and I will smile more. I will see this design, very simple and very interactive one way.

Anastasia

Q: Which one is your favourite concept?

I think the third one. I like the button people can see how they run floor. Because people are always on their phones. They can see on the floor will be easier.

Q: Which concept do you dislike?

No, I like something about all. I like the kangaroo shape. I like the projection on the floor. The something I like all of them.

Q: Do you have any idea on the buttons in Sydney now?

I think it work it is. It's very effective. I like its tone is useful for some blind people.

Q: If both are on the market, which one are you more willing to try?

Which one I will use it often? Probably the first and the third one.

Kerrin Fernanda

Q: Which one is your favourite concept?

Do I what? My favourite? The second one.

Q: Why?

I don't know. It's got the kangaroo shaped. It's interesting and compare with other two groups. Because you know, other object is to serious. It's most different. And it's a message they are comes out. Maybe it can be like a cute form of what the dates be, or like a fortune cookie anything . It could be nice, like a good kind of motivation. Yeah, it's my favourite.

Q: Which concept do you dislike?

Um, I wouldn't like to say my dislike. But only not my favourite, I'm not really get why there has to be an animation play as well. I just don't get it.

Q: If both are on the market, which one are you more willing to try?

The second one. Because I need emotional support. I think it would be useful.

Q: Do you have any idea on the buttons in Sydney now?

Um, idea. I think it just a button, but also like It can be useful, but sometimes noisy. And sometimes it doesn't function. Like you press the button, but it has been wrong.

Louisa Li

Q: Which one is your favourite concept?

Louisa: Favorite..third one, the projection. Because I feel if playing some animations that attract my attention when I wait, it will make my waiting time feel not so long. It is quite interesting to see these feelings when I wait for the red light.

Q: Do you think there is anything to be improved about this concept?

Louisa: For example, there are a lot of people at the intersection, I may not see this projection. Like the crossroads of Broadway , often many people. If I stand behind, I can't see it. I only can see it in the first row, and some people may even step on it.

Q: If it is really implemented, would you use it?

Louisa: Yes.

Q: Which one do you dislike?

Louisa: I don't like the second one, the kangaroo one. Because every time it will give me a note, I don't want to take it. But I think its button is quite good, it feels very interesting and it is very decompressing. I think this can be combined with other concepts.

Q: What do you think of the traditional button design?

Louisa: It's simple. I think the kangaroo shape looks very cute and can be placed at different intersections. There is a feeling of collection. This is not the same at different intersections, it may be rabbits, kangaroos. It was a surprise.

Jingzhu Lin

Q: Which one do you like the most about these three concepts?

Lin: The second one. I feel that its cute card are more interesting, I feel it is like the ATM, when I go to the bank to withdraw money it print a notes. This is very funny. The first one is just music. The third is just animation. So the second one.

Q: Do you think there is anything to be improved about this concept?

Lin: Yes. . . What if the paper runs out? And if I read it, I want to throw it away, where should I throw it?

Q: Which one is your least favorite concept?

Lin: The first one. I think it's just playing music, I can listen to music with headphones, I don't need it.

Q: Do you have any comments on the current traditional button?

Lin: I can't know the remaining waiting time. Then, after I pressed the button, it didn't have feedback, it was just a silent time. Then it won't tell me when it will turn green.

Liangyi Wang

Q: Which one do you like the most about these three concepts?

Liangyi: I like the third one the most. I feel that I can see this screen directly when I look at my phone. And animation is very cute.

Q: Do you think there is anything else that can be improved?

Liangyi: Improve. . . I think this projection of the ground is enough. But I feel that the buttons above are a bit ordinary. I think the shape of the kangaroo is pretty. These two concepts can be combined.

Q: Which concept do you dislike?

Liangyi: The first one. I think its sound improvement is OK. But its lights look too ordinary. And I think the height of the light is a bit high. Most people may not look up.

Q: Do you have any idea on the concept of kangaroo?

Liangyi: For the second concept, it was a bit strange to suddenly print a note. The person who uses it for the first time may not know what it is doing.

Q: Do you have any thoughts on the current button design?

Liangyi: Sydney's current button. . . When someone is there, I generally don't like to press. I feel that it has no effect. Someone has been pressed it.

Nimit Batavia

Q: Which one is your favourite concept?

Nimit: I think I like it best with the projection. The third one.

Q: Why?

Nimit: So I mean the first one feel like the basic. I like the second and third one, but I think the second one is too like cartoon. So I feel like for the city, the third one is very nice. Like lower times. When I am standing here and I am looking at my phone, some looking down. So something down that can indicate me then it's pretty nice and it's has timer, so I can know exactly how long. So I think the third one is better.

Q: Do you think there is anything to be improved about this concept?

Nimit: Um...I think I really like the idea, I think it's good.

Q: Which concept do you dislike?

Nimit: I mean the first one I don't really understand it exactly how it works. The third one and second I will use friendly.

Q: Do you have any idea on the buttons in Sydney now?

Nimit: I'm not sure. I only know that some blind people need that tone to help them pass the road.

Jennifer Dowling

Q: Which is your favorite concept?

The first one. It with the progressive lights.

Um, because I like the progression. It's simple and also has audio cue. So some of these they cannot see well they are able to hear that they can cross. I think that is important. And the light position is eye level or above. okay?

The section one would be this one. Again. Because it's something that has visual as well as audio. It's cute. But I don't know anybody will read that.

This one, I like the idea, but I don't without something to here. Some people won't be able to use it because if they can't see. It won't be very helpful. So this one has the audio to it. I would not be able to choose between the two. Hahaha.

Okay?

The sound is noisy. So I agree with your partner that the sound is noisy. Um, traditional button I think every use to it, but it doesn't have to be the traditional button, but it needs to be a button begin enough.

The first one. I really like the progression. It is cute for little kids.

Xiaohan Geng

Q: Which one do you like the most about these three concepts?

Xiaohan: I like the third one. When I wait for the traffic lights, it is quite boring. This button turns green. You can know that it is working. So I don't have to press the button again. It is very good. Then, the animation can also help me kill time. It is very good.

Q: Do you think there is anything else that can be improved?

Xiaohan: I think the first concept can be combined with the third one. Adding the progress bar to the third concept .

Q: Which concept do you dislike?

Xiaohan: The second one. Because for the cute card, this is a bit of waste. Then, this button is used in a tricky way. Someone has been hammering it, it is also very easy to break.

Q: Do you have any thoughts on the current traffic light design?

Xiaohan: Ok... That sound. This may need to be changed. The sound will make me feel a little flustered.

Abby

Q: Which one do you like the most about these three concepts?

Abby: I prefer the third one. Because I think the second one is not very useful. The first one, um... Like the two traffic lights near our school, the distance between them is very close, and the two will sound strange when they ring music at the same time.

Q: You don't really like the music part of it?

Abby: Yes. I think the buttons and lights are quite good.

Q: For the third one, do you think there is any need for improvement?

Abby: I think I can change the button. Change the color. Because if I see this button turn green, I might just pass the intersection. Because I think this means what it can pass. Because sometimes I have two adjacent traffic lights at the fork, the other side of the sound is lit or the green light is on. I will subconsciously feel that I can pass this side too. So I think to avoid this illusion. The button can be changed to another color.

Q: Do you have any thoughts on the current traffic light design?

Abby: I have no idea.

User testing 2(Margaret)

Hou Kinson

Q: Which concept do you like? why?

Kinson: Both have some good parts. I personally don't like the message one. Because of the short time, I may not be able to write a lot. It may be a very short sentence.

Q: What do you want to play in the video?

Kinson: The animated version of the advertising is a little bit better. Or it can interact with the screen a little. For example, you can click the screen and it will have some information appears.

Q: Do you prefer a digital countdown or a progress bar?

Kinson: The progress bar, but I think it can be bigger and clearer.

Q: Arrow lights and button lights, which one do you prefer?

Kinson: Arrow lights, it feels good.

Chau

Q: Which concept do you like? why?

I choose the second one. Because I like the animation things. Interesting.

Q: Do you think there is anything else that needs improvement?

I don't know. I like the animation, but maybe I watch it and I forget to cross the road.

Q: Why does the other one not attract you?

This one thing is progress bar. 70%, 50%. Maybe I don't know it exactly how many seconds.

Q: Which of the two concepts do you think is more interactive?

I don't really think the real difference between the interaction at here. Only the color, or...Sorry.

Q: About screen part.

I think the animation maybe more interesting.

Q: If both are on the market, which one are you more willing to try?

The second.

Q: What do you want to play in the video?

Animation. Something funny.

Q: Do you prefer a digital countdown or a progress bar?

Countdown. Yeah.

Q: What color do you prefer for the color of the button light?

I think it needs to be linked to the traffic light. The green is you can cross the road. The yellow is don't walk. I don't know. I can't think of any color about the button.

Liangyi Wang

Q: Which concept do you like? why?

Liangyi: Um, I like about the appearance of a kangaroo, and the second video is quite interesting. But I prefer the second one.

Q: Do you think there is anything else that needs improvement?

Liangyi: I think the QR code may be a bit difficult. I don't like to scan it.

Q: Why does the other one not attract you?

Liangyi: The first one is not completely disliked. It is possible that someone will write some strange information on it. Or something else. Not feeling well.

Q: Which of the two concepts do you think is more interactive?

Liangyi: The first one.

Q: If both are on the market, which one are you more willing to try?

Liangyi: The first shape is very cute. The second video is really interesting. I hope they will be combined.

Q: Do you prefer a digital countdown or a progress bar?

Liangyi: Progress bar.

Q: What color do you prefer for the color of the button light?

Liangyi: Red. Because when I press it is a red light.

Q: Arrow lights and button lights, which one do you prefer?

Liangyi: Button light. I feel the arrow one is misleading.

Yangsong Ou

Q: Which concept do you like? why?

Yangsong: I like the second one. I feel it will bring some economic benefits. It has some advertising spots.

Q: Do you think there is anything else that needs improvement?

Yangsong: That is the QR code. If you don't say it, I don't know what it is.

Q: Why does the other one not attract you?

In fact, the first one is also okay. But I feel that there is no way to reply. Can only see what others have written.

Q: Which of the two concepts do you think is more interactive?

The first one. But this interaction is also relatively simple. Can't reply.

Q: If both are on the market, which one are you more willing to try?

Animation one.

Q: What do you want to play in the video?

For me, it may be the game. Or a funny video.

Q: Do you prefer a digital countdown or a progress bar?

Digital, intuitive.

Q: What color do you prefer for the color of the button light?

Green. If it is yellow, you don't say that I may not know what it means.

Q: Arrow lights and button lights, which one do you prefer?

The arrow light. Feel this is better.

Christina

Q: Which concept do you like? why?

I feel that I prefer the second one. Because the digital countdown is more clearer. I can know what I can do while waiting. Like 10 seconds, I might choose just waiting.

Q: Do you think there is anything else that needs improvement?

If there are more people, I may not see the animation. Scanning code, I think it is more troublesome.

Q: Which of the two concepts do you think is more interactive?

I feel the first one. It feels like the wall with lots of post-it notes in some coffee shops. You may see some very interesting stories.

Q: If both are on the market, which one are you more willing to try?

I think it should be the message. After all, time is short. Animation I may not see when there are many people. I feel that the content of the message board is more realistic.

Q: What color do you prefer for the color of the button light?

Green, green feeling is a state of completion. In the case of yellow, I think I might press it again.

Leanne Meng

Q: Which concept do you like?

I feel the second is better.

Q: Why?

Um, I think your goal is to improve the experience. Have you ever thought about whether these three parts are too much? his screen is to solve the problem of advertising? Or what?

Q: This is for the boring waiting process.

I think you can think about it. When we wait for the traffic lights, we want is to hurry up, not to look at these things. I think the message board, you want to let everyone participate is difficult. Why do you want to leave a message? And temperature, no one will pay attention to this. But I think this button light is very good. I can know that someone pressed the button. I don't need to press it again. I think the material of the button can be changed. It was very cold on the day. I don't want to touch it at all. I think the appearance of this kangaroo is useless. No one will care about this when crossing the road.

Q: Do you prefer a digital countdown or a progress bar?

Progress bar.

Q: What color do you prefer for the color of the button light?

Green.

Louisa Li

Q: Which concept do you like? why?

Louisa: I like animation. Because I may not go to leave a message. But I might go to watch the animation.

Q: Do you think there is anything else that needs improvement?

Louisa: I think it can only be seen by people in front. People standing around can see it.

Q: Why does the other one not attract you?

Louisa: Because I feel that I don't want to leave a message when I was waiting. And I don't understand why I have to leave a message. There is no reason.

Q: Which of the two concepts do you think is more interactive?

Louisa: Comments's definitely a bit more interactive. Because I can type, I can see my message appear on the screen. Although I don't know why I have to leave a message.

Q: If both are on the market, which one are you more willing to try?

Louisa: Animated. Because I think it is very interesting. Let my waiting time be less boring.

Q: What do you want to play in the video?
Louisa: It feels interesting, short, small video. Funny.

Q: Do you prefer a digital countdown or a progress bar?
Louisa: Numbers. More intuitive.

Q: What color do you prefer for the color of the button light?
Louisa: Pressing the button...it's better to turn green.

Jun Sun

Q: Which concept do you like? why?
Jun: Which one... The second one. The cartoon video looks cute. Very interesting.

Q: Do you think there is anything else that needs improvement?
Jun: Improvement... I don't have much ideas. Maybe, the screen is small. If there are many people. I can't see it when I stand behind.

Q: Why does the other one not attract you?
Jun: I don't like to send text. Also not very interested in what others have sent.

Q: Which of the two concepts do you think is more interactive?
Jun: That should be the first one. After all, there are different people who send messages.

Q: If both are on the market, which one are you more willing to try?
Jun: The second one. I like this. Funny video plays. It is very attractive to me.

Q: What do you want to play in the video?
Jun: The animation is fine. Or you can put some beauty products ads, discount information. It is also very useful.

Q: Do you prefer a digital countdown or a progress bar?
Jun: Numbers. It is very straightforward. When I was in a hurry, I really thought it could be clear.

Yujing Peng

Q: Which concept do you like? why?
Yujing: I like the second one. It is very interesting. I can help me pass the time while I am waiting. Let me not be so boring.

Q: Do you think there is anything else that needs improvement?
Yujing: That temperature. I don't think it is necessary. I am already outside. I saw the temperature is useless.

Q: Why does the other one not attract you?
Yujing: I think the first one has no way to reply to someone else's chat. It means everyone can only see what others have sent, and everyone can't reply to each other.

Q: Which of the two concepts do you think is more interactive?
Yujing: The second one. I can also scan the code. Also can see more details. It is very good.

Q: If both are on the market, which one are you more willing to try?
Yujing: The second one. I think the second one is quite good. It is also very fun.

Q: What do you want to play in the video?
Yujing: I think if it's advertising, you can put some animated ads, which is interesting. Not so blunt. It may attract more attention.

Q: Do you prefer a digital countdown or a progress bar?
Yujing: Numbers. When I see it, I can know how long I have to wait. You don't have to think about it all the time, why is it not change to green light?

Q: What color do you prefer for the color of the button light?

Yujing: Maybe green. There is a feeling that it is effective.

Tina Liu

Q: Which concept do you like? why?

Tina: The second one. Because I think there is some video. I pay my attention to it easily when I was waiting.

Q: Do you think there is anything else that needs improvement?

Tina: Um... maybe that video is not over if the light has changed. I may be entangled to cross the road or continue to watch it.

Q: Why does the other one not attract you?

Tina: The first one is also okay. But I don't particularly like to read the text.

Q: Which of the two concepts do you think is more interactive?

Tina: The second one. I can scan the code and see the information. It's quite interactive.

Q: If both are on the market, which one are you more willing to try?

Tina: The second one. Because I like to watch some interesting videos.

Q: What do you want to play in the video?

Tina: Some funny videos, or some videos on YouTube. Yeah.

Q: Do you prefer a digital countdown or a progress bar?

Tina: Countdown, I think this is clearer to show the length of time I waited.

Q: What color do you prefer for the color of the button light?

Tina: Um... yellow, there is a feeling of waiting.

User Testing 3(Margaret)

Liza

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?

Liza: I think it's a very interesting concept to make the experience more enjoyable. If you know how much time you waiting more paytion. Because you know how long you waiting. Um, I think the new is a great idea, makes you more like education is now tap in the world. So I definitely think it is improved.

Q: Do you think there is anything to be improved about this concept?

Liza: Um, how would the news be displayed like the iPad, or like a screen?

Q: Like bigger than this one.

Um, I don't know. Maybe like an options a kind of news, like global news, Australia news.

Q: What do you think attracts you most about this concept?

Liza: I think all the difference aspect together. The time things that I think already used at the traffic light in the Uni around station. Both of these are really interesting concept.

Q: Do you think the screen is the right size?

Liza: Bigger would be good. So like more people, there are a lot of people light up, so they can all be read.

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?

Liza: Um, I'm not sure. I think the headline maybe sufficient.

Ting Zhang

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?

Let me know when I can pass. Like some times, when I walked to the middle of the road, the lights turned red completely. I am very worried about security issues. So when I see the red light flashing, I will not pass. But the appearance is not good.

Q: Do you think there is anything to be improved about this concept?

I think this news should be short. Because the waiting time will not be very long. It should have a short title. If the content is very long, when I read half, the light has changed to green. I will always think about this news. I need to query it. It is very troublesome. That countdown, I hope it can do some animation effects. It's like some people are not very sensitive to numbers. I think it can add a color change effect.

Q: What do you think attracts you most about this concept?

I don't like news. So I don't pay much attention to this. And the English news, for some tourists, they may don't know understand it and cannot read. I prefer to count down feature.

Q: Do you think the screen is the right size?

The screen needs more bigger. I think the screen is too small. It is very tiring when I look at it.

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?

I don't think there need too many words. It's okay to have a headline. It is to let everyone have the awareness of reading the news. Because many people don't watch the news now. This is not very good. This will let everyone know about these news.

Carvie Huang

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?

Carvie: I think it's provide some short news. It really makes me have something to do when I waiting. And the countdown, it is quite useful.

Q: Do you think there is anything to be improved about this concept?

Carvie: Um, improve...this screen is actually in a real environment, where should it be?

Q: It is above the button.

Carvie: That's fine, but that means, if this is the case, if it is only one or two people waiting, if there are too many people, basically other people will not care too much about this. And even if someone wants to see it, it will be blocked. Because its screen is not so big. When there are many people, it is useless.

Q: What do you think attracts you most about this concept?

Carvie: The most attractive part of me... Santa Claus hair. Exterior.

Q: What do you think of the content playing on the screen?

Carvie: Well, okay, because I am not too concerned. In terms of current affairs, so it is okay. Ok.

Q: Do you think the screen is the right size?

Carvie: Right. If it is too big or too small. If it is too big, it is not necessary. If it is too small, it will not be seen.

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?

Carvie: I think it's just like this. Just make a short summary and it won't be too long. Probably if you are preparing for thirty seconds of reading time, prepare thirty seconds of content. Or shorter is enough. Or I think some funny pictures, or like a funny joke may be more attractive.

Yuhan Zhang

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?

Yes, existing one is no sense of design. Now it has added a light, and the appearance has changed. More abundant. And that button light, let me know that someone has already pressed.

Q: Do you think there is anything to be improved about this concept?

That electronic screen, I think it is not very useful. If the light is strong, it is difficult to read the contents on the screen. And the news, I might read. But I don't care about it.

Q: What do you think attracts you most about this concept?

Its button part is very cartoon. As the festival changes shape. More funny. And that arrow light is also very good.

Q: What do you think of the content playing on the screen?

I think it's better to play some short animations of design sense. But it must control the time. Otherwise, I may have missed to cross the road because of it.

Q: Do you think the screen is the right size?

I think the screen is too small to be seen by people around. Too big, it will be a hindrance.

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?

I don't think so. Because the time for waiting for the traffic lights is very short, it is not very long. I am not very concerned about this part.

Louisa Li

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?

I think it is. Because it adds a countdown. The remaining waiting time is more clear. It won't let me feel nervous when I cross the road, especially when I'm halfway through. Then I feel that this cartoon is also very cute. Every festival, it will give me a different feeling, and then feel very novel.

Q: Do you think there is anything to be improved about this concept?

Well, I think the news. Only people standing next to this can read it. In fact, the people behind cannot read. Then the screen, in fact, I think it is a bit small. And its height is hard to determine. Some people who are tall will think that it is too low. I may feel the position is right. It is difficult to coordinate.

Q: What do you think attracts you most about this concept?

I think one is the countdown. The other is the change in its appearance.

Q: What do you think of the content playing on the screen?

I think the News is very good, just play some real-time news. It's like that, like what is happening now. Like traffic jam or the train is delayed.

Q: Do you think the screen is the right size?

It is small.

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?

I think it is still necessary to summarize the content. After all, I waited for thirty seconds and I left. Then I can't finish reading it all. Well, then with more pictures.

Chloe Pei

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?

Yes. There are many new elements to join. Very novel. But I think some people don't care about the arrow light. They will still press the button.

Q: Do you think there is anything to be improved about this concept?

I feel that the cost is relatively high. And post-maintenance is time consuming.

Q: What do you think attracts you most about this concept?

Festive features. In other parts, I think it should be designed more special. Now the countdown is already have.

Q: What do you think of the content playing on the screen?

Not bad.

Q: Do you think the screen is the right size?

It looks a bit small and few people can see it.

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?

The title need more bigger and the content summary is still needed. If don't have the summary, people may not understand.

Jing Sun

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?

It has.

Q: Which part?

Well, because when I wait for the traffic lights, one second will become as ten seconds. So the News, I can feel that the time is not only waiting. It can make me feel that time is running faster. Will not have the kind of waiting anxiety.

Q: Do you think there is anything to be improved about this concept?

Um, may have a high budget. Everyone has to install the screen that play the news.

Q: What do you think attracts you most about this concept?

The shape in the festival, because there are usually a lot of advertisements on the pole. But it will be fun to have festival themes and other decorations.

Q: What do you think of the content playing on the screen?

I may be more concerned, like the train schedule. This kind of information.

Q: Do you think the screen is the right size?

This screen may be a bit smaller for me. If there are a lot of people waiting for the traffic lights, I may not see if I stand farther.

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?

I may not specifically look at the content of this news unless it is particularly appealing to me. Because of that, generally on the road, people often carry headphones or mobile phones. In addition to the news headlines, the news headlines scroll, or that kind of content that is very appealing, they may not look at the content.

Huichan Huang

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?

Yes, because it added an appearance. and it added a screen. Tell me about the road ahead and the blockage I may encounter around me. I can avoid it. Then there is cute shape.

Q: Do you think there is anything to be improved about this concept?

Just like what I just said. If I don't know much about the road, you wrote an address on it, I don't know how far that location is from where I am. It would be better if there was a small map on it.

Q: What do you think attracts you most about this concept?

Well, the part that attracted me. I think its design sense. Because if its shape is very cute. Then press it and it will light up. And there is a countdown. I feel that it will help me in my time concept.

Q: What do you think of the content playing on the screen?

After all, I wait for thirty seconds. If there is something that can make me read it, I think it's pretty good.

Q: Do you think the screen is the right size?

If it is big like this. Well, it is not very suitable. too small. Can't see clear, unless I stand in front of it.

Q: Do you think it is necessary to broadcast the main content of the news besides the headline?

I think you can, just get one, that is like click it and reading the details. If someone is interested in it, he can click to read it.

Yuhao Luan

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?

For me, there is actually not much improvement. Because I don't really care about the News. Because it is only a few tens of seconds. So in fact, not much practicality. The countdown I think that is OK, better than before.

Q: Do you think there is anything to be improved about this concept?

I just think that the news is not practicality. Because I think I just need wait no more than one minute. So I won't stand for too long. I may not watch anything.

Q: What do you think attracts you most about this concept?
The countdown.

Q: What do you think of the content playing on the screen?
I think simple is better, and it's good to have a countdown.

Q: Do you think the screen is the right size?
Not bad.

Jiaqi He

Q: Do you think this concept has improved your user experience compared with the existing traffic lights?
Ok. First of all, its exterior is according to the festival. It's interesting. And nowadays, people often keep press that button again. If you tell them that it has already pressed, no one will repeatedly press it. And then you may be bored when you wait. The scrolling News can also help you spend your time. Then it will also prompt you to cross the road. You won't miss the time to cross the road, because of watching the news.

Q: Do you think there is anything to be improved about this concept?
I feel very good, nothing need to improve.

Q: What do you think attracts you most about this concept?
The scrolling News.

Q: Why?
Because sometimes I am waiting for the traffic lights, it is really boring. Then, I don't want to miss the traffic lights because I play my phone. After that, while it shows you the news, it also has tips. Tell you, you should cross the road. You won't miss it. Then wait for the next round of traffic lights.

Q: What do you think of the content playing on the screen?
In addition to the news, it may be better to play some other interesting videos. Because of the news, some people may not like to read the text.

Q: Do you think the screen is the right size?
Well, I think it needs to be a little bigger. Because if there are a lot of people waiting, the people behind will not see it. Then if you want to see it, they need huddled in front,

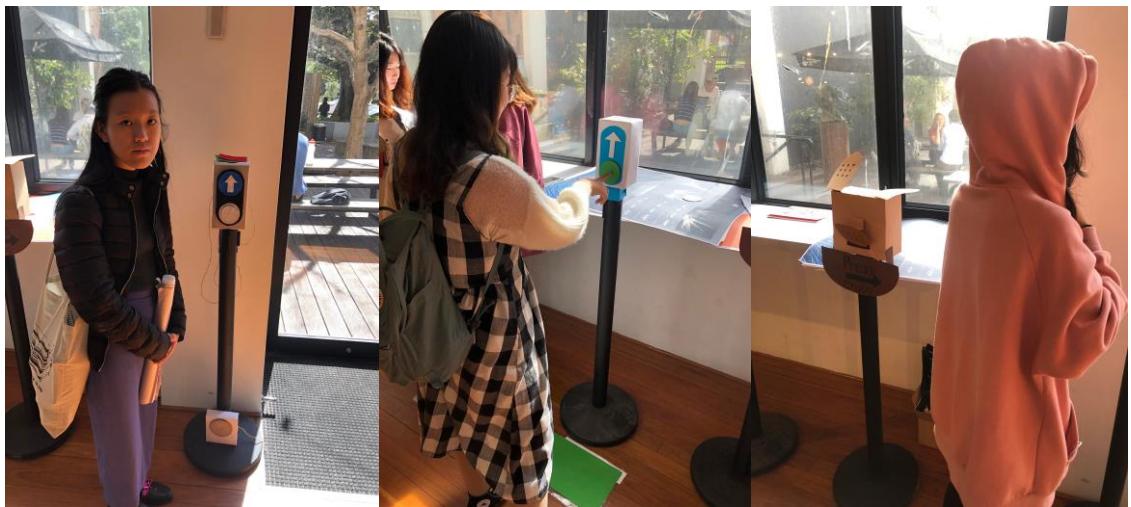
Q: Do you think it is necessary to broadcast the main content of the news besides the headline?
Still need content, otherwise people don't know what the picture meaning.

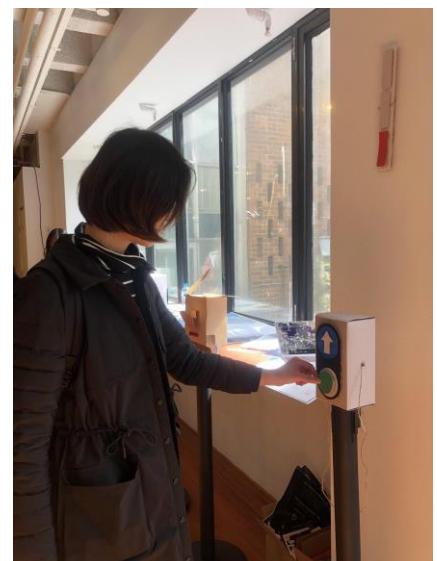
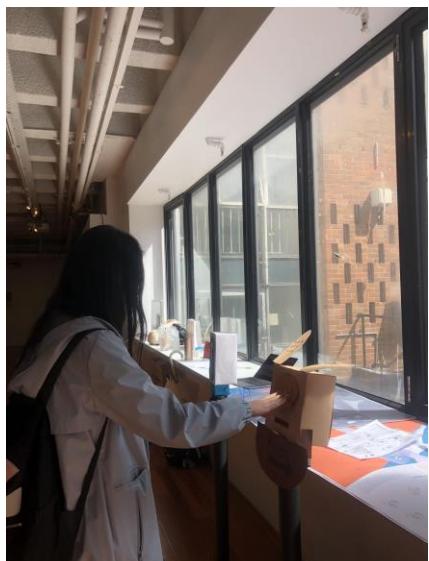
2. Observation

User Testing 1



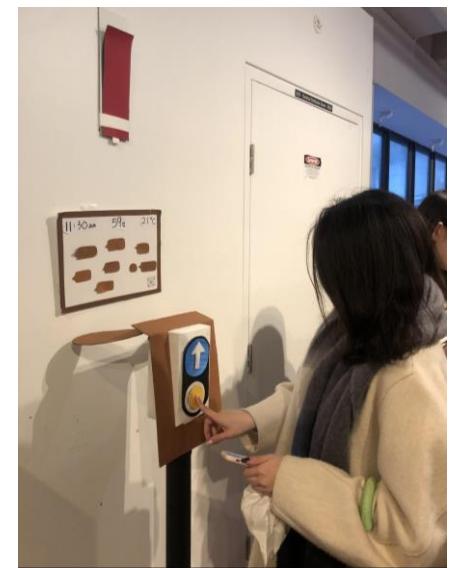


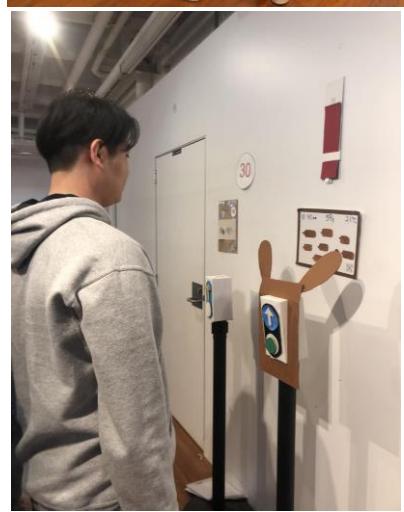




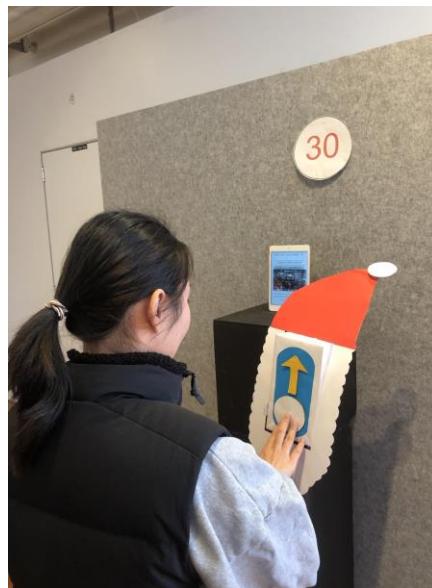
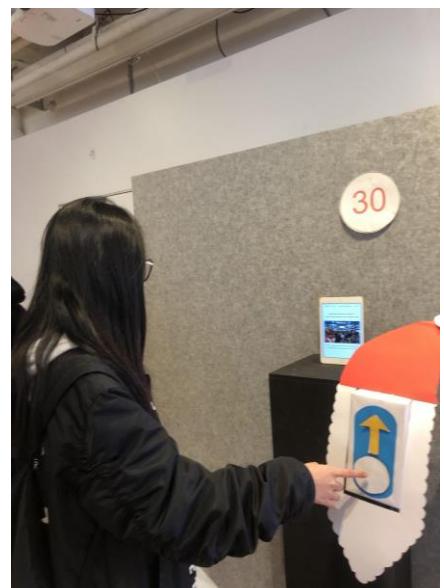
User Testing 2



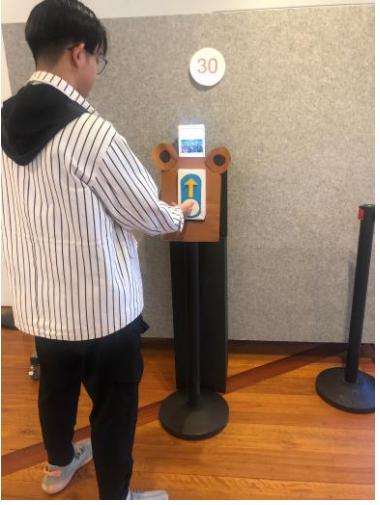
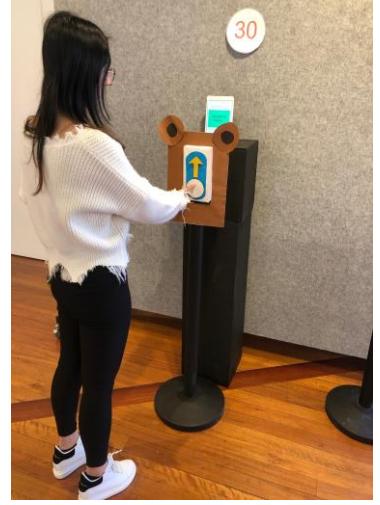
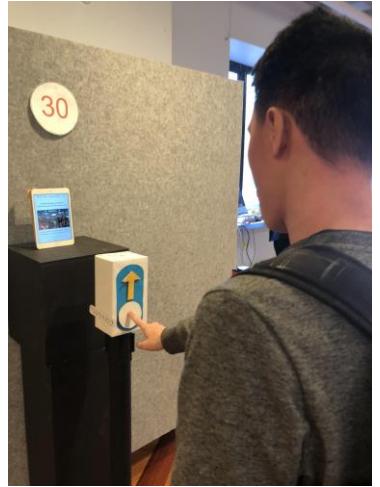
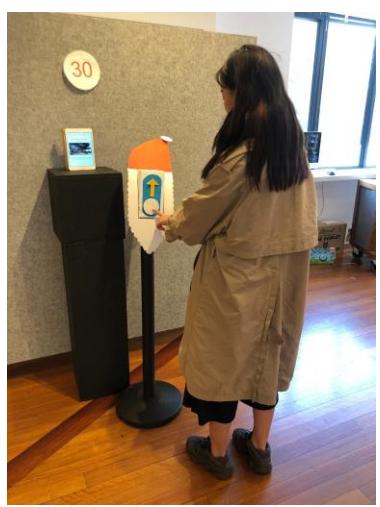


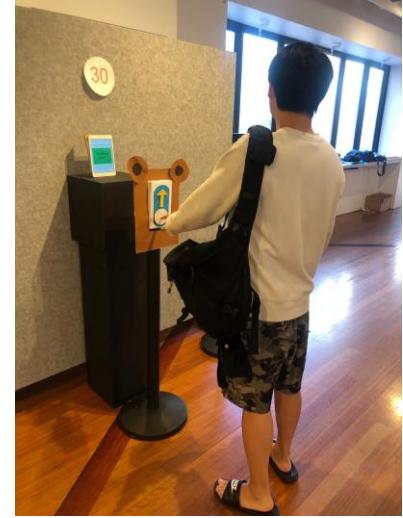
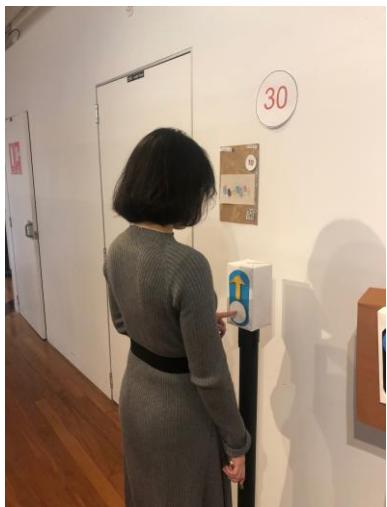


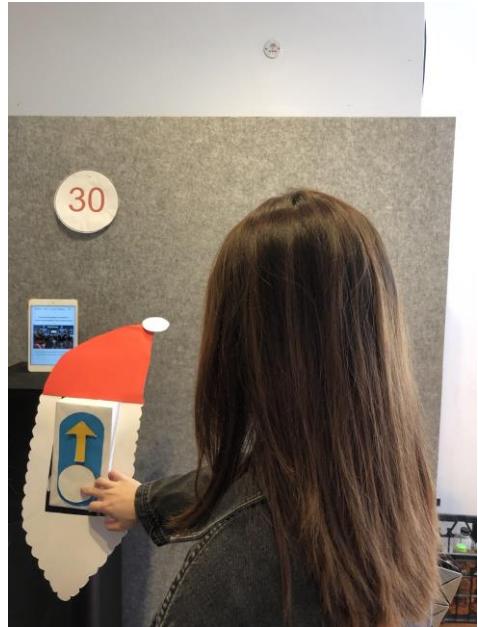
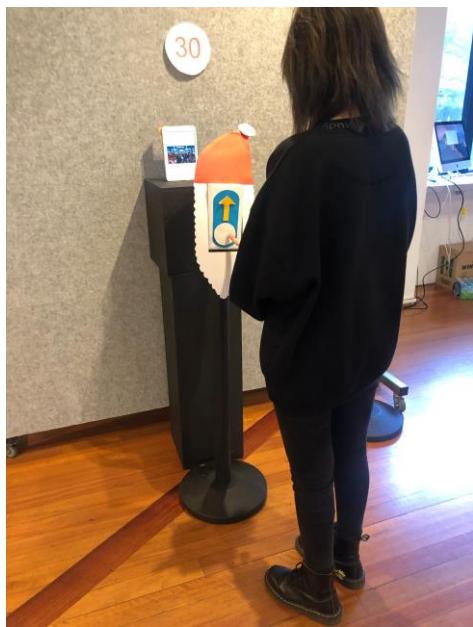
User Testing 3











3. Statement card

User Testing 1_Statement card

User testing 2_Statement card

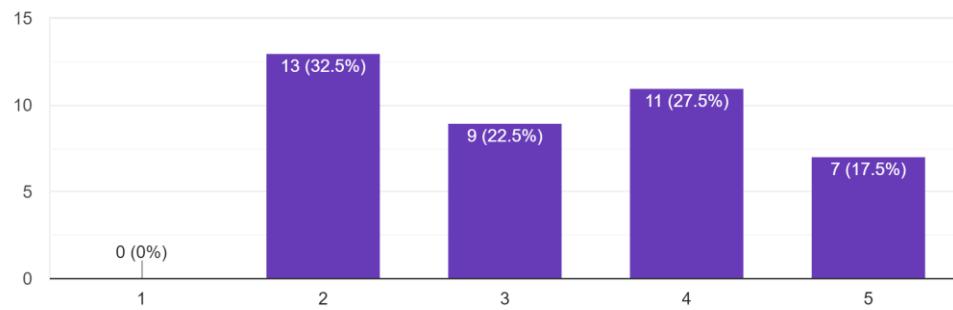
News are very useful and attractive	People prefer the arrow glowing	Count the QR code will be better	Figure countdown is easy to understand	Comment screen is more interactive	Putting news on the screen is more relevant		
<p>Yishu Hu: News and mobile trailers are very useful and attractive.</p> <p>Luxiang Yu: Daily big news will move attract to me.</p> <p>Yu Zhou: Some guidance of traffic and activities recently.</p> <p>Zhenyu Liu: Maybe some news, present as short clips, quick and eye-catching.</p> <p>Jinguan Chen: I will prefer news, which is suitable for public service.</p> <p>Jinyi Jia: Of course, major news will be more meaningful.</p>	<p>Yishu Hu: People prefer arrow glowing, because button will be pressed by many people everyday. It could be broken.</p> <p>Yu Zhou: That's true.</p> <p>Zhenyu Liu: I prefer the arrow because usually it's more eye-catching.</p> <p>Zhongxue Jiang: The arrow light is better.</p> <p>Jinyi Jia: I prefer the arrow to light up because I can see the progress bar clearly.</p> <p>Sipu Mai: I think the arrow light up better than button light up. Because I often press the button without breaking quickly.</p>	<p>Luxiang Yu: People may not want to scan the QR code on the way.</p> <p>Yishu Hu: Many people doesn't like spend too much time on scanning the QR code.</p> <p>Zhenyu Liu: I think the QR code is better, we need the QR code may be better.</p> <p>Jinyi Jia: I think it's pretty good, but canceled the QR code may be better. There will be too many people holding the phone to scan the QR code when crossing the road.</p> <p>Sipu Mai: I think the arrow light up better than button light up. Because I often press the button without breaking quickly.</p>	<p>Luxiang Yu: People count numbers to tell me how long I have to wait. Many people doesn't like spend too much time on scanning the QR code.</p> <p>Zhenyu Liu: I prefer the figure because I need the QR code may be better.</p> <p>Jinyi Jia: I think it's pretty good, but canceled the QR code may be better.</p> <p>Sipu Mai: I think the arrow light up better than button light up. Because I often press the button without breaking quickly.</p>	<p>Ben: I think it's more interactive, making comments is a bit more fun or take a picture.</p> <p>Erina: The comment screen is definitely more interactive than the news screen, because you can add a cute message.</p> <p>Xiaohui: Me too.</p> <p>Wenyingang: I like the figure countdown, even though the progress bar is not clear, it doesn't tell me that the exact time I have to wait.</p> <p>Yuhan: The figure countdown may better than countdown with a progress bar because it is clear and easy to understand.</p> <p>Jeremy: Yes, I think figure countdown is more intuitive, while the progress bar is more abstract and it is progressing.</p> <p>Zhongxue: People need to calculate by themselves to see the time. I think it's better than the way figure countdown maybe more intuitive.</p>	<p>Erlina: I would say news, like just quick news with headlines, I think people will be into that.</p> <p>Wenting: I like animation or news.</p> <p>Zhongxue: I think maybe some news, which is relevant to our life, like news when the train break down, where the place is fire and so on.</p> <p>Yuhan: I want something like news.</p>		
I'm hard to control what people post	People prefer the numbers countdown	People think the first concept is useful and they like	Advertisement can help to get some sponsor	Negative comment can be prevented	Simplify the function of the comment		
<p>Yishu Hu: It needs regulation to restrict what people can post and what they can't.</p> <p>Tinging Wang: The message that displayed to the screen is too much.</p> <p>Jinyi Jia: The information content of the screen message is too much.</p> <p>Sipu Mai: The information content of the screen message is difficult to control.</p>	<p>Yishu Hu: Number countdown is more obvious and direct.</p> <p>Luxiang Yu: Counting numbers to tell me know the exact time I have to wait.</p> <p>Yu Zhou: Number countdown because it is clearer than progress bar.</p>	<p>Shirley: The second one is too simple and the first one is too abstract.</p> <p>Zhenyu Liu: This equipment give users more sense of interaction, more intuitive.</p> <p>Jinyi Jia: I prefer the first one because it seems more practical and less complicated.</p>	<p>Ben: I think the sliding screen because it has sliding effect, it's more interesting.</p> <p>Wenting: I think it's better, but I can just be a normal slide, I don't need to have a slider, I just need a button, rather tells you that it is time to cross the street.</p>	<p>Wenyingang: I like the comment screen because the comment will be more interactive, and the comments are written by other pedestal.</p> <p>Jeremy: I think the comment one because people can comment.</p> <p>Lucas: Must be the comment screen because you can comment, and you can also see the people's comment, and you can also scan the QR code.</p>	<p>Ben: I am not sure, but I think too many is too much.</p> <p>Wenting: For the comment screen, it has to be social harmony, it will also influence the user's experience.</p> <p>Xuan: White for practically, a button and a countdown are enough.</p> <p>Zhongxue: I think the function of your concept should be simply and you should focus more on crossing the street.</p>		
People think the second concept is simple and useful	People prefer the button glowing	People like the idea of cover for holidays	Countdown with progress bar is more desirable	Changing the arrow color is effective	Changing the button color is greater		
<p>Jinguan Chen: This concept is more concisely and clearly.</p> <p>Sipu Mai: Because the design of the second concept is very useful and it can be better than the first one.</p>	<p>Luxiang Yu: I prefer the button glowing.</p> <p>Zhenyu Liu: Because it more directly shows that somebody already press it.</p>	<p>Shirley: The idea of cover is so cute. They have more different designs.</p> <p>Tinging Wang: The holiday of traffic light cover is so cute.</p>	<p>Zhenyu Liu: Countdown with progress bar because it is more clear and convenient for people to use by using color, in this way, using color may be more realistic.</p>	<p>Wenyingang: You can also create some sound that tells people it's time to cross.</p>	<p>Xuan: For me, I think change button color may be more effective, because it's more visual, when I press the button.</p> <p>Yuhan: I think maybe button, it is my personal preference.</p>		
Play the videos news are more appealing people	People think the first concept is not useful	It doesn't matter to change the button color or arrow	Pressing the button with sound is better				
<p>Yishu Hu: Videos are more appealing as pedestrians usually spend little time on waiting for traffic lights.</p> <p>Luxiang Yu: I don't like to read text when waiting for the traffic light.</p>	<p>Yishu Hu: You usually don't spend? that much time waiting for traffic lights, let alone posting messages.</p>	<p>Kating: I think it's better to change the button color or arrow.</p> <p>Wenting: Both are fine.</p>	<p>Wenyingang: You can also create some sound that tells people it's time to cross.</p>	<th>There are no enough time to write comments</th>	There are no enough time to write comments	<th>I prefer the way of digital countdown, I want to know the specific time I need to wait</th>	I prefer the way of digital countdown, I want to know the specific time I need to wait
<th>I don't really like to leave a message.</th> <th>The digital countdown helps to know the remaining walking time easily</th> <th>Animation and fan videos will attract attention.</th> <th>The screens can play some news and short videos</th> <th>The countdown of the progress bar is more useful</th> <th>QR code is not needed</th>	I don't really like to leave a message.	The digital countdown helps to know the remaining walking time easily	Animation and fan videos will attract attention.	The screens can play some news and short videos	The countdown of the progress bar is more useful	QR code is not needed	
<p>Leanne Meng: I think the message board, you want to let everyone participate in the discussion.</p> <p>Luxiang Yu: I don't like to leave a message when I don't want to leave a message. I don't have time about it at all, why is it not change to green right?</p> <p>Yu Zhou: I don't like to leave a message to show the length of time I waited.</p> <p>Zhenyu Liu: More intuitive.</p> <p>Kinnow: I personally don't like the message one. Because of the short time, I may not be able to write a lot. It may be better to leave a message when I have time.</p> <p>Yanqiong: But I feel that there is no way to reply. Can only see what others have written.</p>	<p>Yuting: Numbers are more useful, because I can see how long I have to wait. You don't have time about it at all, why is it not change to green right?</p> <p>Luxiang Yu: I want to watch that some interesting, short, and funny video, I don't like to leave a message.</p> <p>Zhenyu Liu: I like to leave a message to show the length of time I waited.</p> <p>Yanqiong: More intuitive.</p> <p>Jim: Numbers. It is very straightforward. When I was in a hurry, I don't have time to leave a message.</p> <p>Christine: Because the digital countdown is more clearer, I know what I can do while waiting.</p>	<p>Yuting: I think it's advertising. You can put some animated ads, which is interesting. Not like it. It may be better to leave a message when I have time.</p> <p>Zhenyu Liu: Funny video plays. It is very attractive to me.</p> <p>Yanqiong: I like to leave a message to show the length of time I waited.</p> <p>Jim: Numbers. It is very straightforward. When I was in a hurry, I don't have time to leave a message.</p> <p>Christine: The animated version of the advertising is a little bit better.</p>	<p>Nigel: Writing comments, it's a long time. I have no much time to write a message when I waiting for the bus.</p> <p>Jinguan Chen: I don't like the message board because I have time to leave a message. I don't like to leave a message when I waiting for the bus.</p> <p>Zhenyu Liu: I think the message board because it is a mobile phone, I don't write a message.</p> <p>Wenyingang: I like to leave a message to show the length of time I waited.</p> <p>Yanqiong: I like to leave a message to show the length of time I waited.</p> <p>Jim: Numbers. It is very straightforward. When I was in a hurry, I don't have time to leave a message.</p> <p>Christine: The animated version of the advertising is a little bit better.</p>	<p>Nigel: There is no time to leave the messages written by others.</p> <p>Yuting: There is no time to leave the messages written by others.</p> <p>Zhenyu Liu: There is no time to leave the messages written by others.</p> <p>Wenyingang: There is no time to leave the messages written by others.</p> <p>Yanqiong: There is no time to leave the messages written by others.</p> <p>Jim: Numbers. It is very straightforward. When I was in a hurry, I don't have time to leave a message.</p> <p>Christine: The animated version of the advertising is a little bit better.</p>	<p>Nigel: I don't need to know the specific time I need to wait.</p> <p>Wenyingang: I like the digital countdown, I want to know the specific time I need to wait.</p> <p>Yanqiong: I like the digital countdown, I want to know the specific time I need to wait.</p> <p>Jim: Numbers. It is very straightforward. When I was in a hurry, I don't have time to leave a message.</p> <p>Christine: The animated version of the advertising is a little bit better.</p>		
Scanning the QR code is cumbersome	The time of the progress bar is not clear	The button is very useful.	Advertising can bring business benefits.	Some features are useless and should be simplified.	Others		
<p>Chau: I like the animation, but I don't like to leave a message.</p> <p>Time: maybe that video is not over at the light has changed. I might be entangled to cross the road or continue to wait.</p>	<p>Chau: I like the progress bar, 70%, 30%. Maybe I don't know it exactly how many seconds.</p>	<p>Leanne Meng: I think this button light is very good, I can know that someone pressed the button, I don't need to press it again.</p>	<p>Nigel: I prefer the button with sound.</p> <p>Wenyingang: I prefer the button with sound.</p> <p>Yanqiong: I think the button light is better, the color doesn't matter.</p> <p>Jim: I like the arrow turn to the red light.</p>	<p>Nigel: I prefer the button with sound.</p> <p>Wenyingang: I prefer the button with sound.</p> <p>Yanqiong: I think the button light is better, the color doesn't matter.</p> <p>Jim: I like the arrow turn to the red light.</p>	<p>People like the shape of the festival.</p> <p>Please like the idea of using QR code.</p> <p>People think that the second concept is useful.</p>		
Temperature display is not necessary	The QR code is not needed	The button light is very useful.	The screens can play some news and short videos	The countdown of the progress bar is more useful	QR code is not needed		
<p>Yuting: That temperature, I don't think it's necessary. I am already outside. I save the temperature is useless.</p> <p>Leanne Meng: And temperature, no one will pay attention to this.</p>	<p>Chau: I like the QR code, but I don't like to leave a message.</p>	<p>Leanne Meng: I think this button light is very good, I can know that someone pressed the button, I don't need to press it again.</p>	<p>Nigel: There is no more public welfare, and it can also be used for advertising.</p> <p>Wenyingang: The specific time I need to wait.</p> <p>Yanqiong: Good for the digital countdown, I want to know the specific time I need to wait.</p> <p>Jim: Numbers. It is very straightforward. When I was in a hurry, I don't have time to leave a message.</p> <p>Christine: The animated version of the advertising is a little bit better.</p>	<p>Nigel: There is no more public welfare, and it can also be used for advertising.</p> <p>Wenyingang: The specific time I need to wait.</p> <p>Yanqiong: Good for the digital countdown, I want to know the specific time I need to wait.</p> <p>Jim: Numbers. It is very straightforward. When I was in a hurry, I don't have time to leave a message.</p> <p>Christine: The animated version of the advertising is a little bit better.</p>	<p>Nigel: No QR code is needed, because it is not necessary, analysts don't use the QR code to scan the QR code.</p> <p>Wenyingang: The specific time I need to wait.</p> <p>Yanqiong: I like the digital countdown, I want to know the specific time I need to wait.</p> <p>Jim: Numbers. It is very straightforward. When I was in a hurry, I don't have time to leave a message.</p> <p>Christine: The animated version of the advertising is a little bit better.</p>		
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What content is attractive to users	Message function.	Countdown design	Scanning the QR code is superfluous.	People prefer arrow lights.	Advertising can bring business benefits.		
<p>The playback of news and videos is very useful and useful.</p>	<p>There are many problems with the message function.</p>	<p>Digital countdown is very useful</p>	<p>Scanning the QR code is superfluous.</p>	<p>People prefer arrow lights.</p>	<p>Some features are useless and should be simplified.</p>		
<p>Yuting: News and videos are more appealing people.</p>	<p>Message features can interact and share ideas.</p>	<p>Countdown design</p>	<p>Scanning the QR code is superfluous.</p>	<p>Advertising can bring business benefits.</p>	<p>Others</p>		
<p>Leanne Meng: I think the message board, you want to let everyone participate in the discussion.</p>	<p>Message features can interact and share ideas.</p>	<p>Scanning the QR code is superfluous.</p>	<p>People prefer arrow lights.</p>	<p>Some features are useless and should be simplified.</p>	<p>People like the shape of the festival.</p>		
<p>Yuting: I like the animation, but I don't like to leave a message.</p>	<p>Scanning the QR code is cumbersome</p>	<p>Scanning the QR code is cumbersome</p>	<p>Scanning the QR code is superfluous.</p>	<p>Advertising can bring business benefits.</p>	<p>Please like the idea of using QR code.</p>		
<p>Leanne Meng: I think the message board, you want to let everyone participate in the discussion.</p>	<p>The time of the progress bar is not clear</p>	<p>The button light is very useful.</p>	<p>Scanning the QR code is superfluous.</p>	<p>Some features are useless and should be simplified.</p>	<p>People think that the second concept is useful.</p>		
<p>Yuting: I like the animation, but I don't like to leave a message.</p>	<p>The QR code is not needed</p>	<p>The button light is very useful.</p>	<p>Scanning the QR code is superfluous.</p>	<p>Advertising can bring business benefits.</p>	<p>People like the shape of the festival.</p>		
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4. Questionnaire

User testing 1

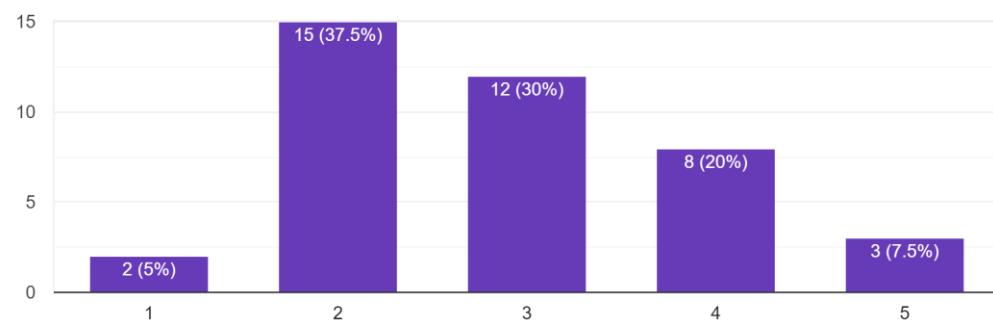
How much do you like concept1 (Shiny Shiny)?

40 responses



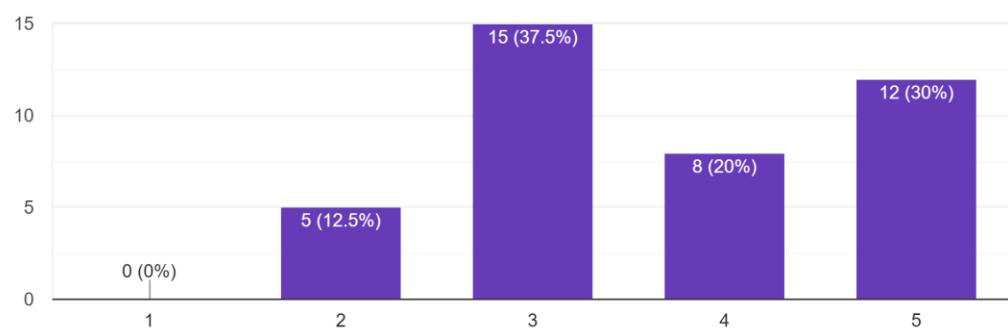
How much do you like concept2 (Fist Bump)?

40 responses



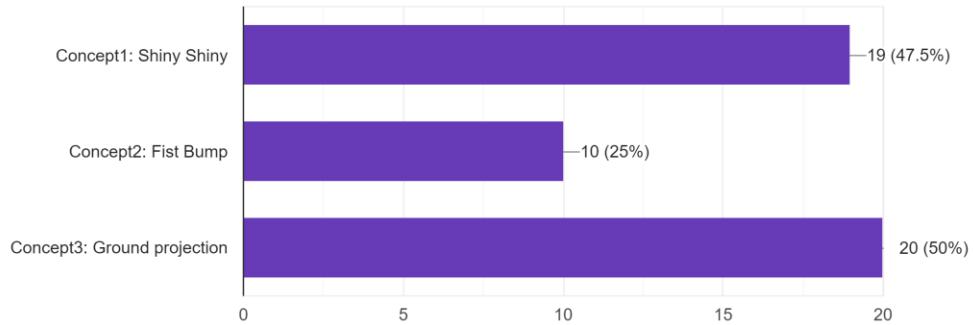
How much do you like concept3 (Ground projection)?

40 responses



Which one do you want to try more if they implement on the market?

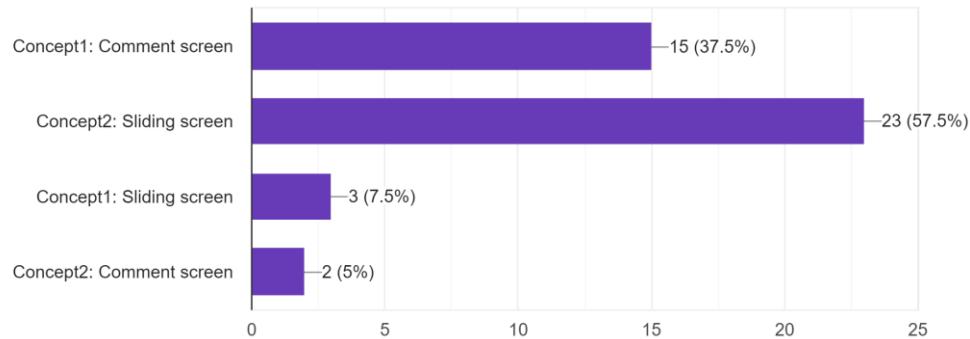
40 responses



User Testing 2

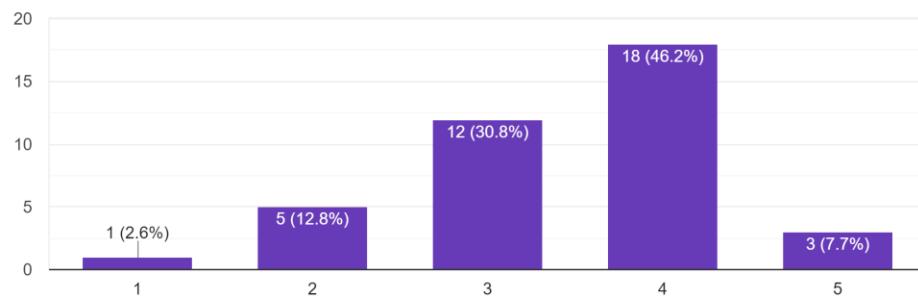
Which concept you like most?

40 responses



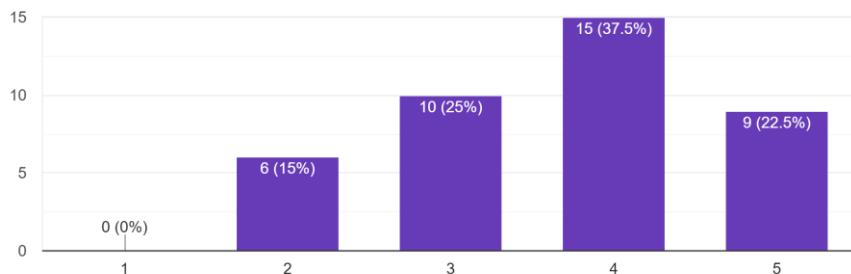
How much do you like the Concept 1 (comment screen)?

39 responses



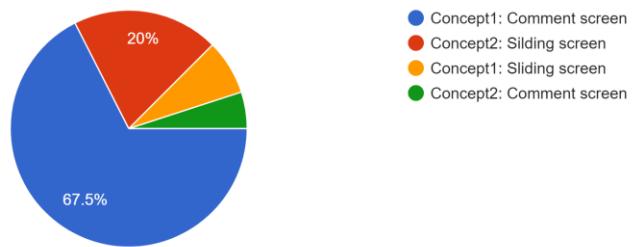
How much do you like the Concept 2 (sliding screen)?

40 responses



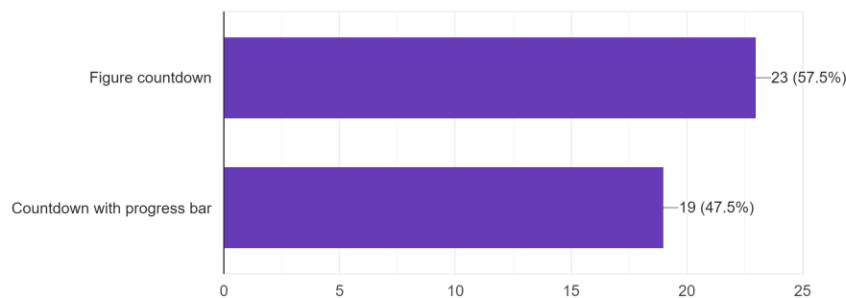
Which concept do you think is more interactive?

40 responses



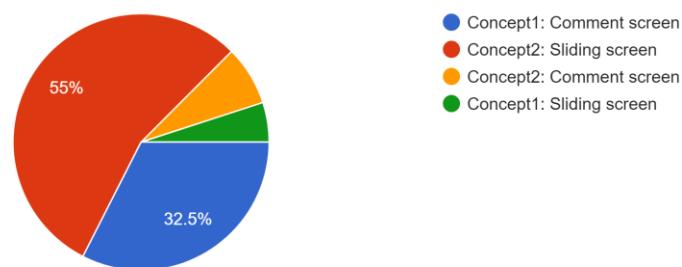
Do you prefer figure countdown or countdown with progress bar?

40 responses



Which one do you want to try more if they implement on the market?

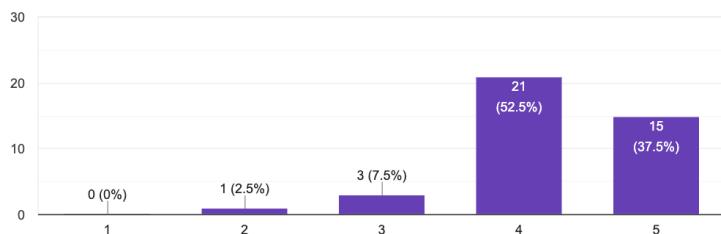
40 responses



User Testing 3

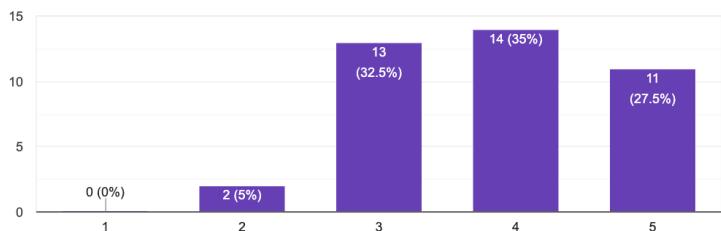
1. How much do you like this concept?

(40 条回复)



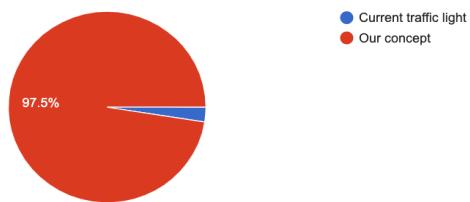
2. How interactive do you think it is?

(40 条回复)



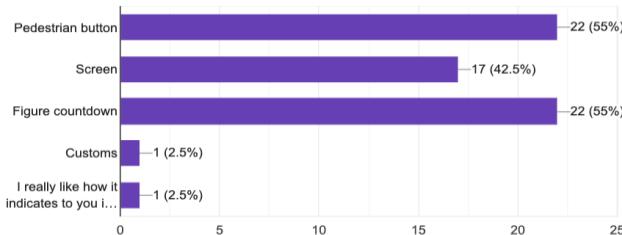
3. Which one do you think is better?

(40 条回复)



4. What is your favourite part of our concept?

(40 条回复)



5. Think Aloud

Think Aloud	
Carvie	Where should the screen be placed in a real environment?
Liza	It's interesting and can make the experience more enjoyable.
Ting Zhang	I don't have to worry about whether or not I cross the road when the red light flashes.
Yuhan Zhang	Wow! This looks cool! It is not the same as the current traffic lights!
Louisa	I like this countdown! I can know the remaining waiting time.
Chloe Pei	Very good shape! other aspects I want a more special design.
Jing Sun	The news is very good! Can make my waiting time not so long.
Huichan Huang	The shape is very cute. This arrow light is also very good.
Yuhsuan Luan	This countdown is good, I like it.
Jiaqi He	Wow, is it a kangaroo? So cute.
Pisithpong	Is there a pedestrian button? What the yellow color in the arrow is.
Helin	Wow! This prototype is so cool, what is placed on the screen? Emm, news? But how small the font size is.
Songyu	What the content of the screen is? Is it the shape of the button? So cool
Pairs	Oh, you guys made some improvements. Oh, you play news on the screen, it is suitable and convenient for the pedestrian, is the news about traffic? The appearance of the button is more lovely than before.
Olive	Pedestrian traffic light with the screen? It is creative.
Lucy	If it set on the street, I think it will be interesting.
Can	You changed your concept simpler, I think it is simple and clear now and it is easy to understand
Sreejit	What is the appearance of the button? It is fancy
Nick	Wow the prototype is so cool, I like it. While what the white part of the button is?
Yvonne	I really like the overall design which is neat and clear.
Think Aloud	
Chendu Jiang	What is this? (latest news). That can turn to yellow ?
Yifei Hu	Wow. The arrow sign starts to glow. Why is the arrow sign turn to yellow?
Siqi Ma	Is that the latest news? The size of the screen is small.
Jingxuan Chen	The countdown is the most important thing.
Zhongyi Liu	It is hard to read.
Michele	Omg, I like the Santa's decoration.
Fan Yang	That was so cute! (cartoon decoration).
Kelu	Too many words, it is hard to read.
Xiangyu Lu	So many words, I prefer the picture.
Tingting Wang	This Cartoon decoration can be changed?
Lisa	Oh, I can see how much time i need to wait for, that's great! I always want to know that.
SaiSai	I can read that news while i am waiting for the light that is great, but i can't see that very well because the size is to small for me.
Issai Mei	Is that a Santa Claus? What is that mean for? I don't think the Santa Claus is necessary .
Yuqi	That screen is cool! Will the cost be too high in future?
Lin	Is that a countdown system? So i can see the time i am waiting , that is cool.
Rosa	The arrow will light up when i pressed the button? That is a smart idea! Because now there is no feedback at all , that is very annoying.
Nigel	Is the screen only play news? Are there any animations?
Di Fu	Is the screen just this small? Because I can not read it clearly now.
Gabriella	I like the light of the litter arrow , that is very useful.
Zhou	Is that light of the arrow will light up immediately when i pressed the button?

6. Brainstorming

	Round 1	Round 2	Round 3	Round 4
Idea 1	The appearance of the buttons is very monotonous. The appearance can be changed in some way.	The appearance of the button can vary according to different suburbs.	The appearance can vary according to the festival, and different festivals can have different appearances.	It can be the shape of Santa Claus during Christmas, or kangaroos or koalas, which can attract the attention of tourists.
Idea 2	Jokes or news can help reduce boredom during people's waiting, but it is wasteful by printing paper strips.	Can add a screen instead of a paper strip.	The content on the screen is not necessarily fixed, it can be some news, advertisements, animations...	It can add a message board function; everyone can write some comments on it; it may be the name of your favorite restaurant or some renting information.
Idea 3	The green button light can be changed. It may give people the wrong feeling that they can cross the road.	The color of button light can be changed to red.	Can be changed to arrow light	Can be changed to a yellow arrow light

7. Persona

Persona 1: Naomi



I hope when I press the button there will have some feedback

Demographics

Age: 21

Nationality:

Beijing, China

Gender: Female

Occupation: University student

Location: Sydney

BIO

Naomi is a international student who is currently in third year of the university student in USYD. She needs to go to school third days a week. She walks to school every time, She often forgets to press the button, and at the same time no one to press the button.

In fact, the figure of the countdown is more obvious and direct for people. Because when the traffic light turns to red people wants to cross the road but they did not know how much time the red light will be flashing.

Goals & Needs

- Number countdown signals
- Display the prompt if someone pressed the button
- Date and time display on the traffic light
- Latest news about the city

Behaviours

- Expectations for different traffic light experiences
- The desired value of the button responding
- Satisfaction with the shape of pedestrian button
- Satisfaction with the pedestrian traffic light

Persona 2: Olive



I hope to have something to do when I wait for the traffic lights.

BIO

Olive is a university student who is currently in the second year of her university in USYD. She feels bored when she waiting for the traffic lights and she doesn't like to play her mobile phone while waiting.

Recently, a treaty promulgated by the government shows that someone who cross the road playing mobile phones will be fines. It lead her dare to play her mobile phone on the traffic light. In this way, it is really boring to wait for the traffic light and she hopes she can have something to do while waiting.

Demographics

Age: 21

Nationality:

ChangChun, China

Gender: Female

Occupation: university student

Location: Sydney

Goals & Needs

- Be able to Know how long the light will turn to green
- Something helps to kill the waiting time
- Reaction when someone press the button.

Behaviours

- Expectations for different traffic light experiences
- The desired value of the button responding
- Satisfaction with the shape of pedestrian button
- Satisfaction with the pedestrian traffic light

Persona 3: Carvie



I hope there will be some feedback after I press the button.

Demographics

Age: 23
Nationality: China
Gender: Female
Occupation: University student
Location: Sydney

BIO

Carvie is a student who is currently in the first year of the university in USYD. She lives in an apartment near the school, and often chooses to walk to school. She often needs to cross the intersection with traffic lights.

In fact, many people choose to play phones in order to kill the time when waiting for the traffic lights. Because the time will be particularly slow for them when waiting. And for some intersections close to each other, many people will go through the red lights. This is very unsafe.

Goals & Needs

- It was boring when waiting for the traffic lights.
- Reaction when someone press the button.
- Countdown system.

Behaviours

- Expectations for different traffic light experiences
- The desired value of the button responding
- Satisfaction with the shape of pedestrian button
- Satisfaction with the pedestrian traffic light

Persona 4: Nigel



I hope there will be some feedback after I press the button.

Demographics

Age: 21
Nationality: ChangChun, China
Gender: Male
Occupation: University student
Location: Sydney

BIO

Nigel is an international student who is currently in the second year of the university in USYD. He has been waiting for the traffic light for a long time due to nobody pressing the button. Meanwhile he thinks that waiting for the traffic lights is very boring.

There is no feedback when people pressed the button, therefore people often press that button repeatedly in Sydney. Because of this, many of the buttons that cause traffic lights become bumpy. Because he saw many people pressing the button repeatedly, which also caused him to press the button repeatedly every time he waited for the traffic light.

Goals & Needs

- More interaction when waiting the traffic light.
- Countdown system.
- Something to do when waiting for the traffic light
- Reaction when someone press the button.

Behaviours

- Expectations for different traffic light experiences
- The desired value of the button responding
- Satisfaction with the shape of pedestrian button
- Satisfaction with the pedestrian traffic light

8.Consent Form

User Testing 1

[usability.gov](#) Improving the user experience

usability.gov Ensuring user satisfaction

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usability.gov Improving the User Experience

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Consent Form

I agree to participate in the study conducted by [Name].

I understand that participation in this study is voluntary and I agree to immediately name any potential participant who may be interested in participating in this study environment.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

Dear: Yehan

Please print your name: Yehan

Please sign your name: Yehan

Thank you!

We appreciate your participation.

 [usability.gov](#) Part of the User Experience Research and Usability Improvement Program

Consent Form

I agree to participate in the study conducted by Name: [REDACTED]

I understand that participation in the study is voluntary and I agree to immediately raise any concerns or stop participating if I am uncomfortable continuing to work with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

Date: 11.9.2019 

Please print your name: Eve Stoltz

Please sign your name: Eve Stoltz

Thank you!

We appreciate your participation.

Consent Form

I agree to participate in the study conducted by Team _____.

I understand that participation in the study is voluntary and I agree to immediately cease any communication with the researcher if I feel uncomfortable or if I have any questions about the study.

I understand that those sessions will be video recorded, and used informally for data analysis.

Please use best to indicate that you have read and you understand the information on this form and that any questions you might have about the answer have been answered.

Date: 11/27/19

Please print your name: Tingting Yu

Please sign your name: Tingting Yu

Thank you!

We appreciate your participation.

Consent Form

I agree to participate in the study conducted by [Name].

I understand that participation in this study is voluntary and agrees to immediately cease any communication with the researcher if he or she feels uncomfortable doing so.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understood the information on this form and that any questions you might have about the session have been answered.

Date: 12/07/14

Please print your name: V.C. HARRIS

Please sign your name: [Signature]

Thank you!

We appreciate your participation.

Consent Form

I agree to participate in the study conducted by [Name] 1

I understand that participation in this study is voluntary and I agree to immediately stop any concerns or areas of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please let me know if you have any questions you may have about the information on this form and tell me any questions you may have about the session we have been discussing.

Date: 12/19

Please print your name: Hector

Please sign your name: Gary

Thank you!

We appreciate your participation.

Consent Form

I agree to participate in the study conducted by [Name].
 I understand that participation in this study is voluntary and I agree to immediately rule any responses that may be considered inappropriate or harassing.
 I understand that these sessions will be video recorded, and used merely for data analysis.
 Please sign below to indicate that you have read and/or understood the information on this form
 and that any questions you might have about the session have been answered.

Date: 26/04/09

Please print your name ABZ21

Please sign your name: Reginald Jones

Thank you!

We appreciate your participation.

 usability.gov center for user experience

<p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. <input checked="" type="checkbox"/></p> <p>I understand that participation in the study is voluntary and I agree to immediately cease any conduct that may be disorderly during the session with the study administrator. <input checked="" type="checkbox"/></p> <p>I understand that all data will be collected, stored, and used internally for this analysis. <input checked="" type="checkbox"/></p> <p>Please sign twice to indicate that you have read and understood the information on this form and that any questions you might have about the session have been answered.</p> <p>Given: 1/27/2019</p> <p>Please print your name: <u>Ron Seng</u></p> <p>Please sign your name: <u>RS</u></p> <p>Thank you!</p> <p>We appreciate your participation.</p>	
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Consent Form

I agree to participate in the study conducted by [Name].
 I understand that my participation is voluntary and I have the right to withdraw at any
 convenience or areas of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.
 Please sign below to indicate that you have read and you understand the information on this form
 as well as any questions you might have about the session have been answered.

Date: 12/14

Please print your name: _____

Please sign your name: See Long

Thank you!

We appreciate your participation.

Consent Form

I agree to participate in the study conducted by Name 1

I understand that participation in this study is voluntary and I agree to immediately raise any concerns or seek of direction if I feel uncomfortable with any aspect of the study.

I understand that my responses can be either recorded, and used internally for data analysis.

Please sign here to indicate that you have read and you understand the information on this form and that any questions you may have about the session have been answered.

Date: 11/07/2018

Please print your name: Susan L.

Please sign your name: Susan L.

Thank you!

We appreciate your participation.

<p>usability.gov</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis.</p> <p>Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>12/09/2019</u></p> <p>Please print your name: <u>HASAN SHAHARIAR SUNNY</u></p> <p>Please sign your name: <u>Sunny Hasan</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis.</p> <p>Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>12/09/2019</u></p> <p>Please print your name: <u>Nancy Li</u></p> <p>Please sign your name: <u>Nancy Li</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis.</p> <p>Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>12/10/2019</u></p> <p>Please print your name: <u>Wenbo Li</u></p> <p>Please sign your name: <u>Wenbo Li</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis.</p> <p>Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>12/10/2019</u></p> <p>Please print your name: <u>Yuxing Li</u></p> <p>Please sign your name: <u>Yuxing Li</u></p> <p>Thank you! We appreciate your participation.</p>
<p>usability.gov</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis.</p> <p>Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>12/10/2019</u></p> <p>Please print your name: <u>Peng Li</u></p> <p>Please sign your name: <u>Peng Li</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis.</p> <p>Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>12/10/2019</u></p> <p>Please print your name: <u>Yuxing Li</u></p> <p>Please sign your name: <u>Yuxing Li</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis.</p> <p>Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>12/10/2019</u></p> <p>Please print your name: <u>Yuxing Li</u></p> <p>Please sign your name: <u>Yuxing Li</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis.</p> <p>Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>12/10/2019</u></p> <p>Please print your name: <u>Yuxing Li</u></p> <p>Please sign your name: <u>Yuxing Li</u></p> <p>Thank you! We appreciate your participation.</p>

usability.gov Improving the Web Experience

Consent Form

I agree to participate in the study conducted by [Name].

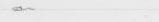
I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

Date: 11/1/19

Please print your name: Lorraine Li

Please sign your name: 

Thank you!
We appreciate your participation.



usability.gov Improving the Web Experience

Consent Form

I agree to participate in the study conducted by [Name].

I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

Date: 11/1/19

Please print your name: Lorraine Li

Please sign your name: 

Thank you!
We appreciate your participation.



usability.gov Improving the Web Experience

Consent Form

I agree to participate in the study conducted by [Name].

I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

Date: 11/1/19

Please print your name: Nicole Schmitt

Please sign your name: 

Thank you!
We appreciate your participation.



usability.gov Improving the Web Experience

Consent Form

I agree to participate in the study conducted by [Name].

I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

Date: 11/1/19

Please print your name: Lin Chapman

Please sign your name: 

Thank you!
We appreciate your participation.



usability.gov Improving the Web Experience

Consent Form

I agree to participate in the study conducted by [Name].

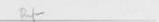
I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

Date: 11/1/19

Please print your name: Regina Resnikoff

Please sign your name: 

Thank you!
We appreciate your participation.



usability.gov Improving the Web Experience

Consent Form

I agree to participate in the study conducted by [Name].

I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

Date: 11/1/19

Please print your name: Jennifer Dowling

Please sign your name: 

Thank you!
We appreciate your participation.



usability.gov Improving the Web Experience

Consent Form

I agree to participate in the study conducted by [Name].

I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

Date: 11/1/19

Please print your name: Xiaohan Geng

Please sign your name: 

Thank you!
We appreciate your participation.



usability.gov Improving the Web Experience

Consent Form

I agree to participate in the study conducted by [Name].

I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

Date: 11/1/19

Please print your name: Abby

Please sign your name: 

Thank you!
We appreciate your participation.



<p>Consent Form</p> <p>I agree to participate in the study conducted by [Name] _____</p> <p>I understand the participation in this study is voluntary and agrees to immediately raise any concerns or questions about the study with the investigator at any time.</p> <p>I understand that these sessions will be video recorded, and used primarily for data analysis.</p> <p>Please sign below to indicate that you have read and understood the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>04/17/13</u> Signature: <u>Susan Y.</u></p> <hr/> <p>Please print your name: <u>Susan Y.</u></p> <hr/> <p>Please sign your name: <u>Susan Y.</u></p> <hr/>

Use of Biometric Data

Consent Form

I agree to participate in the study conducted by [Name].
 I understand that participation in the study is voluntary and I agree to immediately cease any consent to participate if I feel uncomfortable or if I am asked to do anything which makes me uncomfortable.
 I understand that these sessions will be video recorded, and used internally for data analysis.
 Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

Date: 11/11/11 (f)

Please print your name: Michelle Zhou

Please sign your name: 

Thank you!

We appreciate your participation.

 usability.gov Part of the U.S. General Services Administration

Consent Form

I agree to participate in the study conducted by [Name]

I understand that participation in this study is voluntary and I agree to immediately cease any consent or participation if I feel uncomfortable or if I do not understand any question or instruction.

I understand that these questions will be video recorded, and used internally for data analysis.

Please sign here to indicate that you have read and you understand the information on this form and that the any questions you might have about the session have been answered.

Date: July 10, 2013

Please print your name: Edith Hwang

Please sign your name: Edith Hwang

Thank you!

We appreciate your participation.

Consent Form

I agree to participate in the study conducted by [Name]

I understand that participation in this study is voluntary and I agree to immediately cease any consent or participation if I feel uncomfortable or if I change my mind.

I understand that these measures will be taken monthly and used internally for data analysis.

Please sign below to indicate that you have read and you understood the information on this form and that any questions you might have about the session have been answered.

Date: July 17, 2013 Signature: Susan Y.

Please print your name: Susan Y.

Please sign your name: Susan Y.

Thank you!

We appreciate your participation.

Use & Consent Form

I agree to participate in the study conducted by [Name].
I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.
I understand that my participation can be terminated at any time without penalty for data analysis.
Please sign below to indicate that you have read and you understand the information contained on this form
and that any questions you might have about the session have been answered.

Dear [Name]:

Please print your name: [Signature]

Please sign your name: [Signature]

Thank you!

We appreciate your participation.

<p>Consent Form</p> <p>I agree to participate in the study conducted by / Name 1</p> <p>I understand that participation in this study is voluntary and I agree to immediately cease any activities or areas of research if I feel uncomfortable or if I have any concerns about the study.</p> <p>I understand that my responses will be kept private, and used internally for data analysis.</p> <p>Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>2013-7</u></p> <p>Please print your name: <u>Natalie</u></p> <p>Please sign your name: <u>Natalie</u></p> <p>Thank you!</p> <p>We appreciate your participation.</p>

<p>Consent Form</p> <p>I agree to participate in the study introduced by [] Name: <input type="text"/></p> <p>I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the researcher.</p> <p>I understand that my participation is confidential and will remain so, and that my responses will not be used directly for data analysis.</p> <p>Please sign below to indicate that you have read and you understood the information on this form and that any questions you have had and any concerns you have about the session have been addressed.</p> <p>Date: <input type="text"/></p> <p>Please print your name: <input type="text"/></p> <p>Please sign your name: <input type="text"/></p> <p>Thank you!</p> <p>We appreciate your participation.</p>

Consent Form

I agree to participate in the study conducted by [Name] I understand that participation is voluntary and I agree to immediately raise any concern or interest I may have during the session with the researcher I understand that my responses will be recorded and used internally for data analysis

Please use this space to indicate what you need and any questions you might have about the session have been answered

Date: 2011-1-7

Please print your name: John Smith

Please sign your name: John Smith

Thank you!
We appreciate your participation.

Usefulness Consent Form

I agree to participate in the study conducted by [Name]

I understand the participation in this study is voluntary and I agree to compensated any expenses related to my participation in this study, including travel and mileage.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and understood the information on this form and that any questions you might have about the session have been answered.

Date 2017-7-9

Please print your name: Alex

Please sign your name: Alex

Thank you!

We appreciate your participation.

<p>User: <u>Leigh</u> </p> <p>Consent Form</p> <p>I agree to participate in the study conducted by J. Hines.</p> <p>I understand participation in this study is voluntary and I agree to immediately cease any consent or agreement if discomfort during the study occurs.</p> <p>I understand that these sessions will be video recorded, and used internally for data analysis.</p> <p>Please sign below to indicate that you have read and you understand the information on this form and that you are willing to participate in this study.</p> <p>Date: <u>2013-07-17</u></p> <p>Please print your name: <u>Leigh</u></p> <hr/> <p>Please sign your name: <u>Leigh</u></p> <hr/> <p>Thank you!</p> <p>We appreciate your participation.</p>
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**Use of Holder 2
Consent Form**

I agree to participate in the study conducted by [] Name 1

I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and the questions you might have about the session have been answered.

DKW

Please print your name: [] (AAU)

Please sign your name: []

Thank you!

We appreciate your participation.

**Use of Human Subjects
Consent Form**

I agree to participate in the study conducted by [Name]. 1

I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of distress during this study with the study administrator.

I understand that these sessions will be video recorded, and used internally for analysis.

Please sign below to indicate that you have read and you understand the information on this form and that the following questions you might have about the session have been answered.

Date: 11/19/04

Please print your name: Linda A. West

Please sign your name: Linda A. West

Thank you!

We appreciate your participation.

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Use Test Consent Form

I agree to participate in the study conducted by [Name]. 1

I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that the questions you might have about the session have been answered.

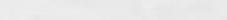
Date: 17/07/09

Please print your name: Theresa

Please sign your name: O.A.

Thank you!

We appreciate your participation.



Useful Links

Consent Form

I agree to participate in the study conducted by [] Name: 1

I understand that participation in this study is voluntary and I agree to immediately cease any concerns or areas of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

Date: 11/14/14

Please print your name: Lori Ann L.

Please sign your name: Lori

Thank you!

We appreciate your participation.

Consent Form

I agree to participate in the study conducted by [Name].
 I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.
 I understand that these sessions will be video recorded, and used internally for data analysis.
 Please sign below to indicate that you have read and you understand the information on this form and that you are comfortable with what you might be asked if the session have been answered.

Date: 11/10/14

Please print your name: MARY LINDSON

Please sign your name: E. Lindson

Thank you!

We appreciate your participation.

usability.gov Learning from User Experience

User Experience Consent Form

I agree to participate in the study conducted by [Name]. 1

I understand that participation in this study is voluntary and I agree to immediately cease any concerns or areas of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that the any questions you might have about the session have been answered.

Date: 11/14/09

Please print your name: Tingy Peng

Please sign your name: Tingy

Thank you!

We appreciate your participation.

usability.gov
Participation in Our Research

usability.gov

Participate in Usability Studies

Consent Form

I agree to participate

I agree to participate in the study conducted by [Name].

1

I understand that participation in this study is voluntary and I agree to immediately have any concerns or sense of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

Date: 11/14/04

Please print your name: Christina

Please sign your name: Christina

Thank you!

We appreciate your participation.

<p>Use Your Name Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of distress during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis.</p> <p>Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>11/01/14</u></p> <p>Please print your name: <u>JUN SUN</u></p> <p>Please sign your name: <u>Jun Sun</u></p> <p><i>Thank you!</i></p> <p>We appreciate your participation.</p>

<p>usability.gov</p> <p>User Testing 1.</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>17/09/19</u></p> <p>Please print your name: <u>Zhenzhen Ding</u></p> <p>Please sign your name: <u>Zhenzhen Ding</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>UT2</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>17/09/19</u></p> <p>Please print your name: <u>Yiyan Guo</u></p> <p>Please sign your name: <u>Yiyan Guo</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>UT2</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>17/09/19</u></p> <p>Please print your name: <u>Longguan</u></p> <p>Please sign your name: <u>Longguan</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>User Testing 2.</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>17/09/19</u></p> <p>Please print your name: <u>Weiting Chen</u></p> <p>Please sign your name: <u>Weiting Chen</u></p> <p>Thank you! We appreciate your participation.</p>
<p>usability.gov</p> <p>UT2</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>17/09/19</u></p> <p>Please print your name: <u>Zhuoying Wu</u></p> <p>Please sign your name: <u>Zhuoying Wu</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>UT2</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>17/09/19</u></p> <p>Please print your name: <u>Xiaoyun</u></p> <p>Please sign your name: <u>Xiaoyun</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>UT2</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>17/09/19</u></p> <p>Please print your name: <u>EASINA GOMEZ</u></p> <p>Please sign your name: <u>EASINA GOMEZ</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>UT2</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>17/09/19</u></p> <p>Please print your name: <u>Jeremy</u></p> <p>Please sign your name: <u>AA</u></p> <p>Thank you! We appreciate your participation.</p>
<p>usability.gov</p> <p>UT2</p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>17/09/19</u></p> <p>Please print your name: <u>Ben Clegg</u></p> <p>Please sign your name: <u>B</u></p> <p>Thank you! We appreciate your participation.</p>			

User Testing 3

<p>usability.gov</p> <p>User Testing 2 Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns about the study or my participation with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>1/19/19</u></p> <p>Please print your name: <u>CHENDU LIANG</u></p> <p>Please sign your name: <u>李昌都</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>User Testing 2 Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns about the study or my participation with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>1/19/19</u></p> <p>Please print your name: <u>Yifei Hu</u></p> <p>Please sign your name: <u>许飞</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>User Testing 2 Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns about the study or my participation with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>1/19/19</u></p> <p>Please print your name: <u>Xiangyu Lu</u></p> <p>Please sign your name: <u>陆祥宇</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>User Testing 2 Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns about the study or my participation with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>1/19/19</u></p> <p>Please print your name: <u>Tingting Wang</u></p> <p>Please sign your name: <u>王婷婷</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>User Testing 2 Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns about the study or my participation with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>1/19/19</u></p> <p>Please print your name: <u>FAN BAI</u></p> <p>Please sign your name: <u>范百</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>User Testing 2 Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns about the study or my participation with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>1/19/19</u></p> <p>Please print your name: <u>Kelv Li</u></p> <p>Please sign your name: <u>李伟</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>User Testing 2 Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns about the study or my participation with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>1/19/19</u></p> <p>Please print your name: <u>Michelle Zhang</u></p> <p>Please sign your name: <u>张米雪</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>User Testing 2 Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns about the study or my participation with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>1/19/19</u></p> <p>Please print your name: <u>Jingxian Liu</u></p> <p>Please sign your name: <u>刘敬献</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p>User Testing 2 Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns about the study or my participation with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>1/19/19</u></p> <p>Please print your name: <u>Siqi Ma</u></p> <p>Please sign your name: <u>马思琪</u></p> <p>Thank you! We appreciate your participation.</p>
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12/10/2018 4:56PM

Consent Form

I agree to participate in the study conducted by / Name:

I understand that participation in this study is voluntary and I agree to immediately raise any concerns or stop participation at any time if I feel uncomfortable or if I have any questions.

I understand that these sessions will be video recorded, and used primarily for data analysis.

Please sign below to indicate that you have read and you understand the information on the form and that any questions you might have about the session have been answered.

Date:

Please print your name:

Please sign your name:

Thank you!

We appreciate your participation.

<p>Consent Form</p> <p>High school seniors who are in the study conducted by U.S. News</p> <p>I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.</p> <p>I understand that these sessions will be video recorded, and used internally for data analysis.</p> <p>Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>10/13/11</u></p> <p>Please print your name: <u>Rosa M. Valderrama</u></p> <p>Please sign your name: <u>Rosa M. Valderrama</u></p> <p>Thank you!</p> <p>We appreciate your participation.</p>

Consent Form

I agree to participate in the study conducted by [Name]. 1

I understand that participation in this study is voluntary and I agree to immediately cease any involvement in this study if I become uncomfortable with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

DOB: 12/12/12

Please print your name: Bob Murphy

Please sign your name: Bob Murphy

Thank you!

We appreciate your participation.

Consent Form

I agree to participate in the study conducted by 1 Name: _____

I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.

I understand that three sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understood the information on this form and that any questions you might have about the session have been answered.

Date: 2011-7-7

Please print your name: Yu Gai Zhang

Please sign your name: Yu Gai Zhang

Thank you!

We appreciate your participation.

Consent Form

I agree to participate in the study conducted by [Name].
 I understand that participation in the study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.
 I understand that my participation in this study will not affect my medical care or treatment or any other data analysis.
 Please sign here to indicate that you have read and you understand the information on the form and that any questions you might have about the session have been answered.

Date: 2013-3-7

Please print your name: _____

Please sign your name: Chloe Pei

Thank you!

We appreciate your participation

usability.gov conducted by the U.S. General Services Administration

usability.gov Improving user experience

Consent Form

I agree to participate in the study conducted by Name: _____

I understand that participation in this study is voluntary and I agree to immediately cease any involvement if I feel uncomfortable or if I feel that my participation is being unfairly administered.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

Date: 2011-1-1

Please print your name: Susan B.

Please sign your name: Susan B.

Thank you!

We appreciate your participation.

Consent Form

I agree to participate in the study conducted by [Name] 1

I understand that participation in this study is voluntary and I agree to immediately leave any session if I feel uncomfortable or if I feel that my participation is causing any discomfort to me.

I understand that these sessions will be video recorded, and used merely for data analysis.

Please sign below to indicate that you have read and you understand the information on the form and that any questions you might have about the session have been answered.

Date: 2/13/13

Please print your name: _____

Please sign your name: Yolanda Zhang

Thank you!

We appreciate your participation.

Consent Form

I agree to participate in the study conducted by [Name].

I understand that participation in this study is voluntary and I agree to immediately raise any concerns or report discomfort during the study. The study administrator will be available to answer any questions you may have about the study research, as well as to review the data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.

Date: 2013-1-5

Please print your name: Lia Diamond

Please sign your name: Lia

Thank you!

We appreciate your participation.

Consent Form

I agree to participate in the study conducted by [Name].
 I understand that participation in this study is voluntary and I agree to immediately cease any concerns or areas of discomfort that may arise during the study. I also agree to fully cooperate with all procedures and assessments required to view research, and to fully consent for data analysis.

Please sign here to indicate that you have met and you understand the information on the form and that any questions you might have about the session have been answered.

Date: 2013-9-17

Please print your name: D. F.

Please sign your name: D. F.

Thank you!

We appreciate your participation.

<p>Consent Form</p> <p>I agree to participate in the study conducted by [Name] <input type="checkbox"/></p> <p>I understand that participation in this study is voluntary and I agree to immediately voice any concerns or areas of discomfort during the session with the study administrator.</p> <p>I understand that these sessions will be video recorded, and used internally for data analysis.</p> <p>Please indicate if you have any questions about this study. If so, please write them down on the form and that any questions you might have about the session have been answered.</p> <p>Date: <u>3/12/07</u></p> <p>Please print your name: _____</p> <p>Please sign your name: <u>_____ Troy H.</u></p> <p>Thank you! We appreciate your participation.</p>
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Consent Form

I agree to participate in the study conducted by Name _____
 I understand that participation in this study is voluntary and I agree to immediately raise any concern or areas of discomfort during the study with the researcher. I understand that I can withdraw from this study at any time without loss of benefits or compensation.
 I understand that my personal information will be used mainly for data analysis.
 Please also let me indicate that you have met and you understand the information on this form and that any questions you might have about the session have been answered.

Date: 2/27/11

Please print your name: _____

Please sign your name: Andrea

Thank you!
 We appreciate your participation

Consent Form

I agree to participate in the study conducted by [Name]

I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and understood the information on this form and that any questions you might have about the session have been answered.

Date: 01/01/99

Please print your name: Nigel

Please sign your name: Nigel H

Thank you!

We appreciate your participation.

Consent Form

I agree to participate in the study conducted by _____ Name _____
 I understand that my participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator
 I understand that these sessions will be video recorded, and used internally for data analysis.
 Please sign below to indicate what you have read and you understand the information on this form
 and that any questions you might have about the research have been answered.

Date: _____ 7
 Please print your name: _____ JING SUN _____

Please sign your name: _____ HS Su _____

Thank you!
 We appreciate your participation.

Consent Form

I agree to participate in the study conducted by [Name]. I
[Signature]

I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis.

Please sign below to indicate that you have read and you understand the information on this form and that your questions on this form may be answered.

Date: 2013-07-17

Please print your name: Tay Zhang

Please sign your name: [Signature]

Thank you!

We appreciate your participation.

usability.gov Ensuring the User Experience

Consent Form

I agree to participate in the study conducted by [] Name.

I understand that participation in this study is voluntary and I agree to immediately leave any conference or area of discomfort during the session with the study administrator.

I understand that these sessions will be video recorded, and used internally for data analysis. Please indicate if you would like to be included in the video recording. If so, please indicate on this form and that any questions you might have about the session have been answered.

Date: Sept 3, 2013

Please print your name: Lori S.

Please sign your name: Lori S.

Thank you!

We appreciate your participation.

<p>usability.gov</p> <p><i>User Testing ②</i></p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>2015-7-19</u></p> <p>Please print your name: <u>Yong Song Yu Zhang</u></p> <p>Please sign your name: <u>Yong Song Yu Zhang</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p><i>User Testing ③</i></p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>2015-7-19</u></p> <p>Please print your name: <u>Olive Fagundes</u></p> <p>Please sign your name: <u>Olive Fagundes</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p><i>User Testing ④</i></p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>2015-7-19</u></p> <p>Please print your name: <u>DEEPTI CHANDRASEKAR</u></p> <p>Please sign your name: <u>Deepti Chandrasekar</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p><i>User Testing ⑤</i></p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>2015-7-19</u></p> <p>Please print your name: <u>PITSITHONG SAKUNEF</u></p> <p>Please sign your name: <u>Pitsithong Sakunef</u></p> <p>Thank you! We appreciate your participation.</p>
<p>usability.gov</p> <p><i>User Testing ⑥</i></p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>2015-7-19</u></p> <p>Please print your name: <u>Lin He</u></p> <p>Please sign your name: <u>Lin He</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p><i>User Testing ⑦</i></p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>2015-7-19</u></p> <p>Please print your name: <u>Patsy Tag</u></p> <p>Please sign your name: <u>Patsy Tag</u></p> <p>Thank you! We appreciate your participation.</p>	<p>usability.gov</p> <p><i>User Testing ⑧</i></p> <p>Consent Form</p> <p>I agree to participate in the study conducted by [Name]. I understand that participation in this study is voluntary and I agree to immediately raise any concerns or areas of discomfort during the session with the study administrator. I understand that these sessions will be video recorded, and used internally for data analysis. Please sign below to indicate that you have read and you understand the information on this form and that any questions you might have about the session have been answered.</p> <p>Date: <u>2015-7-19</u></p> <p>Please print your name: <u>Lucy Sternkell</u></p> <p>Please sign your name: <u>Lucy Sternkell</u></p> <p>Thank you! We appreciate your participation.</p>	