



# **Final Presentation**

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ME Group 08**



**Yummy Wall  
— Made for take-away**

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**Introduction**

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**Existing Solution**

**3**

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**Summary**

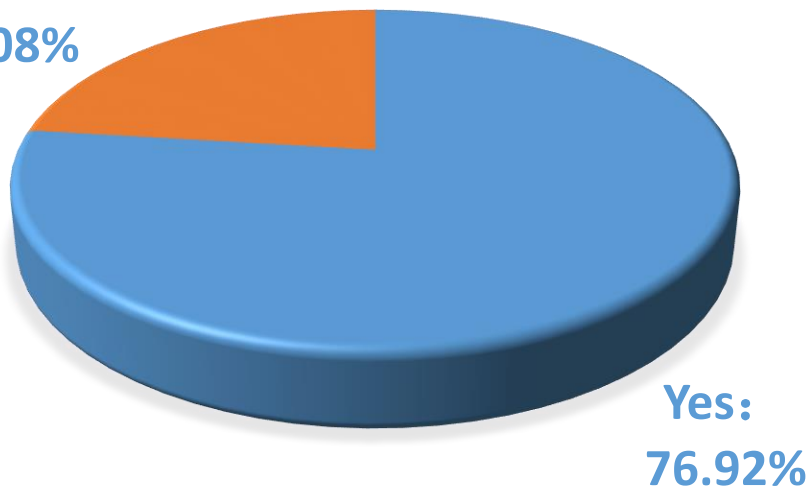
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o  
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# **Introduction**

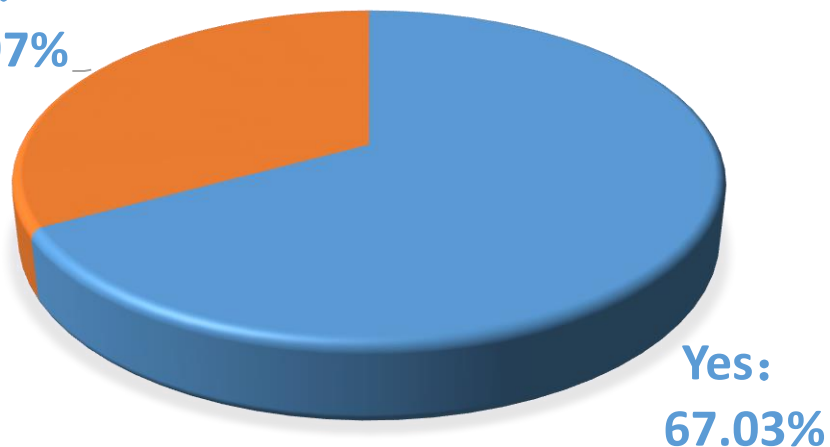
**Spend a long time on waiting in line**

No:  
23.08%



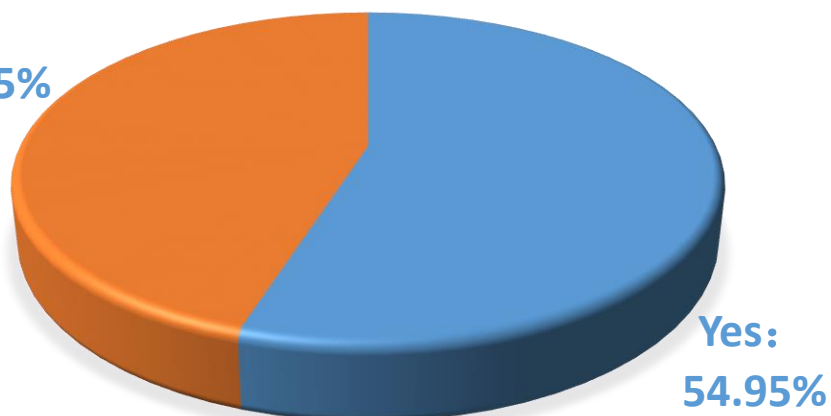
**Take-out always arrive late**

No:  
32.97%

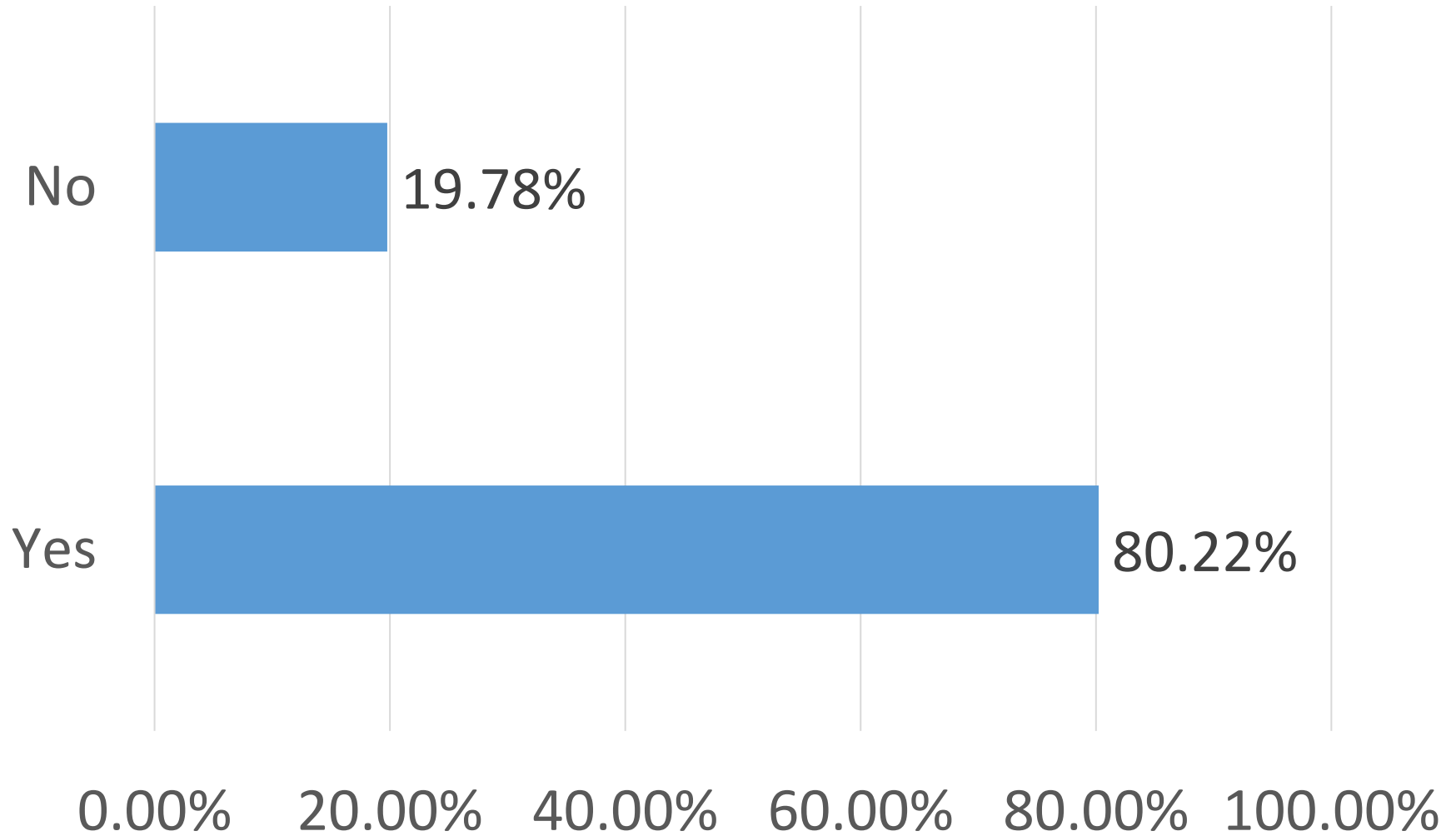


**A long way to travel in order to fetch the food**

No:  
45.05%



## Couriers should be allowed into the campus





**Existing  
Solution**

2

## Waiting in line to take the express delivery



2

# Intelligent express cabinet in Taiyuan University of technology







**Our Solution**

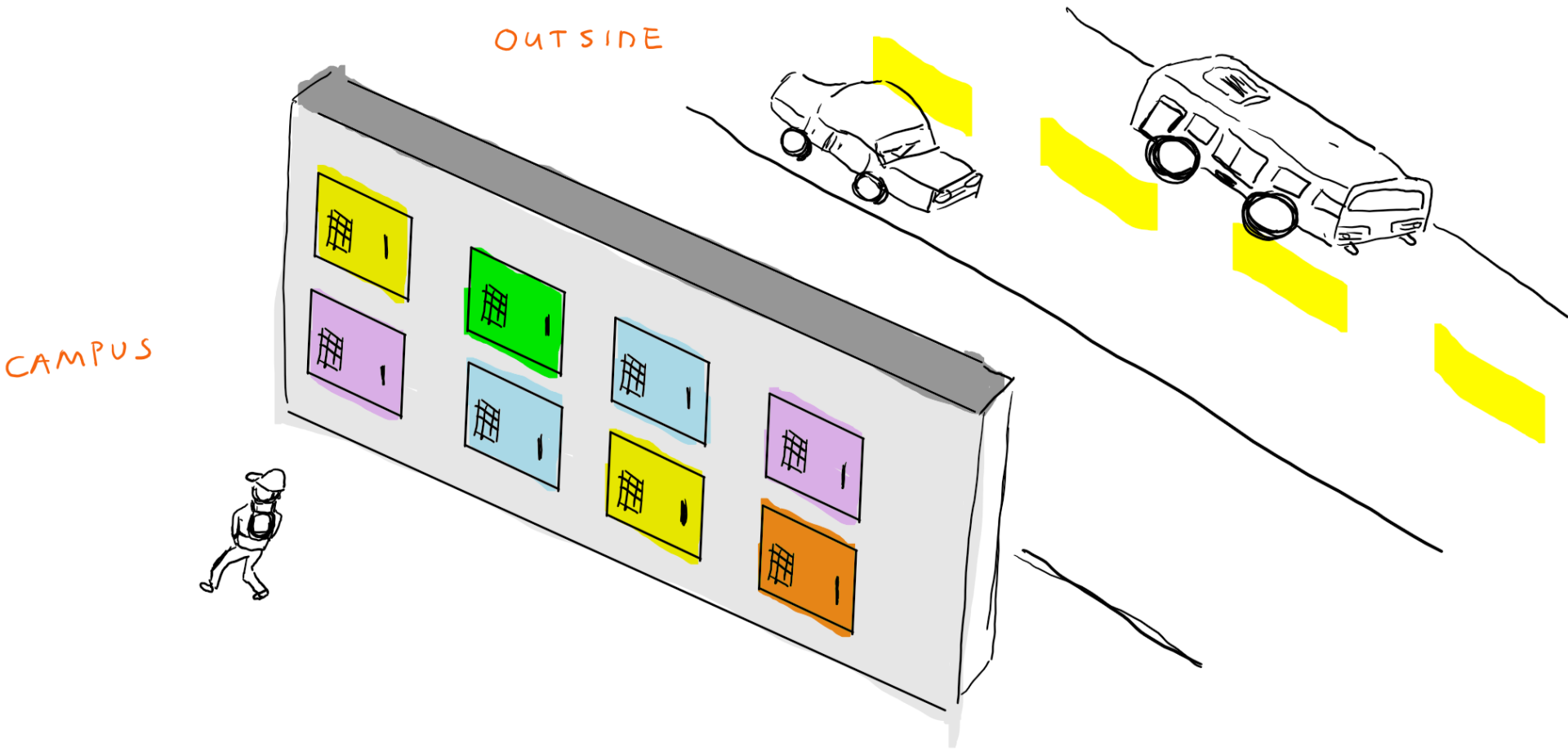
**Reschedule the classes so that they can end in different time?**

- **A complicated class schedule** ×
- **Not effective if intervals are not large enough** ×

**Let the deliverymen in?**

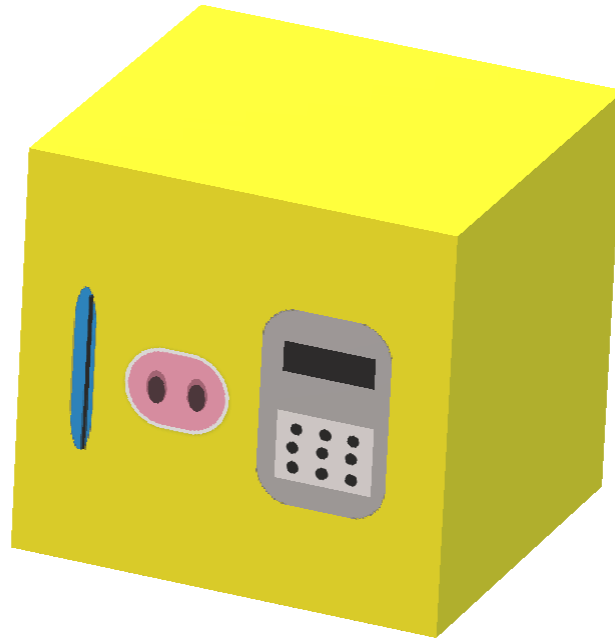
- **Matter of safety** ×
- **Too many take-out food ordered during the same period of time** ×
- **Road may get blocked** ×

- **Fences and time lead to inconvenience.**
- **Make “fences” accessible**
- **Make the delivery on time**



# 3 Some Details

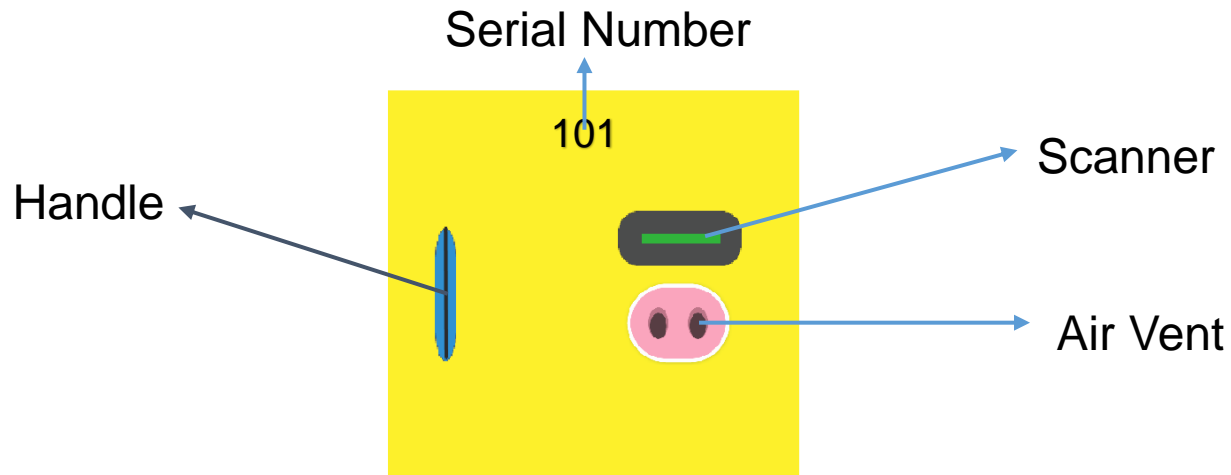
A single box:



The BARN consists many boxes like this to store the take-out food

# 3

## The Outside



An app designed  
for BARN



Get the screen  
scanned



Open the box

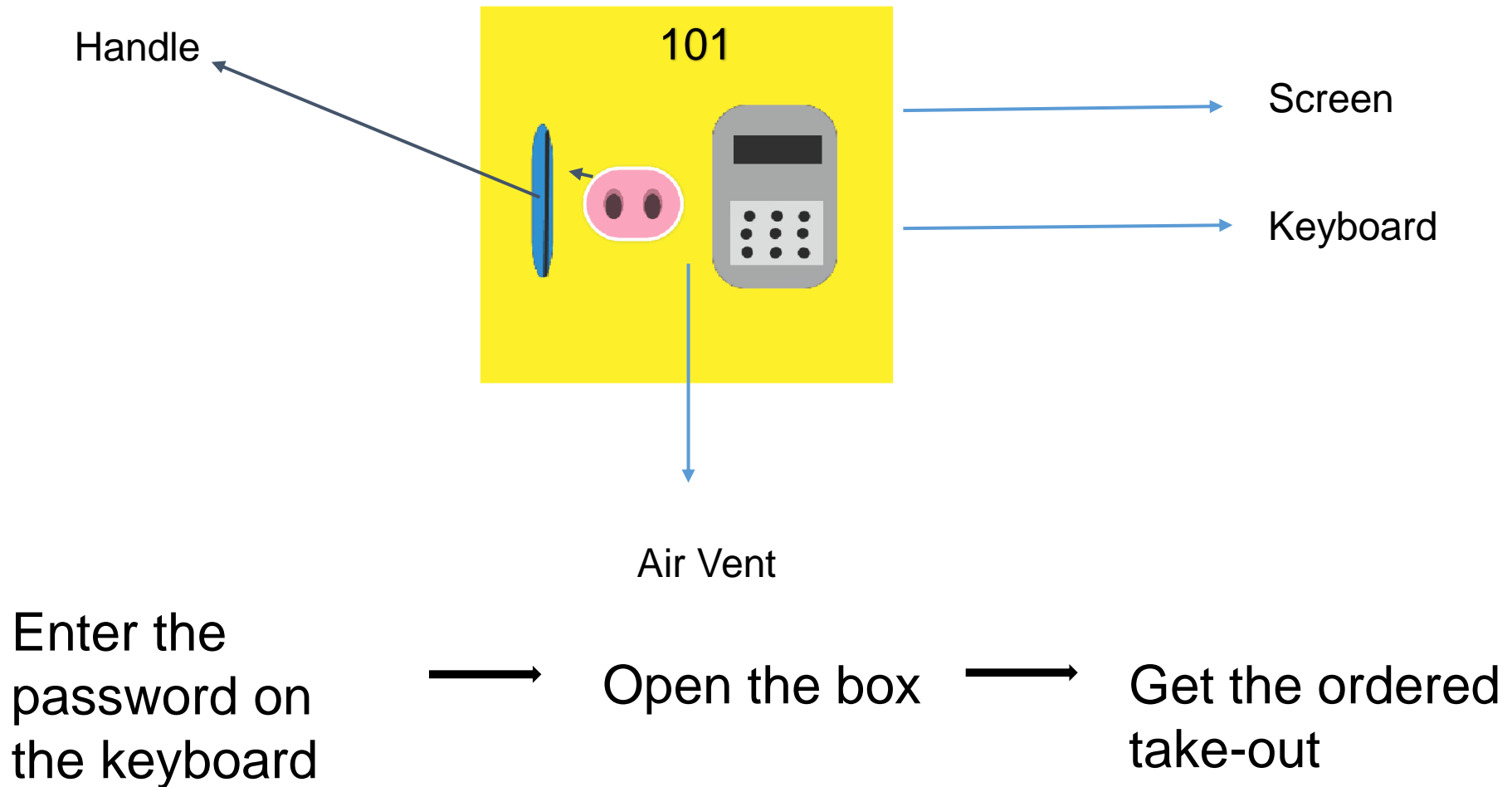


Put the take-out in



A message contains the information of the  
**serial number** of the box and the **password**

# 3 Campus Side



A large, bold, yellow number '4' is positioned on the left side of the slide, partially overlapping the text.

# **Return on Investment (ROI)**



## Part 1

### cost of not fixing the problem

- The last class in the morning makes CQU'ers late for having dinner
- Wait in line for over 40 minutes
- Hard to ensure punctual arrival and need more time because deliveryman doesn't wait for you too long

## Part 2

### cost of the solution

- The main part of the product cost about 1000 yuan
- All the locks cost 3000 to 3500 yuan
- The APP cost 2000 yuan

**The whole system cost almost 7000 yuan**

## Part 3

### benefit of fixing the solution

- Save almost one whole hour in having dinner
- Sleep better in noontime snooze
- Improve learning efficiency in the afternoon
- More flexible takeout times

## Part 4

### cost VS profit

- Over 40 minutes in waiting

VS

Not wait for food anymore

- 7000 yuan in total

VS

An universal profit in students' time distribution

- Harmonious and well-organized dinner time

VS

Hungry and worrisome dinner time



# Summary

# Reference

## Existing solutions:

<http://baijiahao.baidu.com/s?id=1598225019046332746&wfr=spider&for=pc>



**Thanks**