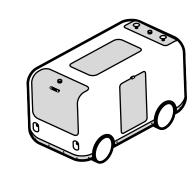
多维策略建构无人驾驶出行体验

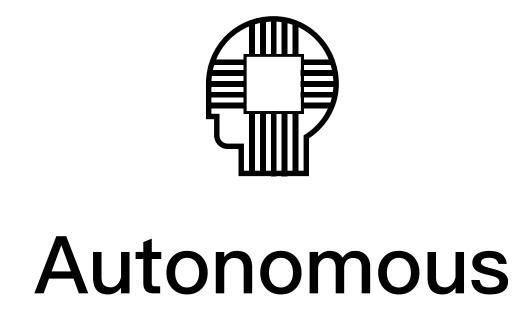
Driving the User Experience for Diverless Urban Mobility:

A Multidimensional Approach and Consideration of Core Issues

周博 ZHOU BO







Driving



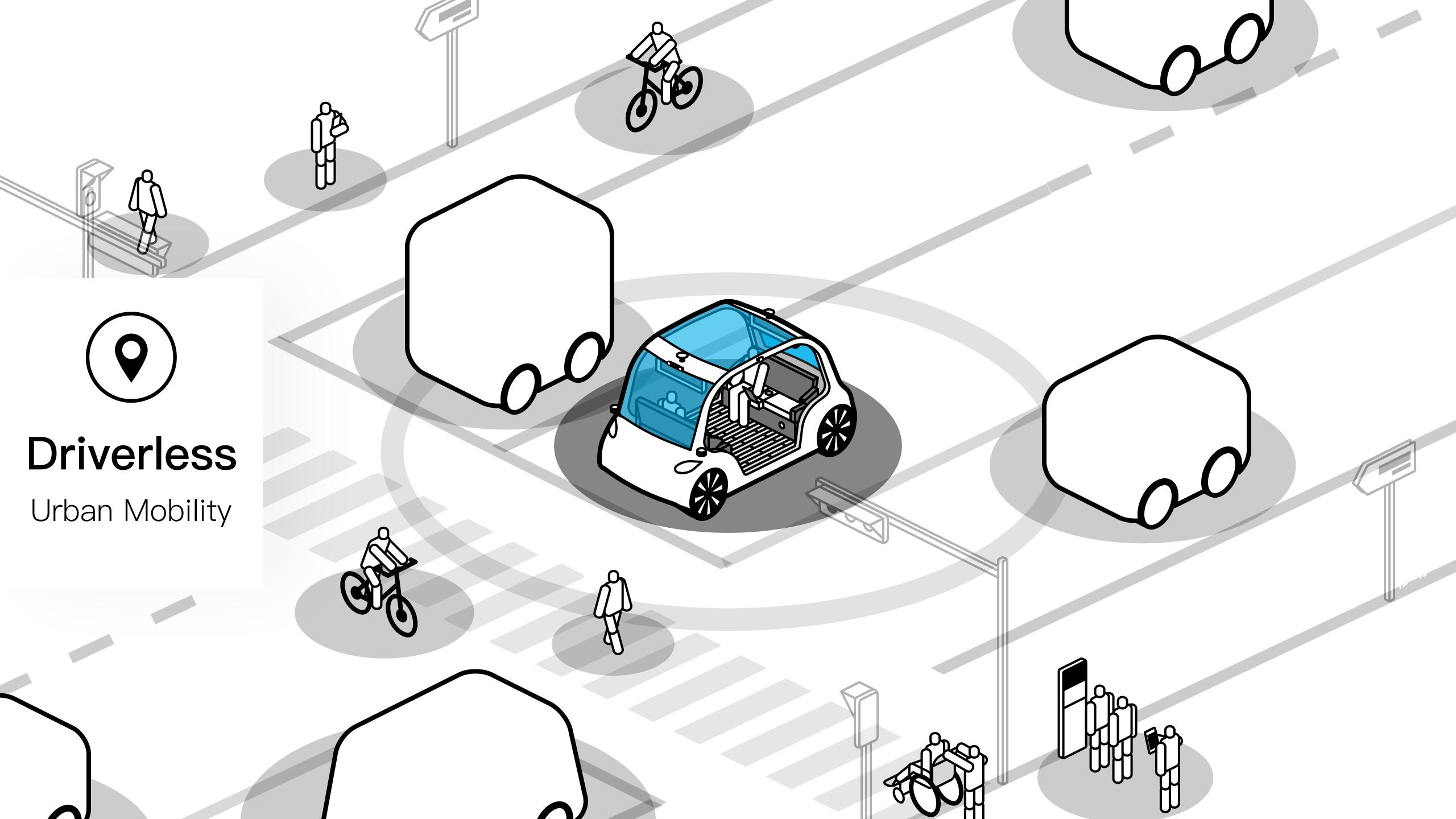
Self-driving

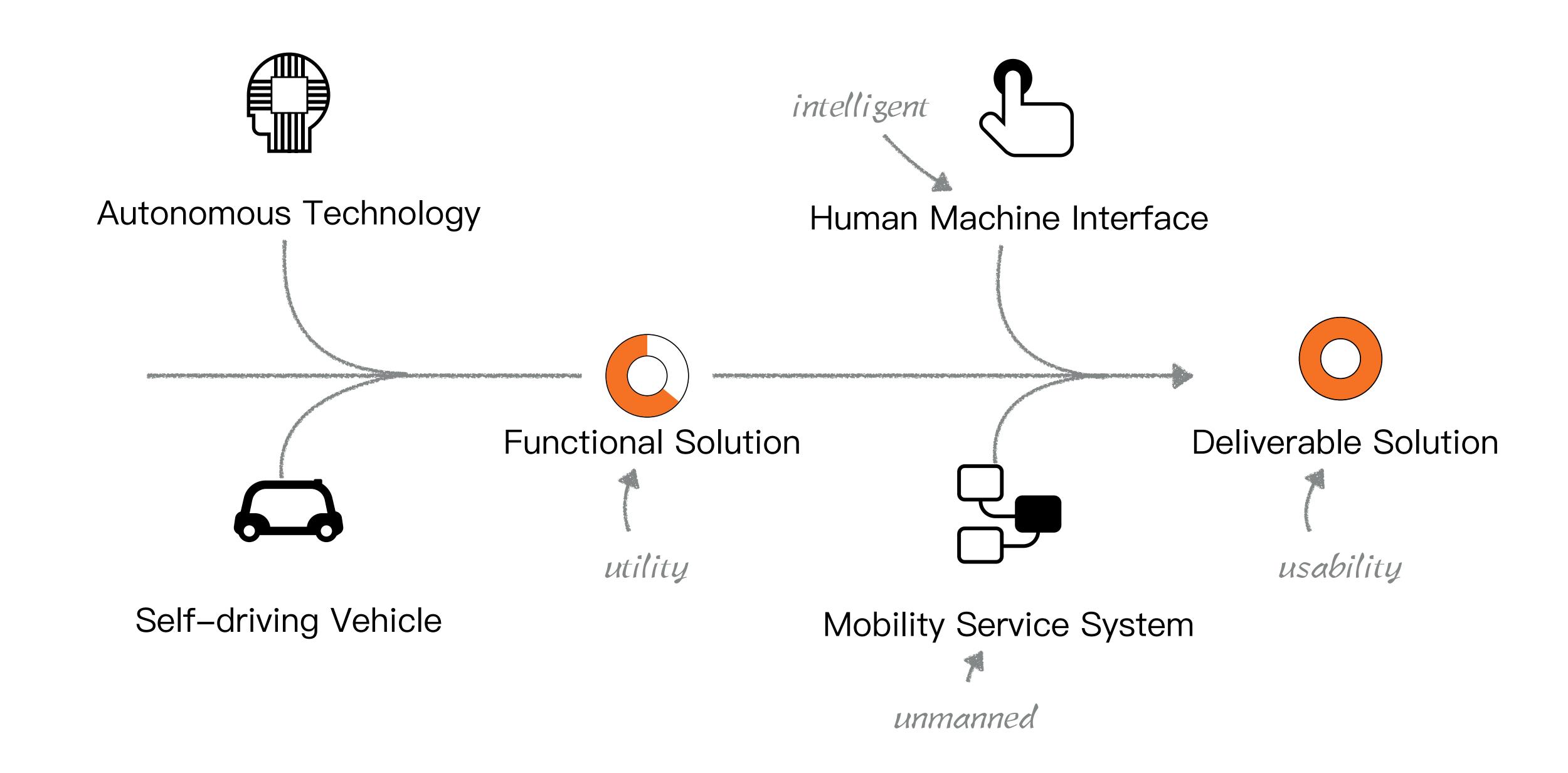
Vehicle



Driverless

Urban Mobility





Human Intervention

每公里人工介入数

Driving

Performance

Smoothness

平顺度

HMI

人机交互

Vehicle

Capability

Autonomous Driving

自动驾驶

Service System

服务体系

Context

Complexity

Transportation System

交通系统

Context

Complexity

UNMANNED

无人化

FTUE

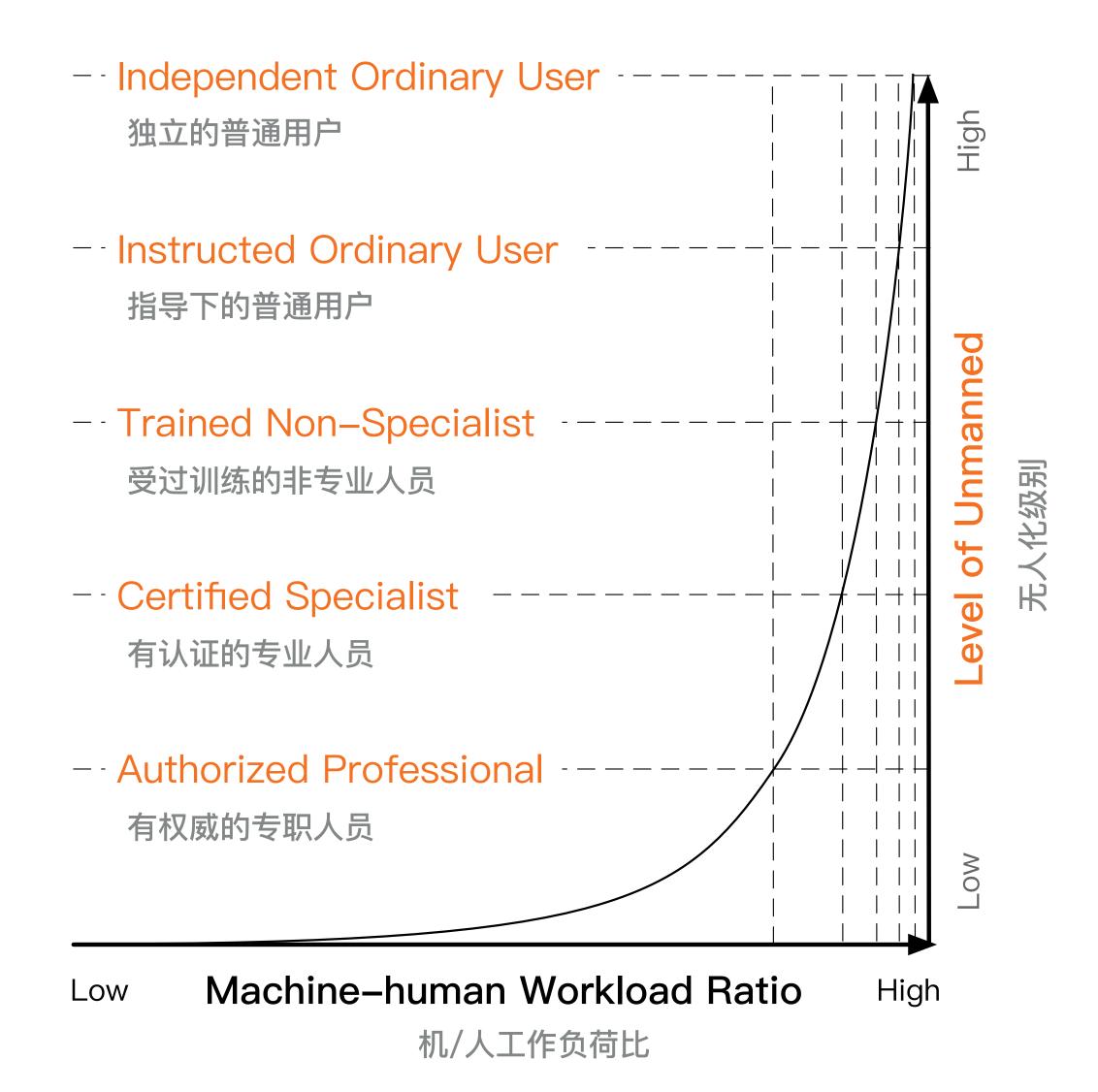
首次用户体验

SHARING

共享

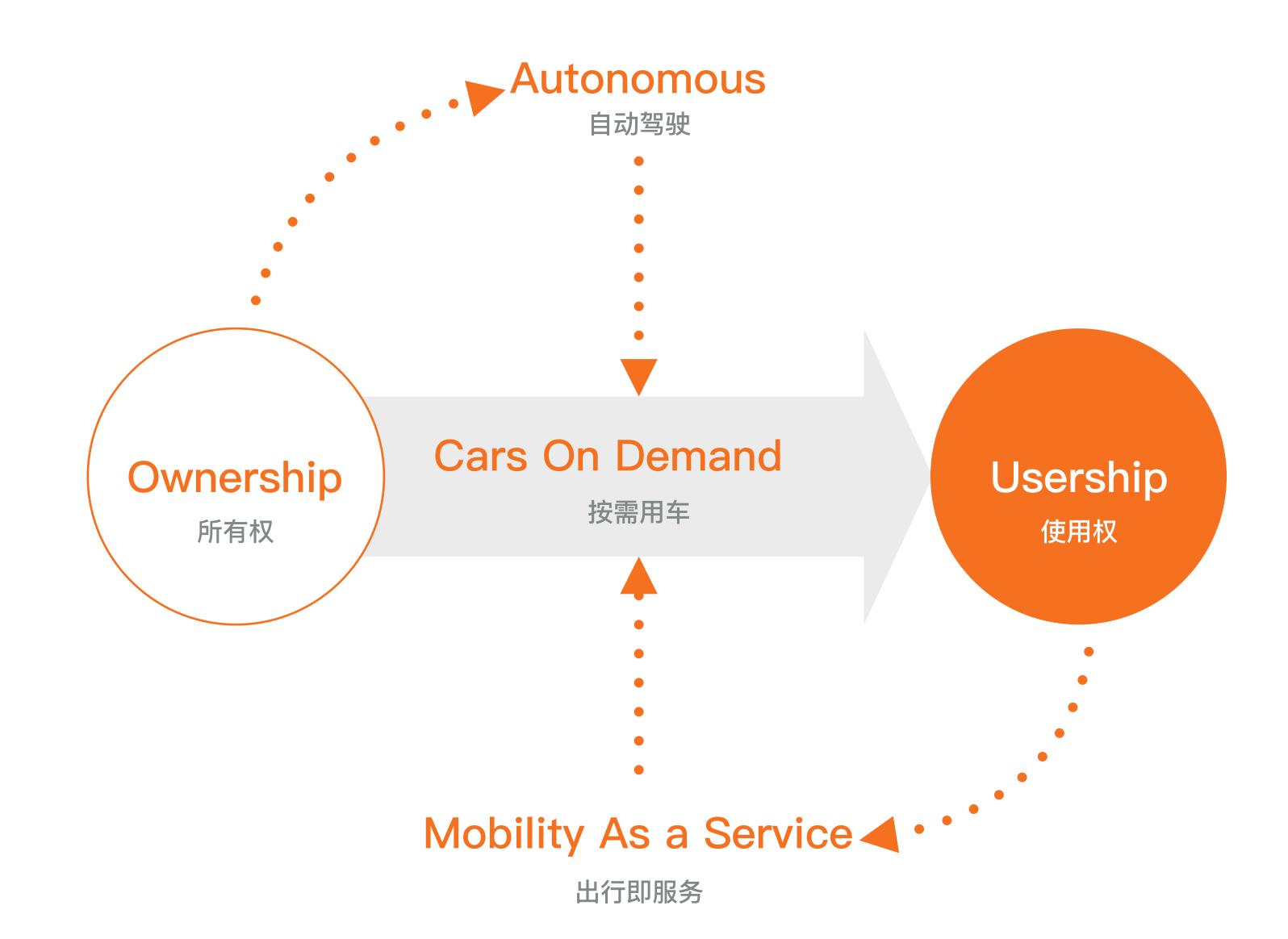
UNMANNED

无人化



FTUE

首次用户体验



SHARING

共享



Where 在哪儿停



How Long 停多久



When 何时走



Which 怎么走

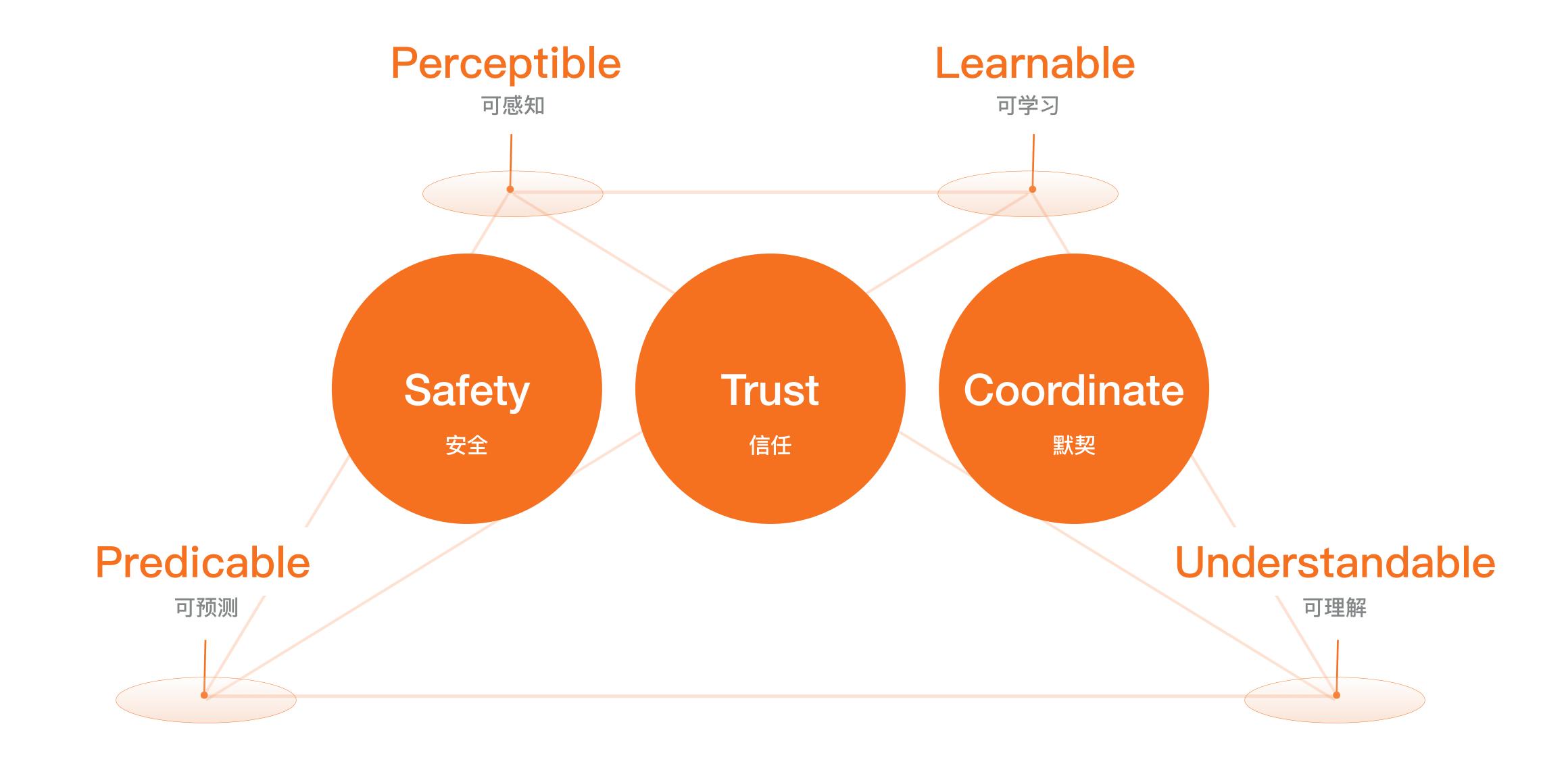
Exponentially Growing Complexity

复杂性呈指数级上升



issues concern to UX of Driverless Urban Mobility

无人驾驶用户体验的关键问题



场景化的用户体验 Context-aware User Experience User Journey Souch Point Muti-modal **Event-driven Human Machine Urban Mobility Scenarios** Interfaces 多模态的人机交互界面 事件驱动的出行场景

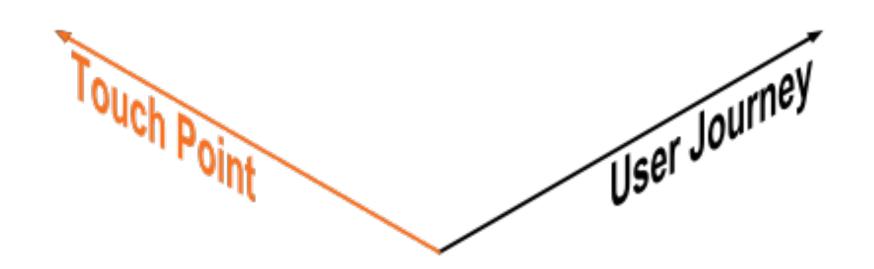
Exploring the interaction between the factors and building a general design framework, so that we can respond efficiently to variable and unknown requirement.

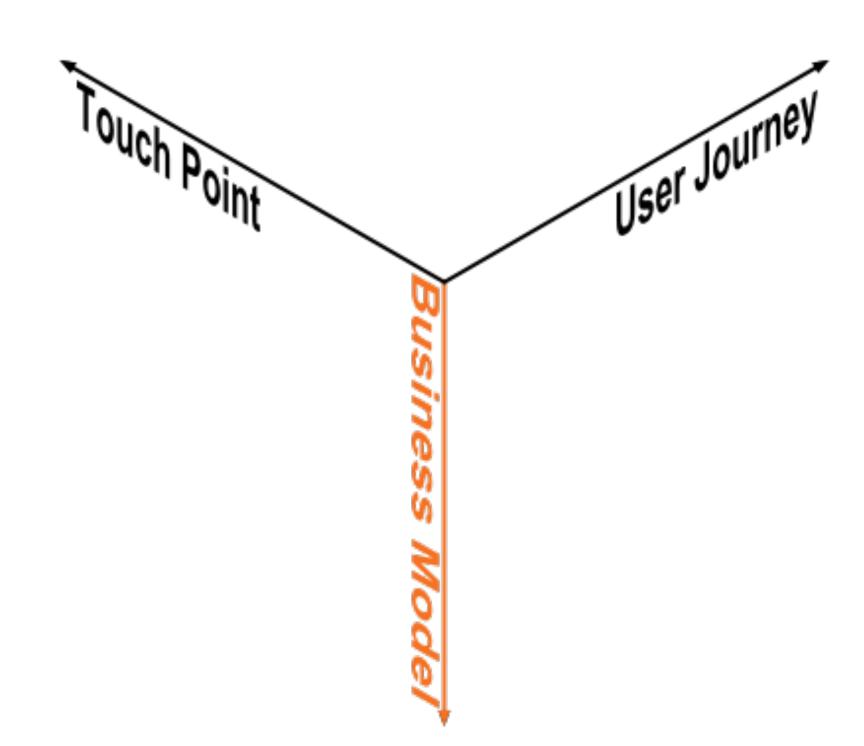
探索多维度因素之间的相关性,并建立一个一般的设计框架,以高效的应对多变和未知的需求。

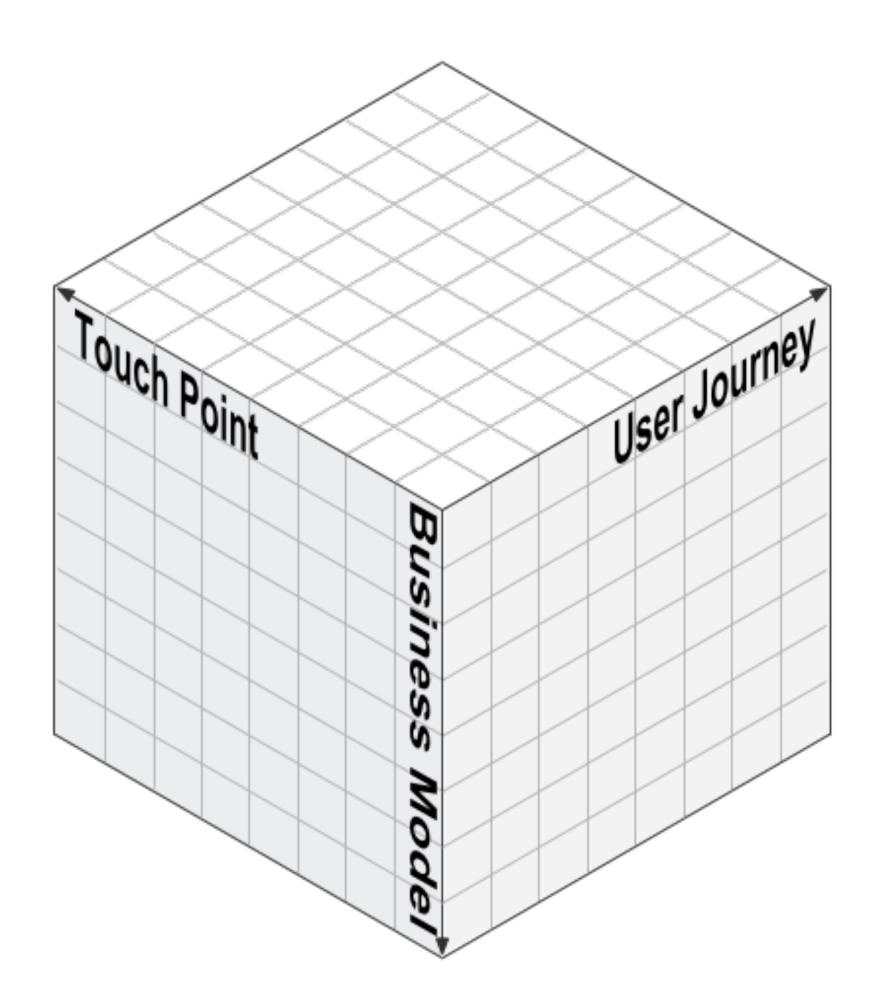
II. Produce Solutions

产出方案

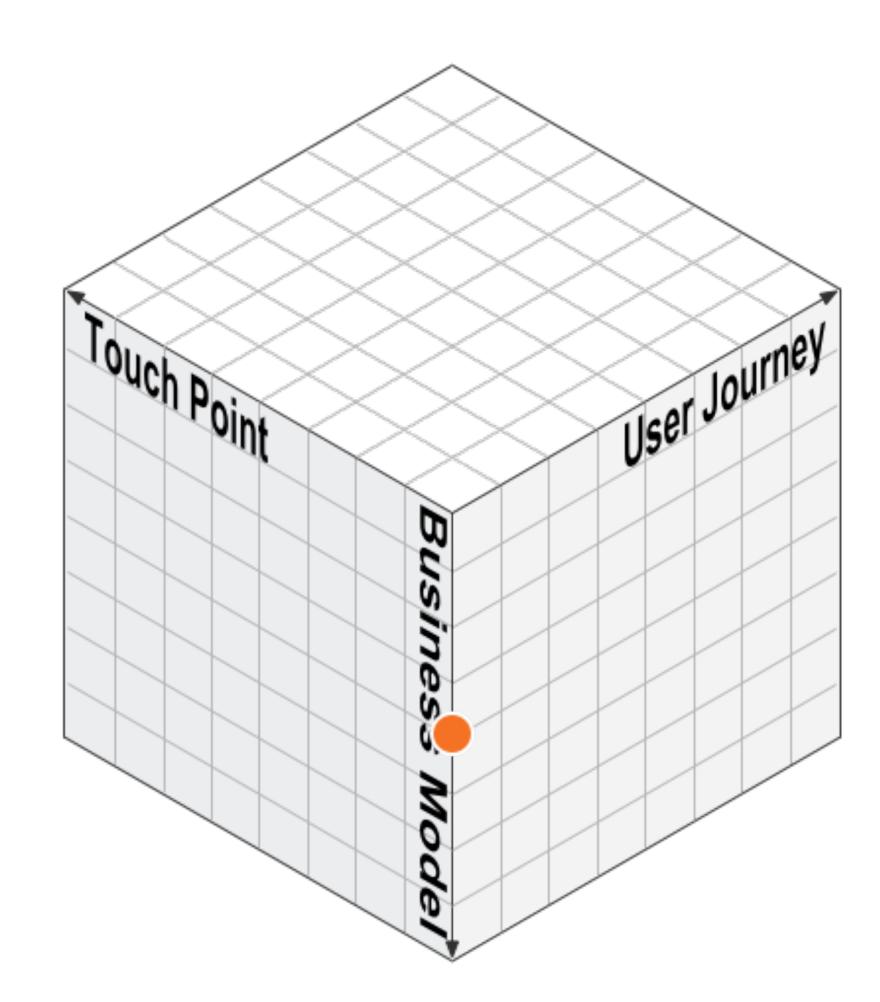


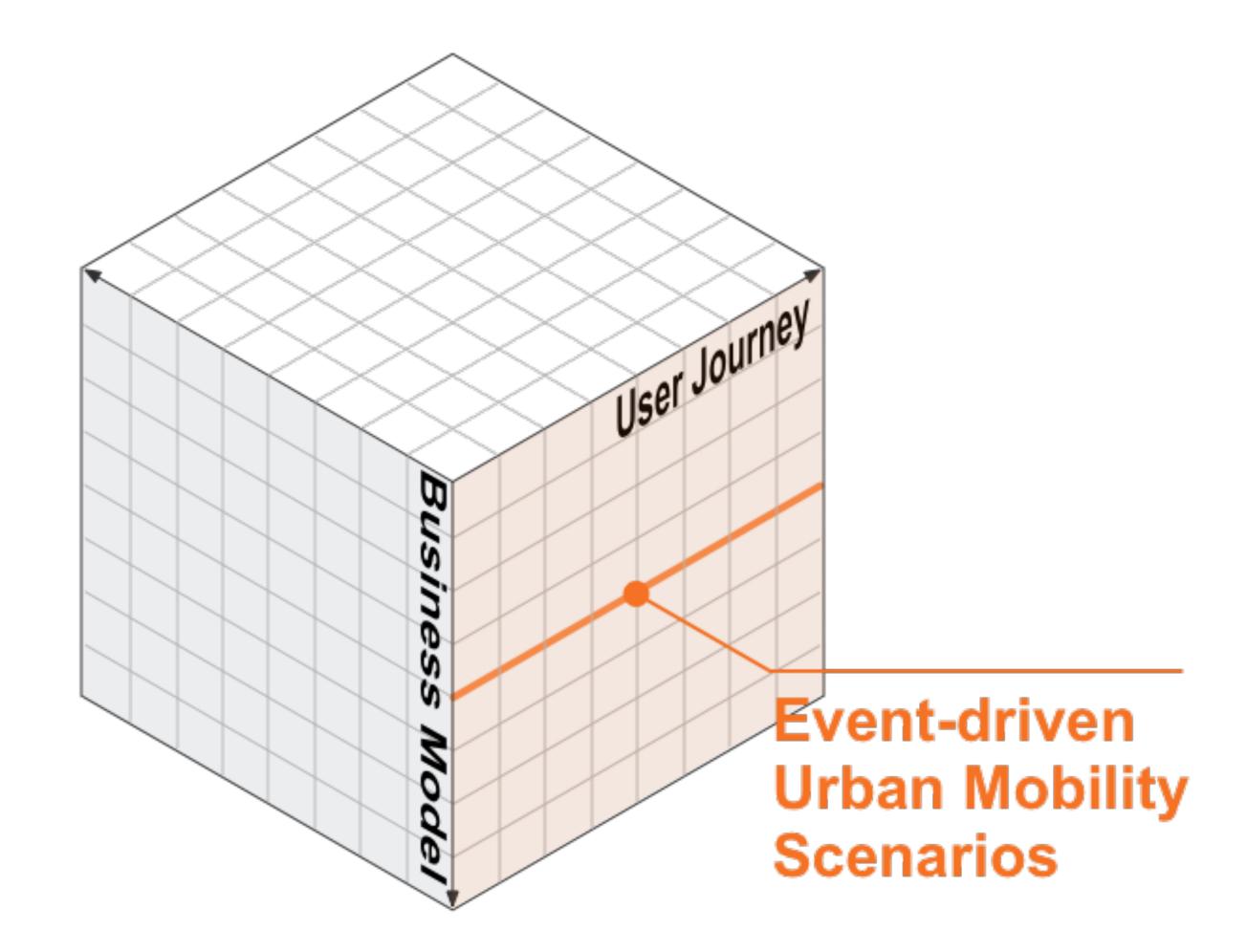


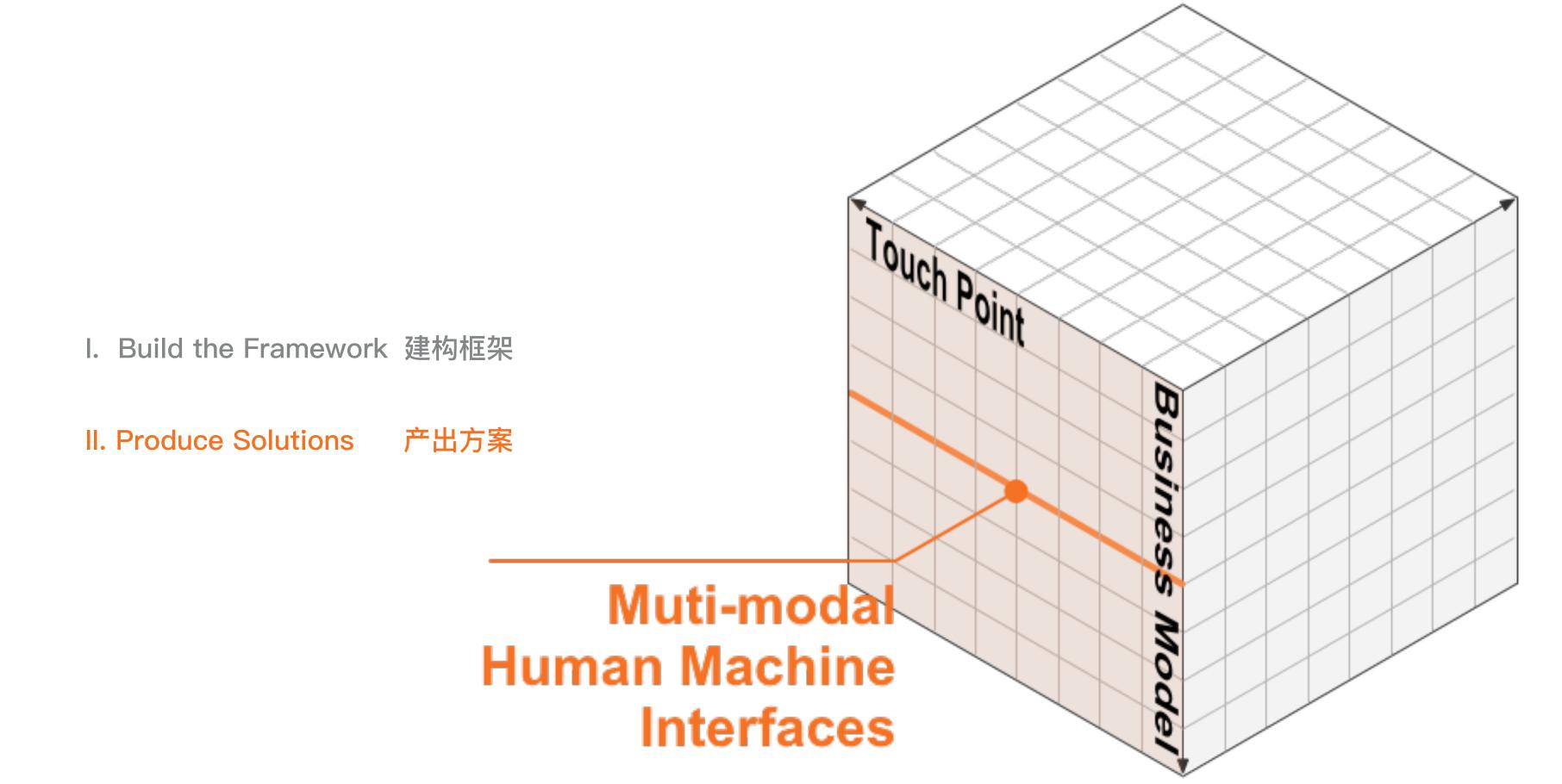




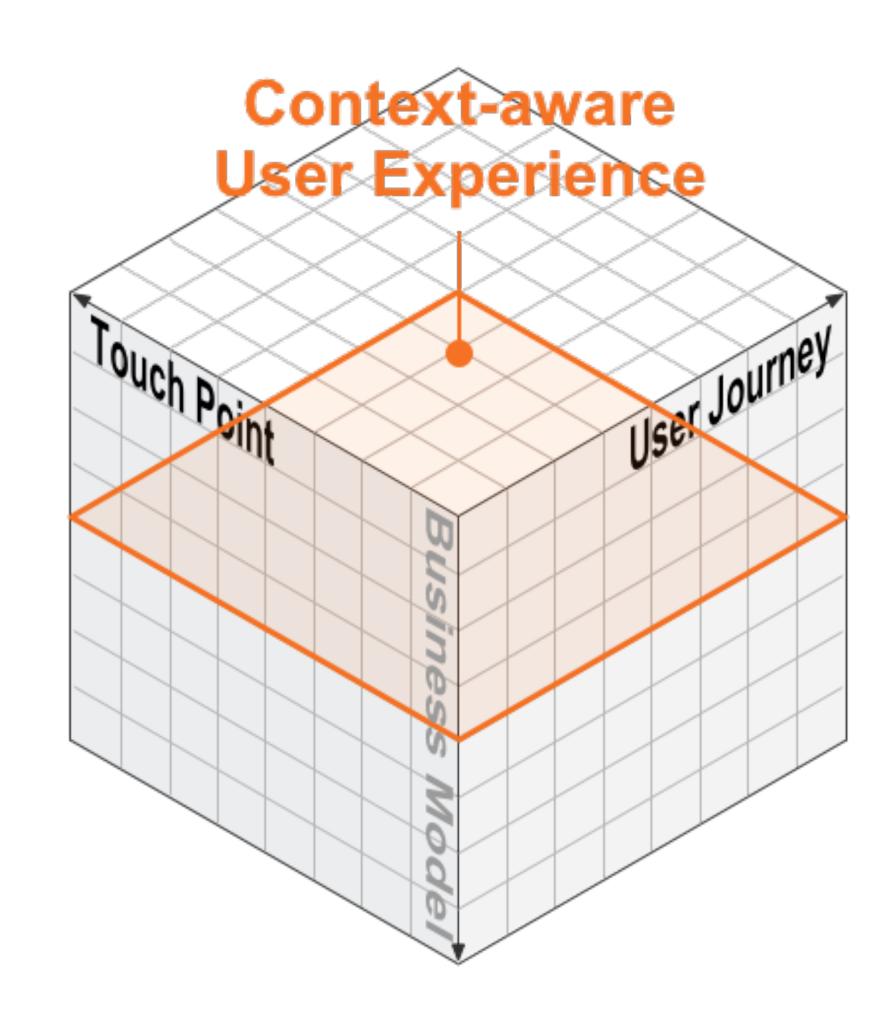
- I. Build the Framework 建构框架
- II. Produce Solutions 产出方案







- I. Build the Framework 建构框架
- II. Produce Solutions 产出方案







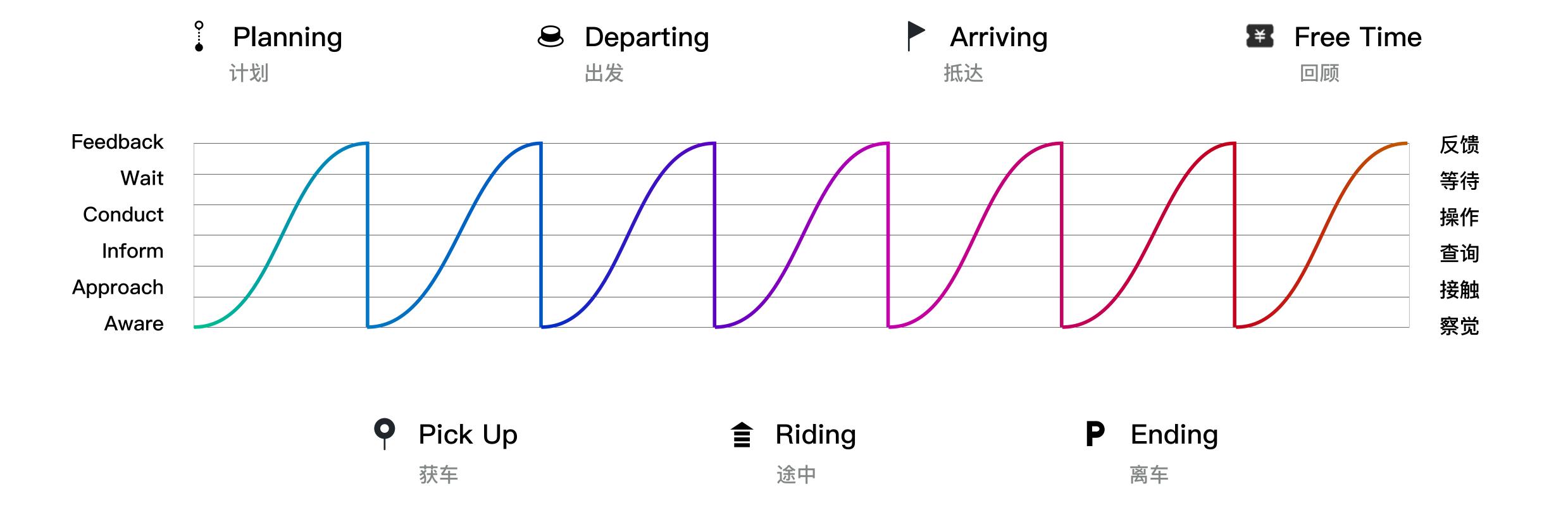








Abstract 抽象 Balance 平衡 Dynamic 发展





User Journey Segment



分割

Mental Model



Context Aware System

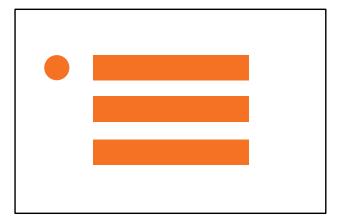


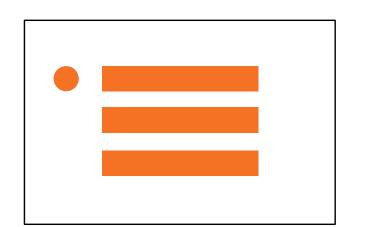
Workload in Context Transfer

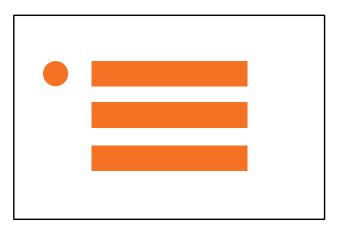


Consistency

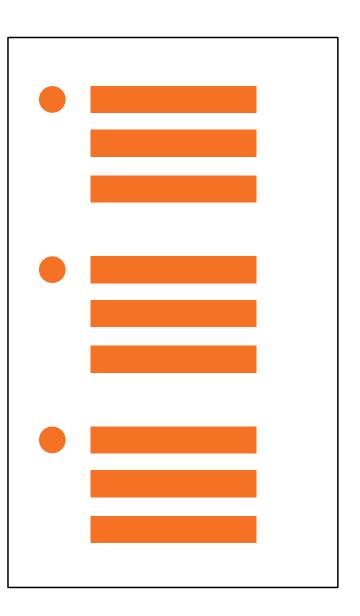
连续



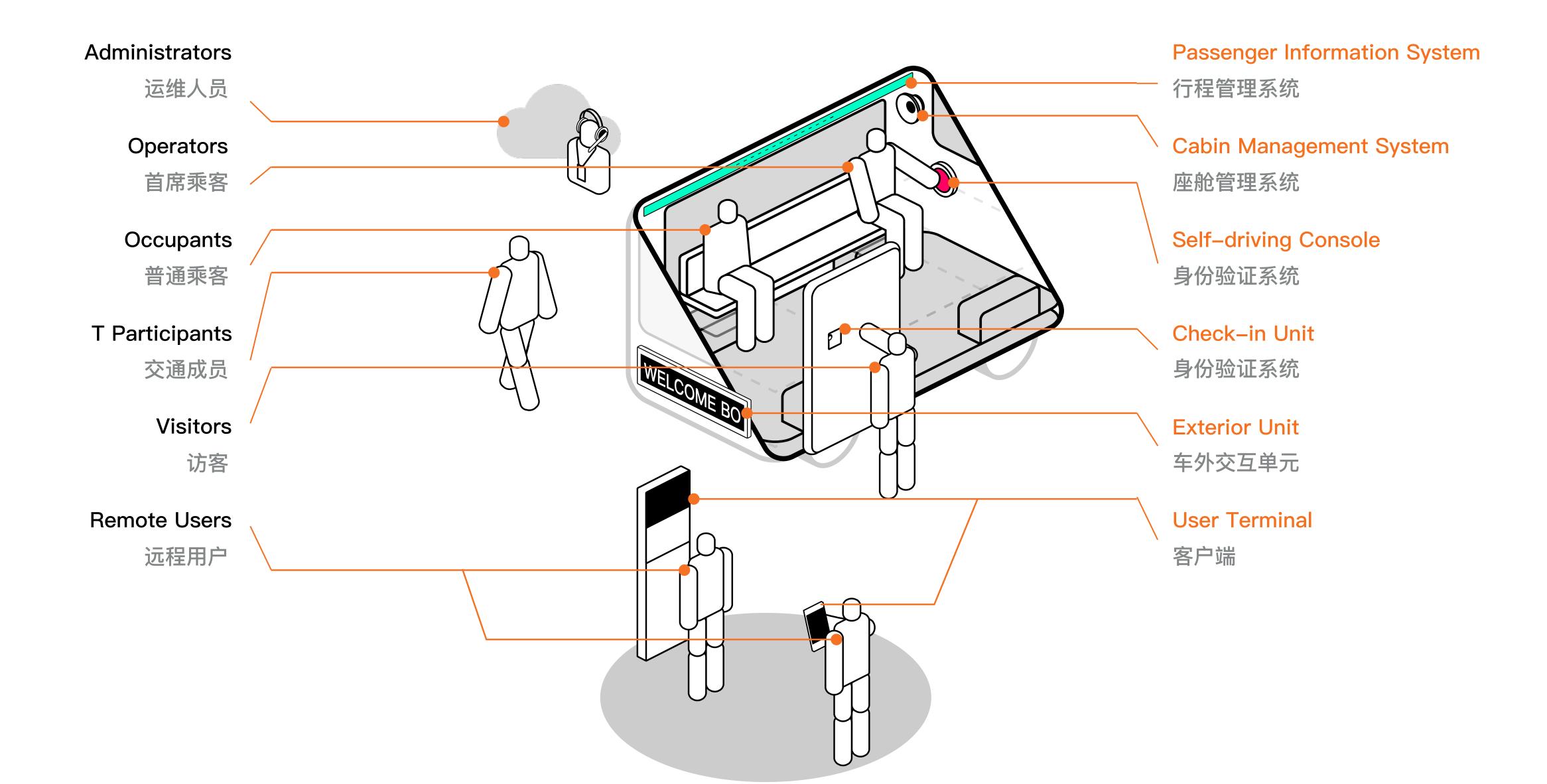




MS Power Point



MS Word





Output 输出

Signifier 意符

Stream 流

Signal 信号

Input 输入

Content 内容

Command 指令

Attention 注意

Intention 目标导向

Stimulation 刺激导向

Field 场域

Far Field 远场

Near Field 近场

Private 私人



Screen 屏幕



Sounds



Haptic 触觉



Light 光



NLP

Touch Screen 触屏



Physical

实体键

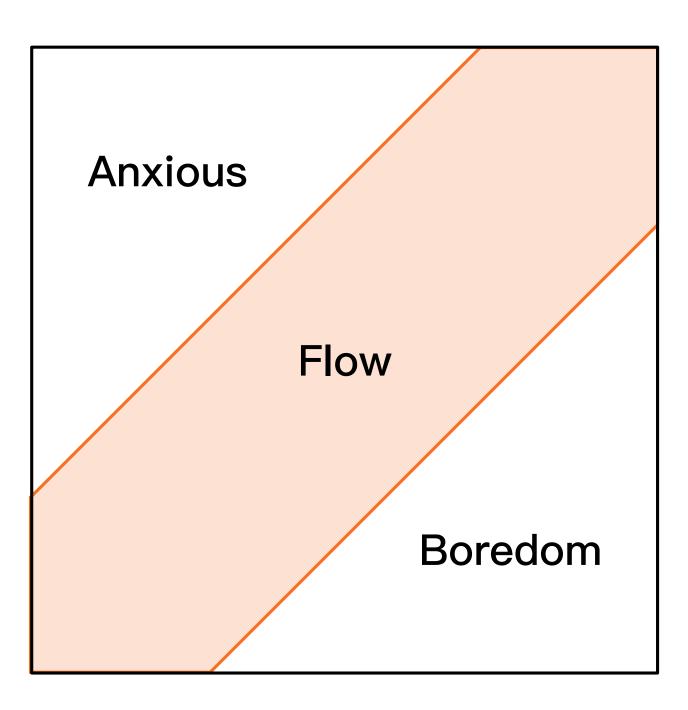
Modal



Passengers think the scenario is complexity

Control

支配

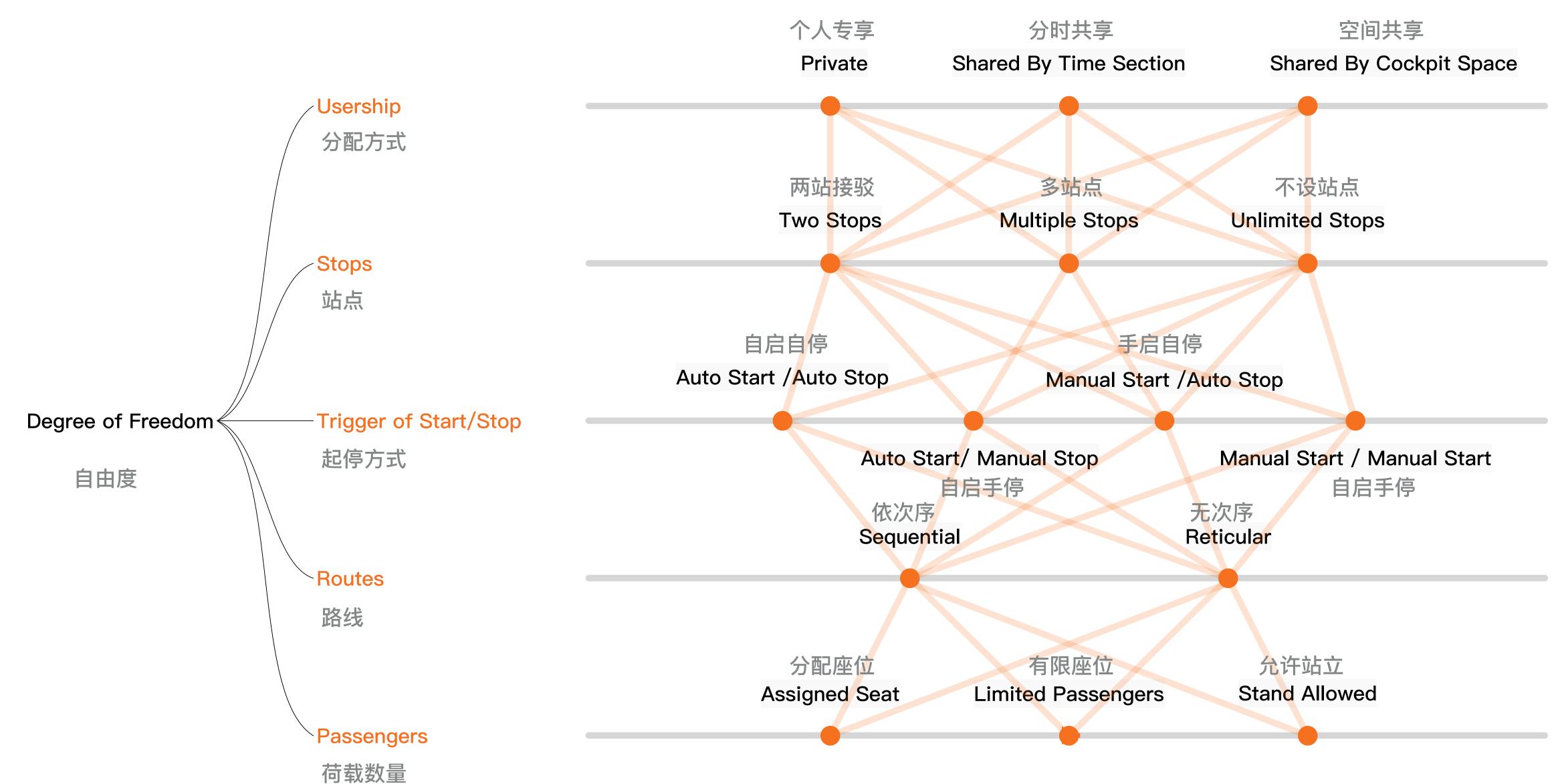


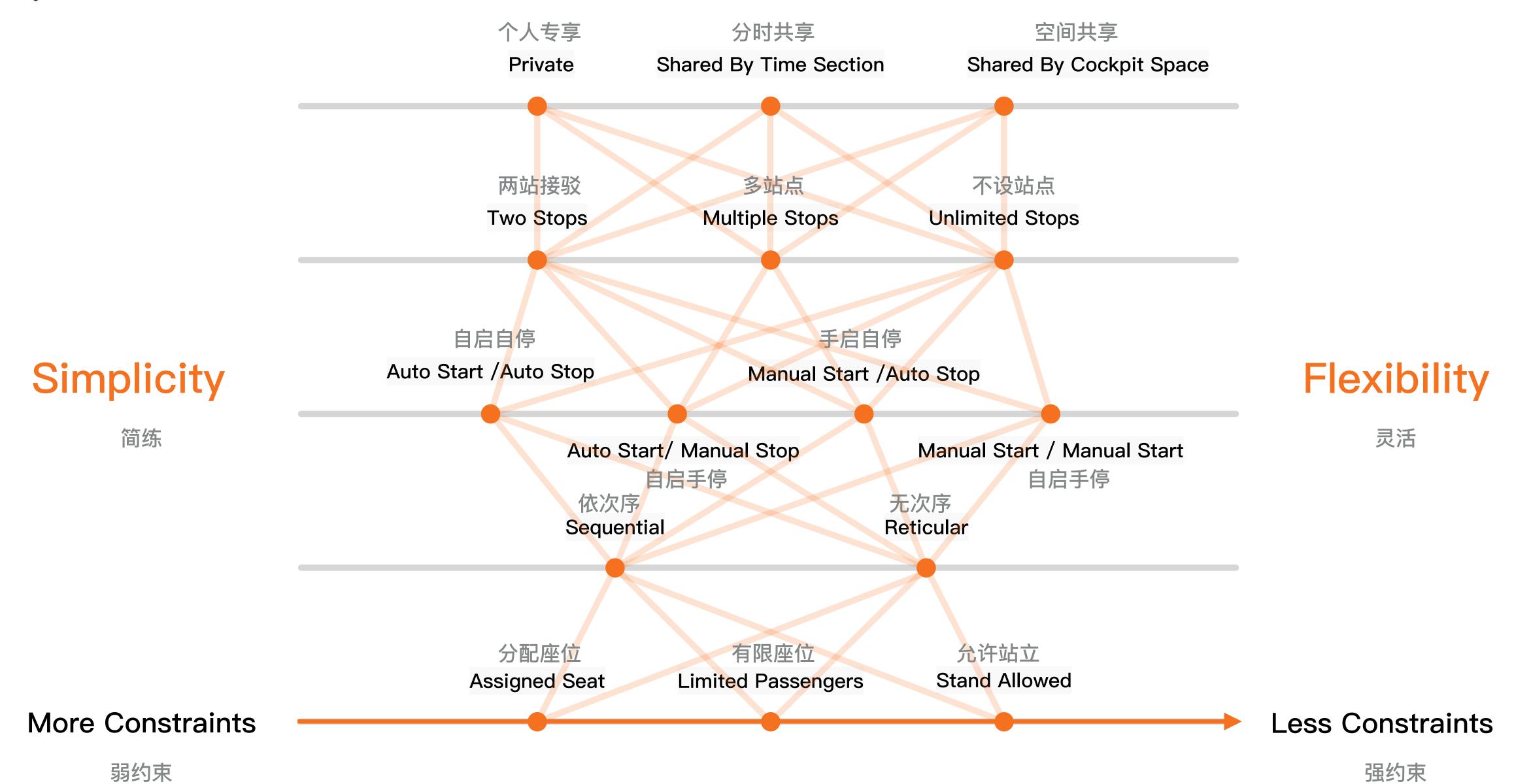
Trust

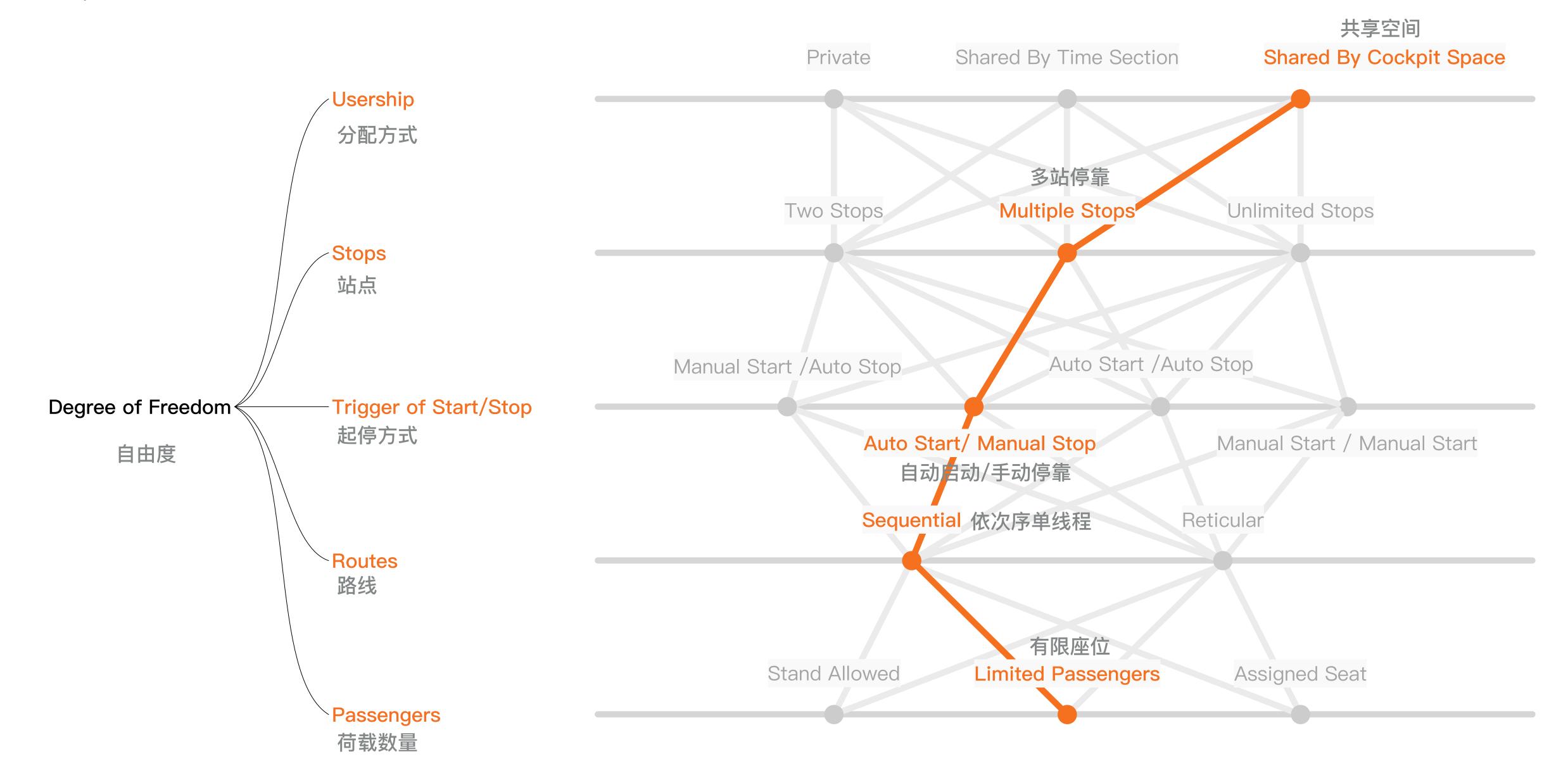
信任

Ability

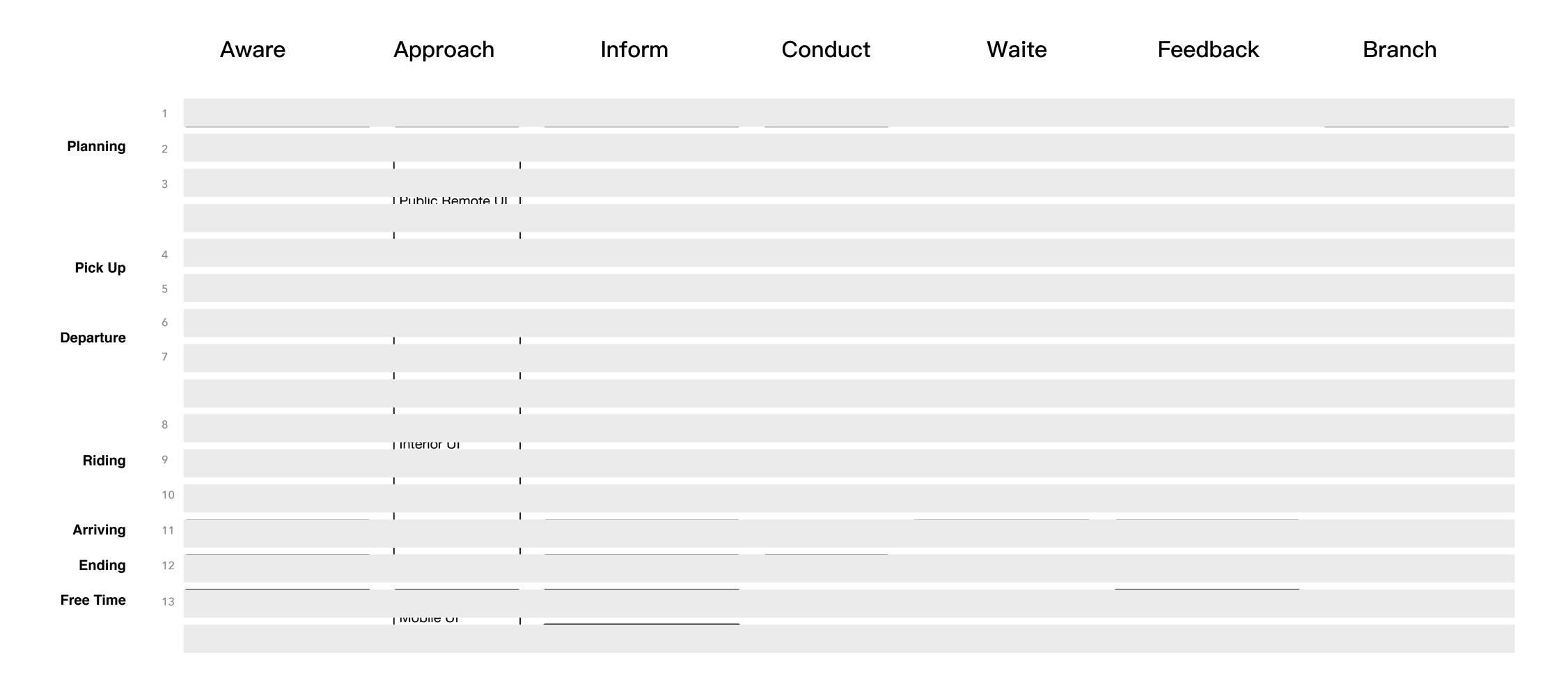
Passengers think the system is reliable



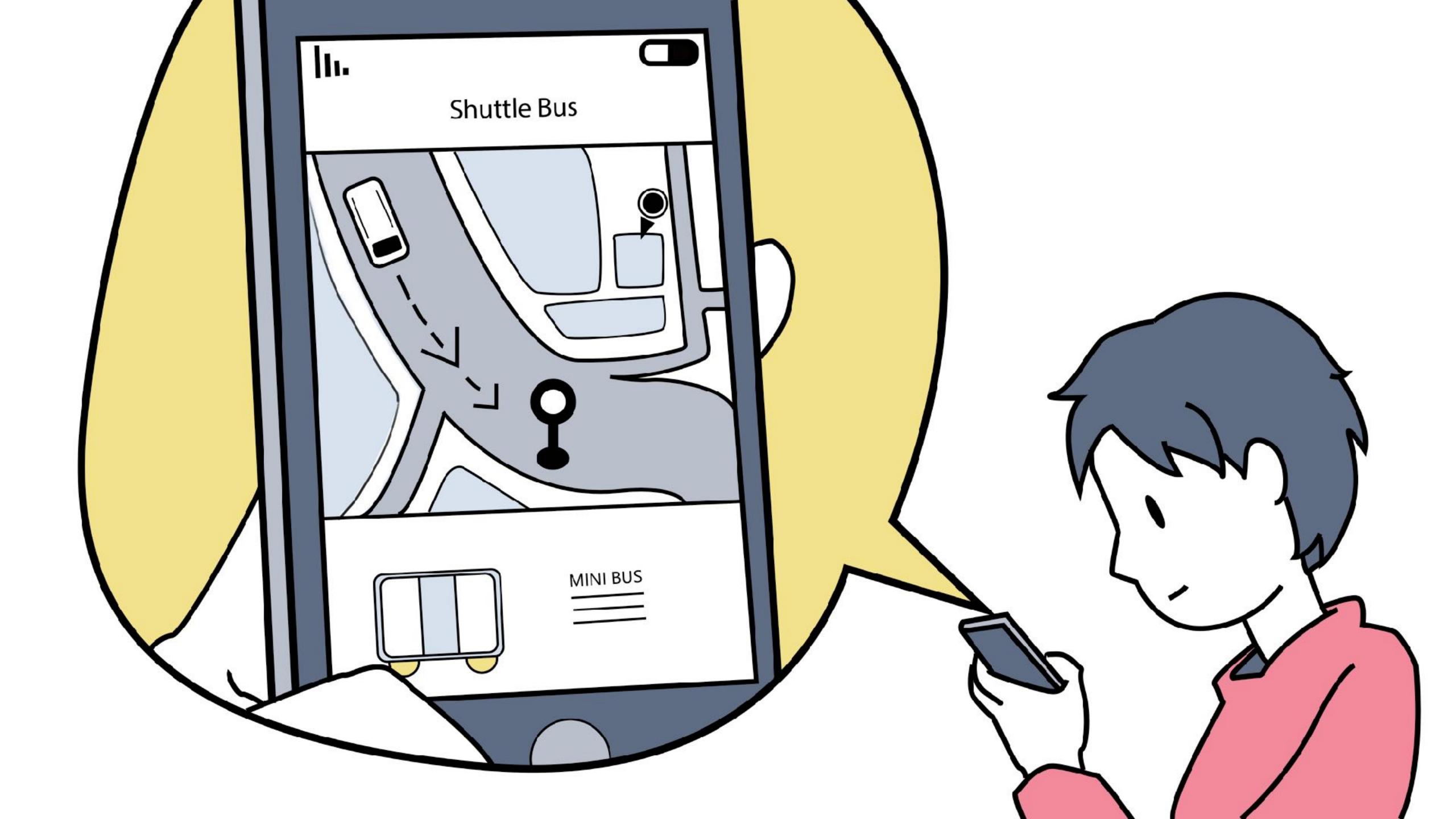


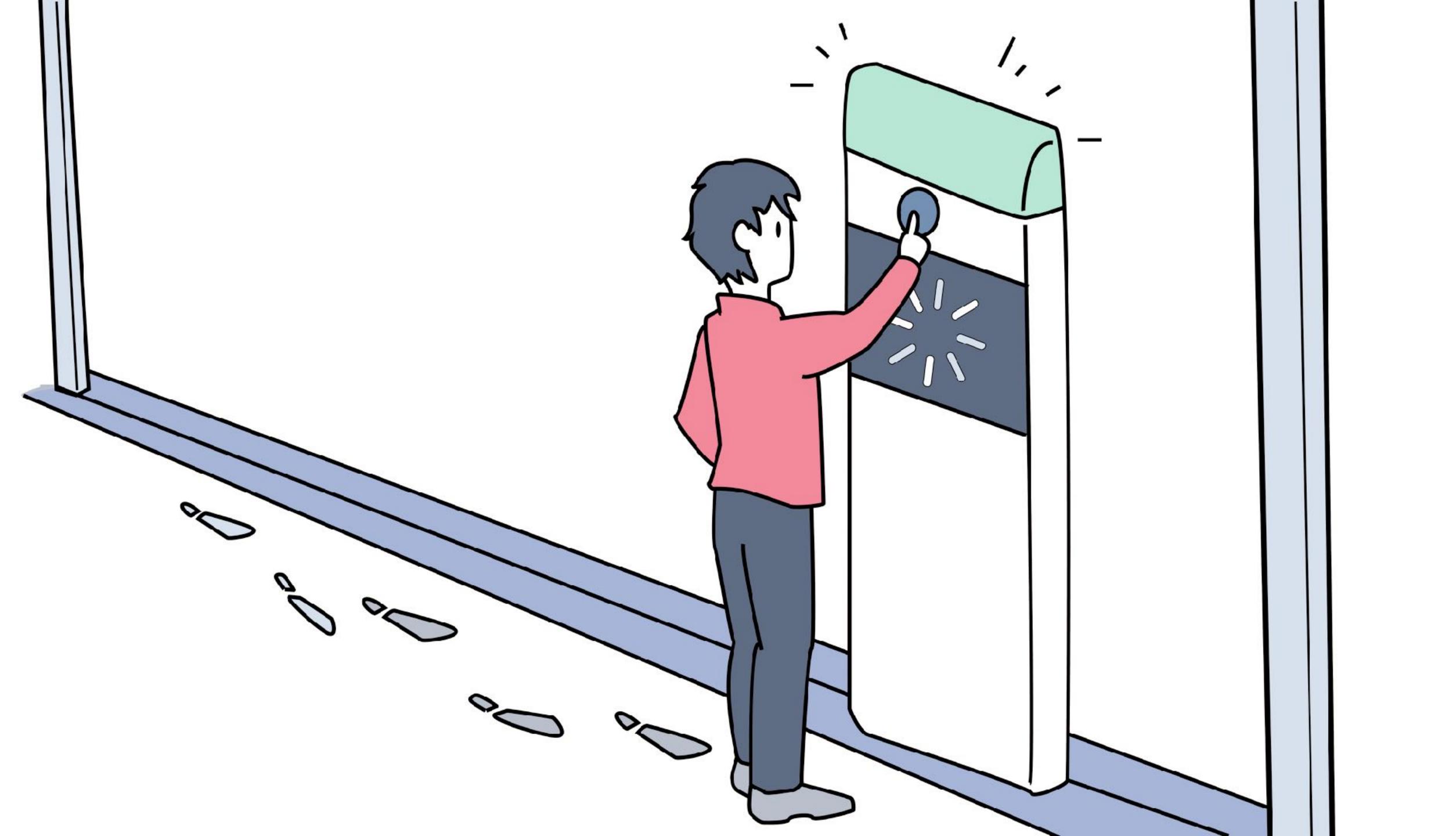






UI								
Context	Mobile Phone	Stop Machine	Outside Screen	Light Belt	Outside Speaker	Inside Screen	Button	Inside Speaker
Unavailable								
Stand By								
Picking Up								
Queuing								
Dispatch								
Arriving								
Stopped								
Counting Down								
Starting								
Delayed								
Riding								
Paused								
Heading to								



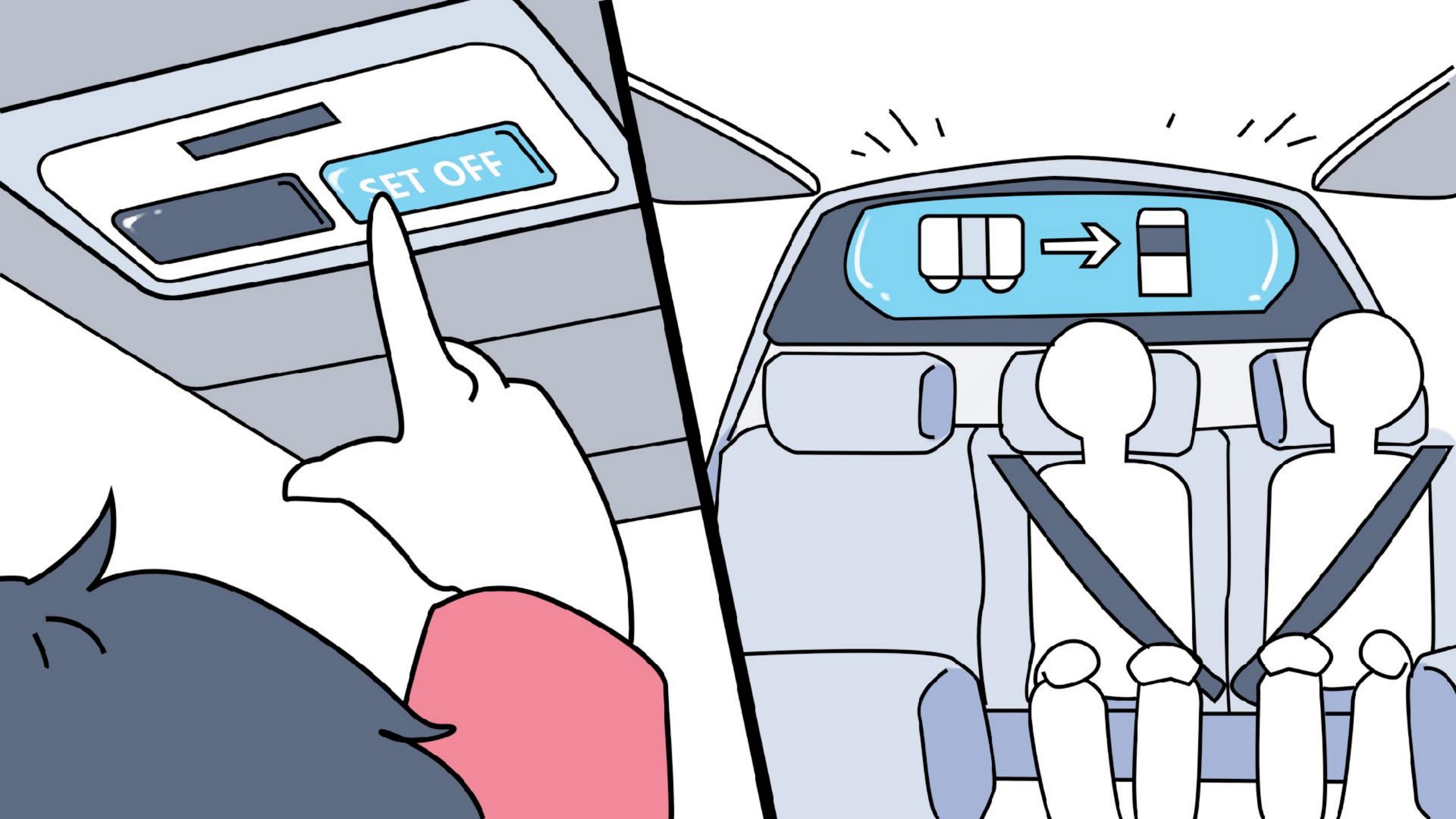


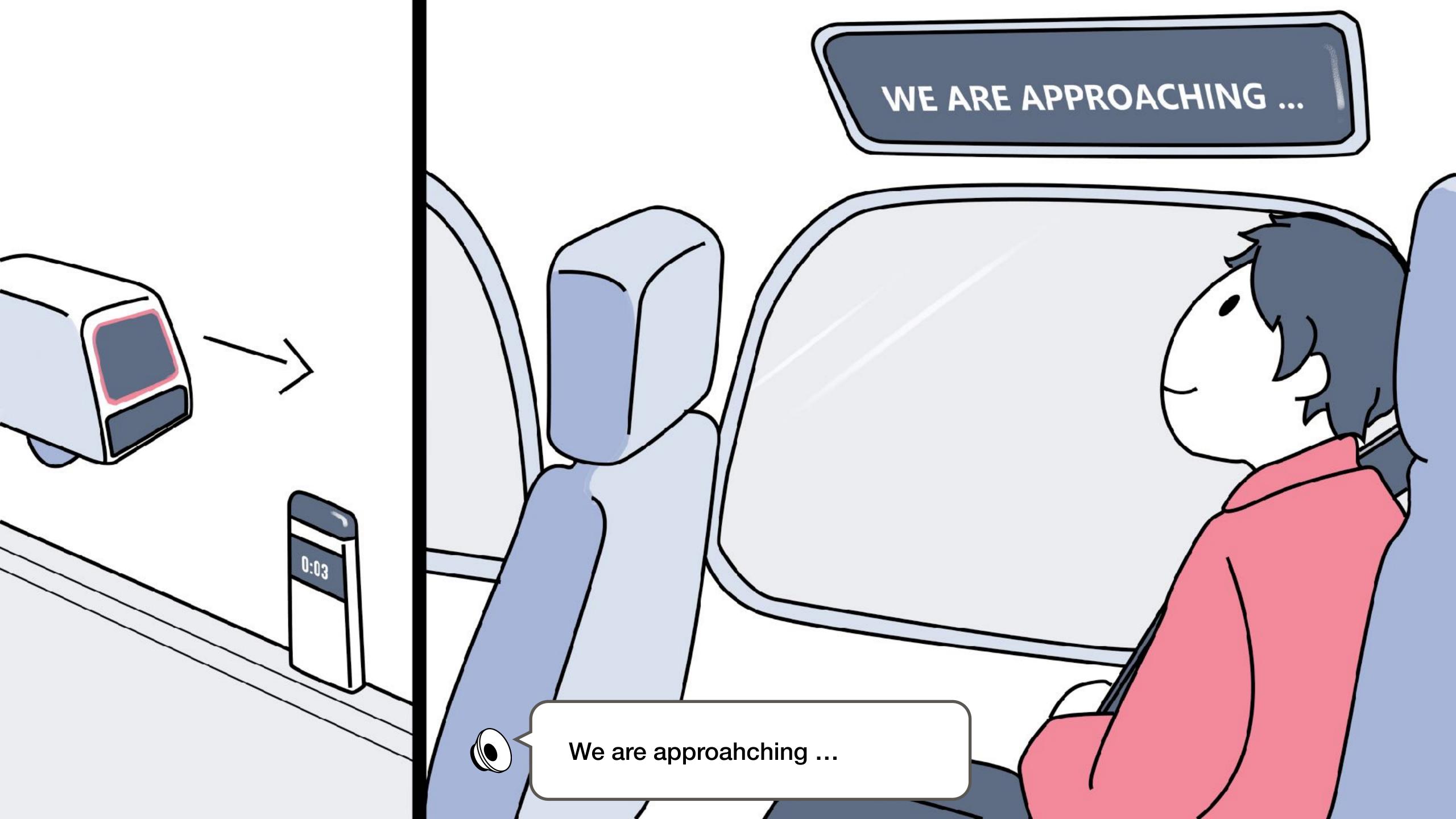




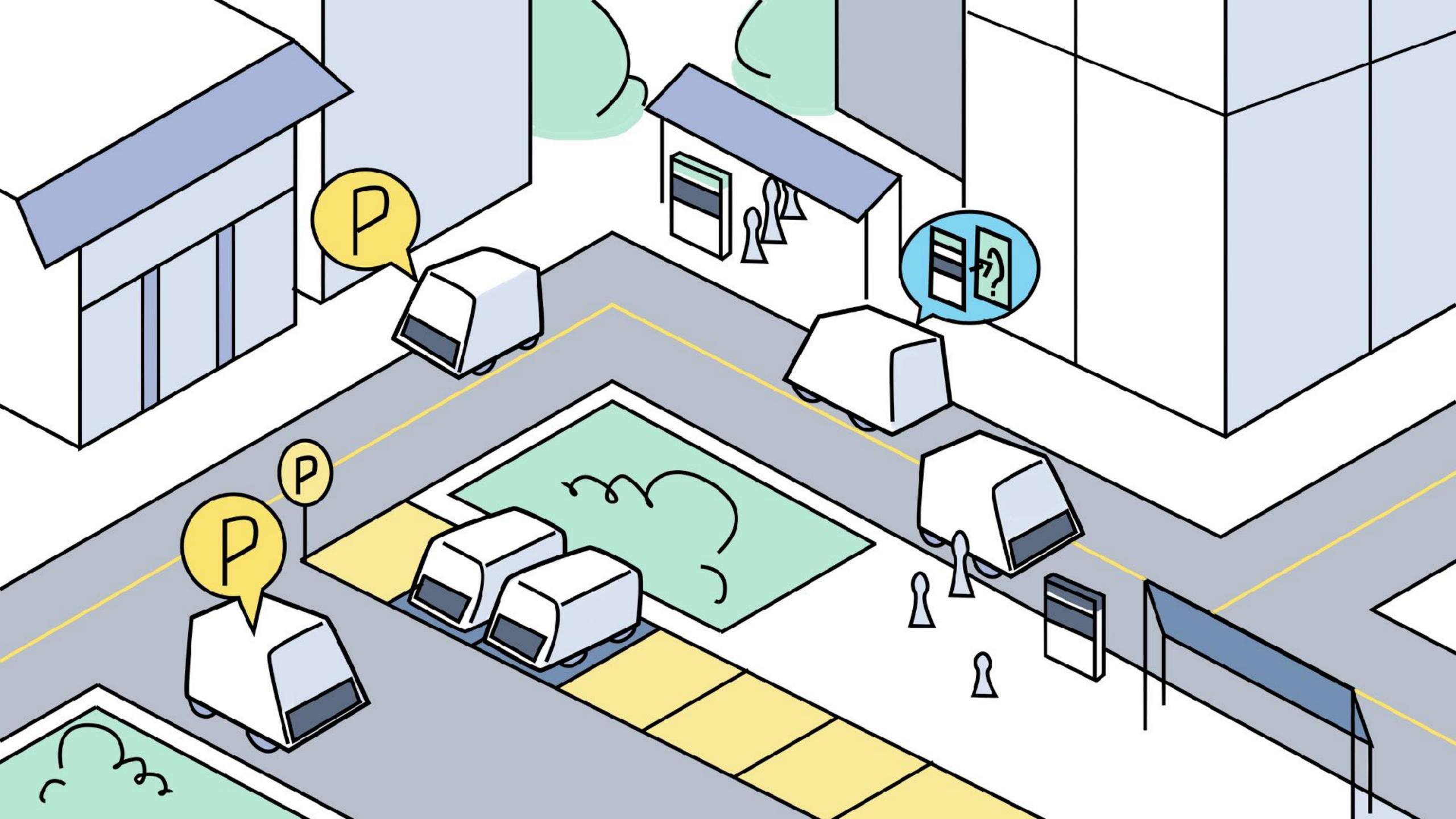


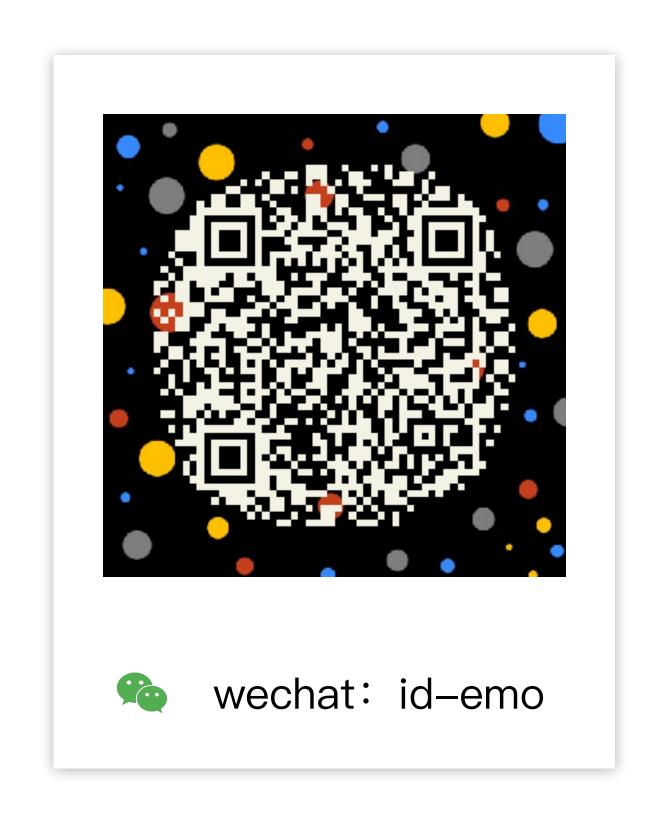












谢谢

Thanks!

2018. 09. 02 @Shanghai