

Industry Solution

Casino Scenario



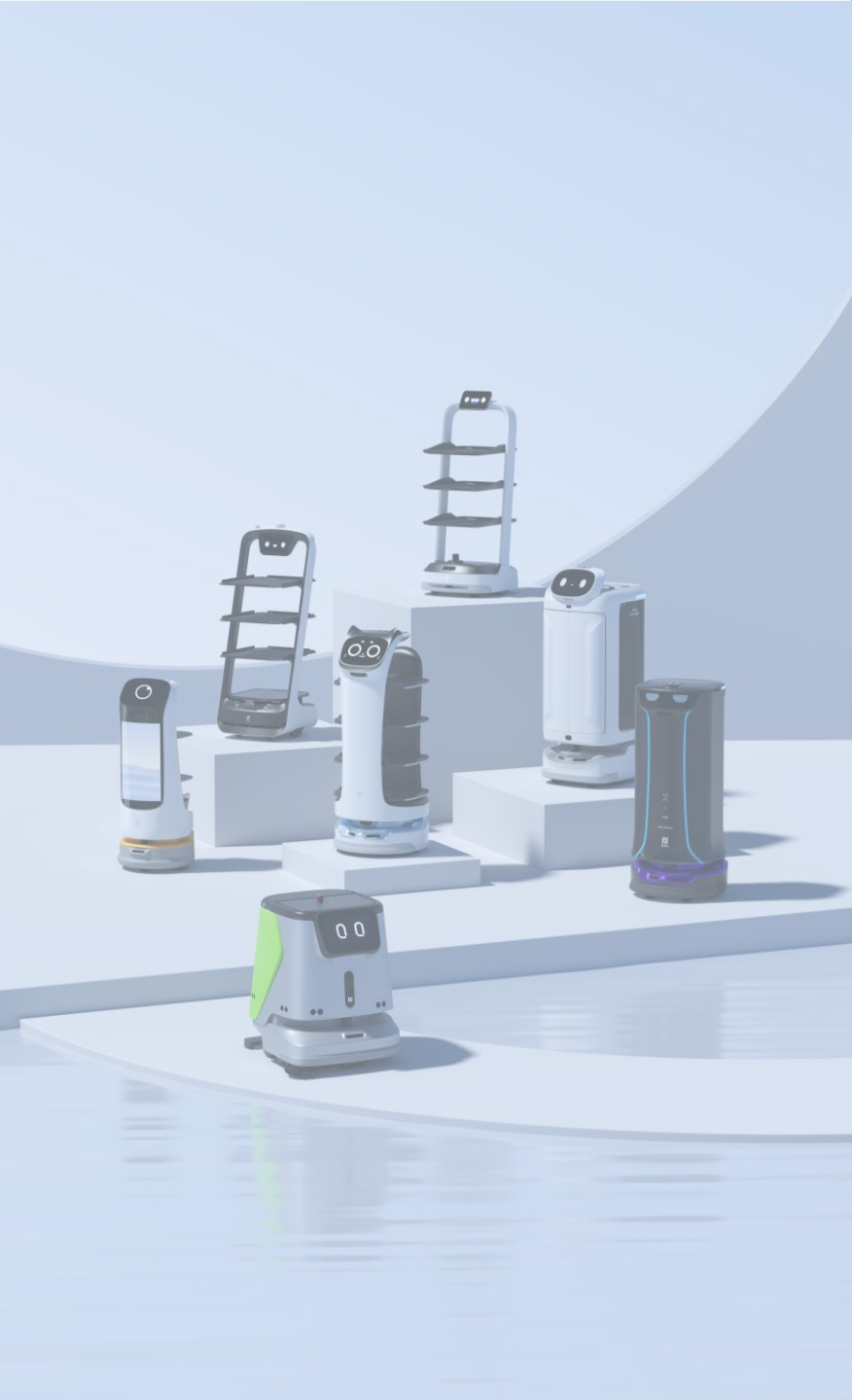
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01

Scenario Solutions

The Status of Casino Industry



Huge market

The market size of the gambling industry is difficult to determine, but it is predicted that the annual revenue of the global gambling market **reached 100+ billions of dollars** in future years. Currently, the Asian region is the largest gambling market in the world, and Las Vegas and Macao are also famous gambling cities



Efficient operations

Casino operations are highly complex, including management, service support, marketing, equipment maintenance, security, and other aspects, resulting in **high operating costs**. Casinos are continuously optimizing their operations to reduce costs and increase efficiency



Continuously innovating

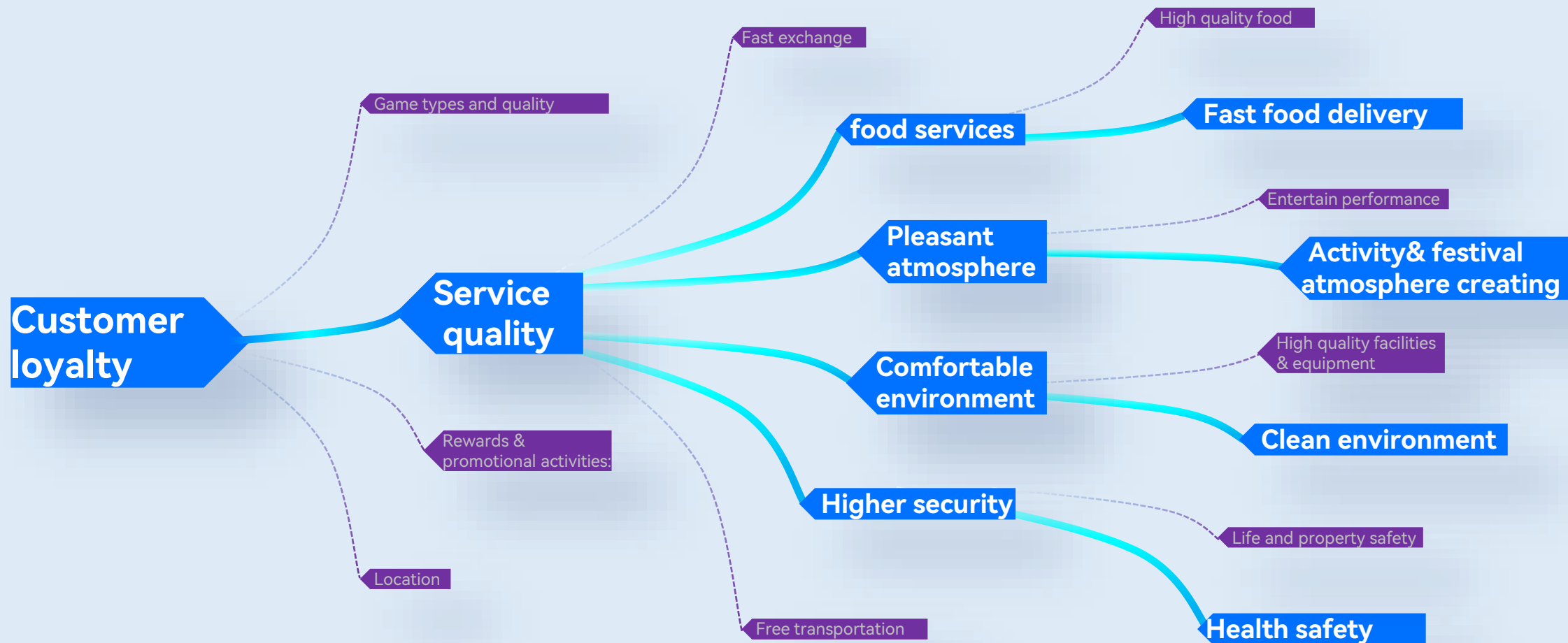
Various casinos are continuously introducing new technologies and applying them in various aspects of their operations. **Digitalization and AI** are common understandings in the industry



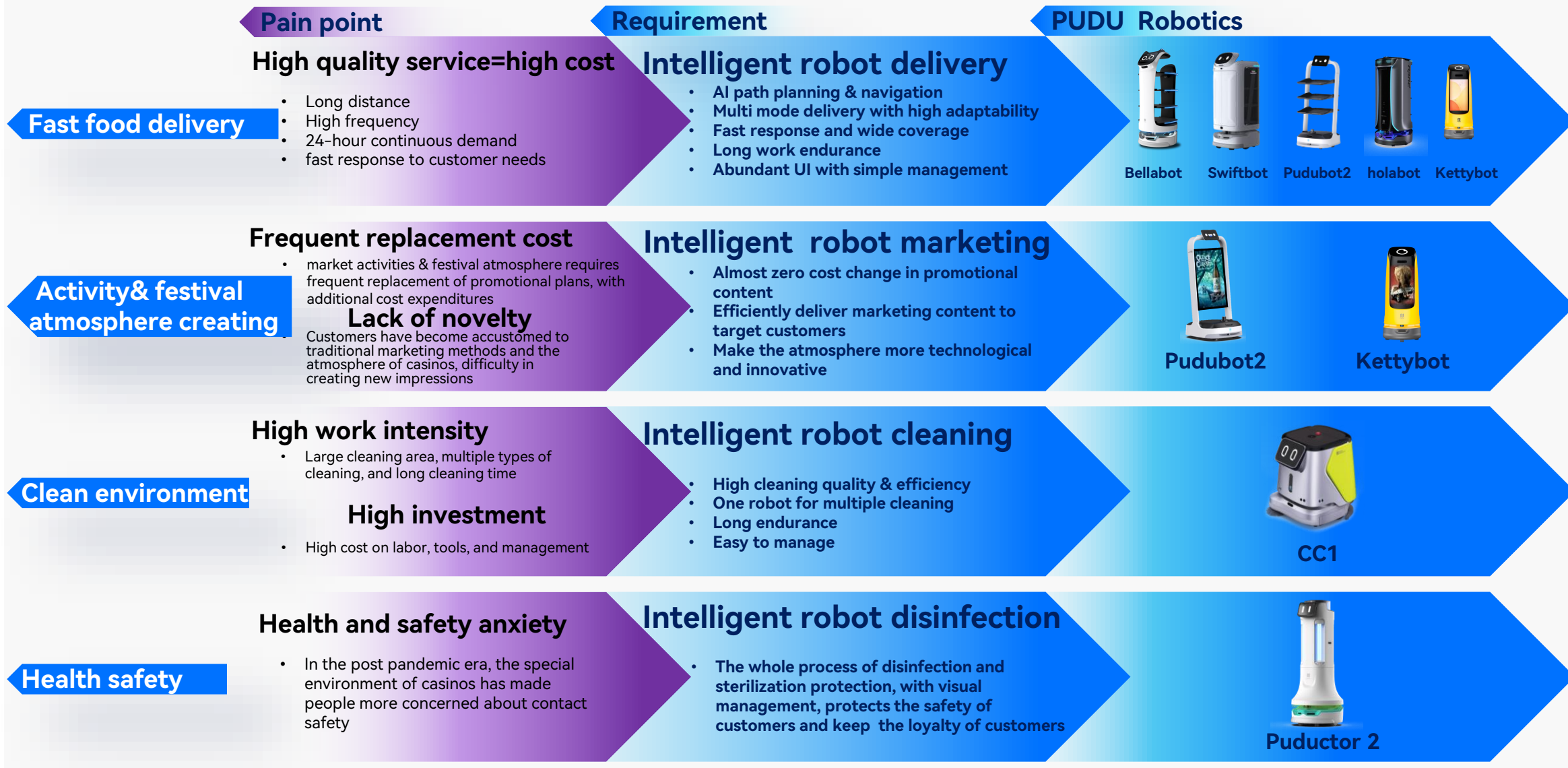
heated competition

There are currently 41 casinos in Macau. Among them, some famous casinos include Venetian, City of Dreams, Wynn Macau, Sands City Center, etc. Between casinos, there is a high degree of overlap in business, resulting in **extremely fierce competition** in the casino industry

Casino Core Competition Decomposition

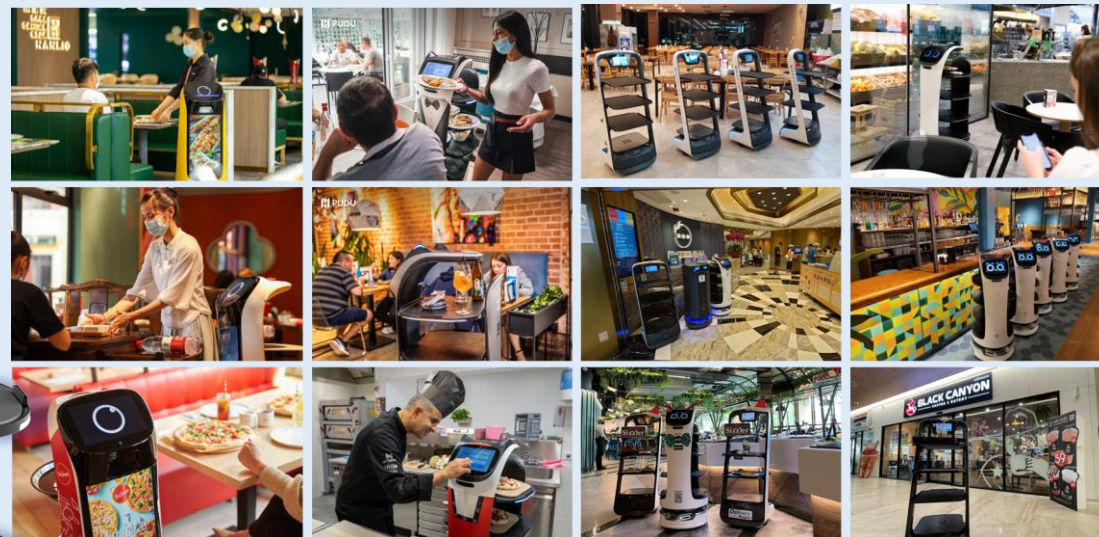


Pudu Understanding of Casino Scenario



Food Delivery Solution : Robots

Human-Robot Collaboration: Driving Quality and Efficiency in Service



Petite body with **55cm** ultimate pass ability

Supported by **vlsam technology**, suitable for more complex environments

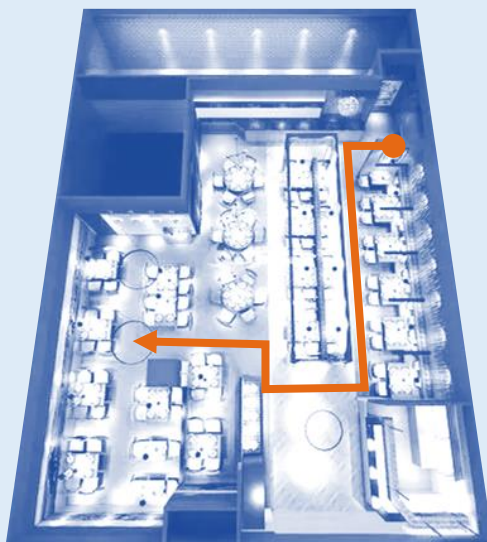
More **user-friendly interactive functions** make delivery more interesting

4G watch remote calling function support target start at any random point

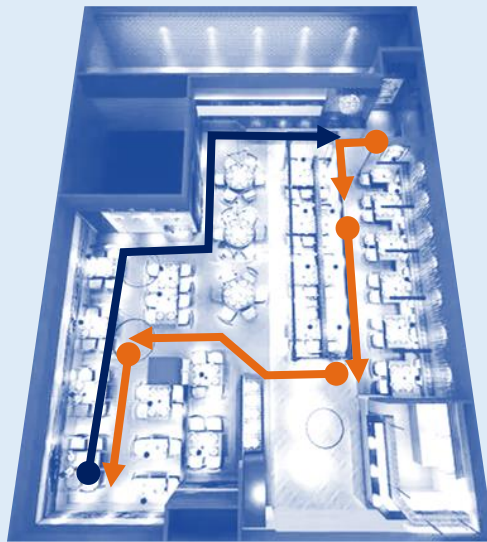
Intelligent gull wing door, suitable for high-security delivery scenarios
New collision avoidance algorithm redefines rush hour delivery logic



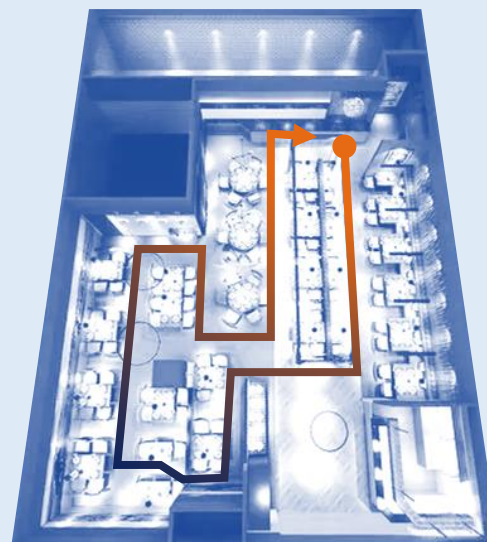
Match The Right Delivery mode



Direct delivery mode



Multi-targets delivery mode



Cruise mode

Choose robots which are suitable for environment characteristics and working in suitable modes can perfectly match business need with higher efficiency



for VIP area



for all region



for Slot area



for dish recycle of all regions



for table games area

Delivery Solution For Slot Area



Scenario characteristics

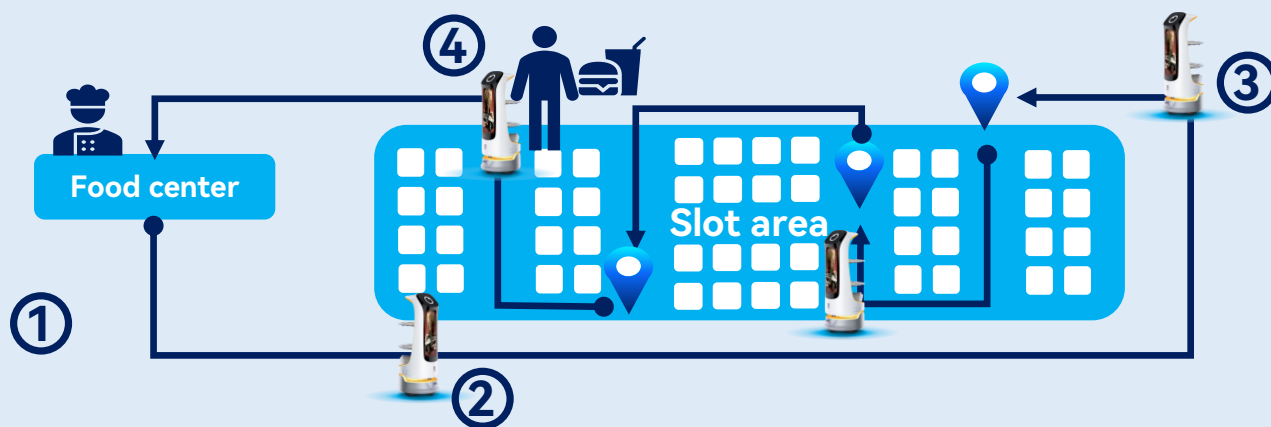
- Narrow road
- Many gamblers crowded
- High frequency catering demand
- Provide light food and beverages
- Gamblers pick up their own meals



KettyBot cruise delivery

- 55cm Ultimate Passivity Designed for Narrow Scenarios
- Multi accessories choices adapt to different type of food
- 18.5inch screen display the content edited by the operator

Cruise Delivery Process



1. Put snacks and beverages onto KettyBot at the food center
2. KettyBot Cruise according to the predetermined route
3. KettyBot stop at the designated location and voice remind guests to pick up food. Continue moving after the countdown is completed
4. Guests can click on the screen on top of KettyBot at any time to stop the robot and take the food

Advertisement all the way



Delivery Solution For Table game Area



Scenario characteristics

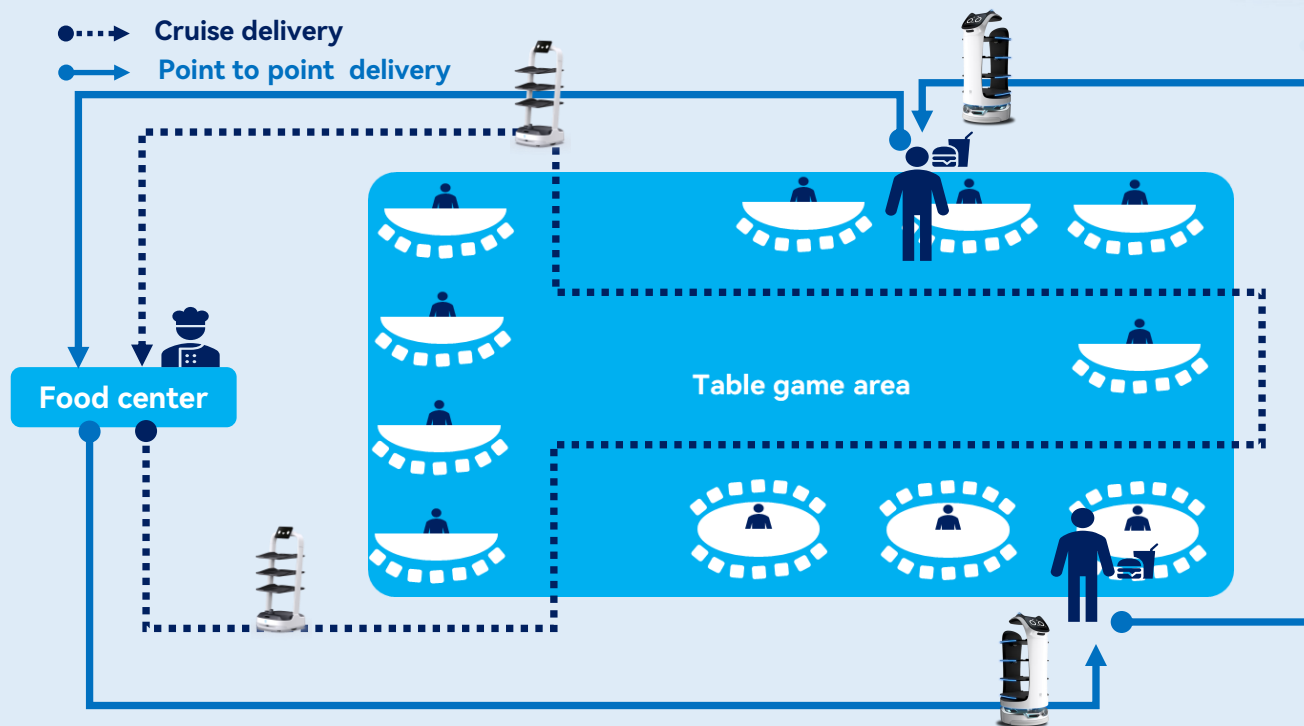
- High frequency catering demand
- Some customer order food when they need



BellaBot & PuduBot 2 Mix mode delivery

- Cruise mode+ point to point mode to support complex delivery requirement
- Pudubot2 with Vslam support high floor height scenario

- ...→ Cruise delivery
- → Point to point delivery



Point-to point mode Delivery Process

1. Customers order food to service staff
2. The staff notify the food center to prepare the meal
3. The food center places food on the robot and issues delivery order
4. Robot delivery
5. The robot arrives and the service staff hands the food to the customer
6. Robot Goes to Next Task Point
7. The robot returns to the food center and waits for the next mission

Delivery Solution For VIP Area



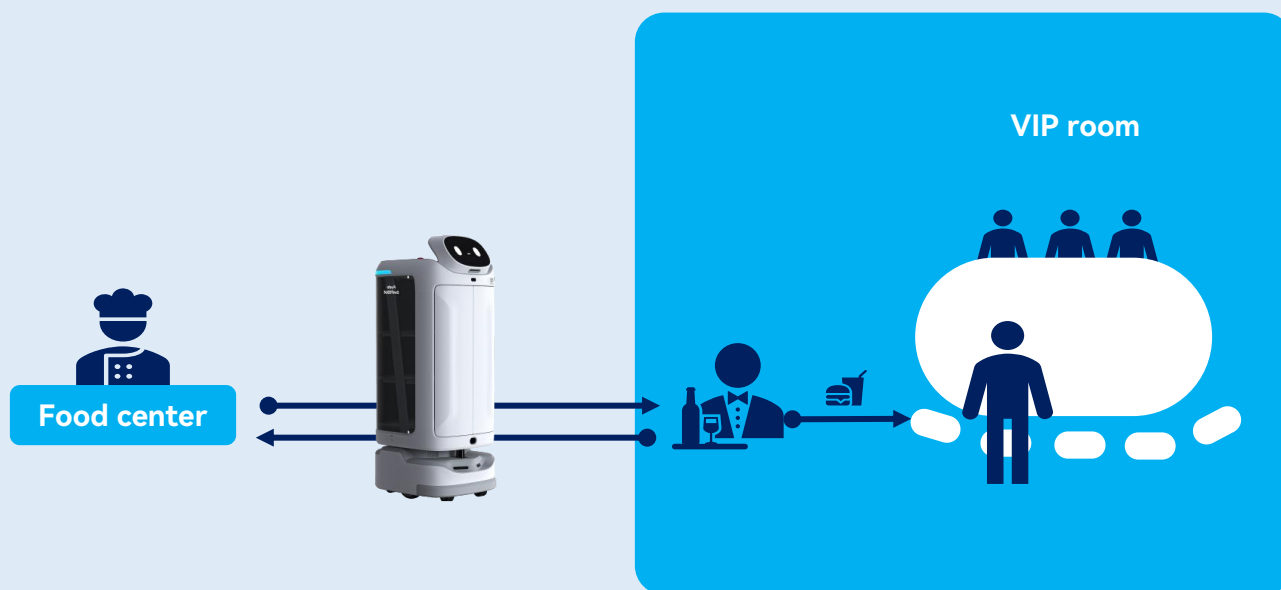
Scenario characteristics

- Higher privacy
- High security requirements of food



HolaBot protective delivery

Automatic gull wing doors prevent food contamination during delivery, make customers feel protected



Direct mode Delivery Process

1. Customers order food to service staff
2. The staff notify the food center to prepare the meal
3. The food center places food on the robot and issues delivery order
4. Robot delivery with sealed cabin
5. The robot arrives and the service staff hands the food to the customer
6. The robot returns to the food center and waits for the next mission

Dish Recycle Solution



Scenario characteristics

- High frequency
- Remote call
- Keep customers undisturbed
- Require staff assistance

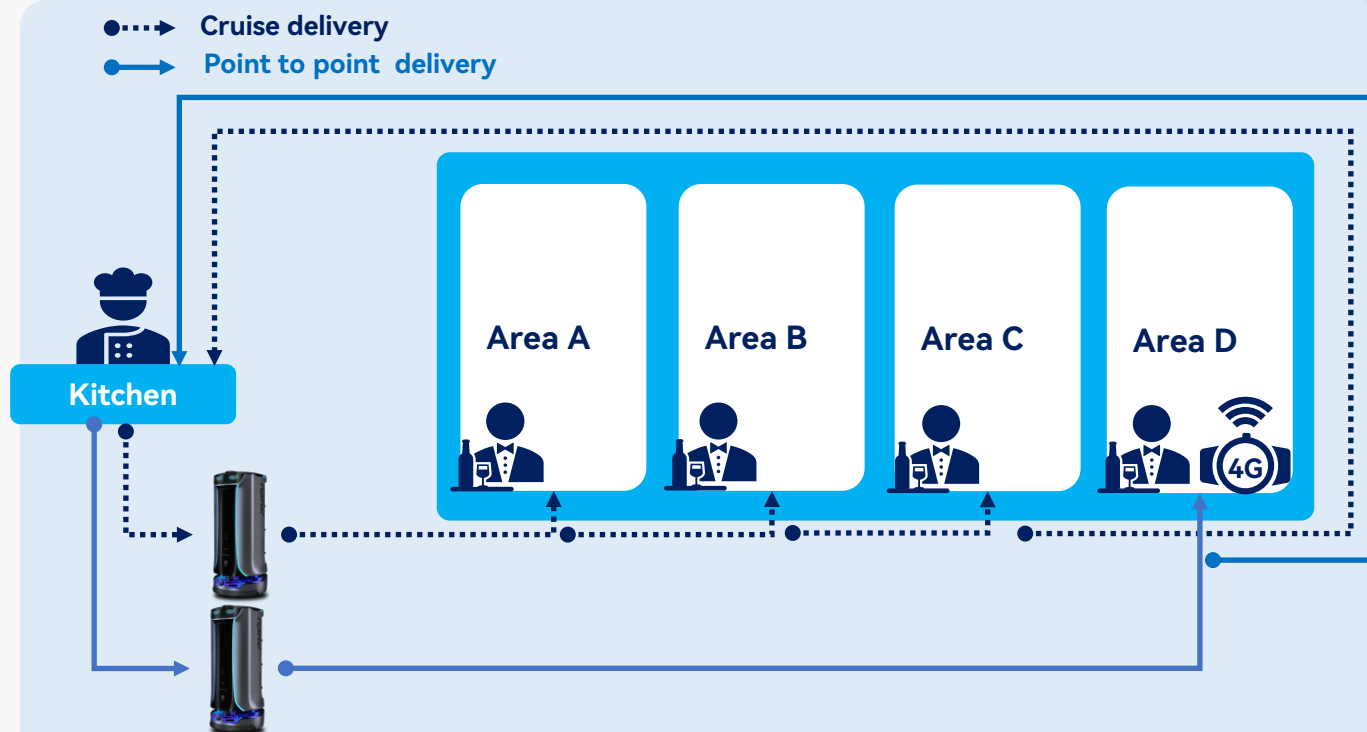


HolaBot dish recycle expert

support cruise mode & 4G watch
remote calling mode ,adapt different
application



4G/Lora Watch



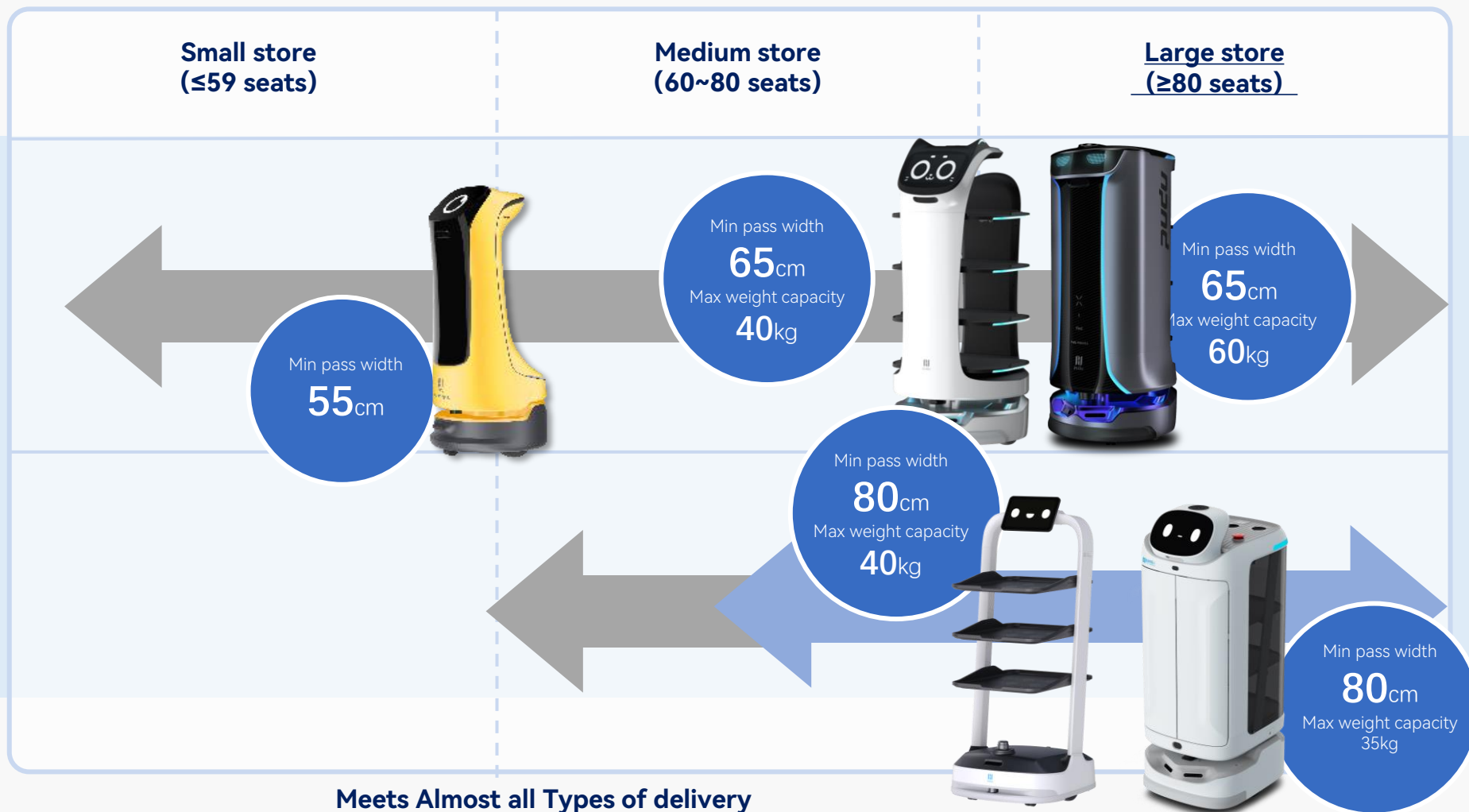
Cruise Dish recycling Process

1. HolaBot Cruise according to the predetermined route and stop at the designated location
2. The staff collect the dishes for the charged area and put it onto HolaBot
3. Hola Robot run to the next point
4. Holabot return to the kitchen ,after cleaned ,start to cruise again

4G watch remote call dish recycling Process

1. The staff calling Holabot by 4G watch
2. Holabot go to the point called
3. The staff collect the dishes for the charged area and put it onto HolaBot
4. Holabot return to the kitchen ,after cleaned ,wait for next call

Delivery Scenarios Configuration



Intelligent Promoting Solution



Lobby Cruise

Mobile advertising
Mobile information query platform
Bring promotions directly to customers' eyes



32" touch screen
In-store marketing with
a large ad display



**18.5" Large Ad
Screen**
Advertisement easy
edition

Festival Image

Cosplay for activity and festival



Third party support

Atmosphere Group

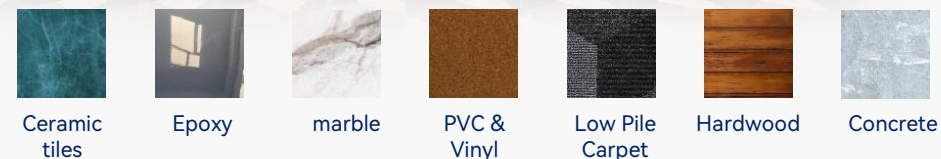
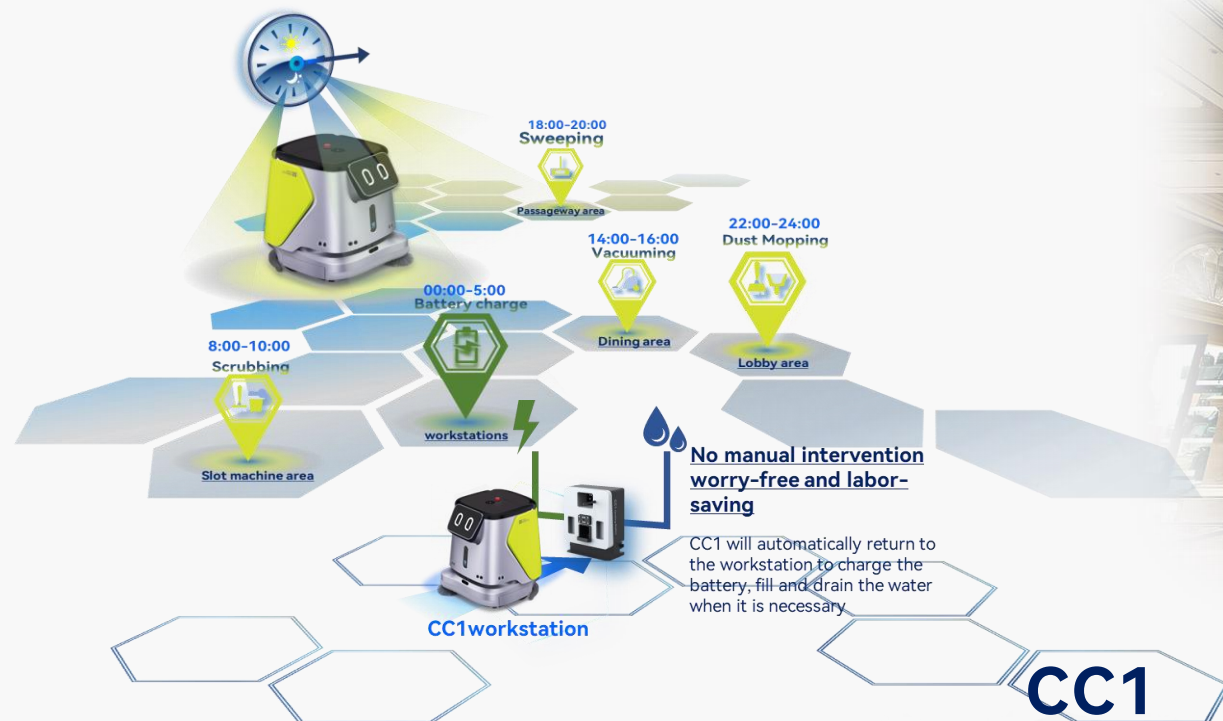
When the grand prize appears, all robots play a congratulatory video together



Third party support
customization



Intelligent Cleaning Solution



1 set CC1 daily cleaning area
= 8400m²
= 1.68 manual daily cleaning area



According to different functional areas, ground materials, and cleaning SOP requirements to make the cleaning plan correlated with

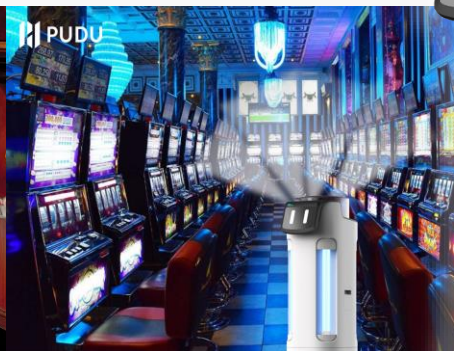
map areas
work modes
time schedule

CC1 can completely execute the cleaning task independently as planned

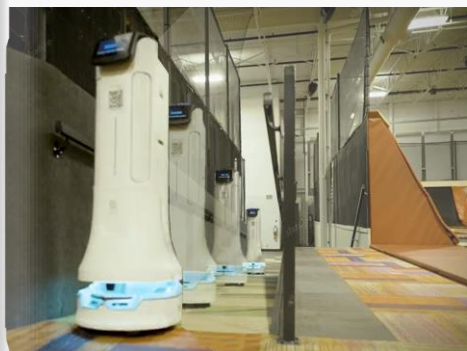
Intelligent Disinfection and Sterilization Solution



Regular ultrasonic dry fog disinfection coverage in the dining area



Mobile ultrasonic dry fog disinfection or fragrance spray



Main road ultrasonic dry fog cruise disinfection



UV disinfection Cruise at No customer area and time



Ultrasonic Dry Mist Disinfection



Larger tank capacity for larger disinfection coverage



Multi-type work mode for flexible choices

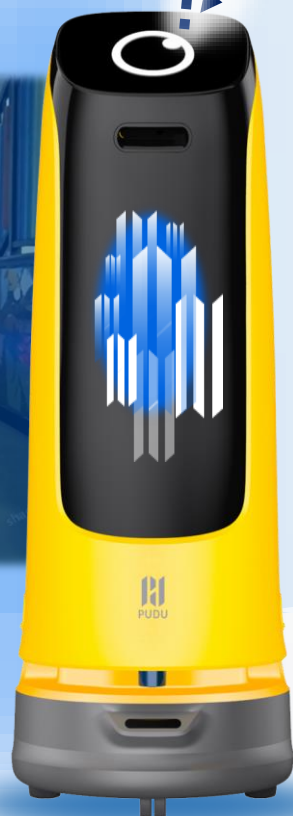


Bigger battery capacity for longer endurance



Pudu Scheduler

Powerful self-organized network
adapt to complex
and dynamic
scenarios



Multiple types of robots can work
together within the same map,
comprehensively improving the
intelligence of the casino





Pudu Self-charge Solution



**No manual intervention
worry-free and labor-saving**

CC1 will automatically
return to the workstation
to charge the battery, fill
and drain the water when
it is necessary



Puductor2 and KettyBot
can return to charge
station while the battery is
detected to be low to
ensure long work duration

Pudu Self-charge solution
Truly liberate management resources and achieve unmanned operation

Operation Management Solution



Service quantities 255 8.31 Running distance(KM)

Service duration(h)

43.33



Running mileage

116.82 KM

Number of tasks

1,838 times

Number of tables

3,000 table

Number of trays

3,396 pieces

Task duration

90.74 h

Average speed

0.73 m/s

Fault report

0 pieces



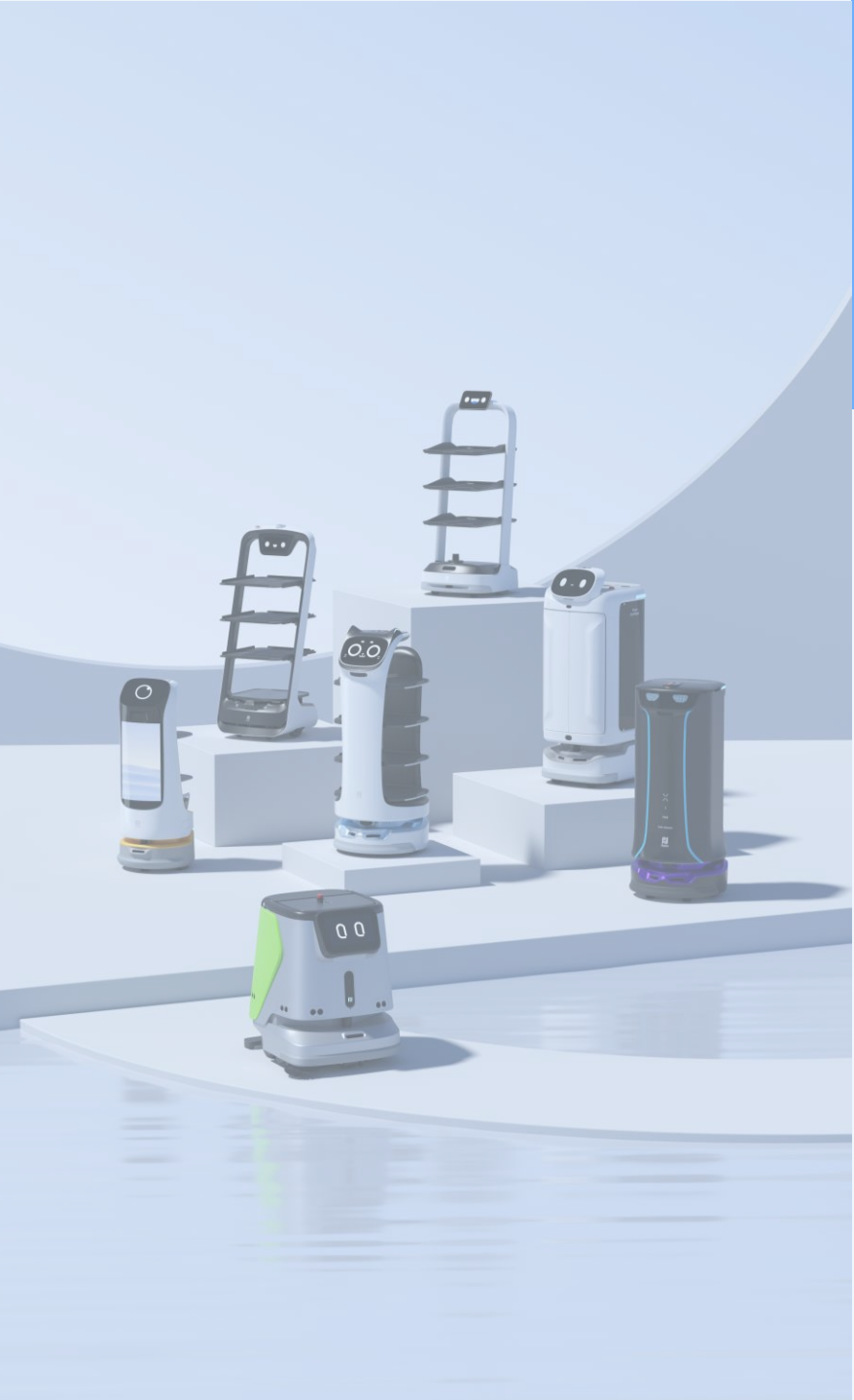
PC: PUDU Merchant Management Platform

1. Fully meets marketing requirements and facilitates business operations of supermarkets:
2. Quick editing of personalized ads, music, and voice
3. Commodity category management specially designed for supermarkets
4. Hierarchical authorization management tailored for supermarket chains



Mobile phone App: Puduklink

1. Marketing asset management
2. Voice content management
3. Anywhere and anytime



02

Successful Cases

Value



Strengthen core competitiveness for Casino



Stronger customer influence

Empower enterprises with innovative and dynamic brand images, and enhance their market exposure



Better service quality

Intelligent robots comprehensively optimize services, improve efficiency, and save costs



More revenue returns

Effective services lead to increased customer traffic, higher operational management efficiency leads to cost savings, and thus generates direct financial returns



Higher working satisfaction for employee

Reflect humanistic care and optimize the work content of employees



Reduce work pressure and burden

Reduce long time & high frequency of repetitive and tedious tasks such as food delivery dish recycling delivery and cleaning



Reshaping employee value

Employees can focus on service and enhance their sense of work achievement



Experience of Technological Innovation for customer



Customer experience improvement

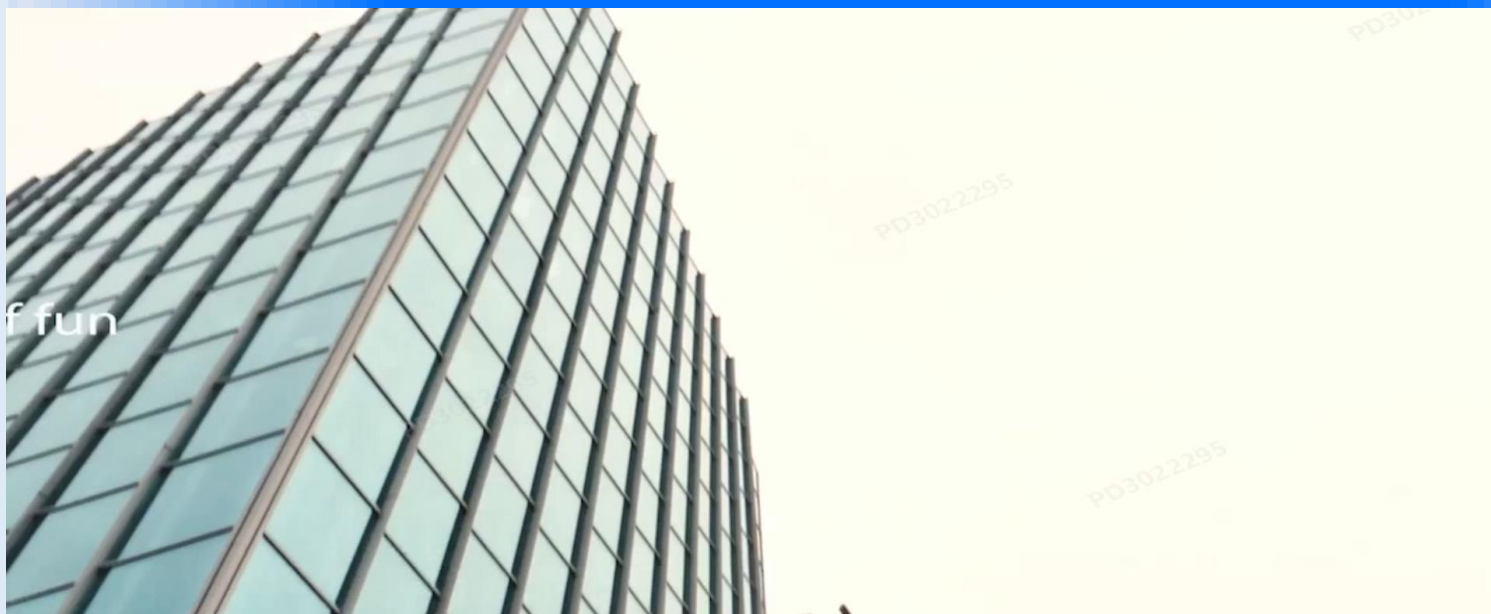
Experience the convenience and efficiency brought by technological innovation



Effective protection and control in the post epidemic era

with less contact services make customers feel more at ease

Successful Case: BellaBot in Casino of Slovenia



Best waiter for whole area
2 BellaBots delivery snack and dessert

Successful Case: Bellabot & Puductor 2 in Canada

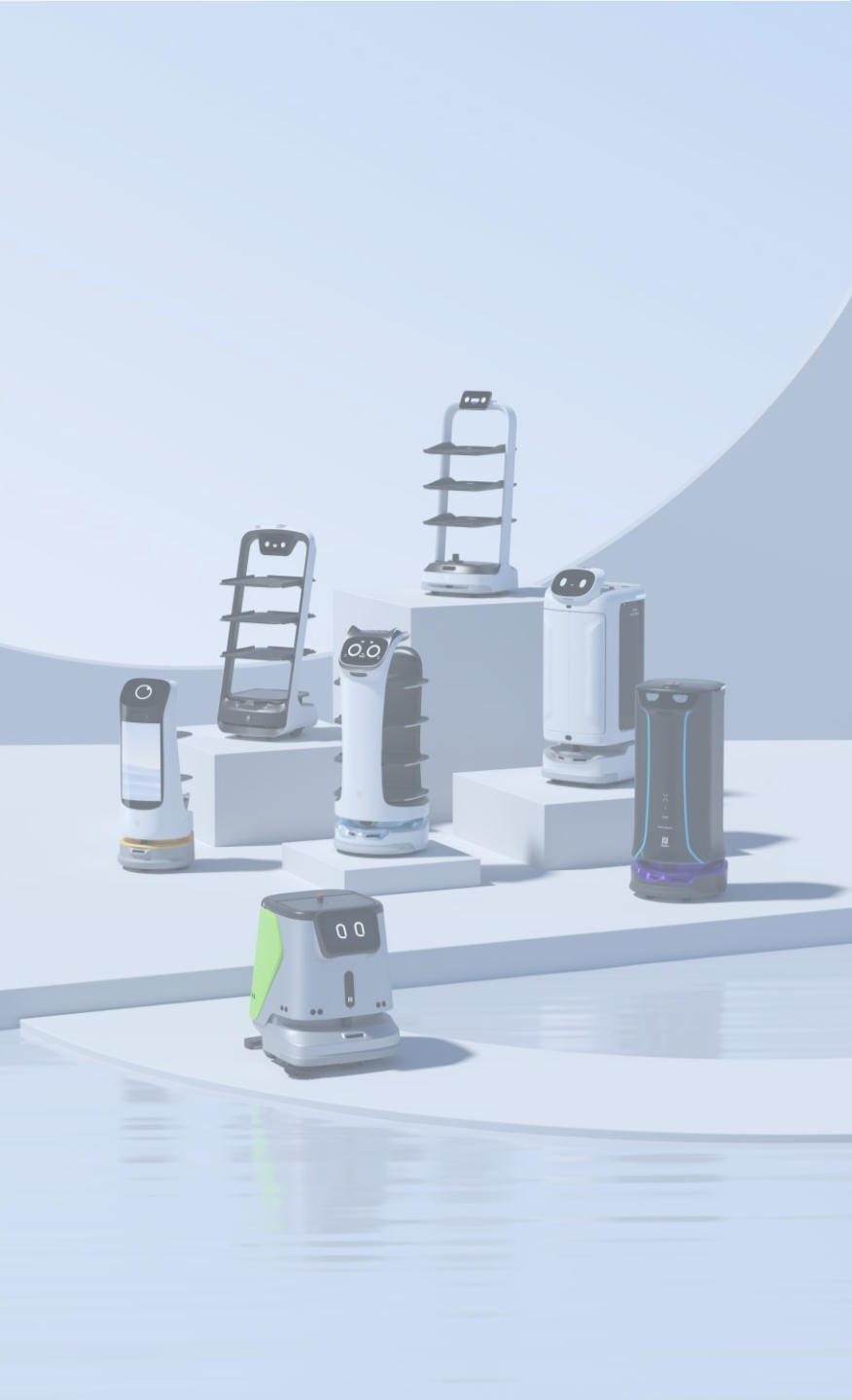
Canada River Cree Resort and Casino



**Bellabot & Puductor 2
Deliver & disinfection**



<https://www.youtube.com/watch?v=RIYrXxIkWak>



03

Product Family Matrix

Creating truly useful robot to improve human productivity and quality of life





Product Family

Delivery Robots

Bellabot

Pudubot 2

Pudubot

Kettybot

Swiftbot

Holabot

Flashbot

Cleaning Robots

CC1

SH1

IOT Solutions

Pager

Autodoor

Elevator

4G/lora
Watch

Table
Tracker

Bluetooth
Speaker

...

Accessories Solutions

Cup
holder

Food
cover

Tray

Display
shelf

Self-
charging
station

...

Pudu Cloud

PUDU Merchant
Management Platform

PuduLink App

PUDU Cloud Platform

Technology

PUDU OS

Positioning and
navigation algorithm

Perceptual obstacle
avoidance algorithm

Motion control
algorithm

Multi-machine
scheduling algorithm

AI interactive
algorithm

Cloud platform
algorithm

Simulation testing
platform

1-N Customized Solutions

Voice

Emoji

Skin

SDK

...

Delivery Robots



GOOD DESIGN
AWARD 2022

BellaBot

Novelty、cute、fully-perceptive food delivery robot



Contactless delivery



Multiple located



Tray Sensor



Flexibility



Personalized
Presentation



Multi-interaction



Changeable
battery



Safety



Service



PuduBot2

Latest、high-performance、extendable、adaptable,
intelligent delivery robot for multiple scenarios



Delivery mode



Shipping mode



Cruise mode



Direct mode



Dish-recycle mode



Birthday mode



KettyBot

With Ad screen, serving as both a delivery and
receptionist



Minimum passability



AD



Reception



Navigation



Voice interaction



Work plan



Delivery



Self-charging



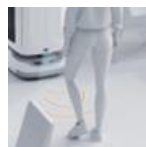
Feature settings

Delivery Robots

SwiftBot



Delivery Robot for Smooth Peak Hour Operations, Redefining Social Interaction between Humans and Robots



Avoidance Reminder



Operating Status Projection



Atmosphere Projection

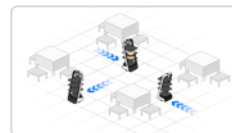


Foot-activated Door Projection

PuduBot



Classic Intelligent Food Delivery Robot, Pioneering the Industry of Trackless Delivery Robots



Scheduling



3D avoidance



Independent Suspension



Ultra-long Endurance



Optimal Path Planning



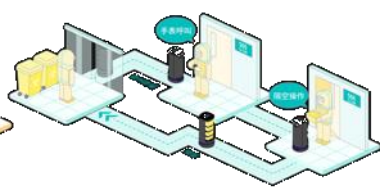
Sun-resistant

HolaBot

First Delivery Robot with Remote Call Notification Function for Multiple Delivery Scenarios



Dish-recycle



medical waste recycle

FlashBot

Full-Scenario Delivery for Hotels, Offices, Apartments, and Residential Buildings



APP call



Independent cabin door



Customized disinfection time



Take elevator



Auto-door



Arrival notification

Cleaning Robots




reddot winner 2023

PUDU CC1

All-Purpose Cleaning Monster: Four-in-One Scrubbing, Sweeping, Mopping, Vacuuming

A machine that integrates sweeping, mopping, vacuuming, and dusting, easily meeting all cleaning needs with just one device



dusting



mopping



sweeping



vacuuming



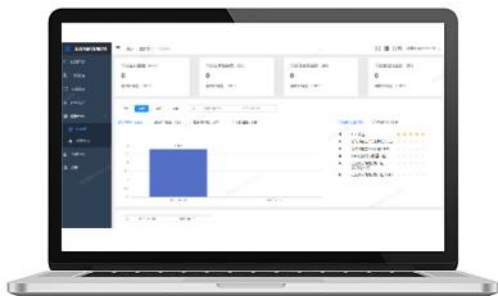
PUDU SH1

Professional Mini Digital Floor Scrubber: A More Professional and Thorough Cleaning Solution

The compact and flexible design allows for easy transition between tasks on multiple floors and surfaces



PUDU Cloud



PUDU Cloud Platform

For distributors

Management platform for managing business opportunities, clues, sub-distributors, merchant customers, and selling robots.

PC – Web

- 1) Singapore Group: <https://css.pudutech.com>
- 2) Germany Group: <https://csg.pudutech.com>
- 3) China Group: <https://cs-internal.pudutech.com>



PUDU Merchant Management Platform

For end-store

A platform for robot configuration, remotely controlling, managing stores and viewing robot operation data.

PC – Web

- 1) Singapore Group: <https://businesss.pudutech.com>
- 2) Germany Group: <https://businessg.pudutech.com>
- 3) China Group: <https://business.pudutech.com>



PuduLink App 【iOS】



PuduLink App 【Android】

IOT Solutions

Pager



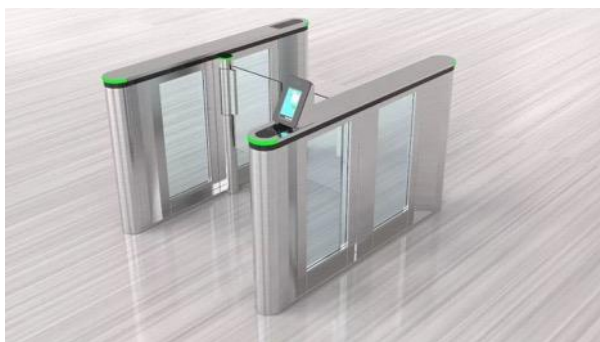
4G/Lora Watch



Elevator



Auto-door



Bluetooth Speaker

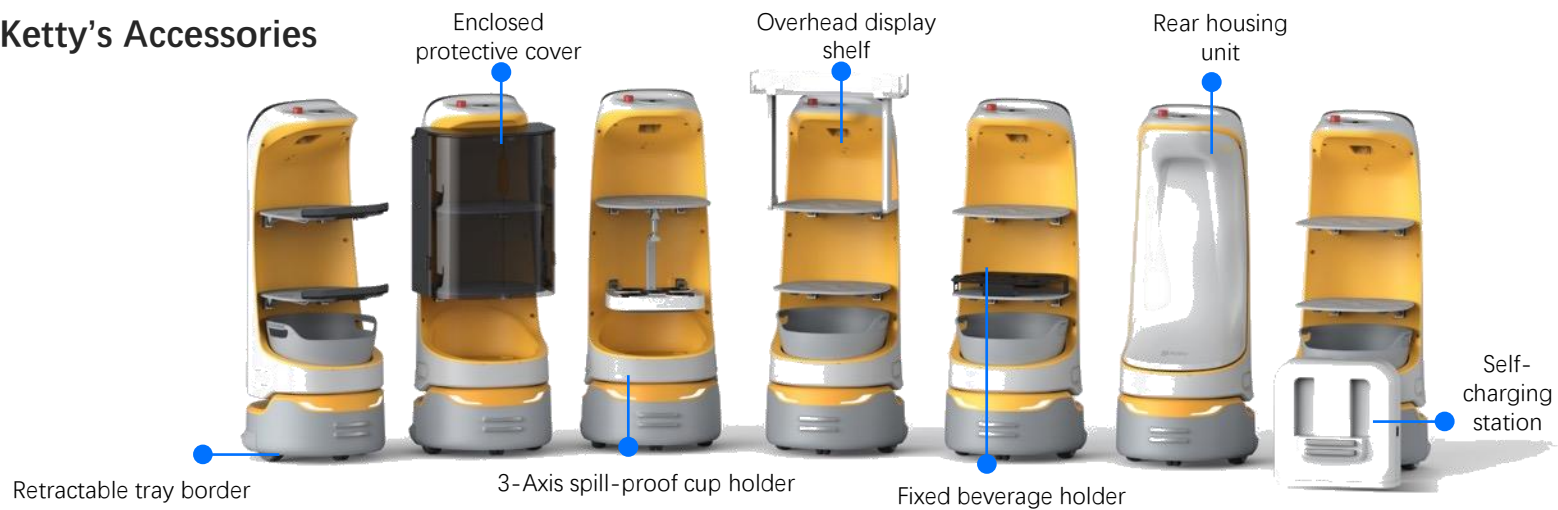


Table Tracker



Accessories Solutions

Ketty's Accessories



Enclosed Protective Cover



Bearing tray (Bella)



Cup holder (Bella)



1-N Customized Solutions

android 

PUDU OS



Robot SDK



Skin



Customized Emoji



Customized Voice

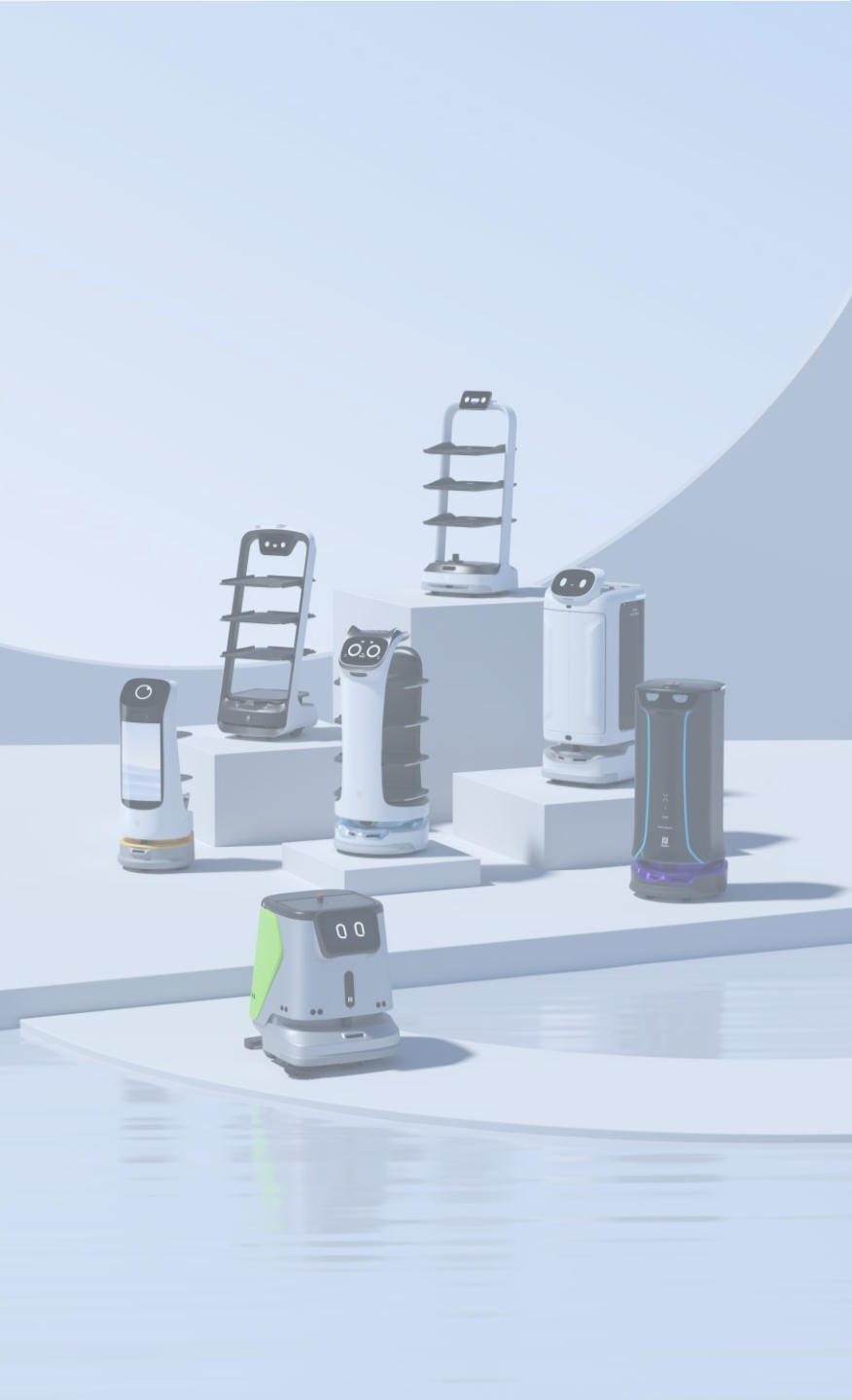


Customized Software



Combined with 3rd party
hardware

More options to come
soon



04

PUDU Introduction

PUDU Introduction

Pudu Robotics

In 2016, Pudu Technology was founded in Shenzhen as a national high-tech enterprise that specializes in research, design, production, and sales of commercial service robots. After seven years of development, Pudu Technology has established hundreds of service points worldwide, with business in over 60 countries and regions, delivering more than 56,000 units. It has become a leader in the field of commercial service robots globally. In the age of intelligence, Pudu Technology will continue to uphold the "inventor's spirit" and solidify its technology, refine its products, create truly useful robot products, and enhance the efficiency of human production and life.

* Relevant statistics as of December 2022

Mission

Use robots to improve the efficiency of human production and living

Vision

To become the world's strongest commercial service robot company



BE INVENTIVE



BE CUSTOMER
CENTRIC



THINKING IN THE
LIGHT OF FIRST
PRINCIPLES



BE ENTERPRISING
& ACCOUNTABLE



PURSUING FOR
THE ULTIMATE



MOVING FAST



BE OPEN-UP



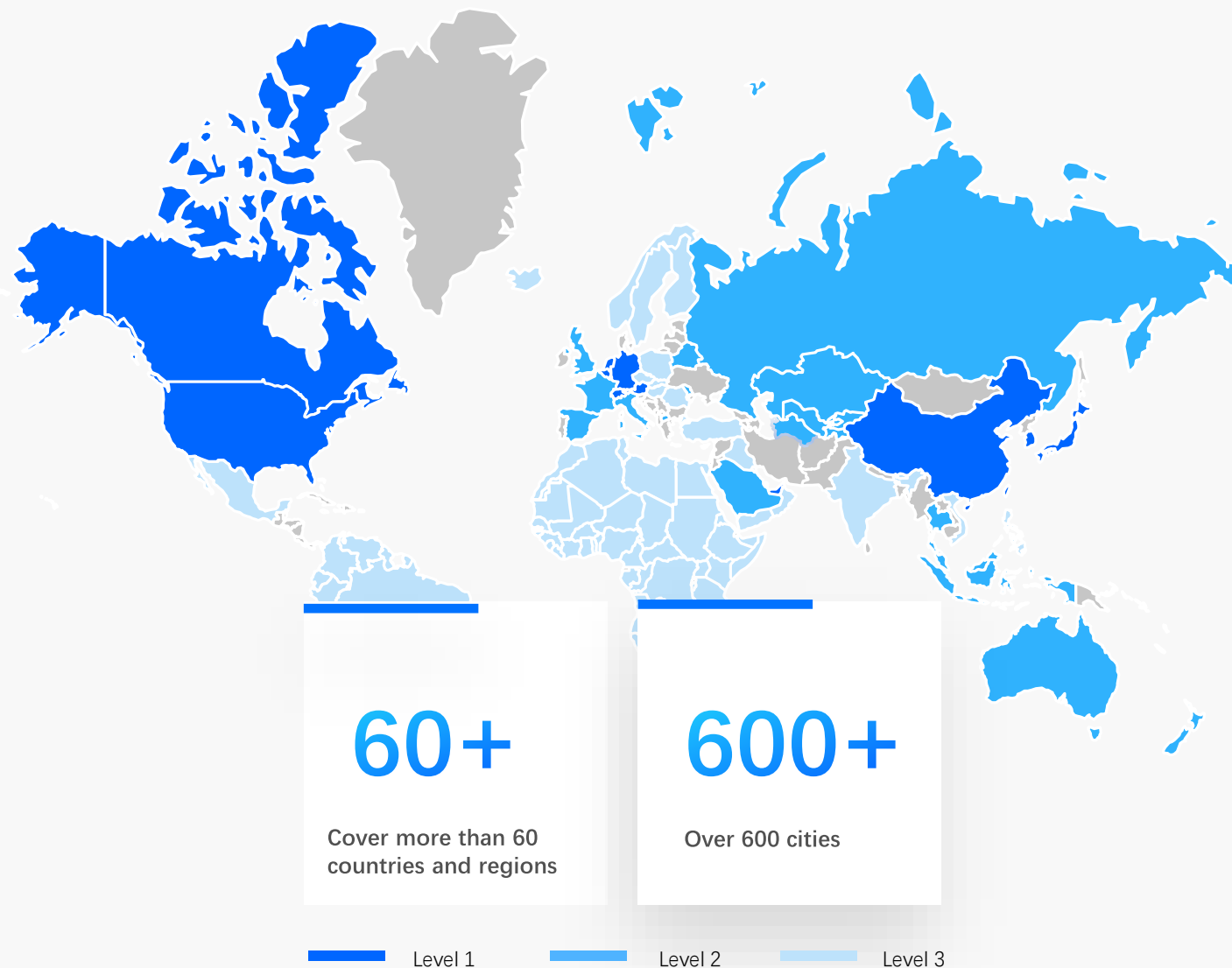
EMBRACING
CHANGE

Scale Advantage

Globalization

Pudu Robotics has established a business presence in North America, Europe, East Asia, Asia-Pacific, the Middle East and Latin America. The products have been exported to more than 60 countries and regions around the world, covering more than 600* cities worldwide. Pudu Robotics has established a trustworthy international brand image and become one of the representative enterprises of China's "intelligent" manufacturing abroad.

* Relevant statistics as of December 2022



Scale Advantage

Total Sales Quantity

56,000+

56,000+ * units have been sold worldwide

Market Share in All Scenarios

TOP1

The market share in the full range of commercial service robots is No.1

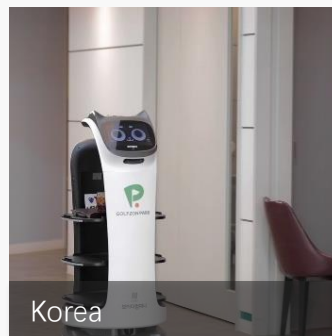
Market Share of the Overseas Catering Industry

>80%

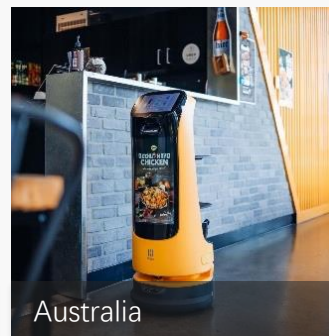
Overseas catering industry's market share > 80%

* Relevant statistics as of December 2022

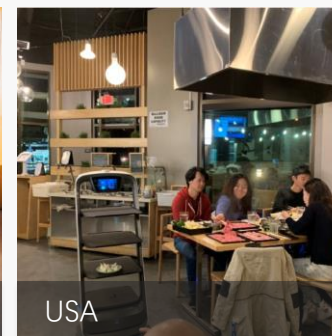
The world largest commercial service robot manufacturer



Korea



Australia



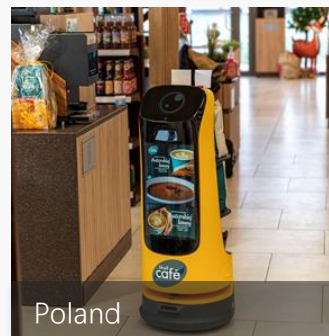
USA



Jordan



Switzerland



Poland



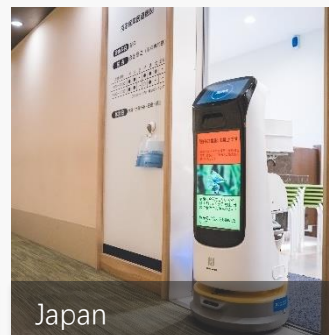
China-Shenzhen



China-Xiamen



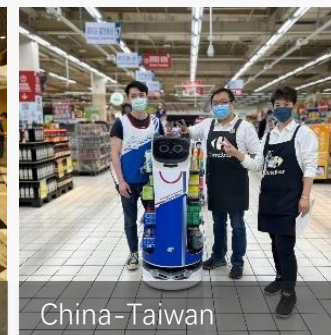
Malaysia



Japan



China-Hongkong



China-Taiwan



Horner and Certification

Certificate & Patent

All of existing products have passed the multi-certification that match the targeting markets.



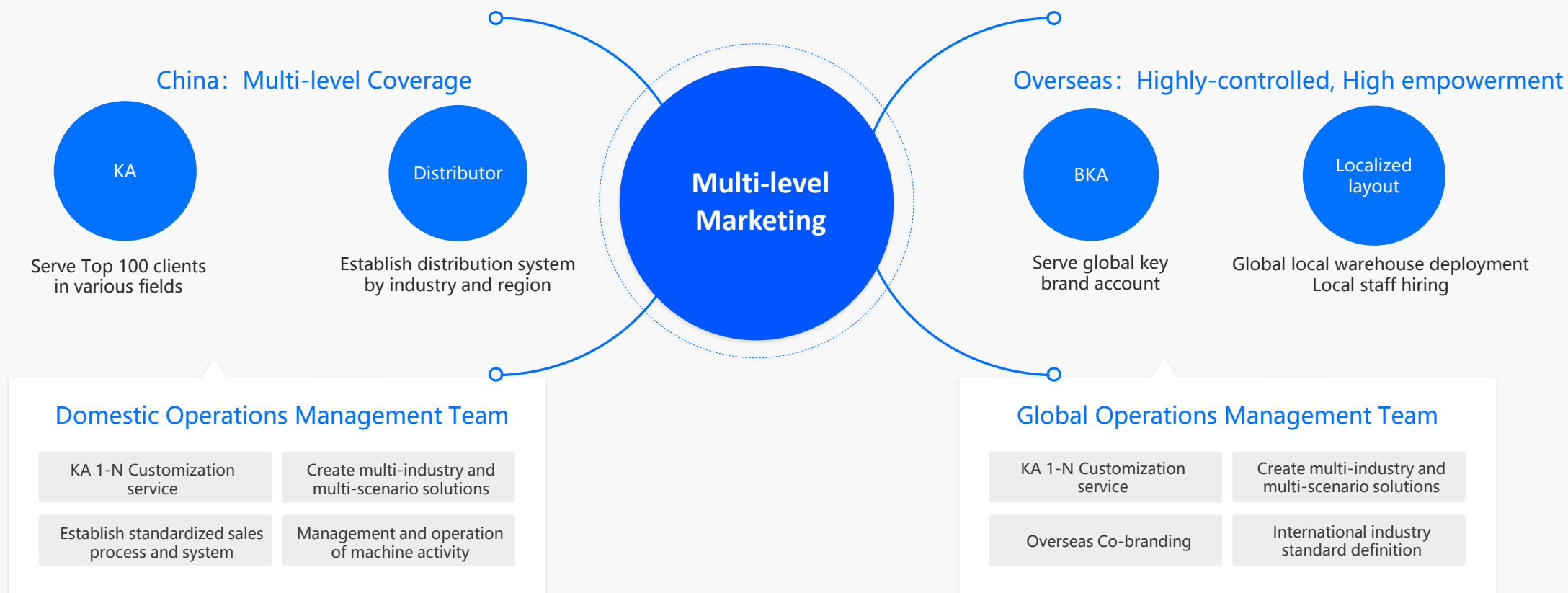
Pudu Robotics has applied for about 1300* core patents, of which invention patents are over 60%, involving positioning, navigation, motion control, human-computer interaction, robotics arm, servo motor, computer vision, cloud platform and other technical fields.

* Relevant statistics as of December 2022



Operation Advantage

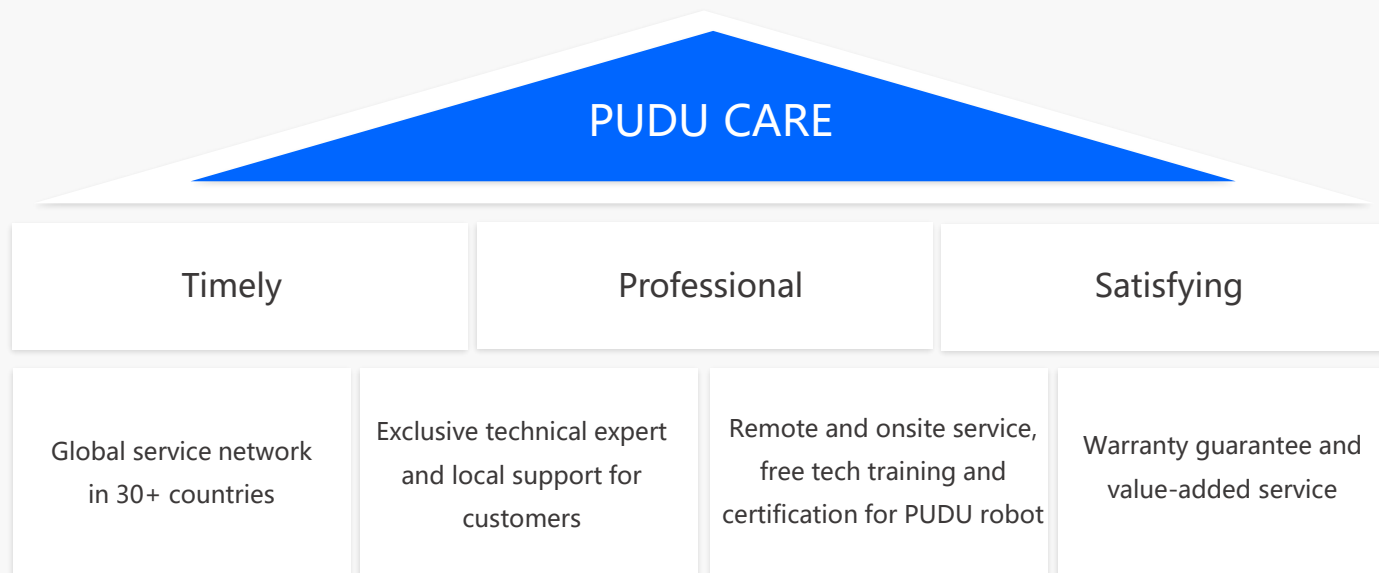
Global Multi-level Sales System



Operation Advantage

Offline Service:

- 1 Year Free Warranty
- 7 × 24 Hours Service
- Local Service & Support



Pudu Robotics has a thorough after-sales support system and humanized after-sales policy as well, whenever it is needed, we are going all out to offer service and reach your satisfaction.

Thank you!



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