Pilot Demonstration in Shenzhen

AI+ Elderly Care Powers Silver Economy

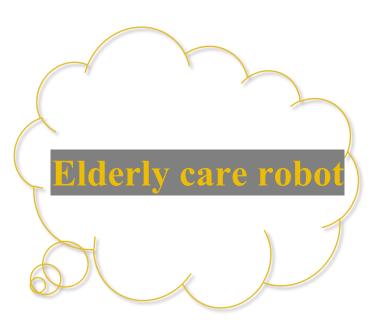


Ni Chidan Shenzhen Elderly Health Care College

- ♦ Observer of National Technical Committee for Standardization of Rehabilitation Technical Aids
- ♠ Member of Guangdong Provincial Technical Committee for Standardization of Elderly Care Service
- **♦** Leading Talent of Public Administration of Guangdong Vocational College

- **♦** Member of Expert Database of Shenzhen Socialist Pilot Demonstration Area
- ◆ Member of Social Development Committee of the Standing Committee of Shenzhen Municipal People's Congress
- Member of the Social Development Committee of the Eighth People's Congress of Nanshan District





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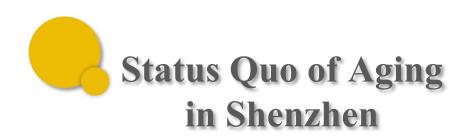
PART 1 Goal of Pilot Demonstration of Elderly Care Service

PART 2 Exploration of the AI+ "Silver Economy" Path Based on Technological Edge in Shenzhen

PART 3 Typical Cases of AI+ "Silver Economy" in Shenzhen

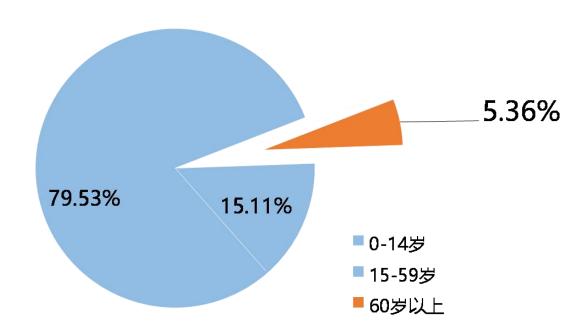




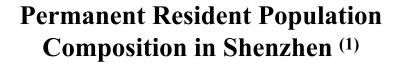


Size: Pre-aging stage on the whole

Structure: More non-household population than household population Distribution: High density of permanent resident elderly population



(People aged above 65 take up 3.22%)





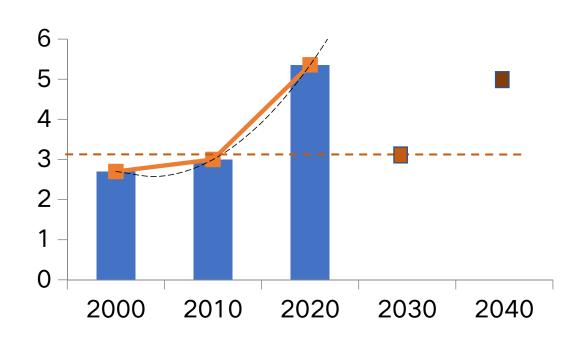
Comparison of Household Registration Structure and Distribution Density of the Elderly Population in Beijing, Shanghai, Guangzhou and Shenzhen



Aging Trend in Shenzhen

The "whole batch" of Shenzhen builders are getting old, accelerating the population aging process The demand for social care is increasing rapidly due to factors like aging, chronic disease and fewer children

The old have high expectations of high-quality life, with multi-level and multi-type needs



Growth of the proportion of 60 year old in Shenzhen (1)

Table -1 Comparison of Average Life Expectancy between People in Shenzhen and People Nationwide

	2019	2030
Nationwide	77.3	79
Shenzhen	81.45	83.73

Table -2 Comparison of Average Household Population between Shenzhen and China

	2010	2020
Nationwide	3.10	2.62
Shenzhen	2.12	2.25

Note: (1)Polynomial fitting based on current data

Development Goal of Elderly Care Service in Shenzhen

2035

The sustainable elderly care service model will be mature and complete, with all citizens enjoying high-quality elderly care services, and the city will be basically built into a benchmark for elderly care service and happiness of citizens in the world.



2025

An institutional framework to deal with population aging will be established, and a high-level "1336" elderly care service system will basically take shape, with continuous improvement of the sense of gain and happiness of the elderly and their families.

02 2030

The institutional framework and elderly care service model for dealing with population aging will be more scientific and effective, with the basic elderly care service accessible to every citizen, and the city will lead the country in elderly care service.

All people will enjoy a decent life in their old age, with coordinated and sound development of population aging and economic and social interaction. And a vibrant "ageless society" accessible to every responsible citizen will be built comprehensively.



Development Strategy of Elderly Care Service in Shenzhen

Conceptguidance

Strengthening of theoretical research on the active response to population aging to enable the concept guidance of "elderly care service"

Service guidance

Promotion of the construction of a four-level network for community and home-based elderly care to enable the service guidance of "elderly care service"



System guidance

Building of a policy system to actively deal with population aging and enable the system guidance of "elderly care service"

Technological guidance

Promotion of technical R&D and application in elderly care to enable the technological guidance of "elderly care service"





Urban Technological Innovation Advantages in Shenzhen

1.Shenzhen, driven by policies, builds a pilot area for AI innovation and application

In May 2019, the
Shenzhen Municipality
New Generation AI
Development Action Plan
(2019-2023) was issued

Tackle problems in key technologies

Develop industrial clusters

Integrate real economy

Support public services

Pool high-end talent

Build laws & regulations standards

Optimize industrial distribution

Goal in 2023

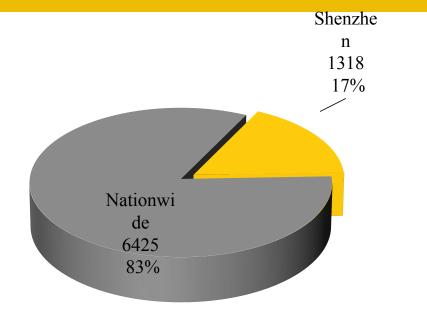
- **◆**More than 20 innovative platforms
- **◆**More than 20 leading enterprises with technological innovation
- **◆10** key industrial clusters
- **◆**More than RMB 30 billion in the market size of AI core industry
- **◆RMB** 600 billion in the market size of related industries

To become a world-class pilot area for AI application

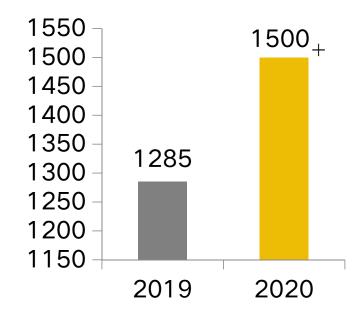


Urban Technological Innovation Advantages in Shenzhen

2.Outstanding advantages of AI industrial clusters





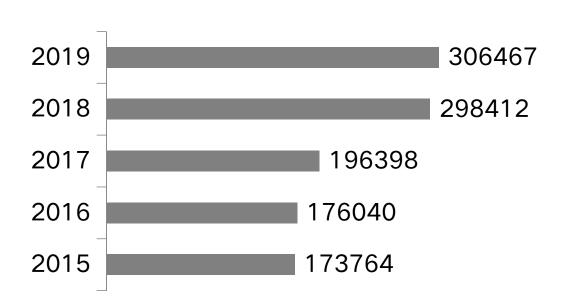


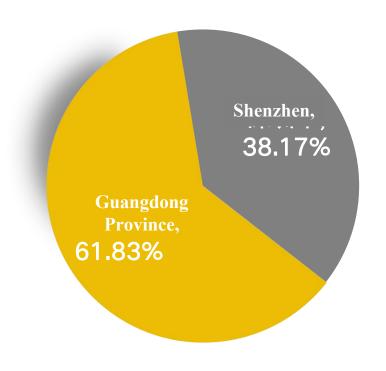
Market Size of AI Industry in Shenzhen (in RMB 100 million)



Urban Technological Innovation Advantages in Shenzhen

3. High-end talents are pooled





Full-time Equivalent of R&D Personnel in Shenzhen

Ratio of Full-time Equivalent of R&D Personnel in Shenzhen to that in Guangdong Province



"Silver Economy" Opportunities in the Context of Aging

Construction

Investment opportunities in the construction of home-based and community elderly care service facilities, architecture, design, decoration, age-appropriate transformation, etc.;

Service

The service system that integrates the rehabilitation nursing and the daily care (assisted bathing), especially services related to long-term care insurance, insurance, finance, trusteeship, etc.;

Talent

Talent services, labor dispatch, talent training, etc., matched with home-based and community elderly care;

Product

Home-based and community elderly care service products, how to respond to related needs, products related to basic necessities of life in the home environment, and supplies related to the elderly at home;

Consultation and intermediary

Planning for life in old ages and elderly care service intermediary, etc.;

AI and technology

Home care system, life monitoring, home robot, etc.

In 2024, the market size of China's elderly care will exceed RMB 10 trillion, among which the value of the smart elderly care service industry will exceed RMB 1 trillion in the future



Scientific and technological application of "Silver Economy" in Shenzhen



1. Promotion of the use of elderly care service card to enable "one card for different purposes in the whole city"



Scientific and technological application of "Silver Economy" in Shenzhen

- ◆ The "907" comprehensive demonstration project for happiness and health care provides ageappropriate transformation for the elderly, incapacitated and other special elderly people;
- Establish a closed loop of "intelligent product matching service background support";



Age-appropriate transformation



Intelligent product service matching

2. Promotion of the deployment of smart devices to enable the health and safety of the elderly at home



Technological support of "Silver Economy" in Shenzhen



Intelligent services



Big Data Application



Whole process supervision



Smart health Elderly Care Service Industry



Virtual nursing home





Technology innovation



Biological medicine



Annual Card of Smart Elderly Care Service

Enjoy elderly care service at home and see



Intelligent elderly care products + door-to-door service

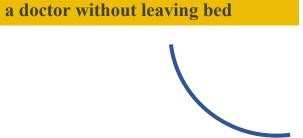


Management



Service

Encourage active innovation



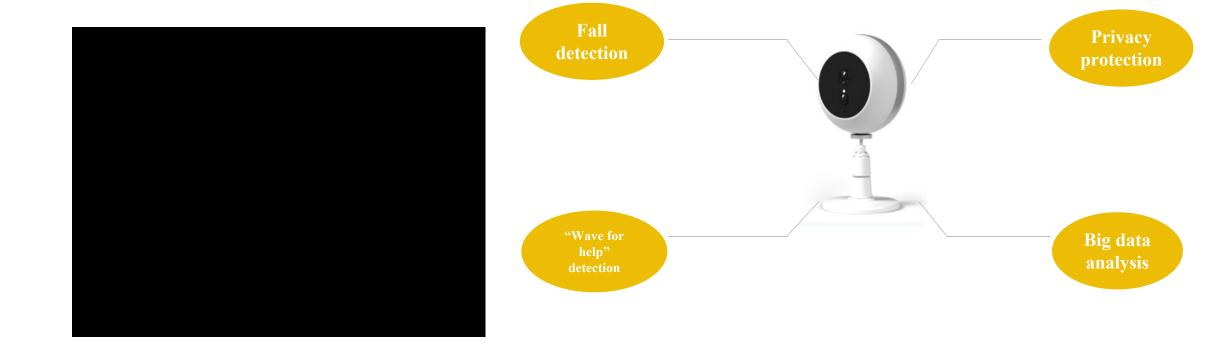


Technical support





AltumView "Match Man" Technology





AltumView "Match Man" Technology







CPU

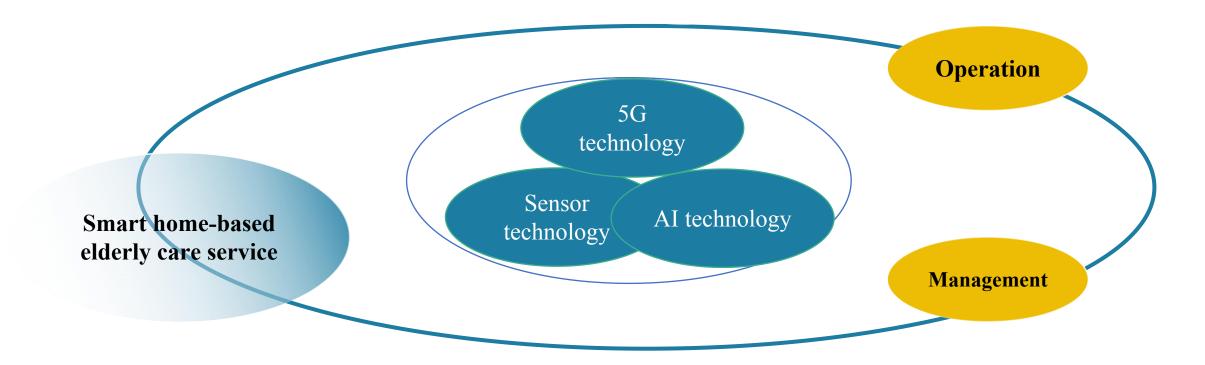


Deep machine learning



Identification of clinical symptoms and chronic diseases

AltumView "Match Man" Technology



Build a "5G+ smart home-based elderly care service + operation + management" integrated smart medical care platform



Yantian 24-hour Smart Elderly Care Service Monitoring Platform



Technology Powers Elderly Care Service



Shenzhen, China