

XtalPi 2228.HK

2024 Investor Presentation



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This presentation may contain forward-looking statements relating to the forecasts, targets, outlook, estimates of financial performance, opportunities, challenges, business developments, business plans and growth strategies of XtalPi Holdings Limited (the "Company" or "XtalPi") and its group companies. These forward-looking statements are based on information currently available to XtalPi and are stated here on the basis of the outlook at the time that this presentation was produced. The Company undertakes no obligation to publicly update any forward-looking statement, whether written or oral, that may be made from time to time, whether as a result of new information, future developments or otherwise. The forward-looking statements are based on certain expectations, assumptions and premises, some of which are subjective or beyond our control. The forward-looking statements may prove to be incorrect and may not be realised in the future. Underlying the forward-looking statements are a large number of risks and uncertainties. Therefore you should not rely on any of these forward-looking statements. Please see our various other public disclosure documents for a detailed discussion of those risks and uncertainties.

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Building the ASI infrastructure for the life sciences and materials industries



Quantum physics



Artificial Intelligence



Robots



Computing Power





Shenzhen International Biomedical Industrial Park



Shanghai Zhangjiang Innovation Park



Beijing Zhongguancun



100 Chestnut

800+ Employees Over 10,000m²

Robotic Laboratory Space

500+

R&D Personnel

200+

Models

1M + Cores
Global Computing
Power

160+

Patents

The first 18C stock listed on HKEX (XtalPi 2228.HK)

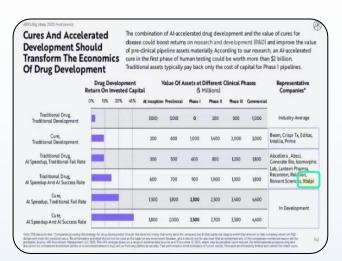
June 2024



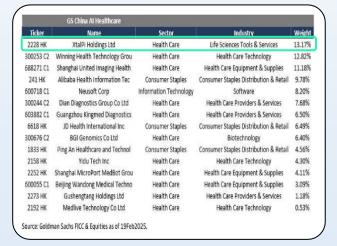
An Innovative Force Widely Recognized Globally







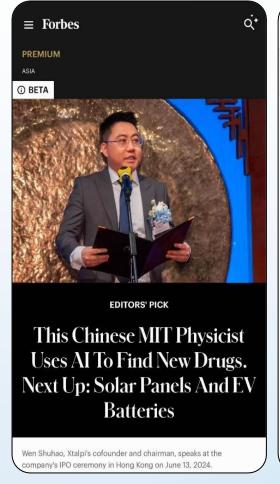
Top 10 pharma companies by 2023 revenue and their AI ARK Invest—BIG IDEAS 2025 drug discovery activities



Largest weighting in the GS China AI Healthcare Index



The WAIC Sail Award



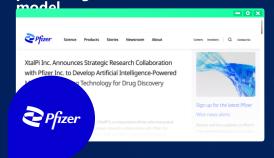


Forbes—The Chinese MIT Physicist Uses AI To Find New Drugs, Next Up: Solar Panels And EV Batteries

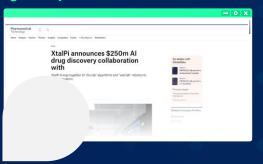


Extensive Cooperation with Top Pharmaceutical and Material Sciences Companies, Research Giants and Government Agencies

Continuing our in-depth AIDD development cooperation with pharmaceutical giant Pfizer, jointly publishing the XtalPi Force Field



Signed a US\$250 million AI drug discovery research agreement with an Indianapolis headquartered global pharma



Working with MIT to jointly build the Strategic MIT AI Future Lab and jointly drive scientific discovery Microsoft industrial



Strategic partnership with Microsoft China, promoting industrial research and educational reform using AI and Robotics tools



Jointly building an empowerment platform for SMEs with MIIT of China, focusing on cosmetics, medicines and new materials



Cooperating with UAE Sheik's Office to use AI + Robotics to empower the development of regional traditional medicines



Signed a cooperation agreement with Indonesia's Sinar Mas Group, to jointly promote and develop the Al industry in the APAC region



Collaborating with Hengjian Holdings, building out China's GBA "AI+" technology and industry integration innovation consortium



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Highly-Flexible and High-Precision Robotics



Traditional Chinese Medicine: Hengqin Lab in Guangdong
The Modernizations Platform for TCM



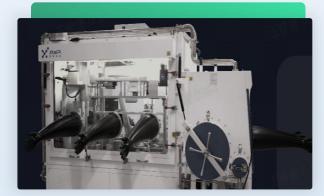
AMGEN Pharma: Amgen Inc.
Automated Compound Library



Petrochemical Industry: Shanghai Research Institute of Sinopec Catalyst Screening

















2024 Business Update

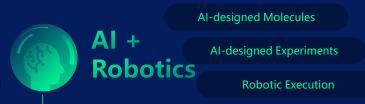


Al + Robotics Reshapes the R&D Paradigm and Ushers in the Era of Intelligent Drug and Material Development

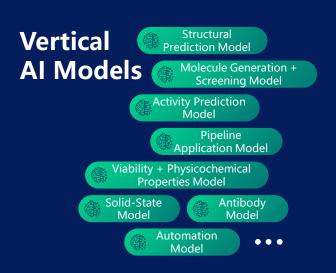
Opening the Era of Intelligent Molecular R&D

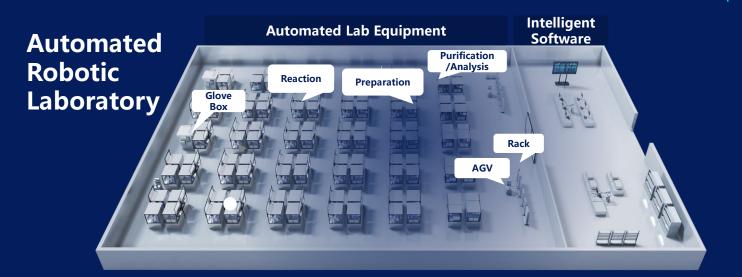






- Data Moat Construction: Our automated robotic laboratory can cover over 80% of common medicinal chemistry reaction types, accumulating 200,000+ reaction process data points monthly.
- Outperforming Human Experts: We have developed 20+ new Al models for reactivity and experimental condition prediction, all with accuracy rates exceeding 80%. These models significantly outperform synthetic chemists, especially in identifying and predicting failed reactions.







Al Reaction Prediction Capabilities: Al Models Outperform Human Experts, Pioneering a Transformative Era

Al Prediction Models

Al Suzuki Prediction Model Al SNAr Prediction Model

First Group of Chemists

Chemists with Ph.D.

Chemists with master's degree and more than five years of experience

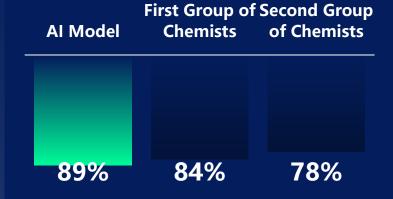
Second Group of Chemists

Chemists with master's degree and less than five years of experience

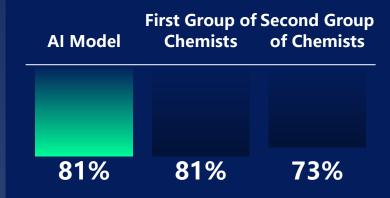
Successful Reaction Prediction

Al model significantly outperforms the second group of chemists

Suzuki Coupling (131 chemists)



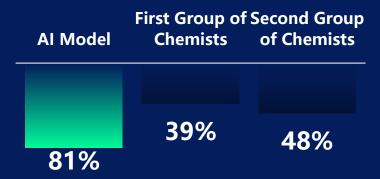
SNAr Reactions (137 chemists)



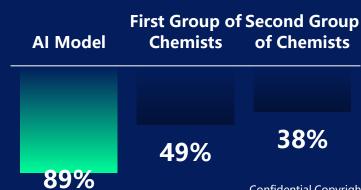
Failed Reaction Prediction

Al model significantly outperforms both groups of chemists

Suzuki Coupling (131 chemists)

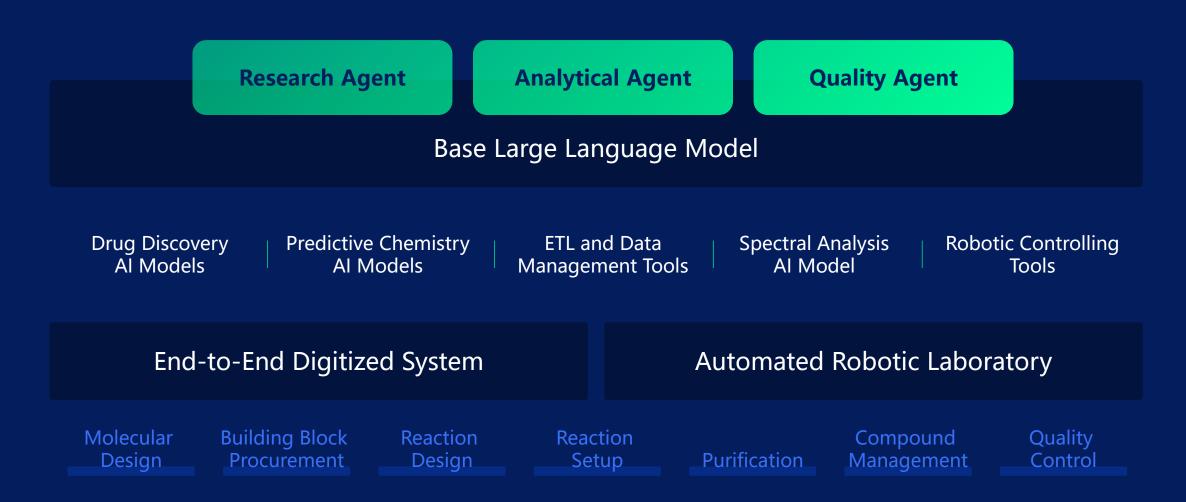


SNAr Reactions (137 chemists)





Al Agents Improve R&D Efficiency



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Latest Progress in Drug Development

More than 300 global partners Recognized by globally-leading pharmaceutical companies

× Leading biotech companies in East Asia

XtalPi successfully cooperated with a few leading biotech companies in East Asia to efficiently design and discover lead compounds for difficult targets

Following the signing of a US\$250 million drug discovery cooperation agreement between XtalPi and an Indianapolis headquartered global pharma, the two parties will further expand their cooperation to the field of solid-state research in 2024

The XtalPi Force Field model developed in collaboration with Pfizer was published in an academic journal, and we will continue to iterate the next generation of force field models in collaboration with Pfizer in 2025

× Leading biopharma company

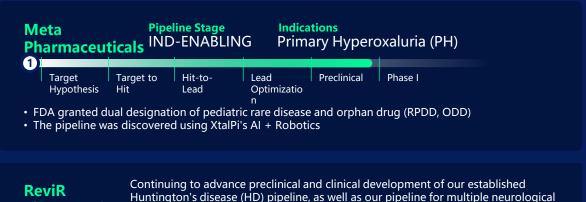
After successfully advancing an innovative drug R&D project with a leading biopharma, the company and XtalPi have reached cooperation on two new Al-driven new drug R&D projects this year





Al for Science platform empowering incubation Pipeline entering clinical stage





diseases, including Charcot-Marie-Tooth Disease (CMT), amyotrophic lateral sclerosis

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Therapeutics

(ALS), and other diseases.



Continuing to Invest in Cutting-Edge Therapies

"

A breakthrough was made in collaboration with Leman, the first patient with systemic lupus erythematosus was dosed with the metabolically enhanced CD19 CAR-T, and Al algorithms allowed for the targeting of solid tumor targets



Leman Biotech



The tumor vaccine project in collaboration with a life science company was presented at the American Association for Cancer Research (AACR) meeting

Life Science Company



Established an Al peptide R&D platform with a well-known scientific research institution in Singapore to discover and design clinical candidate drugs for renal clear cell carcinoma



NCCS

"

Collaboration with N1 Life to create a noninvasive ophthalmic drug delivery platform for nucleic acid and macromolecular drugs



N1 Life

"

Cooperating with Gnosis Neurodynamics to explore the construction of a neurological drug screening platform based on cell platforms and digital brain modelling



Gnosis Neurodynamics

Independently developed an mRNA sequence pre-training model and mRNA property prediction platform, with the related papers being accepted by the 2025 AAAI Artificial Intelligence Conference



AAAI



XtalFold™: World-Leading Protein Complex Prediction Platform, Receives global recognition from leading pharmaceutical companies

XtalFold™ Antibody Drug Discovery Platform

Authorized External Users

J&J



• • •





Intelligent Automated Robotic Solutions Open Markets Globally

Guangzhou University of Chinese Medicine Hengqin Laboratory The Modernizations Platform for TCM



UAE

The first automated modern R&D laboratory for traditional medicines in the Middle East



JW Pharma Automated drug synthesis processes





Top Placement at the Global Material Structure Prediction Competition; Expanding Application Exploration Throughout the New Materials

Industry

Year-Round Service

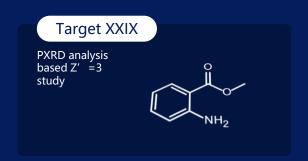
85 Clients

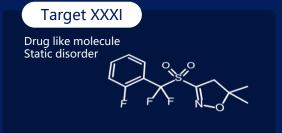
Continuing to cooperate with dozens of the world's leading multinational pharmaceutical companies.

Expanding the application of solid-state research technology capabilities in regards to the new materials industry, including but not limited to: electrochemical materials, polymer materials, ceramic oxide materials

XtalPi was a top placer at the 7th CCDC Crystalline Structure Prediction Blind Test Competition

- 28 international teams participated, challenged with predicting the experimental polymorphs and their relative stability of 7 complex systems using first-principles calculation methods
- We were able to predict the experimental polymorphs of all 7 target systems during the blind test
- One of the few teams able to accurately predict the relative stability between different systems

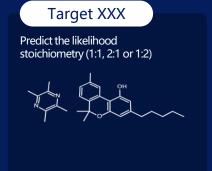










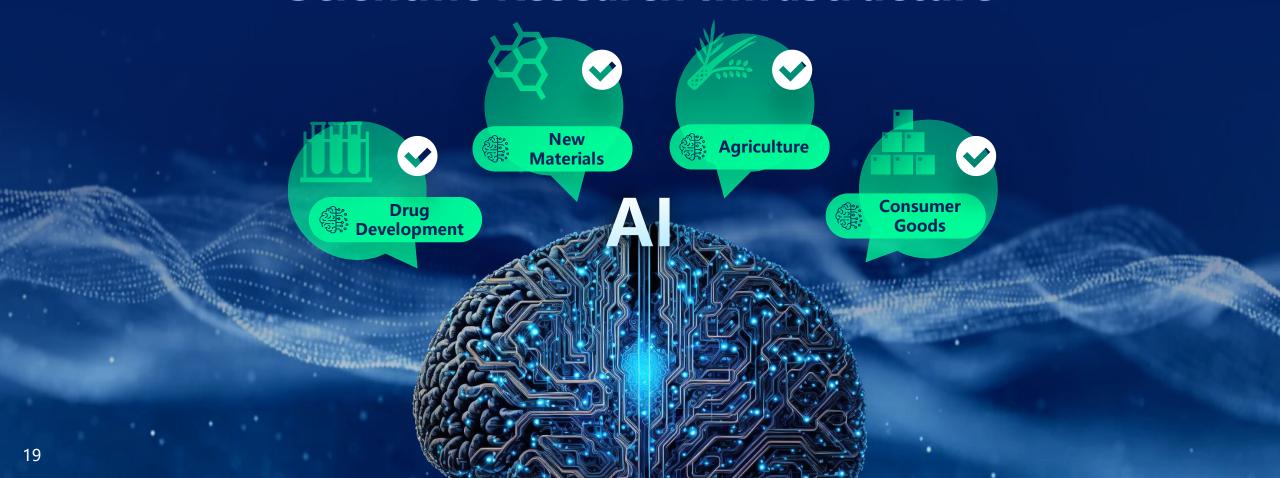




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Al Empowering Industries Globally A New Generation of Industry-Specific Scientific Research Infrastructure





A highly flexible and highprecision robot scientist cluster tailored for AI for Science

Vertical AI and proprietary data building industry-specific "artificial super intelligence"





Future AI-Powered Molecules Boost Materials, Agricultural, and Consumer Goods



Future Materials

Sinopec Research Institute Catalysts



Peking University Electrolyte Formulation



Deep Principle Material Micro-mechanisms



GCL Group
New Energy Materials



MIT
Material Sciences



Future Bio Bioplastics



•••

Shenzhen Yanyi New Materials

Battery Materials



Fangda Carbon

Carbon-Based Materials

NUS Material Sciences



Rio.





Future Agriculture

Shougang Vegetable Al Seed Improvement



GTB
Desert Remediation



Kula Bio Biofertilizers



CyberPlantX "Super Crops"





MIIT
Consumer Goods



Launching the "Al+ Initiative", empowering industries ranging from cosmetics and biopharma to advanced materials and agritech, thereby driving Al adoption across broader industrial ecosystems.



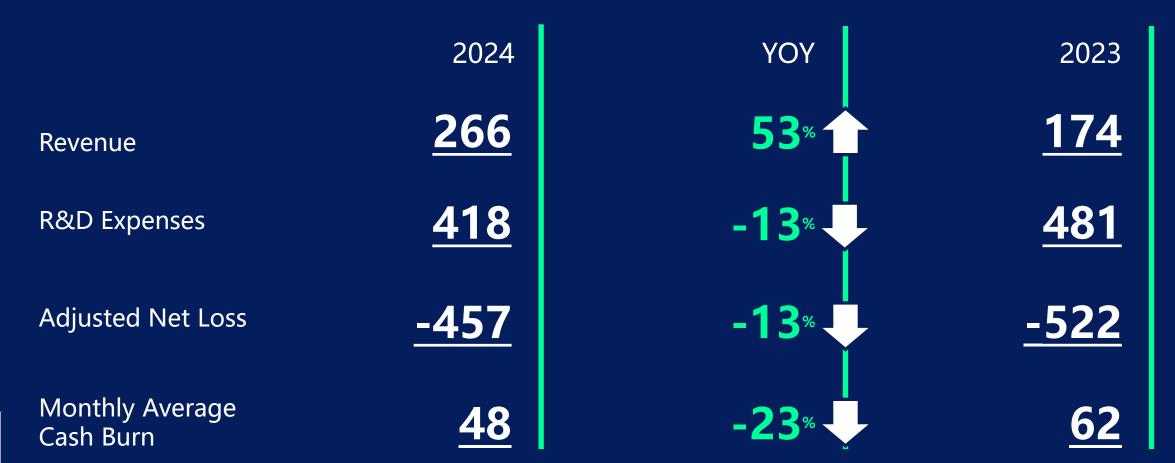
2024 Financial Results



2024 Financial Highlights

In 2024, comparing to 2023, the Company's revenue increased by 53%, the adjusted net loss narrowed by 13%, and the monthly average cash burn decreased by 23%

RMB mn



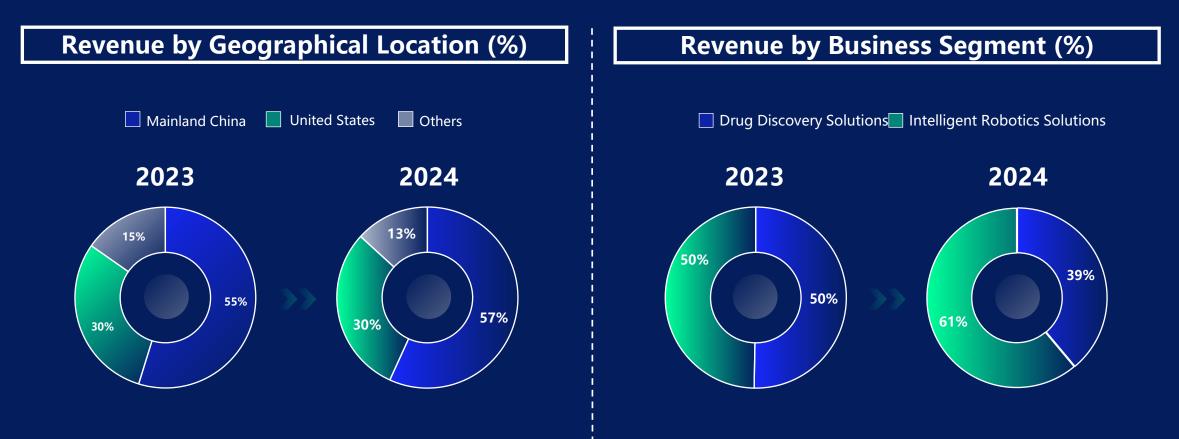


Strong Revenue Growth with Expanding Customer Base





Revenue Breakdown by Geography and Business Segment

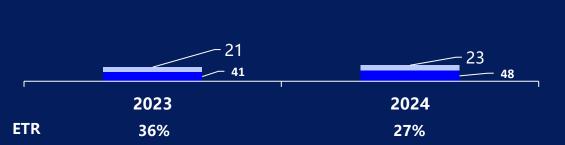


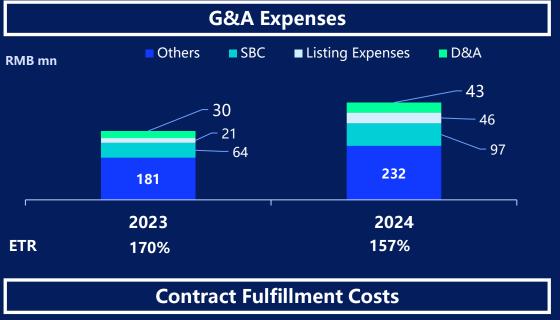
In 2024, the company's comprehensive AI and robotics solutions were commercialized in various materials science fields (including traditional Chinese medicines, petrochemical catalysts, new energy materials, agriculture, etc.), leading to an 88% year-on-year growth in revenue from Intelligent Robotics Solutions.



Operational Expenses



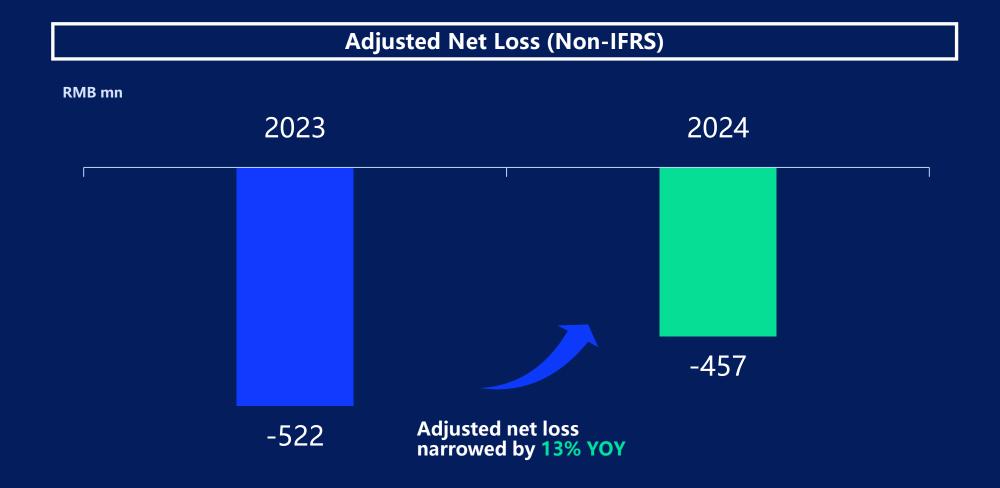








Improved Operating Results - Narrowed Adjusted Net Loss



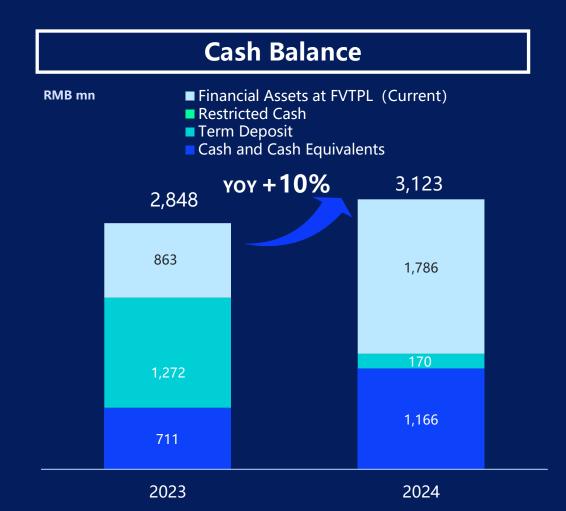


Cash Burn and Cash Balance

Monthly Average Cash Burn

RMB mn







Q&A Thanks!