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Presentation Material for FY04/2022 Q1 Financial Results

September 10, 2021 HEROZ, Inc. (4382)



1. Business Overview

- 2. FY04/2022 Q1 Performance
- 3. Growth Strategy
- 4. Reference Materials

Company Overview



Name HEROZ, Inc.

PMO Tamachi 2F, 5-31-17 Shiba, Minato-ku, Location Tokyo

Established April 2009

Representatives Takahiro Hayashi/Tomohiro Takahashi

- AI (B-to-B) services: HEROZ Kishin Business
- Description AI (B-to-C) services: "Shoqi Wars", etc.
- Membership Japan Deep Learning Association,

The Japanese Society for Artificial Intelligence

2019

Listed on the First Section of Tokyo Stock Exchange (TSE)

2018 -

Listed on Tokyo Stock Exchange (TSE) Mothers Capital and business alliance with Netmarble Games Corporation

2017 -

Capital and business alliances with Takenaka Corporation and Koei Tecmo Games

2016 _____

Capital and business alliance with Bandai Namco Entertainment

2013 -

Shoqi AI, developed by HEROZ engineers, defeated a shoqi professional

2012 -

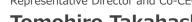
Launched mobile app, "Shogi Wars"



Representative Director and Co-CEO Takahiro Hayashi

Graduated from Waseda University Joined NEC as a technology engineer Experience at IT strategy division, business planning division

Founded HEROZ Representative Director and Co-CEO

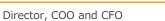


Tomohiro Takahashi

Graduated from Waseda University Joined NEC as a technology engineer Experience at Business Planning Division, BIGLOBE Founded HEROZ

Shogi Track Record

Amateur 6th dan (highest rank after becoming national amateur champion) 7th dan, Shoqi Wars Amateur Kisen Champion (7-time title defender as nationa champion) Played against Yoshiharu Habu (permanent 7 title holder)



Daisuke Asahara

Graduated from Kyoto University MBA from Wharton School ex-Goldman Sachs

Director and CTO

Keiichi Iguchi

Graduated from Tokyo Institute of Technology Joined NEC Central Research Labs







Creating the future through artificial intelligence (AI) revolutions

Global Leader in Mind Game AI













Deep Blue ('97) defeated a professional Chess player

IBM

AI developed by our engineers defeated a professional Shogi (Japanese Chess) player ('13)

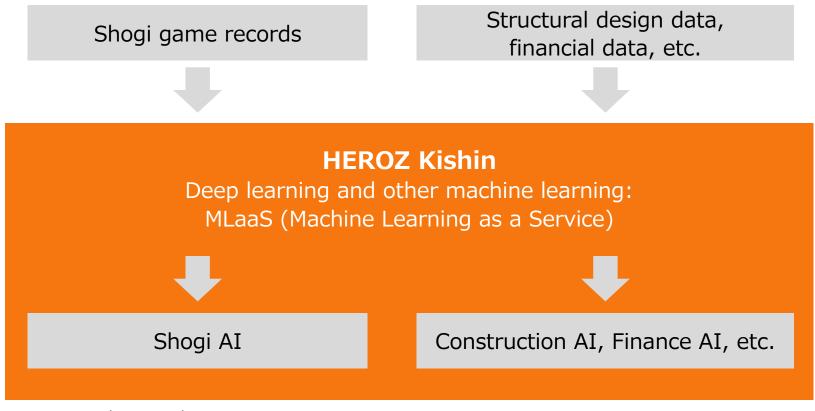
JAPAN

r Google acquired Deep Mind a ('14) AlphaGo, developed by Deep Mind, defeated a professional Go player ('16)

Google

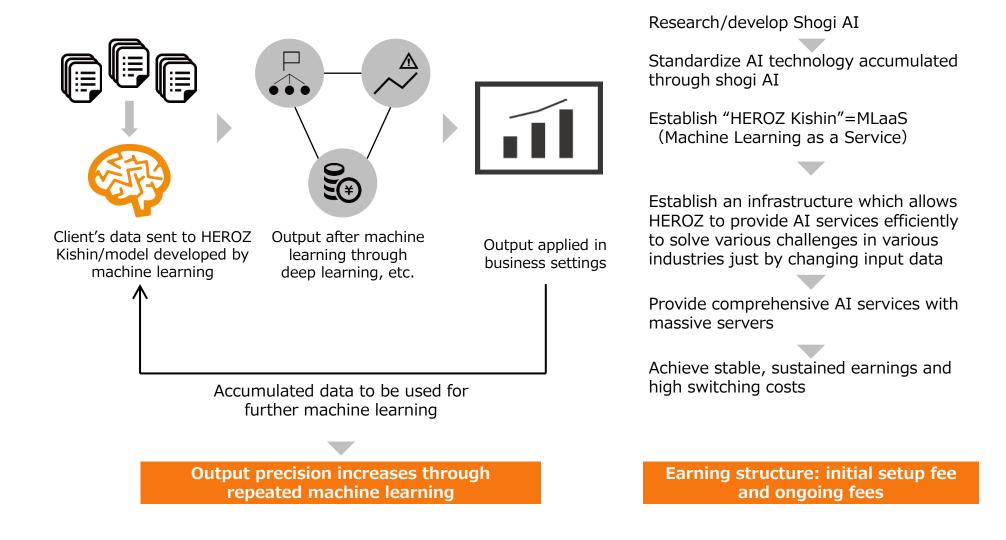
HEROZ

B-to-B Services: Machine Learning by Replacing Shogi Game Records with Other Data



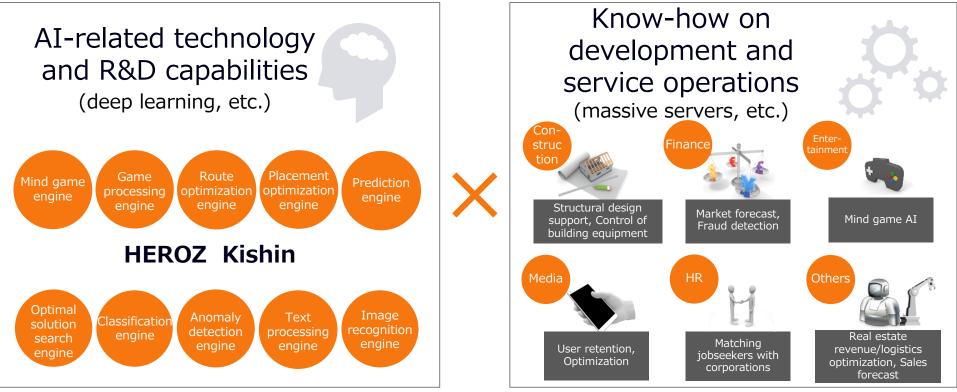
MLaaS : What is Machine Learning as a Service? Provides models, developed by machine/deep learning, as a service

B-to-B Services: Profit Model and High Switching Costs HEROZ



B-to-B Services: Engines included in HEROZ Kishin and Examples of Applications

- HEROZ
- Create AI products by combining engines and achieve an efficient operating structure



We aim to create the industry standard for AI in each sector through collaboration with companies which own high-quality private data

B-to-B Services: Areas of Focus and Examples of Services Provided

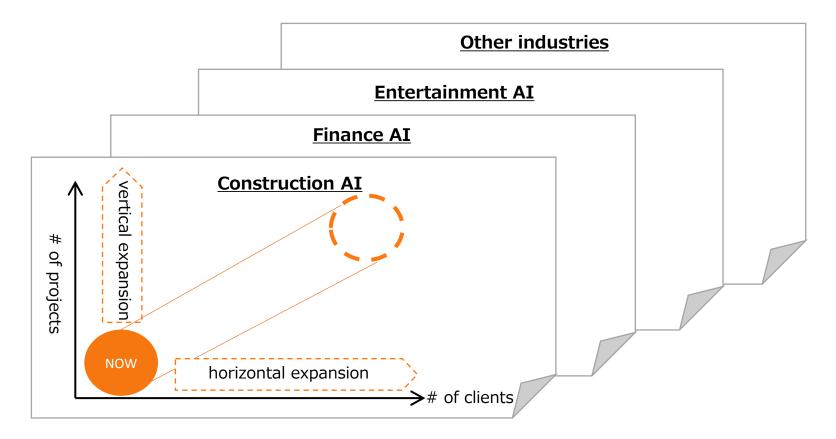
- Focusing on construction, finance, and entertainment for the foreseeable future
- Earning structure is initial setup fee and ongoing fees



Initial setup fees: new revenue recognition standard are applied since May 2021 Ongoing fees: mostly fixed fees recognized monthly

B-to-B Services: horizontal x vertical expansion across industries

- We aim to create industry-standard AI through horizontal and vertical expansion, applying into various industries
- After creating the industry-standard AI, we plan to form an ecosystem based on it



HEROZ

Charging fees for B-to-C content which user AI

- Leveraging AI-related technology to provide mind game mobile apps such as shogi
- Shogi Wars has remained cash cow backed by increase of paid users on a YoY basis
- Staying longer at home due to Covid-19 has led to increased demand for our mobile apps, with an increase in our paid active user base



Shogi Wars

Animal Shogi Wars

Earning structure: monthly membership fees, Kishin (AI) usage fees, etc.



Business Overview FY04/2022 Q1 Performance

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• We believe that EBITDA, as calculated below, is our key performance indicator

EBITDA = Operating Profit + Depreciation/Amortization Expenses

- In AI-related businesses, server investments, etc. are required to engage in advanced machine learning, leading to various depreciation/amortization expenses. We aim to continuously enhance enterprise value/equity value via EBITDA growth, without being concerned about fluctuations in one-time depreciation/amortization expenses.
- In-house compute servers are mainly depreciated based on the declining-balance method with a useful life of 5 years.

Performance Overview (May-July 2021)

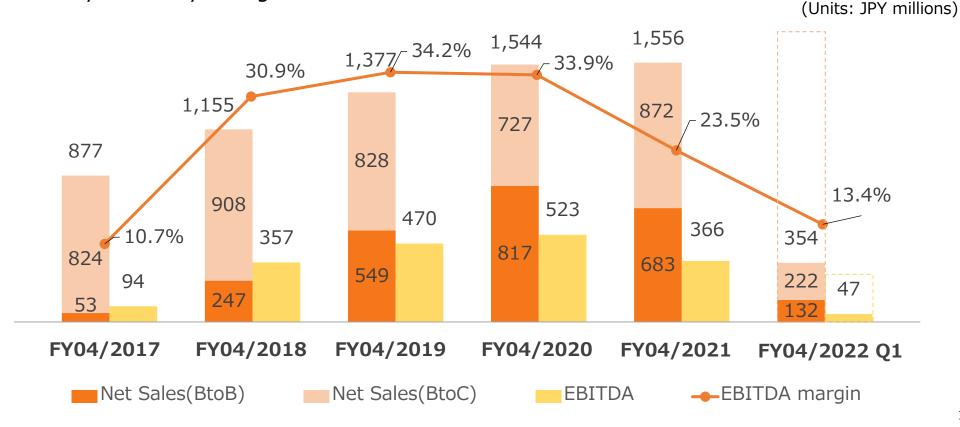
- Revenues of AI (B-to-B) decreased due to the termination of gaming services in our entertainment AI etc. Revenues of AI (B-to-C) increased by stay-at-home demand
- EBITDA and other profits made progress as forecasted while they decreased on a yearon-year basis by our investment for the medium-to-long term growth

(Units: JPY millions)	FY04/2022 Q1 Actual	(Reference) FY04/2021 Q1 Actual	(Reference) YoY**	FY04/2022 Forecast	Progress
Net Sales	354	367	∆3.3%	1,700	20.9%
EBITDA*	47	83	∆ 42.8%	280	17.0%
EBITDA Margin	13.4%	22.6%	_	16.5%	_
Operating Profit	9	69	△86.8%	100	9.2%
Operating Margin	2.6%	19.0%	_	5.9%	_
Ordinary Profit	6	67	∆90.5%	90	7.2%
Net Income	3	46	∆92.3%	63	5.7%

* EBITDA = Operating Profit + Depreciation Expenses + Amortization of Lease Deposits **As the revenue recognition accounting standard has been applied from the current fiscal year, comparisons with the previous year (under previous standard) are for reference only

Net sales and EBITDA Trends

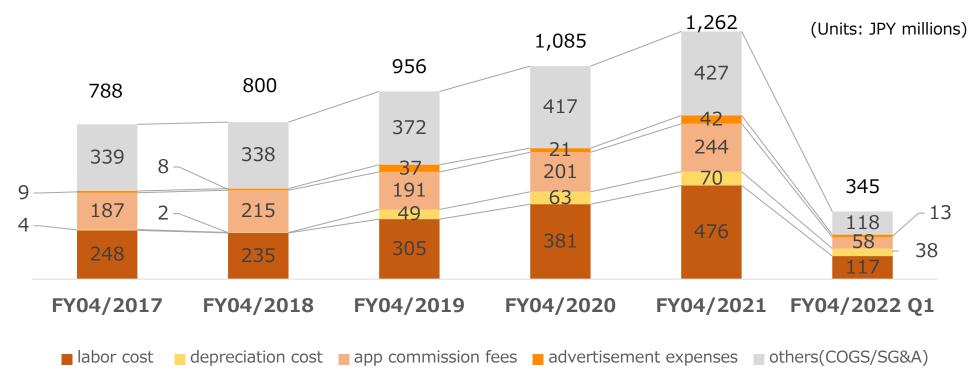
- We forecast over 20% year-on-year revenue growth for AI (B-to-B) services, the core pillar of our growth strategy, in FY04/2022 as our business risks associated with Covid-19 are being resolved
- Net sales of AI (B-to-C) services increased compared with our forecast and the previous fiscal year led by "Shogi Wars"



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COGS and SG&A Trends

- Labor cost has increased on a year-on-year basis and is expected to keep growing to increase our engineering capacity, which will lead to our medium-to-long term growth
- In addition, there were expenses to improve the workplace environment to counter COVID-19, an increase in size-based business tax, and anticipatory investments of proceeds via public offering for our growth strategy. Although profits were down compared with the previous year, they are in line with our forecast.



Balance Sheet (as of July 31, 2021)

B/S remains strong backed by cash and deposits increased via public offering in 2019
 We plan to invest them in efforts to achieve the medium-to-long term growth strategy (e.g. hiring for AI engineers, in-house computing servers and external cloud computing services, expansion of office space, investments to companies with peripheral technologies which can be applied to our operations, working capital) until 2022

Units: JPY millions	As of 7/31/2021	(Reference) As of 4/30/2021	
Current Assets	5,763	5,786	
Cash and deposits	5,555	5,554	
Fixed Assets	796	759	
Property, plant and equipment	383	424	
Intangible assets	16	17	
Investments and other assets	396	318	
Total Assets	6,560	6,546	
Current Liabilities	169	143	
Fixed Liabilities	—	_	
Net Assets	6,390	6,403	



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Medium-to-long term Growth Strategy HERO7 • EBITDA We plan to expand AI (B-to-B) services by what we have cultivated in our AI (B-to-C) services. We aim to create industry-standard AI, to form an ecosystem based on it, and to expand across industries AI B-to-B **B-to-B** ongoing fee Provide AI services (profitable, to businesses growth market Growth area \rightarrow core operation for **B-to-C** AT B-to-B the medium-to-long initial setup fee Shogi AI, term (growth other mind games AI market) ¥ ¥ stable cash cow AI B-to-C (stable CF) Time **Industry standard AI** Industry top-down Shogi Al Refining AI (B-to-B) Horizontal expansion **Ecosystem around our Al** Issue identification technology business Vertical expansion **Partnership Strategy Cross-industry expansion**

成長戦略実現に向けた取り組み

 HEROZ entered into a capital and business alliance agreement with Vario Secure (4494) on September 10, 2021

Business Alliance

HEROZ and Vario Secure aim to generate new products and services, maximizing synergies to increase the corporate value of both companies by mutually providing and collaborating on management resources

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Capital Alliance

HEROZ plans to acquire 1,224,000 shares of common stock of Vario Secure (32.31% of the total number of shares issued and outstanding as of August 31, 2021) held by iSigma Business Advancement Fund No. 2 and i-Sigma BAF Officers' and Employees' Fund 5i Partnership for 1,958,400 thousand yen

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Potential AI Demand in Our Areas of Focus

We believe there is also significant potential demand for enhancing operational efficiency through AI in the construction industry, which is one of our areas of focus

Challenges faced by the Construction Industry		 There will be a shortage of 110,000 construction technicians by 2025 (source: Human Touch Research Institute, "status quo" scenario in the Proprietary Analysis Monthly Report, December 2017)
	Chronic Shortage of Man- power	 Over 1/3 of first-class registered architects are over 60 (average: 56.2 years old) (source: Report on Construction-related Administration Aimed at Securing Safety of Architecture, Social Infrastructure Council, August 2006)
		The number of construction and mining industry workers is expected to decrease from 5.05 million in 2014 to 4.16–4.24 million in 2030, with some variability depending on future economic growth and labor market participation trends (source: JILPT, 2015 Estimated Labor Supply/Demand)
	Soaring Materials Prices	 The national construction materials price index has increased by 17% since 2010 (source: Economic Research Association)

We entered into a capital and business alliance with Takenaka Corporation in 2017 and became a member of i-Construction. We aim to create the industry standard AI for the construction industry, enhancing productivity and creating a new, attractive construction site

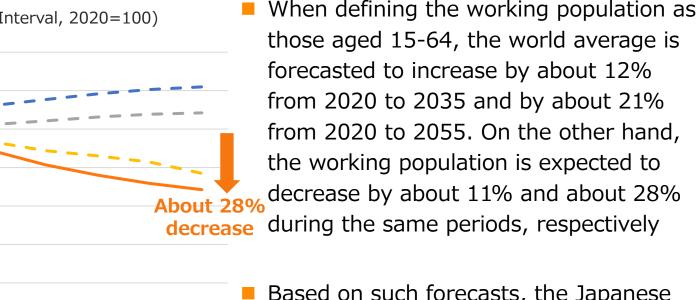


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Japan: Potential AI Demand is Among the Largest Worldwide

Potential AI demand in Japan can be expected to be among the largest worldwide, as the working population is expected to decrease significantly going forward



(Median Prediction Interval, 2020=100)

140

120

100

80

60

40

20

0

2021

Projection of Population Age 15-64

Source: Prepared by HEROZ based on United Nations, World Population Prospects, The 2019 revision

2035

🗕 Global 🛛 — 🗕 China 🚽 — Japan 🚽 — US

2040

2045

2050

2055

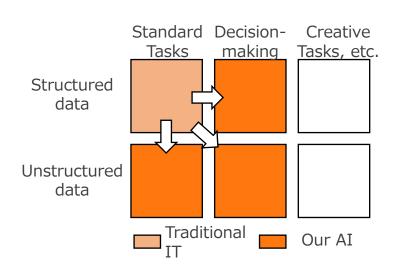
2030

2025

Based on such forecasts, the Japanese working population will show the largest decrease among leading GDP nations

Use of Our AI in DX

- Domestic DX (digital transformation) is expected to accelerate due to the future decrease in the working population as well as the impact of the COVID-19 pandemic
- AI allows for DX of a wide variety of operations including those involving decisionmaking, which were previously considered difficult to automate



- DX will begin with standard tasks based on structured data and is expect to expand to decisionmaking and tasks which utilize unstructured data
- Our AI can automate a wide variety of operations including those requiring decision-making. We have also achieved DX for unstructured data, which were traditionally considered difficult for DX
- We are promoting DX and building a track record in areas including construction, finance, and entertainment

Disclaimer



The contents set out in this material are prepared based on generally acknowledged economic, social and other conditions, and on certain assumptions deemed rational by HEROZ, Inc. and may therefore be subject to change without prior notice due to changes in the managerial environment or for other reasons.

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