

Presentation Material

for the First Half of the Fiscal Year Ending March 31, 2020

2019/11/11

Tokyo Stock Exchange First Section : Code 3676
<https://www.digitalhearts-hd.com/>

Business Results for the First Half of FY2019

(The six months ended September 30, 2019)



Performance Overview

Net sales

10,222 Mln yen
(YoY 109.5%)

Operating income

518 Mln yen
(YoY 66.7%)

- New Record high sales as the first half of the year, but operating income dropped by aggressive investments.
- Strong sales and profits of Debugging div. and System Testing div.
- Achieved Enterprise Business profitable for Q2 three months (July-September).

Business Topics

- **Acquired LogiGear Groups with Testing Automation Technology.**
⇒ Consolidation : B/S from Q2, P/L from Q4 of FY2019
- **Establishing Joint venture with LAC Co., Ltd. to expand the cyber security business.**
⇒ Starting its business in December 2019

Stock relationships

- **Share Repurchase**
Repurchase period: November 12, 2019 to February 6, 2020
Total number of shares to be repurchased: 700,000 shares (maximum)
※ Total number of shares issued (excluding treasury shares): 3.18%
Total value of shares to be repurchased: 500 million yen (maximum)

Summary of Business Results for the Six Months Ended September 30, 2019



DIGITAL HEARTS HLDGS.

**Net sales set a new record high in the first half,
but operating income declined due to investments in human capital, etc.**

(Mln Yen)	1H FY2018	1H FY2019	YoY Change	
Net sales	9,333	10,222	888	109.5%
Cost of sales	6,680	7,603	922	113.8%
Cost of sales (%)	71.6%	74.4%		+2.8 points
Gross profit	2,652	2,619	-33	98.7%
SG&A	1,875	2,100	225	112.0%
Operating income	777	518	-259	66.7%
Operating income margin	8.3%	5.1%		-3.3 points
Ordinary income	754	513	-241	68.1%
Profit attributable to owners of parent	508	277	-231	54.6%

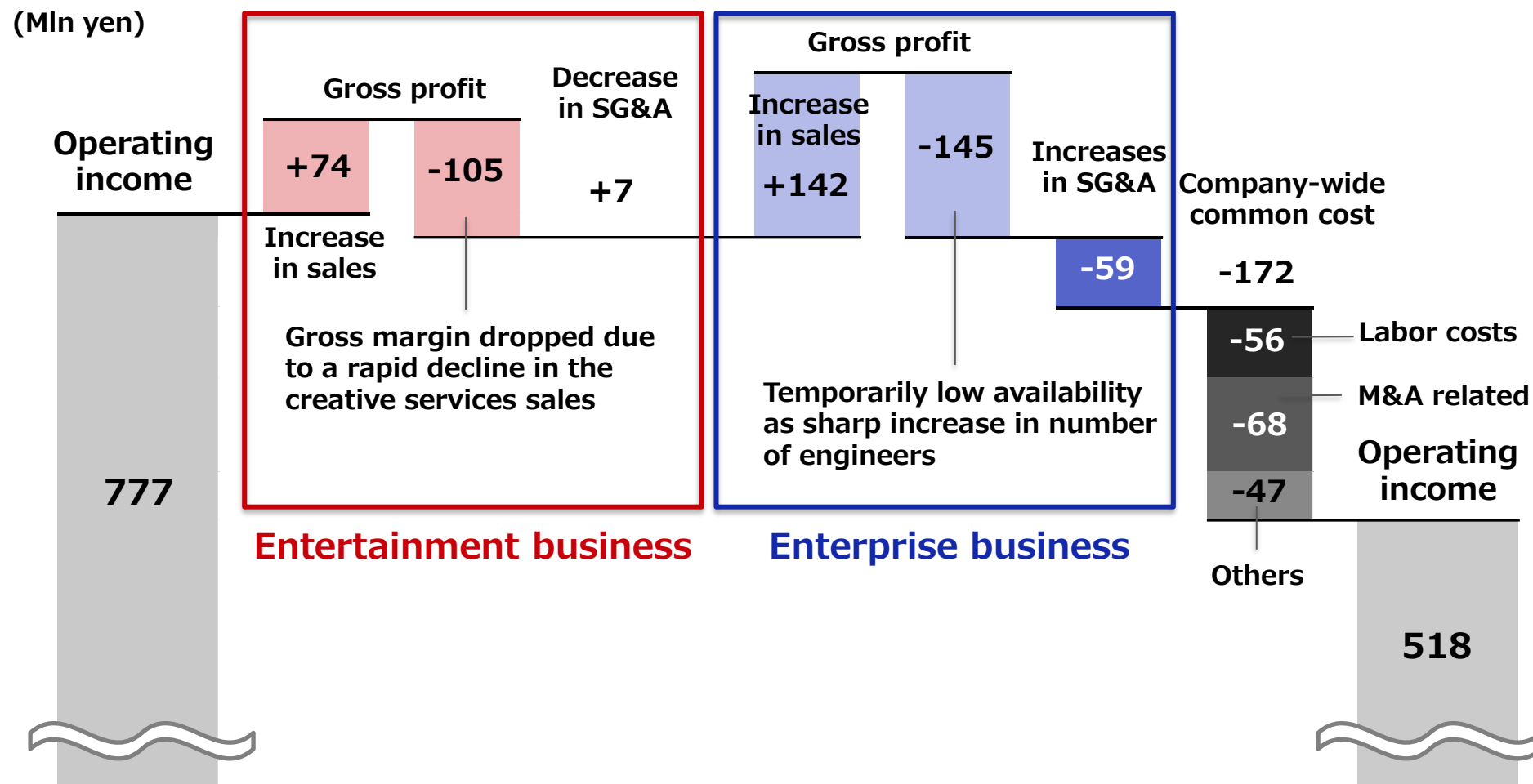
Analysis of Changes in Operating income

- Compared with the previous year -



DIGITAL HEARTS HLDGS.

Decrease in operating income mainly due to increase in the large number of engineer hiring and in M&A costs



First Half of FY2018

First Half of FY2019

Analysis of Changes in Operating income

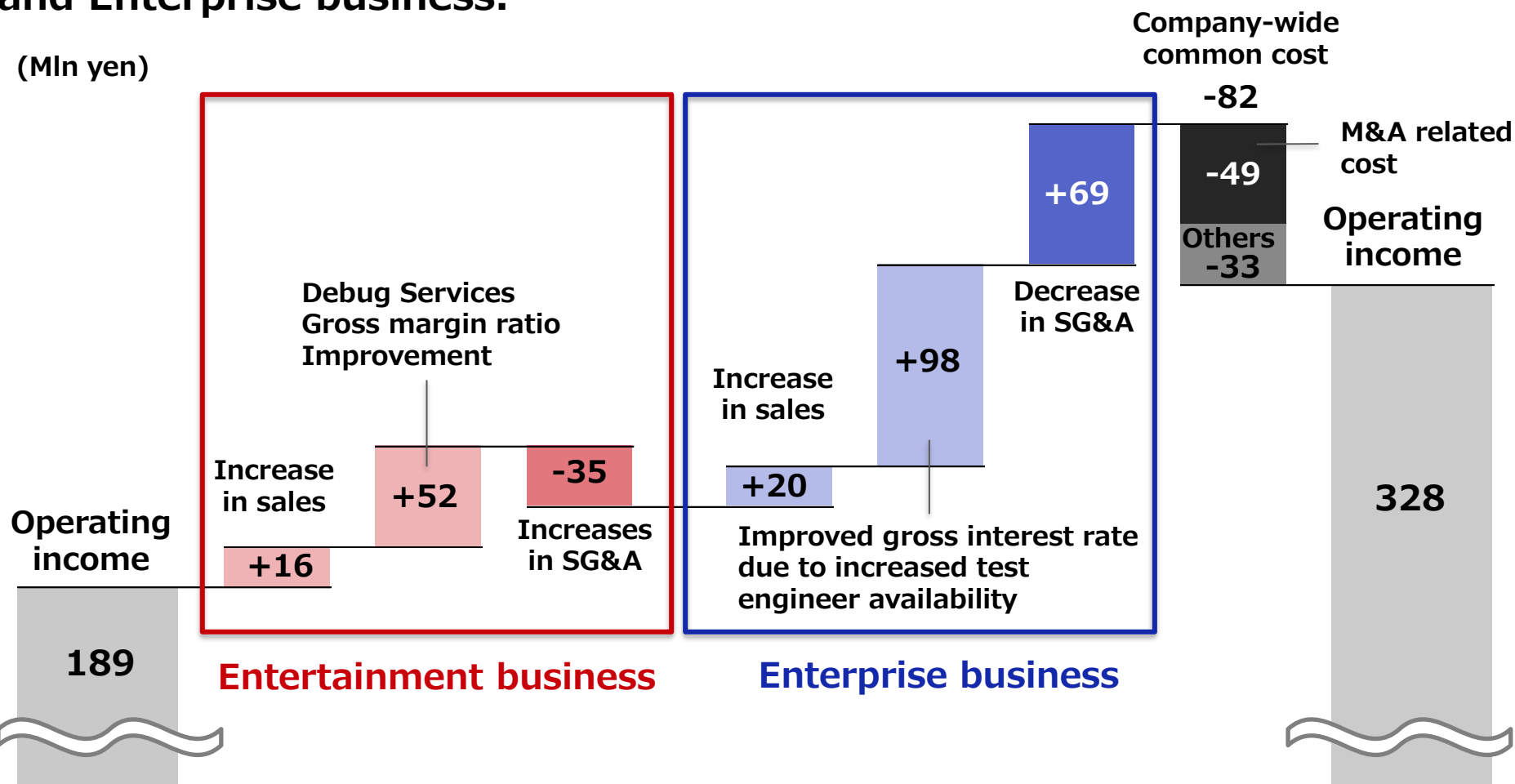
- Compared with the Q1 -



DIGITAL HEARTS HLDGS.

Enterprise business moved into black in Q2 three months.
Improve of sales and profits compared to the Q1 for both Entertainment and Enterprise business.

(Mln yen)



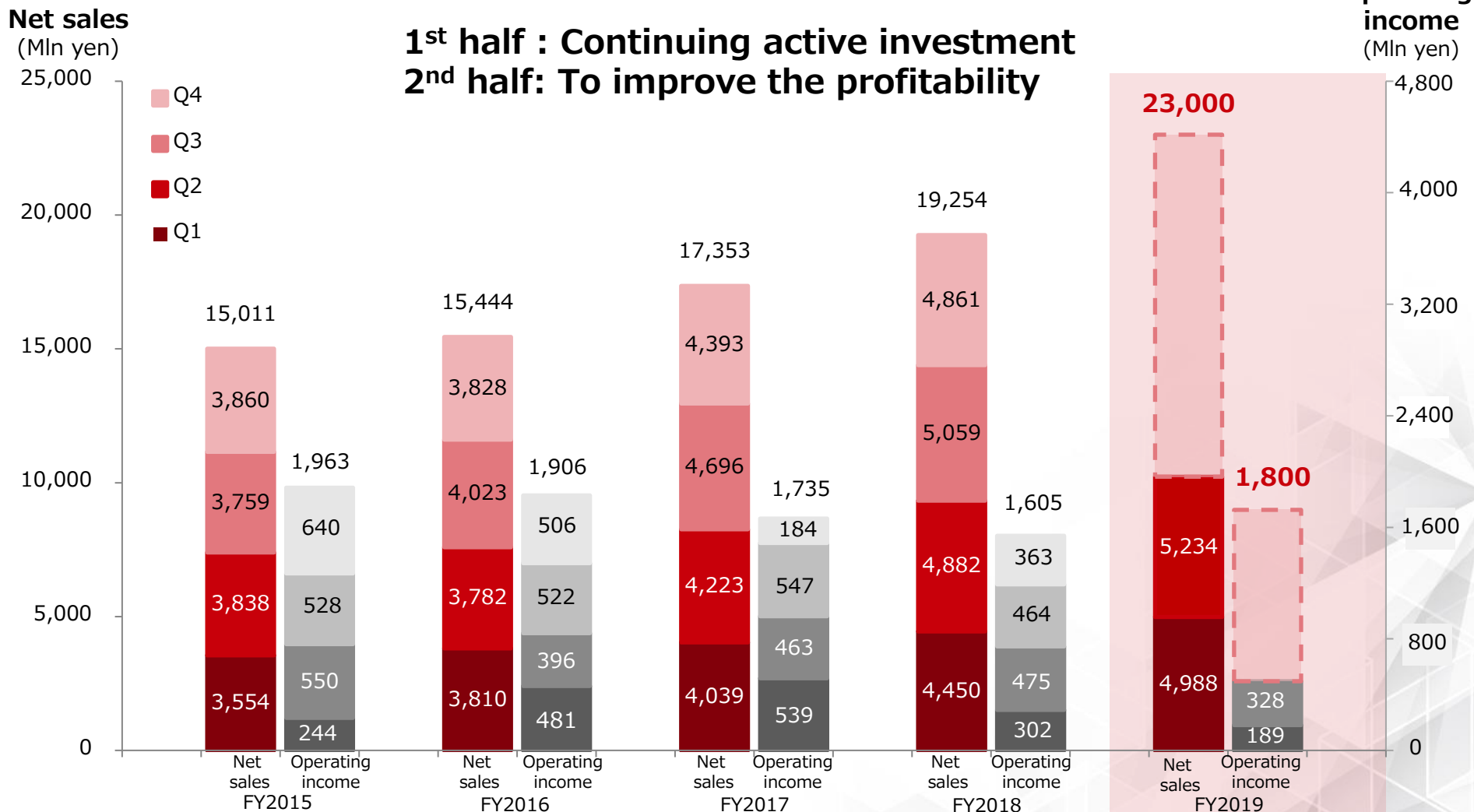
Q1 FY2019

Q2 FY2019

Trend in net sales and operating income

To achieve to increase in both net sales and operating income as a full year base

1st half : Continuing active investment
2nd half: To improve the profitability



Consolidated Balance Sheets



DIGITAL HEARTS HLDGS.

(Mln Yen)	Q4 FY2018 (As of March 31, 2019)	Q2 FY2019 (As of September 30, 2019)	YoY Change
Total assets	9,832	10,827	994
Current assets	7,403	7,574	170
Cash and deposits	4,197	3,849	-347
Notes and accounts receivable-trade	2,724	3,017	293
Noncurrent assets	2,428	3,252	824
Property, plant and equipment	558	646	88
Intangible assets	763	1,404	640
Investments and other assets	1,107	1,202	95
Total liabilities	4,819	5,304	484
Current liabilities	4,192	4,679	487
Short-term loans	1,704	2,504	799
Noncurrent liabilities	627	624	-2
Convertible bond-type bonds with subscription rights to shares	508	508	—
Total net assets	5,012	5,522	510
Shareholders' equity	4,763	5,039	275
Accumulated other comprehensive income	28	17	-10
Subscription rights to shares	13	13	—
Non-controlling interests	207	452	245
Total liabilities and net assets	9,832	10,827	994

Consolidated Statements of Cash Flows



DIGITAL HEARTS HLDGS.

(Mln Yen)	1H FY2018	1H FY2019	YoY Change
Net cash used in (provided by) operating activities	315	-5	-321
(*Cash flows before income taxes paid)	569	483	-86
Net cash used in investing activities	-449	-963	-514
Net cash provided by (used in) financing activities	-40	637	677
Effect of exchange rate change on cash and cash equivalents	2	-15	-17
Net decrease in cash and cash equivalents	-171	-347	-175
Cash and cash equivalents at the beginning of period	3,894	4,162	268
Increase in cash and cash equivalents from newly consolidated subsidiary	9	—	-9
Cash and cash equivalents at the end of period	3,732	3,814	82

Financial results of the First Half by Segment

[Notice regarding Earnings by Segment]

- Net sales by segment include inter-segment sales or transfers.
Segment income is based on operating income.
- Segments changed from Q1 FY2018. For this reason, the figures for FY2017 and earlier by segment are reclassified to reflect the change in segments, and comparisons are made.

Summary of Earnings by Segment

- Both the Entertainment Business and the Enterprise Business achieved higher sales than previous year.
- Operating income decreased due to aggressive upfront investment and M&A related expenses.

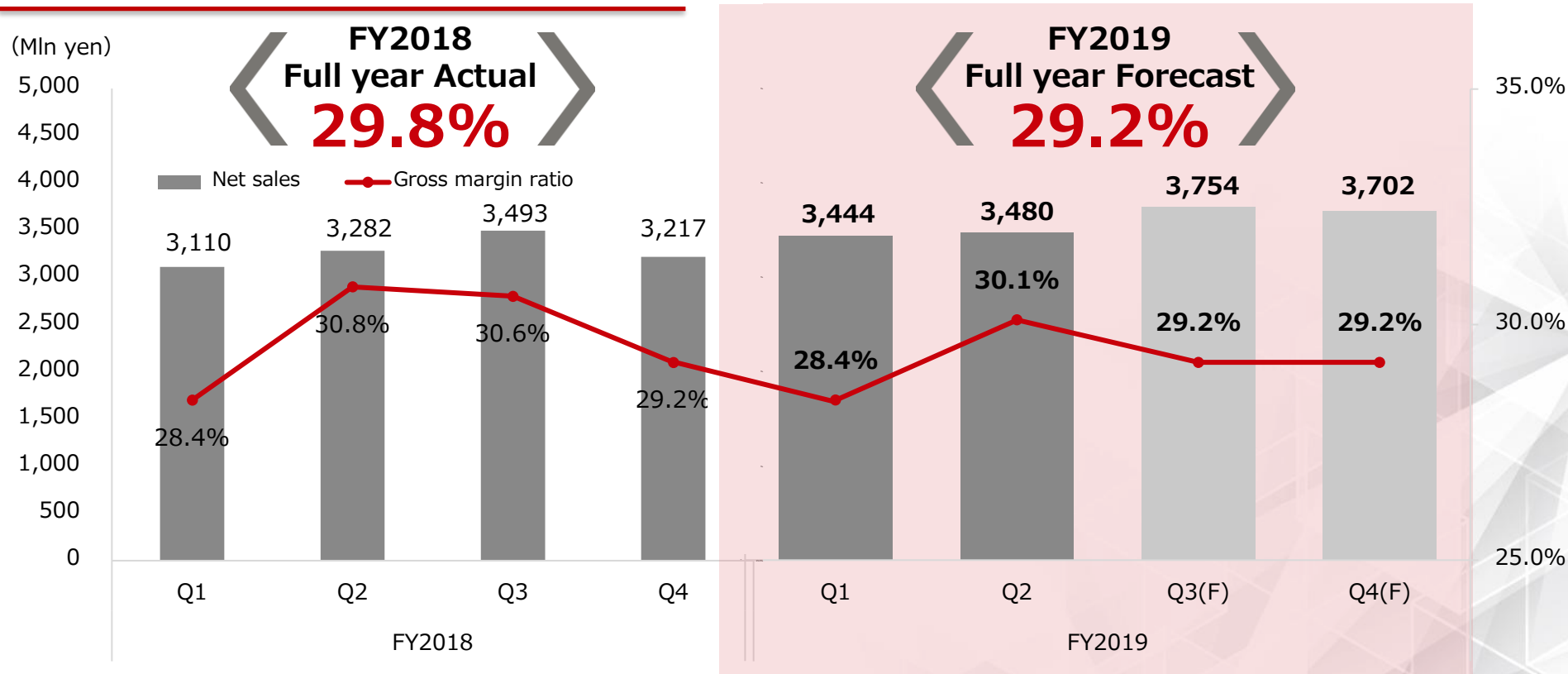
(Mln Yen)	1H FY2018	1H FY2019	YoY Change
Net sales	9,333	10,222	109.5%
Entertainment	7,874	8,127	103.2%
Enterprise	1,459	2,094	143.5%
Adjustments	-0	—	—
Operating income	777	518	66.7%
Entertainment	1,511	1,487	98.4%
Enterprise	-119	-181	—
Adjustments	-614	-787	—
Operating income margin	8.3%	5.1%	-3.3 points

- Mainstay Debugging business kept increasing sales and profits.
- Segment income declined due to the impact of the significant decline in sales of Creative div.
- Debugging sales increased in all GC/MS/AM.

(Mln Yen)	1H FY2018	1H FY2019	YoY Change
Net sales	7,874	8,127	103.2%
Debugging	6,393	6,925	108.3%
Game Console (GC)	1,981	2,242	113.2%
Mobile Solutions (MS)	4,128	4,184	101.3%
Amusement (AM)	282	498	176.3%
Creative	1,073	657	61.3%
Media and others	408	544	133.5%
Segment income	1,511	1,487	98.4%

- Sales Contribution of Orgosoft Co., Ltd. acquired in February 2019.
- Q2 gross margin recovered by improving of debugging operations.
- To keep almost same gross margin as previous year led by restructuring of test centers' operation even with raising labor cost in Japanese market.

Quarterly results of Debugging div.



■ Game Console dept. (GC)

- Received orders for several large-scale titles, achieving a significant increase in sales, and Q3 is expected to be in the busiest period

■ Mobile Solutions dept. (MS)

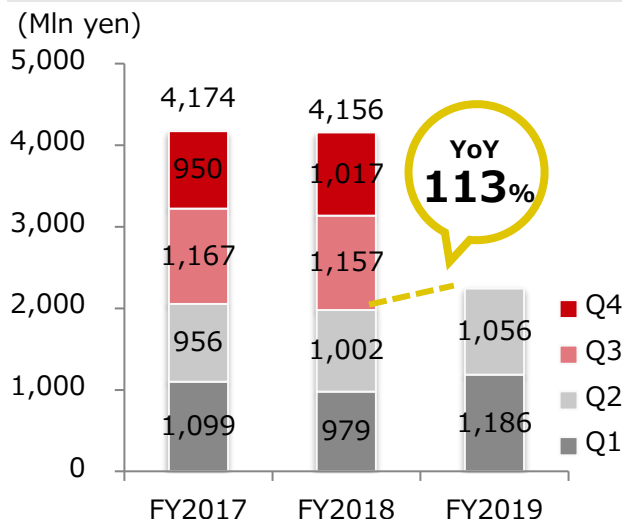
- The growth rate slowing down due to the market environment, but it is also expected to keep growing stably in the 2nd half

■ Amusement dept. (AM)

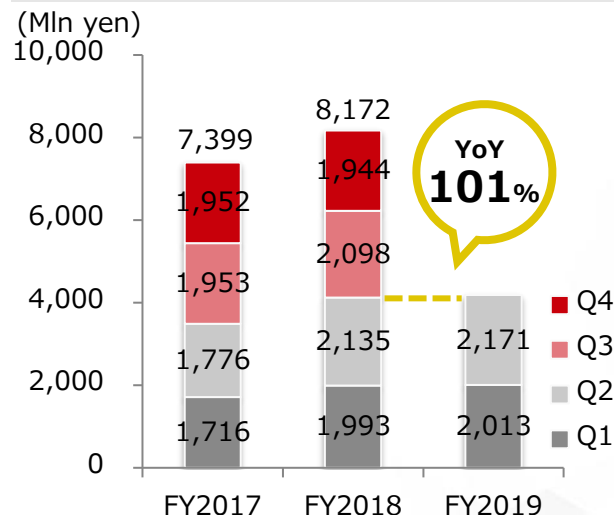
- The market demand trend has become recovered slightly from the downtrend, but the market trends should continue to be watched closely

Quarterly sales

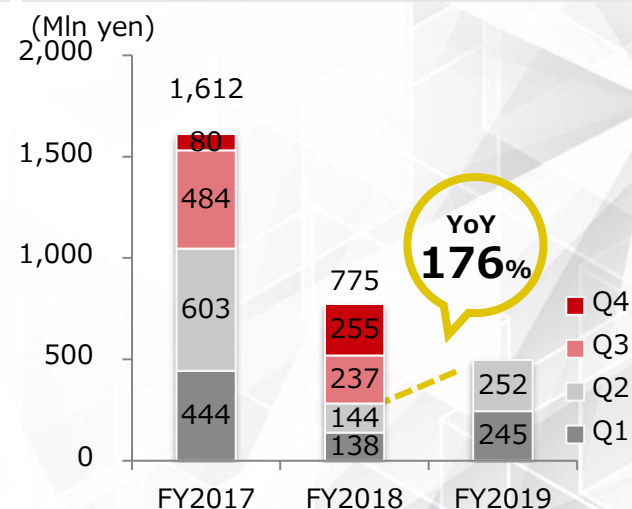
Game Console dept. (GC)



Mobile Solutions dept. (MS)



Amusement dept. (AM)





■ Creative

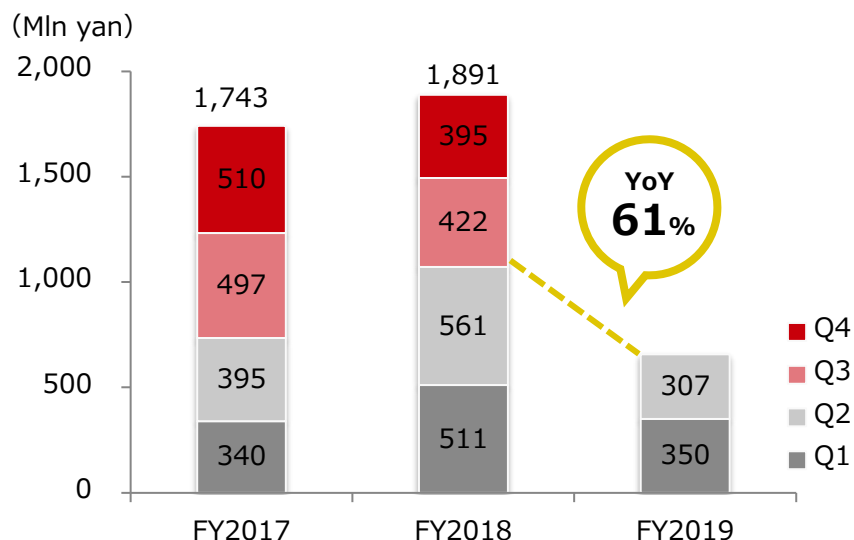
- Net sales declined sharply due to a decrease in the number of new mobile game titles developed by client companies.
- Strengthen collaboration with the debugging business and pursue further synergies.

■ Media and others

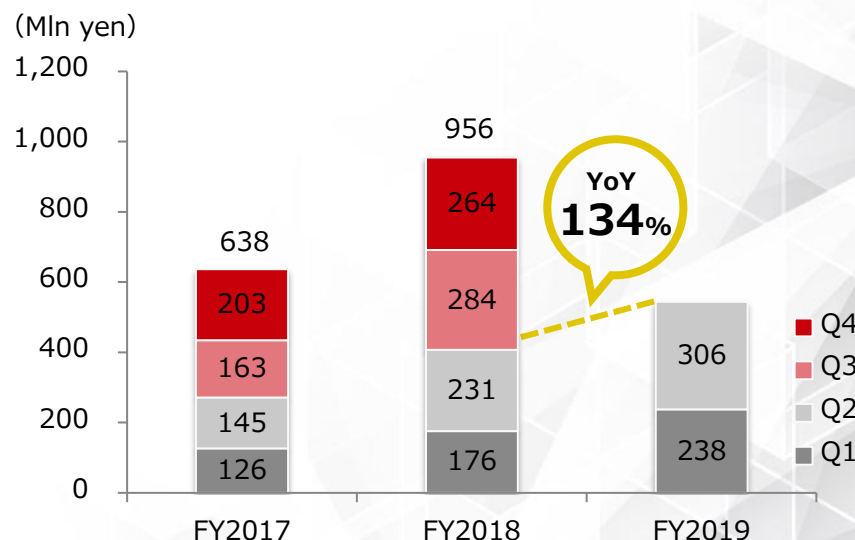
- Both “4Gamer.net” and Customer Support Services achieved higher sales.
- The outlook for the 2nd half also remains stable.

Quarterly sales

Creative



Media and others

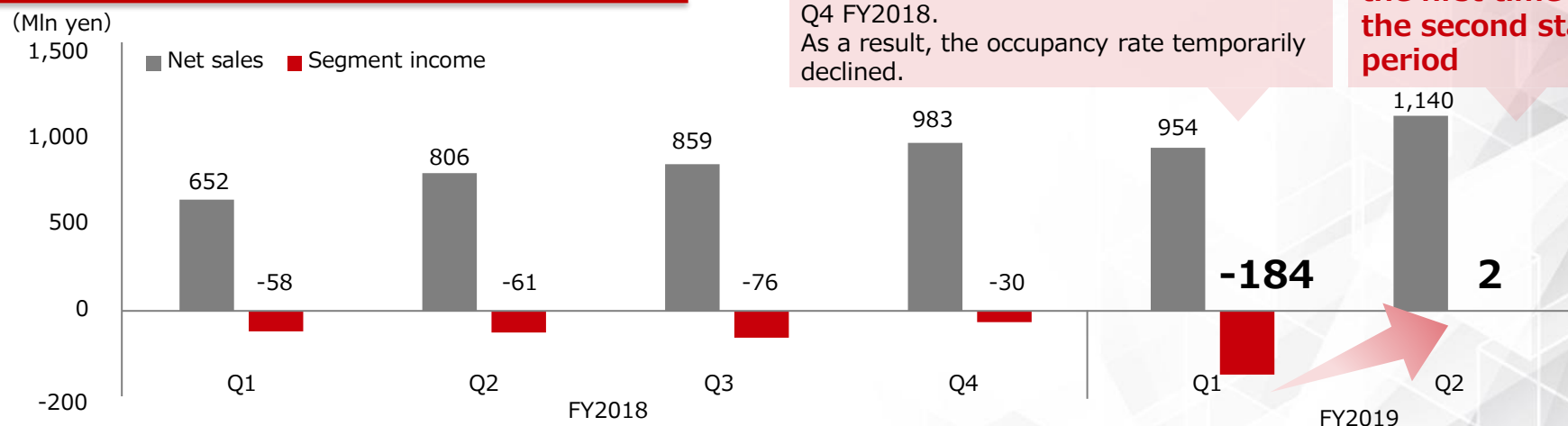


Result of Enterprise Business

- Achieved high growth of sales and made new alliances and M&A for future expansion of the business.

(Mln Yen)	1H FY2018	1H FY2019	YoY Change
Net sales	1,459	2,094	143.5%
System Testing	545	1,001	183.4%
IT service / Security	913	1,093	119.7%
Segment income	-119	-181	—

Quarterly results of Enterprise Biz

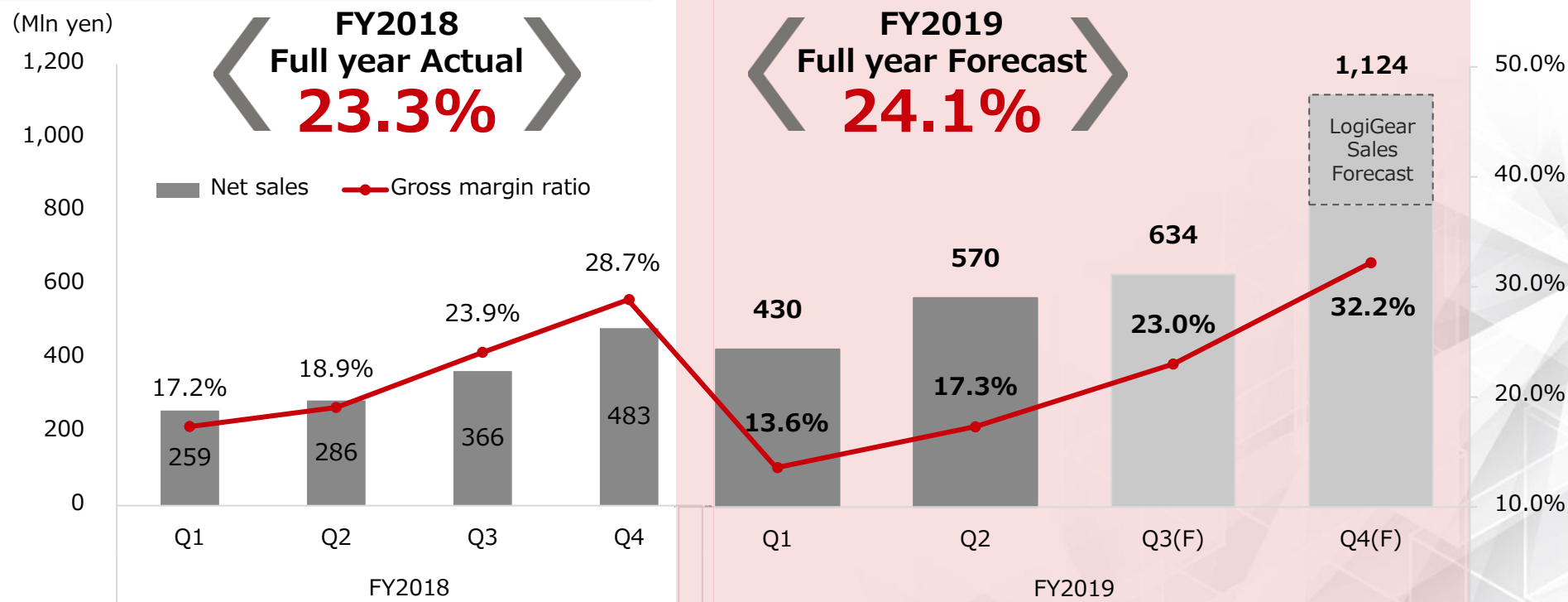


By recruiting new graduates and mid-career hires, the number of test engineers has increased by about 40 from the end of the Q4 FY2018. As a result, the occupancy rate temporarily declined.

Achieved profitability for the first time in the second startup period

- Q2 gross margin ratio improved due to an increase in capacity utilization rates in line with higher sales.
- The results of the LogiGear Group, which we acquired in Q2, are expected to be consolidated from Q4 of FY2019.
- Aiming for further improvement in sales and gross margin through contribution of LogiGear's test automation technology, etc.

Quarterly results of System Testing div.



■ System Testing

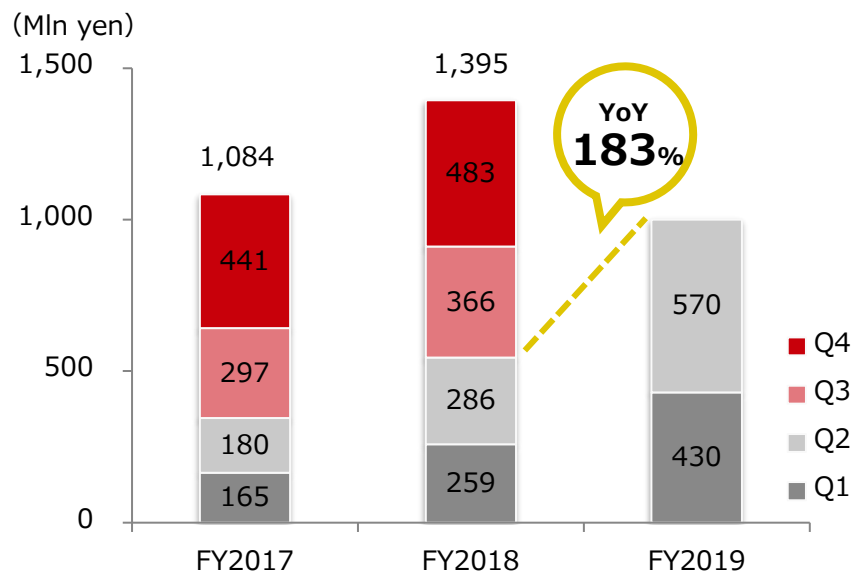
Significant increase in sales due to the steady development of new customers and the expansion of transaction volume per company.

■ IT service / Security

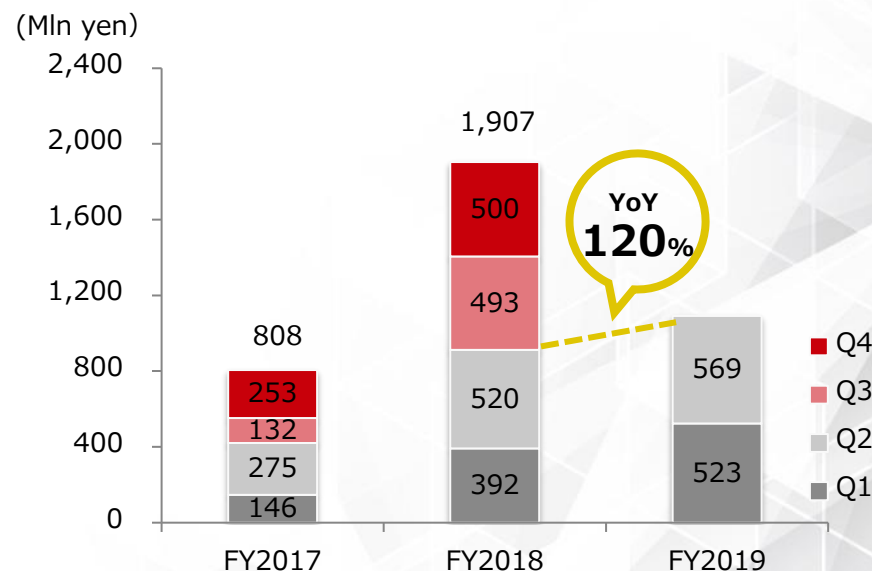
Strong performance in system consignment development and acquisition of new orders for security services for major clients.

Quarterly sales

System Testing



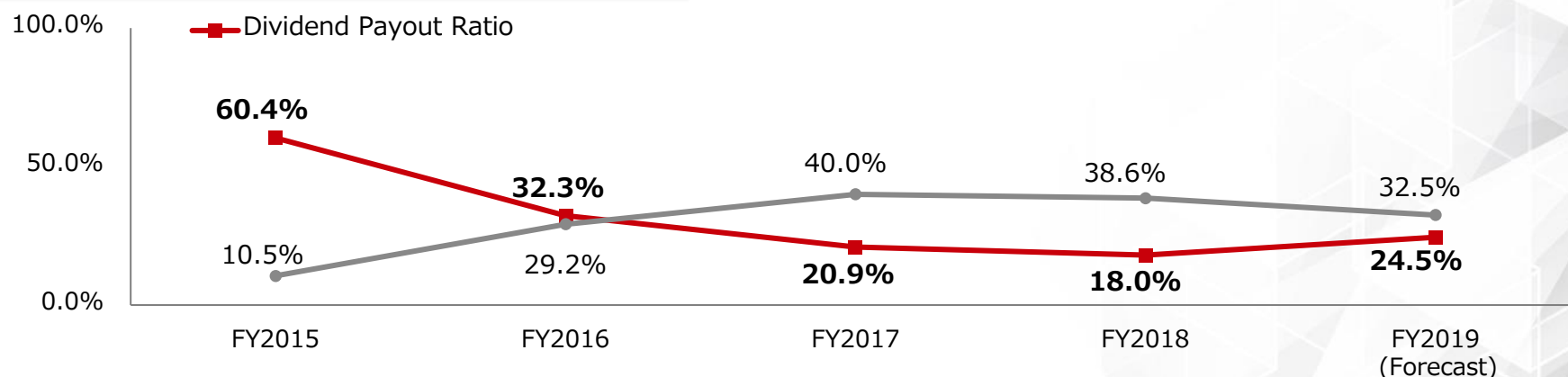
IT service / Security



The interim dividend was 7 yen, an **increase of 0.5 yen YoY**
 Year-end dividend is also expected to be 7 yen, an **increase of 0.5 yen YoY**

	FY2015	FY2016	FY2017	FY2018	FY2019 (Forecast)
Annual dividends	9.5 yen	11.5 yen	11.5 yen	13.0 yen	14.0 yen
(Interim dividends)	4.5 yen	5.5 yen	5.5 yen	6.5 yen	7.0 yen
(Year-end dividends)	5.0 yen	6.0 yen	6.0 yen	6.5 yen	7.0 yen

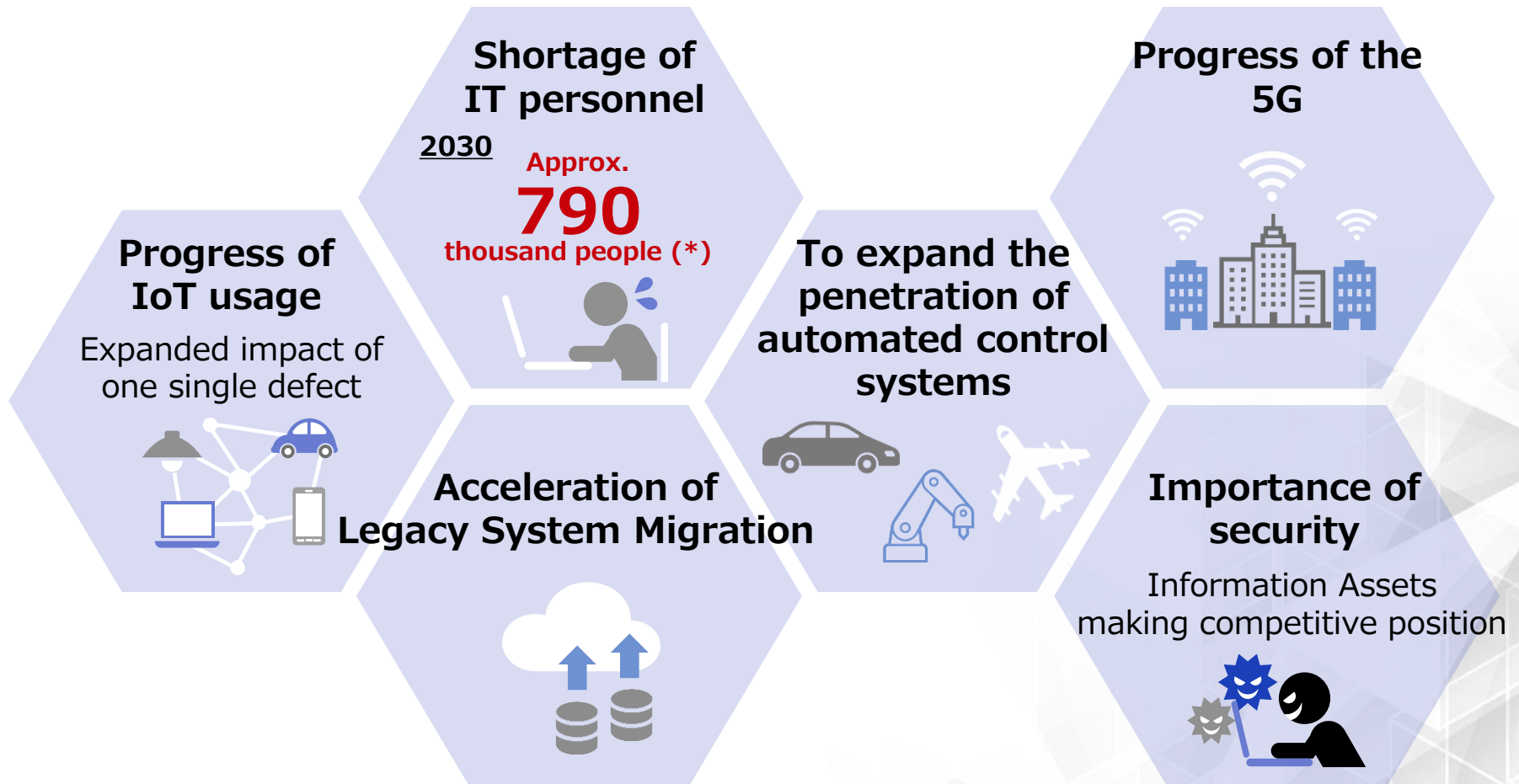
Dividend Payout Ratio/ROE Trends



*As the company conducted a 2-for-1 common stock split, effective on October 1, 2016, dividends before the interim dividends for FY2016 are accordingly adjusted retroactively to reflect the share splits impact.

Financial Forecast for the Second Half of FY2019 and growth strategy

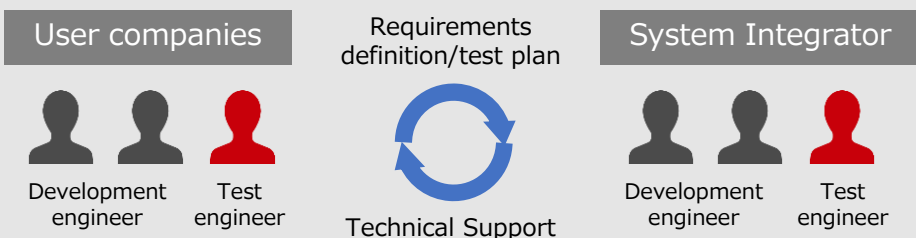
**System quality can't be ensured only by using in-house resources.
Testing from the Third Party perspective should be required.**



In an era where the service quality cannot be guaranteed without leaving the existing model of system development

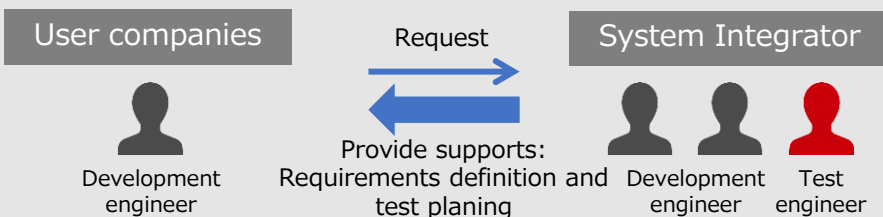
Ideal

- ✓ Users have engineers for both system development and test to take the lead in development and maintenance.



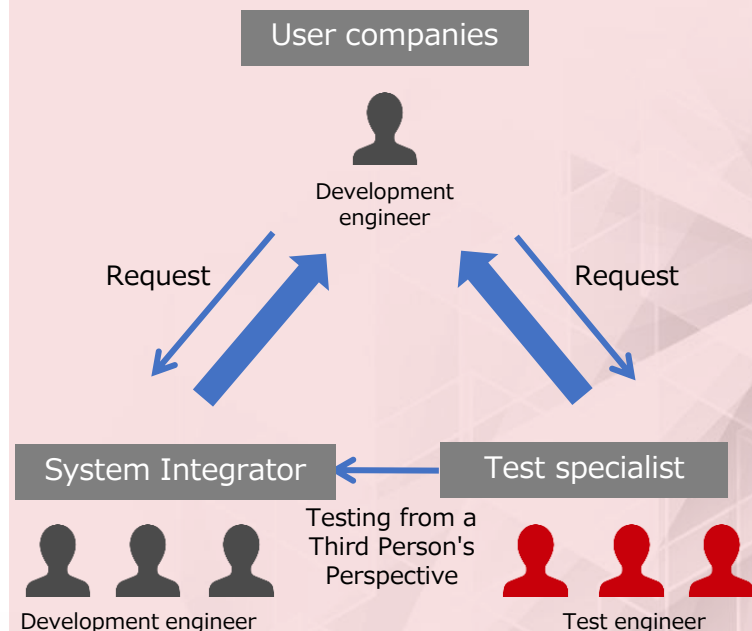
Current status

- ✓ Users facing the shortage of engineers and relying largely on the system integrators' resources.
- ✓ Testing performed by the system integrator might be only from developers' view, which may make it hard to detect fatal defects, etc.



New idea of relationship

- ✓ Improving quality through testing from the viewpoint of "third parties"
- ✓ Efficient and accurate testing with expert, knowledgeable test engineers



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comprehensive testing Solutions

Human Capital × Technology



Debugging

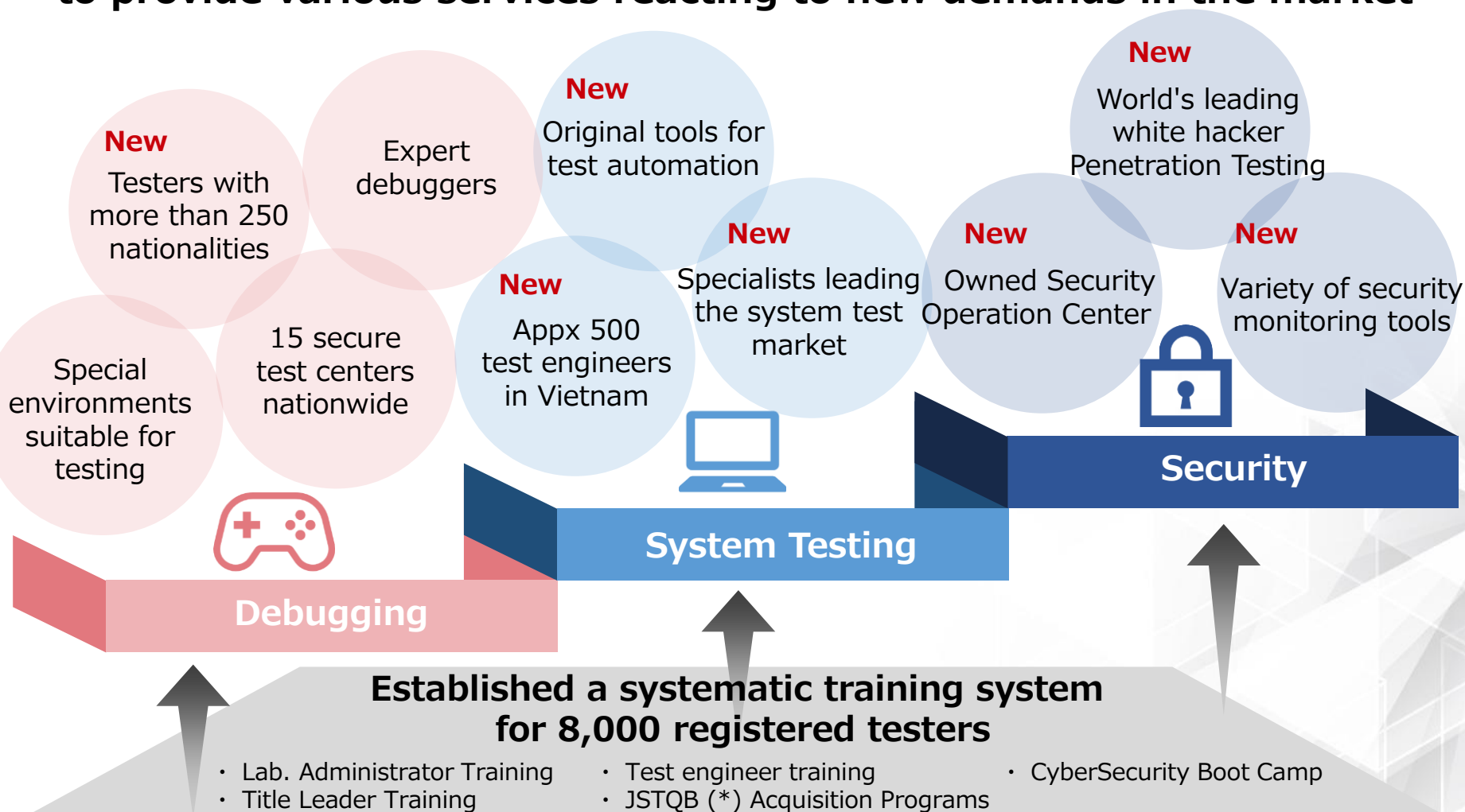


System
Testing

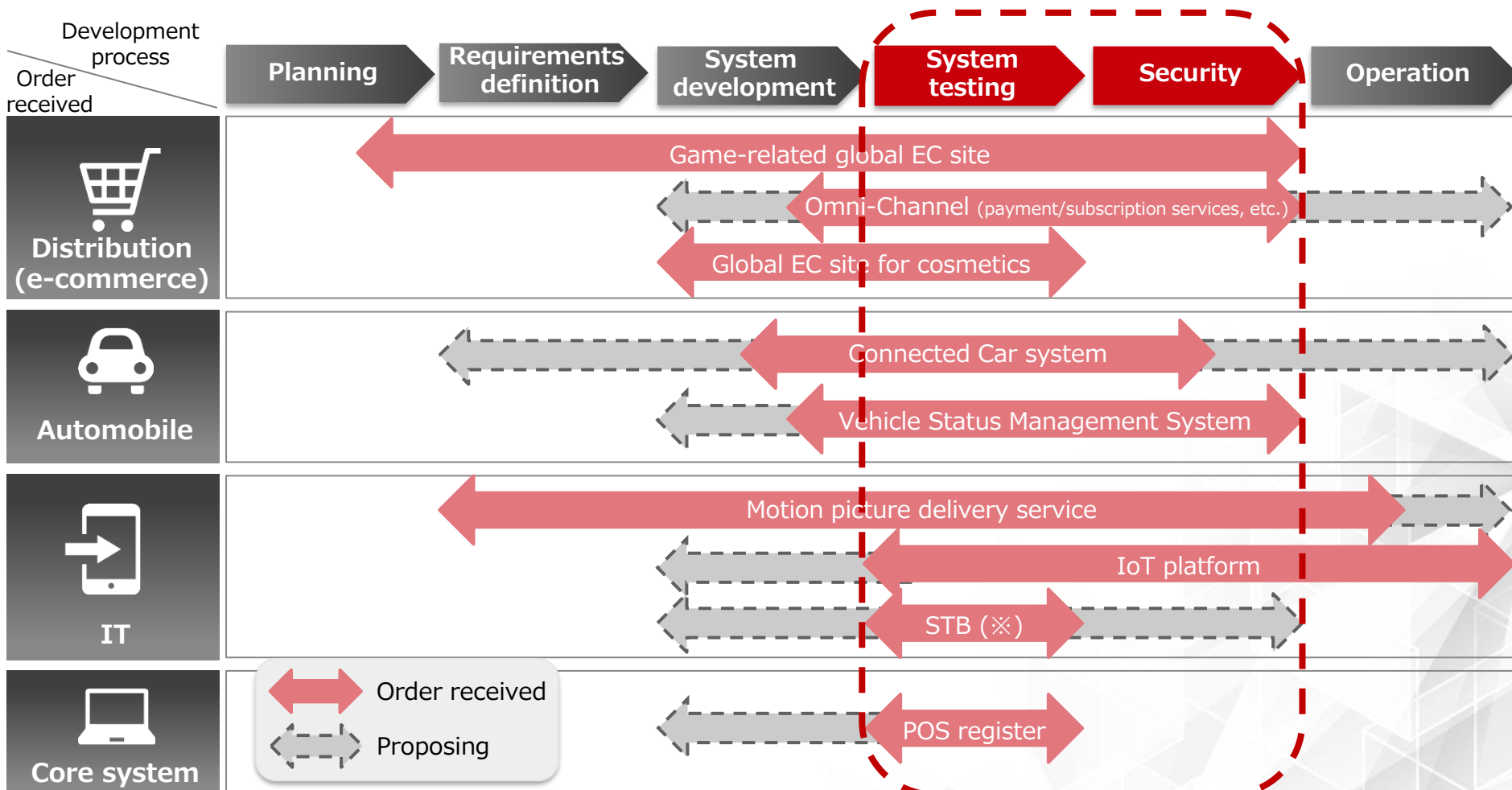


Cyber
Security

Strengthening of human capital and technologies to provide various services reacting to new demands in the market



Increased number of projects acquired in a wide range of development processes as services are diversified and improved quality



Debugging

- Structural reform of Lab
- Boosting overseas operations

Effective development of structural reform of Lab.

YoY Change

Ratio of non-Tokyo region

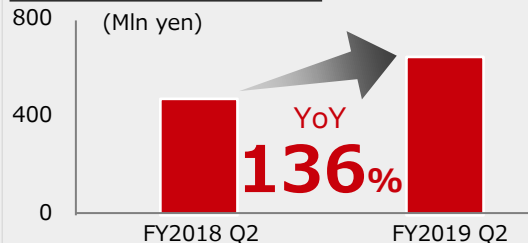
+2.6
points

Variable expense ratio of labor expenses

+5.2
points

Sales of overseas biz increasing significantly

Overseas Business Sales



System Testing

- Enhancement of human capital
- Promoting test automation
- Strengthening the Order System

Acquired LogiGear Group

Strengthening Technologies and Human Capital



500 test engineers



Autonomic tool

High Growth excluding M&A Effects

YoY Change

Sales volume

171%

Average transaction amount per company

164%

※ Express growth rate excluding M&A effects

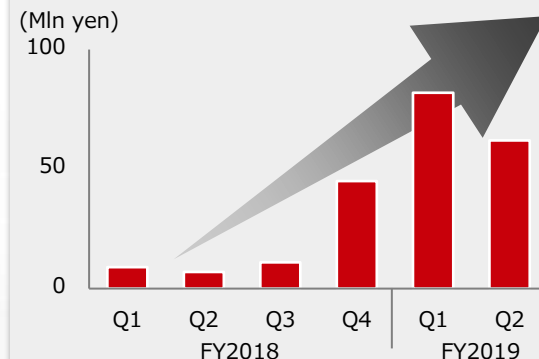
Security

- Business Strengthened

Sales are from the previous year

Rapid expansion of 8 times or more

Quarterly Sales Trends



Orders for trial of test automation projects

■ Examples of Test Automation Trial Orders

Case1 Mobility services software



Test Description

Fatal Failure Detection

Trial period

2 months

Status

Completion of the trial
Entering into this
Agreement

Case2 Game Platform



Test Description

In the tutorial
Test automation

Trial period

2 months

Status

During a trial

Case3 Office Integration Software



Test Description

Automating Regression
Tests

Trial period

1 month

Status

Completion of the trial
Negotiating for this
Agreement

Case4 Connected Car system



Test Description

Automating Regression
Tests

Trial period

Undetermined

Status

From the end of November
2019
Start Trial

■ Client's expectations for our groups

1. **Improve product quality** : Automation of areas where testing was inadequate due to human and time constraints
2. **Knowledge of automation** : Technical support for companies that cannot automate because of lack of knowledge and know-how
3. **Improving test quality** : Execute highly accurate tests without human errors, etc.

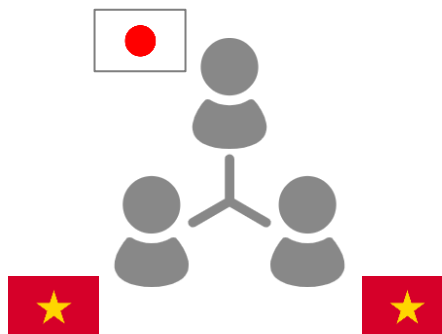
Strengthened a cross-group service structure to acquire more test automation projects

Strengthening professional sales resources to suggest test automation



- ✓ Periodic study sessions
- ✓ Developing Sales Engineers

Increase in the number of bridge engineers connecting Japan and Vietnamese sites



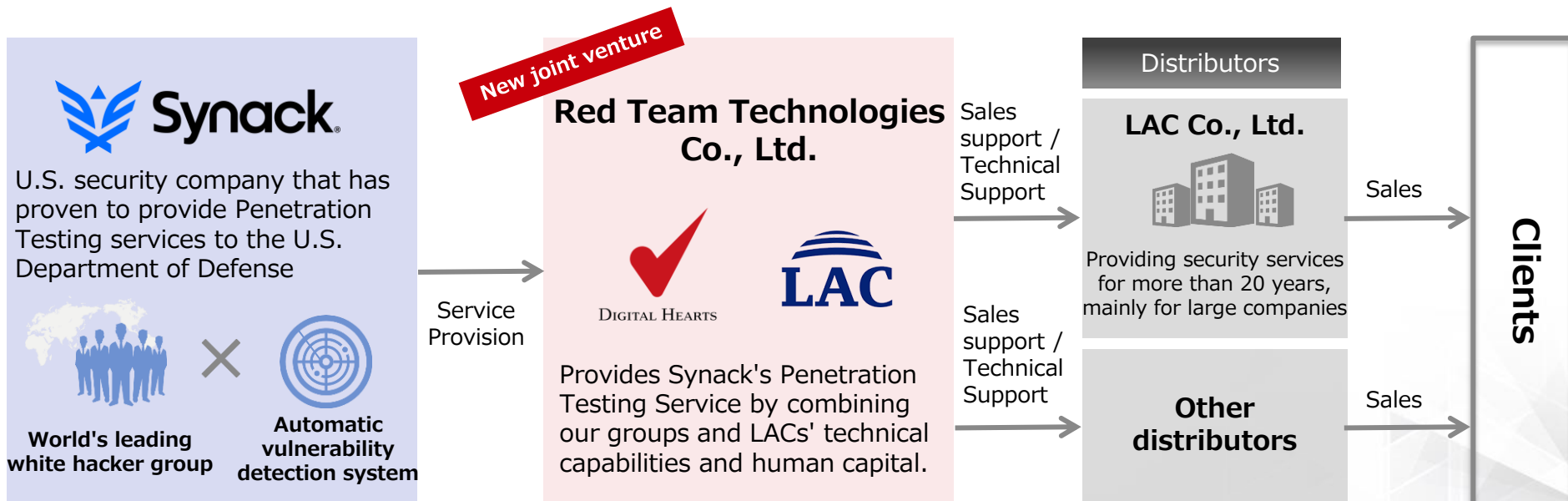
- ✓ Strengthening the adoption of Vietnamese engineers in Japan
- ✓ Interchange of human resources between Japan and Vietnamese sites

Development of automation tools for the Japanese market



- ✓ To develop tools specifically for testing Japanese Web/ apps
- ✓ Collaboration of tools to automate the entire process of multi-terminal verification

Strengthening sales capabilities by establishing a joint venture company with LAC Co., Ltd. to further expand security business



Outline of Proposed Joint Venture

Company name	Red Team Technologies Co., Ltd.	Capacity	80 million yen (including 40 million yen for capitalization)
Location	3-20-2 Nishi-Shinjuku, Shinjuku-ku, Tokyo	Incorporated	November 2019 (planned)
Representative	Takuya Okada	Investment Ratio	DIGITAL HEARTS HOLDINGS Co., Ltd.: 60.0%
Business Activities	White hacker service and technical support		LAC Co., Ltd.: 40.0%

**From the second half to the investment recovery phase.
Aiming for higher sales and profits year-on-year, while keeping the
initial plan unchanged**

(Mln Yen)	Full year FY2018 (Actual)	Full year FY2019 (Forecast)	YoY Change
Net sales	19,254	23,000	119.5%
Entertainment	15,951	17,130	107.4%
Enterprise	3,302	5,870	177.7%
Operating income	1,605	1,800	112.1%
Operating income margin	8.3%	7.8%	-0.5 points
Ordinary income	1,651	1,830	110.8%
Profit attributable to owners of parent	1,575	1,250	79.3%

Forecast by segment of FY2019



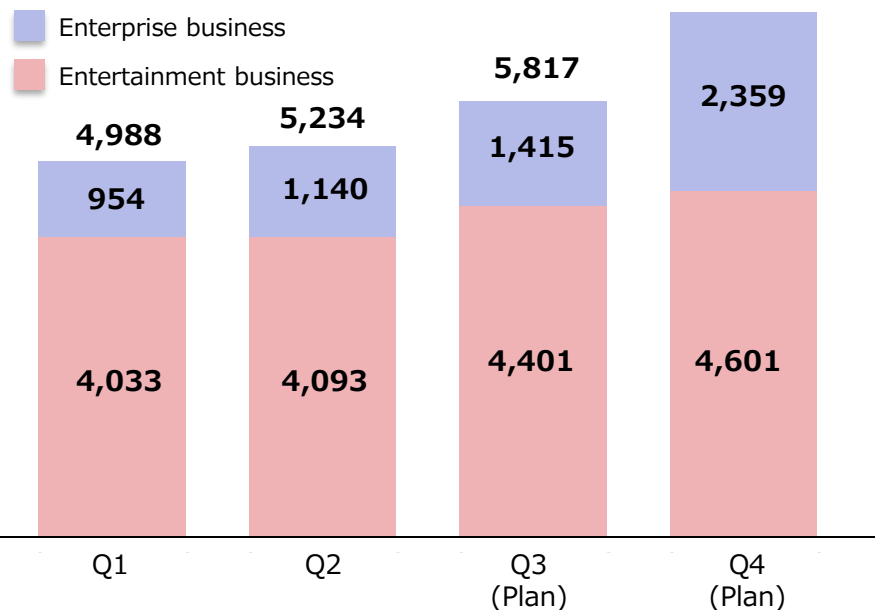
DIGITAL HEARTS HLDGS.

Net sales

**Expect 125% growth
in 2H compared with 1H**

Net sales

(MIn yen)



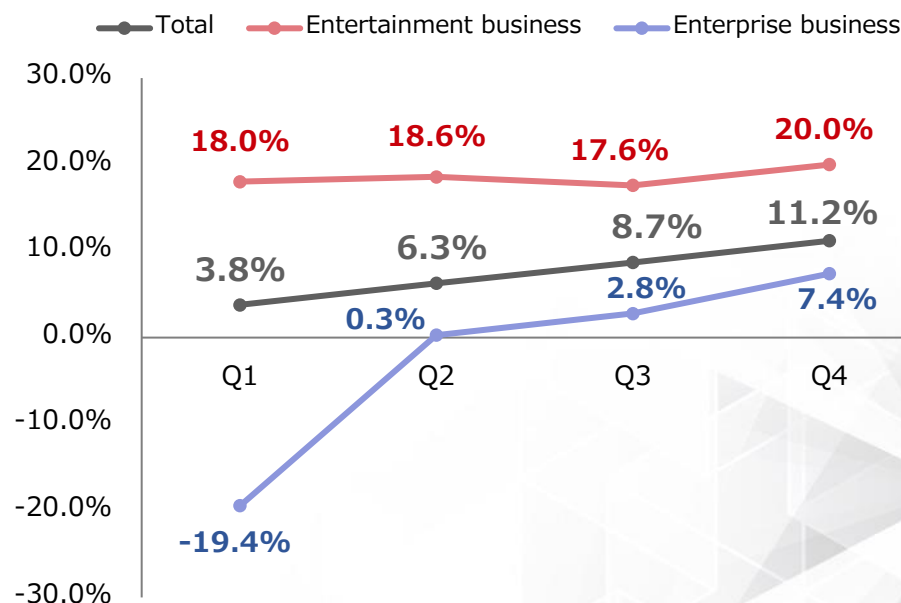
(Second Half Outlook)

- ✓ Q3 to grow significantly due to the busy periods of debugging services
- ✓ Enterprise business continues to grow
- ✓ LogiGear groups consolidated in PL from Q4

Operating income margin

**Enterprise Business
Making profit for 2nd half as well**

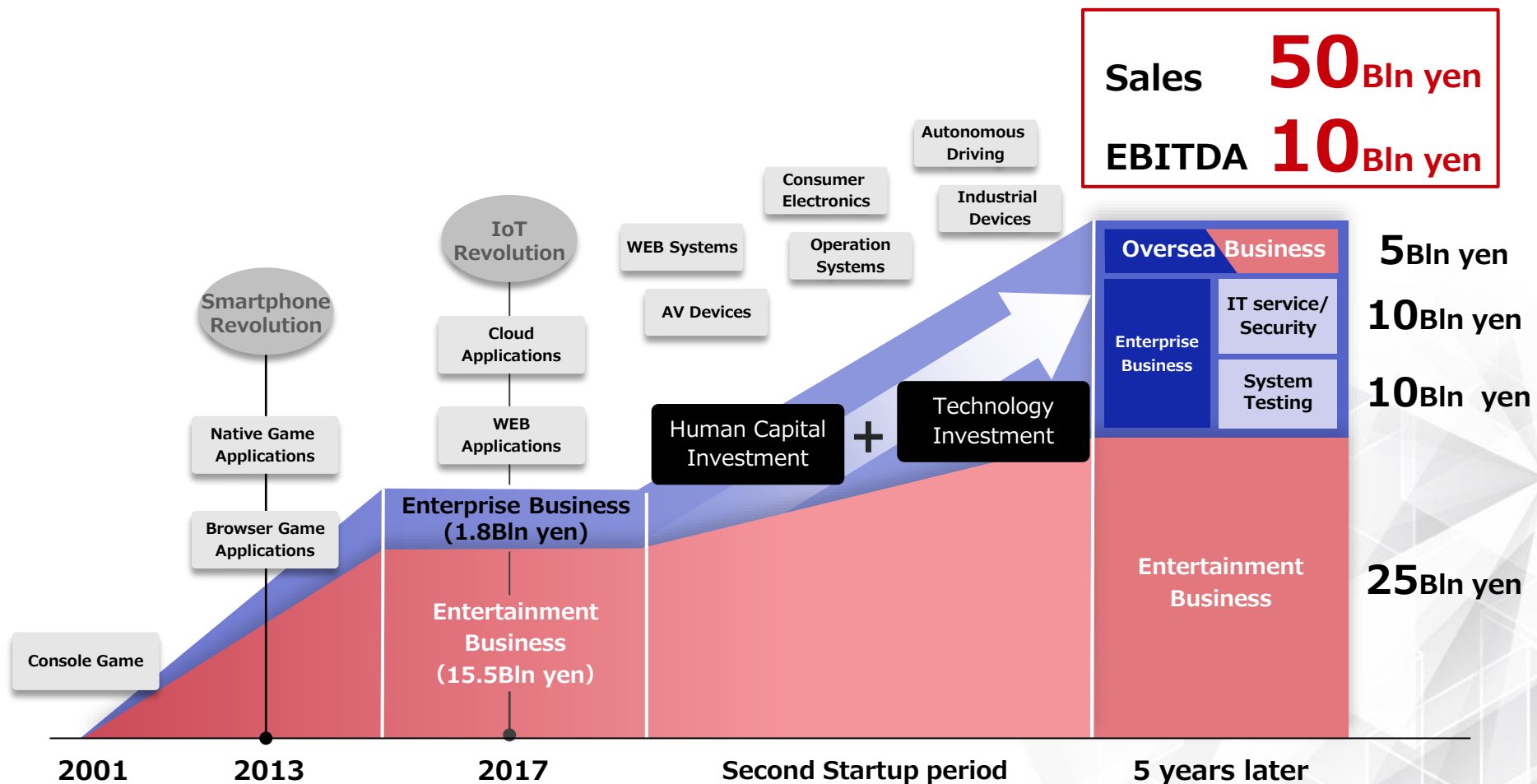
Operating income margin



(Second Half Outlook)

- ✓ To make profits in Enterprise Business in 2H as well.
- ✓ Try to recover the creative service sales in Q4.
- ✓ The company-wide common expenses are expected to be around the same as 2H of the previous year.

To be the Asia's No.1 Company for Comprehensive Testing Solutions



Appendix

Why You Should Invest in DIGITAL HEARTS



Employment creation
for more than
8,000 testers



Ratio of
external officers of
40.0%



One of the few
testing focusing companies
in Japan



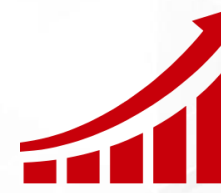
Business that supports
Digital security



Foreign staff
members of more
than
20 nationalities



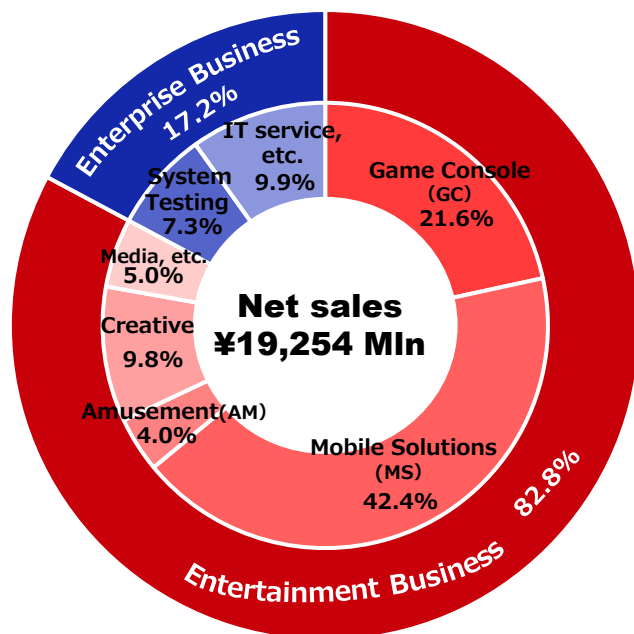
High market growth rate* with
CAGR at **27.5%**



*Data on the growth rate of the market of outsourced software testing services for 2017 to 2021, prepared by DIGITAL HEARTS in reference to a range of data.

(References) Websites related to Global Pure Play Software Testing Services Market 2017-2021 and Global Software Testing Market 2017-2021

Debugging and System testing are our core business



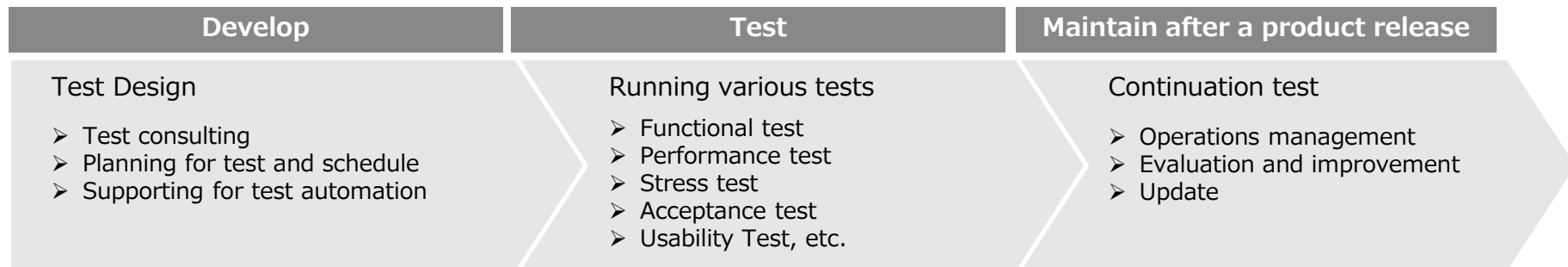
Sales breakdown by segment (FY2018)

※Sales of each segment and unit include inter-company sales and/or transfers.

Entertainment Business	Debugging 68.0%	21.6%	Game Console (GC) Debugging for console games, online games, and arcade games
		42.4%	Mobile Solutions (MS) Debugging for mobile games
		4.0%	Amusement (AM) Debugging for pachinko/slot machines
		9.8%	Game development and CG content development
	Media and others	5.0%	Managing one of Japan's largest game information site "4Gamer.net", customer support, etc.
Enterprise Business	System Testing	7.3%	Testing for enterprise system and Automobile driving test
	IT service / Security	9.9%	System development, IT support, Customer support, Security, etc.

Outline of Debugging and System Testing

Our Services



Outline of Services

Service	Description	Main client	Barriers to entry	Outsourced Projects Ratio
Debugging	Detection of bugs in games from a player's perspective.	– Game makers	High ↑ A license for purchasing dedicated equipment for debugging is required. ↑ Knowledge and expertise on human resource management to accommodate changeable development schedules are required.	High
System Testing	Detection of bugs in enterprise systems from a test-engineers' knowledge.	– SIers – Development vendors – Core system enterprises	Middle ↑ Human resource shortage in IT Industry	Low

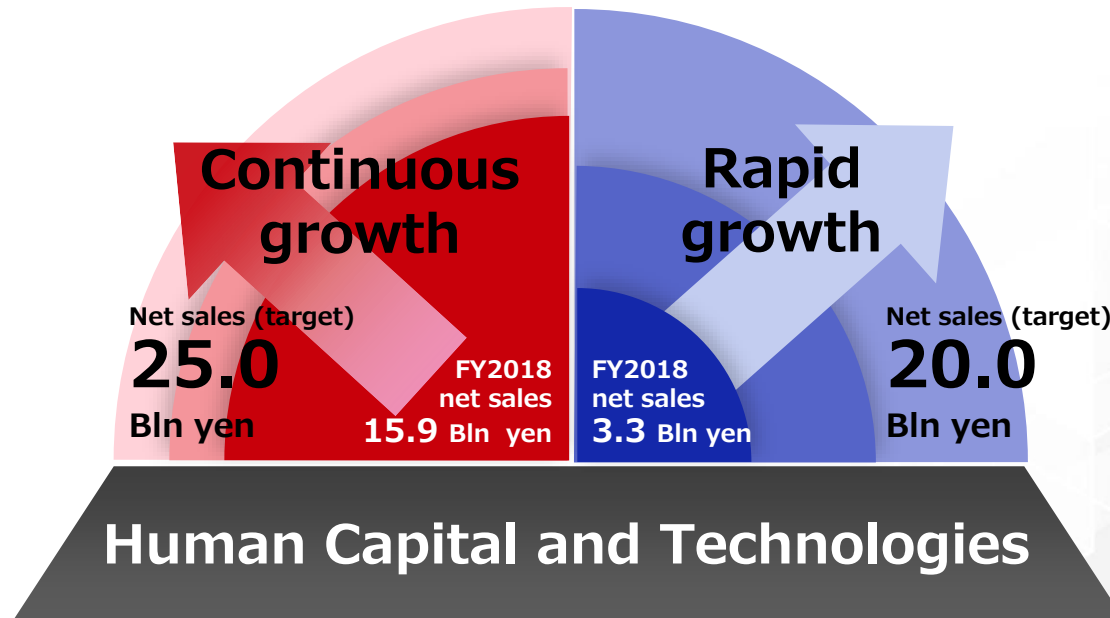
Pursue the growth of the mainstay Entertainment Business and make the Enterprise Business another primary source of revenue

Entertainment Business

- The game market is growing steadily
- ◆ Strengthen collaboration within the Group to provide comprehensive support for game development, including not only debugging but also the development of outsourced services and localization
- ◆ Continue expanding the business, targeting net sales of 25.0 billion yen

Enterprise Business

- The outsourcing of test processes is accelerated, due in part to the serious human resources shortage in the IT industry
- ◆ Accelerate investment in human capital and technologies for business expansion
- ◆ Position this field as the growth driver and aim for net sales of 20.0 billion yen



Major risks

Countermeasures

1. Leakage of confidential information

- Prohibiting staff members from bringing personal items into the test room
- Physical security measures including access control with fingerprint authentication and the installation of security cameras
- Introduction of a personal reference system that applies to all registered testers

2. Obsolescence of existing services by technological innovation

- Focusing on the application of the latest technologies, including a test automation project
- Focusing on the development of new services to improve added value

3. Reduction of productive population in Japan

- Developing internal training programs that will enable the active participation of members with diverse generational, racial, and other backgrounds
- Securing human resources strategically by using overseas offices as well

4. Expansion of corporate acquisition and new businesses

- In-depth market research and due diligence
- Reducing risks by building a system for appropriate business management after acquisition

Summary of Earnings by Segment

(Mln yen)		FY2014	FY2015	FY2016	FY2017	FY2018
Entertainment Business	Net sales	11,609	12,696	13,544	15,568	15,951
	Segment income	1,915	2,379	2,453	2,966	3,086
	Debugging					
	Game Console (GC)	Net sales	9,430	10,455	11,524	13,186
	Mobile Solutions (MS)	Net sales	13,103	10,455	11,524	13,103
	Amusement (AM)	Net sales	3,604	3,449	3,483	4,174
	Creative	Net sales	3,554	4,994	6,262	7,399
	Media and others	Net sales	2,272	2,012	1,778	1,612
Enterprise Business	Net sales	1,675	1,729	1,465	1,743	1,891
	Segment income	504	512	554	638	956
	System Testing	Net sales	1,713	2,382	1,952	1,892
	IT service / Security	Net sales	50	71	203	-14
Inter-segments adjustments	Net sales	380	681	758	1,084	1,395
	Segment income	1,333	1,701	1,193	808	1,907
	Net sales	-39	-70	-52	-108	-0
	Segment income	-447	-486	-750	-1,215	-1,254
Consolidated total	Net sales	13,285	15,011	15,444	17,353	19,254
	Operating income	1,517	1,963	1,906	1,735	1,605

Review of shareholder return policy

Actively invest in medium- and long-term growth as the second startup period. Change the shareholder return policy for this purpose in consideration of the balance between internal reserves and shareholder returns.

■ FY2018 or before:

Paid stable dividends in accordance with the consolidated business results, **with DOE of 7% as a guide**. Also provided **shareholder benefits** to shareholders who held our shares as of March 31 every year.

■ FY2019 and after:

Pay stable dividends in accordance with the consolidated business results, **with the lower limit of the dividend payout ratio at 20%**. **Abolish the shareholder benefit plan** from the viewpoint of shareholder equity.

Shareholder returns in FY2019

	Interim dividends	Year-end dividends	Annual total dividends	Shareholder benefits
				(Holders of one or more units of shares) Rice gift cards (3 kg) (Holders of two or more units of shares) Rice gift cards (6 kg)
FY2018	6.5 yen	6.5 yen	13.0 yen	
FY2019 (forecast)	7.0 yen	7.0 yen	14.0 yen	Up 1.0 yen

* We will acquire treasury shares flexibly by considering the necessity in light of our capital policy, the impact on our financial strength, and other factors, after securing funds for investment in growth.

Corporate Profile



DIGITAL HEARTS HLDGS.

Company Name

DIGITAL HEARTS HOLDINGS Co., Ltd.

Capitalization

¥300,686,000

Location

3-20-2 Nishi-Shinjuku, Shinjuku-ku,
Tokyo

Shares Issued

23,890,800 Shares

Incorporated

October 1, 2013

Fiscal year end

March 31

Representative

President and CEO, Genichi Tamatsuka

Number of Employees

1,319 (Consolidated)

Stock Exchange

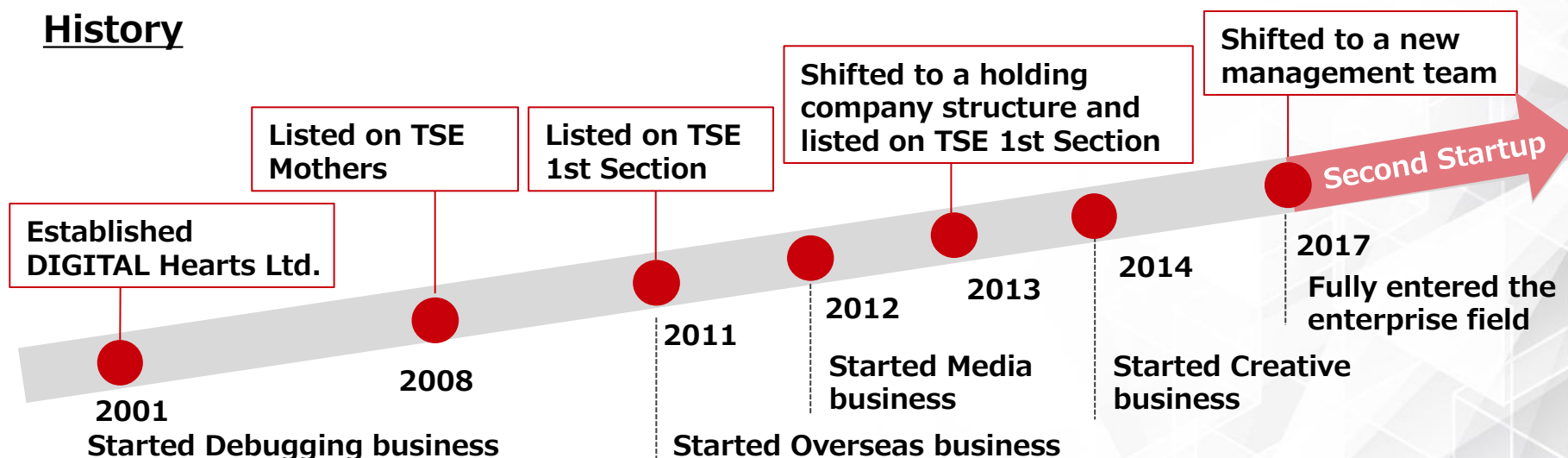
Tokyo Stock Exchange The 1st Section
(code : 3676)

Group Companies

Domestic:7
Overseas:6

(As of September 30, 2019)

History



(As of June 30, 2019)

DIGITAL HEARTS Co., Ltd.

Entertainment Business

Enterprise Business

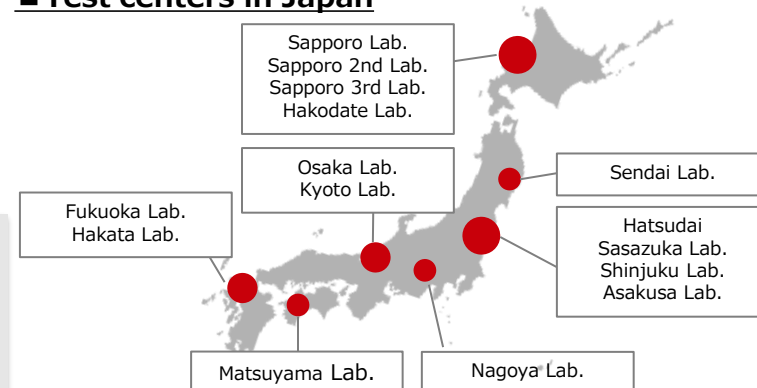


Business Activities : Game debugging, Localization, System testing, System development, Security, etc.

[Strengths]

- **Over 8,000** registered testers
- **Over 1.5 million** bug data
- **15** test centers (Lab.)
- **Over 4,000** equipment for testing

■ Test centers in Japan



DIGITAL HEARTS USA Inc.

Entertainment Business



Business Activities : Localization, etc.

DIGITAL HEARTS (Shanghai) Co., Ltd.

Entertainment Business



Business Activities : Game debugging, Localization, etc.

Orgosoft Co., Ltd.

Entertainment Business



Business Activities : Game debugging, Localization, etc.

ANET Corporation

Enterprise Business



Business Activities : System testing, System development, etc.

LOGIGEAR CORPORATION

Enterprise Business



Business Activities : System Testing, Test Automation Support, System Development, etc.

DIGITAL HEARTS GNT VIET NAM COMPANY LIMITED

Enterprise Business



Business Activities : System testing, etc.

FLAME Hearts Co., Ltd.

Entertainment Business



Business Activities : Game development and CG content development

Aetas, Inc.

Entertainment Business



Business Activities : Operation of a game information site, "4Gamer.net", etc.

ZEG Inc.

(Affiliated company)

Enterprise Business



Business Activities : Driving test and data collection for the automotive industry



DIGITAL HEARTS HLDGS.

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