

Consolidated Business Results & Forecasts

FY2022/03 Third Quarter Ended December 31, 2021

January 28, 2022

SCREEN Holdings Co., Ltd.

Financial Summary of FY2022/03 3Q Total
 Yoichi Kondo, CFO, Senior Managing Director

•Business Environment and Forecast Toshio Hiroe, CEO, President

* Cautionary statement with respect to these materials; The earnings forecasts contained in these materials and communicated verbally, are made in accordance with currently available information and rational assumptions. SCREEN Holdings does not promise that the forecasts or estimates will be accurate. Therefore, it should be noted that actual results could differ significantly due to a variety of factors.

* Figures have been rounded down to eliminate amounts less than 100 million JPY, except per share figures. A ratio has been rounded off.

* SCREEN's fiscal year (FY) encompasses the period from April 1 to March 31 of the following calendar year. (Ex. FY2022/03: April 1, 2021 - March 31, 2022)



Financial Summary of FY2022/03 3Q Total

January 28, 2022

SCREEN Holdings Co., Ltd.

CFO, Senior Managing Director

Yoichi Kondo

Financial Summary

Business results in 3Q total

- Company-wide: Steady overall. Increased in sales and profit YoY. Operating income 3.1 times YoY
- SPE: OPM increased to 18% range
- SPE: 3Q Orders was ¥101.5 bn, a record high for three consecutive quarters
- Net cash of ¥73.3 bn, cash flows remained strong and stable



FY2022/03 3Q Business Results

YoY

		FY2021/03					FY2022/03					
(Billions of JPY)	1Q	2Q	3Q	3Q Total	4Q	Full	1Q	2Q	3Q	3Q Total	Differ (Ye	rence oY)
Net sales	66.8	75.8	73.7	216.4	103.8	320.3	82.8	104.3	103.9	291.1	74.6	34.5%
Operating income (to net sales ratio)	1.8 2.8%	4.6 6.1%	6.3 8.6%		11.6 11.3%	24.4 7.6%	8.6 10.5%	15.3 14.7%	16.0 15.5%		27.3	213.8 % 7.9pt
Ordinary income	1.9	3.4	5.8	11.2	11.4	22.7	8.6	15.1	16.1	39.9	28.6	254.4%
Profit attributable to owners of parent	1.9	1.3	4.5	7.9	7.2	15.1	6.0	11.5	12.0	29.6	21.6	271.9 %



FY	′2022/03	3Q B	usines	s Res	ults 🖌	YoY							
				FY202						FY20)22/03		
	(Billions of JPY)	1Q	2Q	3Q	3Q Total	4Q	Full	1Q	2Q	3Q	3Q Total		rence oY)
	Net sales	66.8	75.8	73.7	216.4	103.8	320.3	82.8	104.3	103.9	291.1	74.6	34.5%
	SPE	52.6	54.7	54.5	162.0	73.5	235.5	59.7	81.6	84.6	226.1	64.1	39.6%
	GA	7.9	9.0	9.3	26.2	11.1	37.4	9.6	11.2	9.9	30.9	4.6	17.8%
	FT	3.6	8.9	7.1	19.8	14.9	34.7	10.2	7.2	5.5	23.1	3.3	16.7%
	PE	2.3	2.3	2.2	6.9	3.4	10.4	2.3	3.4	3.3	9.2	2.2	32.5%
	Others	0.2	0.7	0.4	1.4	0.7	2.2	0.8	0.5	0.2	1.7	0.2	19.8%
	Operating income (to net sales ratio)	1.8 2.8%	4.6 6.1%	6.3 8.6%	12.7 5.9%	11.6 11.3%	24.4 7.6%	8.6 10.5%	15.3 14.7%	16.0 15.5%	40 .1 13.8%	27.3	213.8% 7.9pt
	SPE	4.2	4.4	6.4	15.2	10.7	25.9	8.8	15.4	17.1	41.4	26.1	172.2%
	GA	(0.3)	0.1	0.1	(0)	0.5	0.5	0.2	0.4	0.4	1.1	1.1	_
	FT	(1.5)	0.4	0.1	(0.8)	1.3	0.4	0.2	(0)	(0.3)	(0.1)	0.7	_
	PE	0.1	0.1	0	0.3	0.4	0.7	0.2	0.7	0.6	1.5	1.2	414.1%
	Others	(0.6)	(0.6)	(0.5)	(1.8)	(1.4)	(3.2)	(0.8)	(1.0)	(1.7)	(3.7)	(1.9)	-
	Ordinary income	1.9	3.4	5.8	11.2	11.4	22.7	8.6	15.1	16.1	39.9	28.6	254.4%
	Profit attributable to owners of parent	1.9	1.3	4.5	7.9	7.2	15.1	6.0	11.5	12.0	29.6	21.6	271.9 %

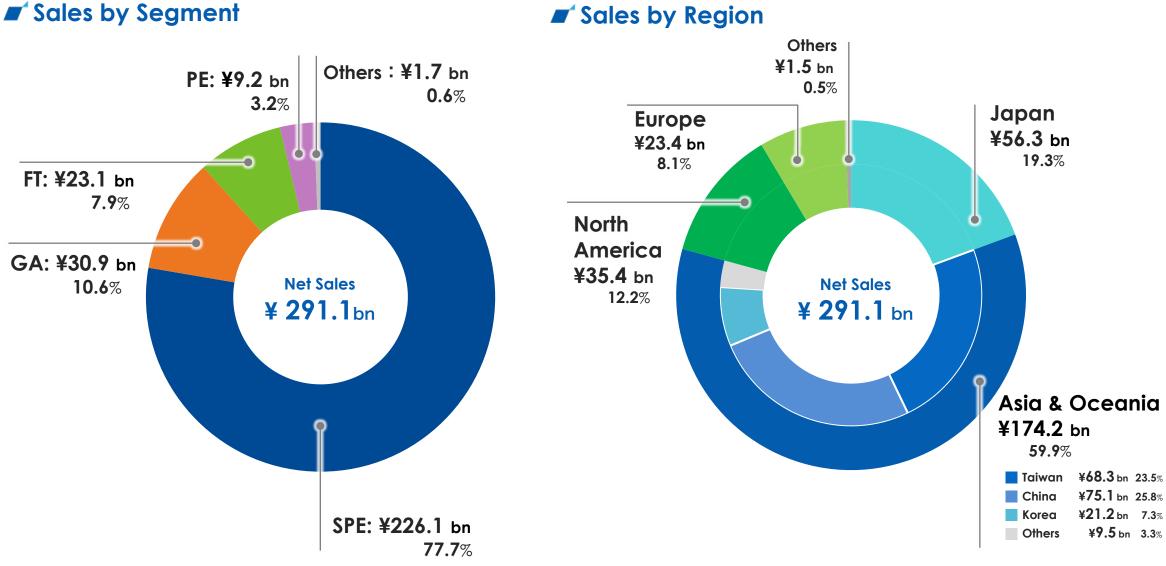
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FY2022/03 3Q Business Results By Segment

				FY2021/03			FY2022/03				
	YoY		(Billions of JPY)	1Q	2Q	3Q	3Q Total	1Q	2Q	3Q	3Q Total
SPE		l logic sales increased significantly y in Taiwan increased, followed by prope		52.6	54.7	54.5	162.0	59.7	81.6	84.6	226.1
JIL	Imaging device, pow	er device and DRAM increased	OP (to net sales ratio)	4.2 8.1%	4.4 8.2%	6.4 11.9%	15.2 9.4%	8.8 14.9%	15.4 18.9%	17.1 20.2%	41.4 18.3%
GA		ent and recurring business ery in customers' operations and ppetite	Net sales	7.9	9.0	9.3	26.2	9.6	11.2	9.9	30.9
	Recurring business incr	reased and remains steady	OP (to net sales ratio)	(0.3) -5.0%	0.1 1.9%	0.1 2.1%	(0) -0.1%	0.2 2.7%	0.4 3.6%	0.4 4.3%	1.1 3.6%
FT	sized OLEDs increased	quipment for small- and medium- t e improvement in profitability	Net sales	3.6	8.9	7.1	19.8	10.2	7.2	5.5	23.1
	Sales decreased withi Profitability expected	n the forecast range to recover to surplus in 4Q	OP (to net sales ratio)	(1.5) -41.4%	0.4 5.2%	0.1 2.5%	(0.8) -4.4%	0.2 2.2%	(0) -0.9%	(0.3) -5.5%	(0.1) -0.6%
DE	Sales of direct imaging increased significantly	g system increased, and profit /	Net sales	2.3	2.3	2.2	6.9	2.3	3.4	3.3	9.2
PE	5G-related business re Profit margin remains	,	OP (to net sales ratio)	0.1 5.2%	0.1 6.2%	0 1.4%	0.3 4.3%	0.2 9.0%	0.7 21.0%	0.6 17.8%	1.5 16.8%



FY2022/03 3Q Total Business Results



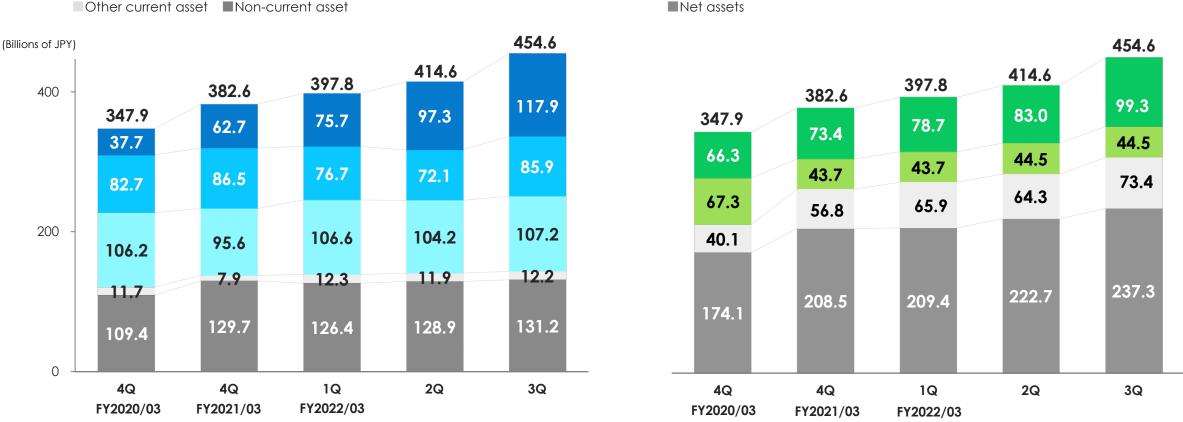
■ Sales by Region

Quarterly Orders Received and Order Backlog



Financial Situation: B/S

Assets



Liabilities & Net Assets

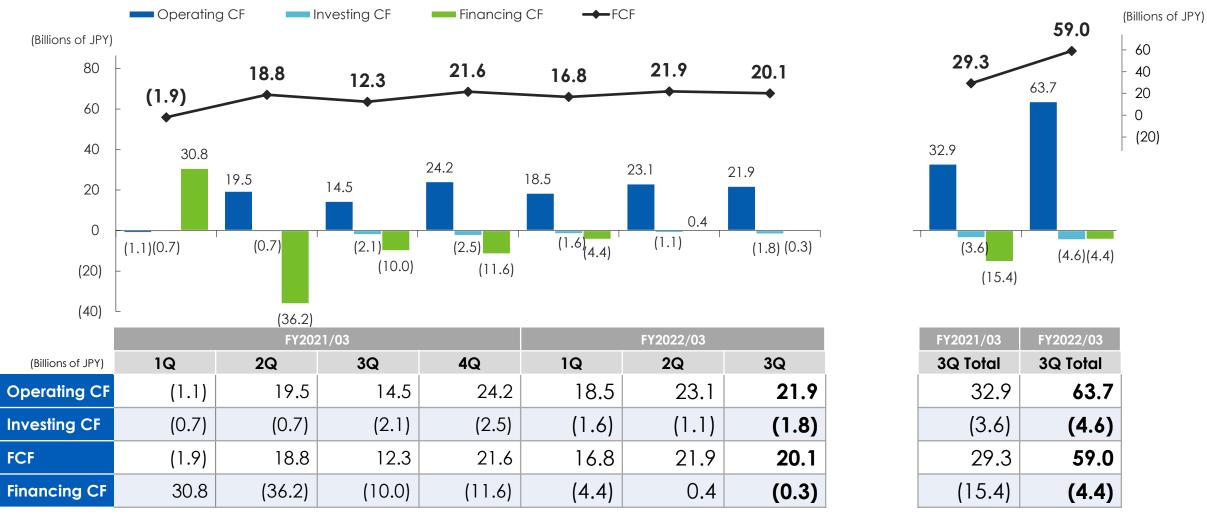
Notes & accounts payable Interest-bearing debt Other liabilities

Cash & time deposits Notes & accounts receivable Inventories

■ Equity ratio: 52.2% (FY2022/03 3Q)

■ Cash flows remains stable although sales are increasing. Net cash of ¥73.3 bn

Financial Situation: Cash Flows

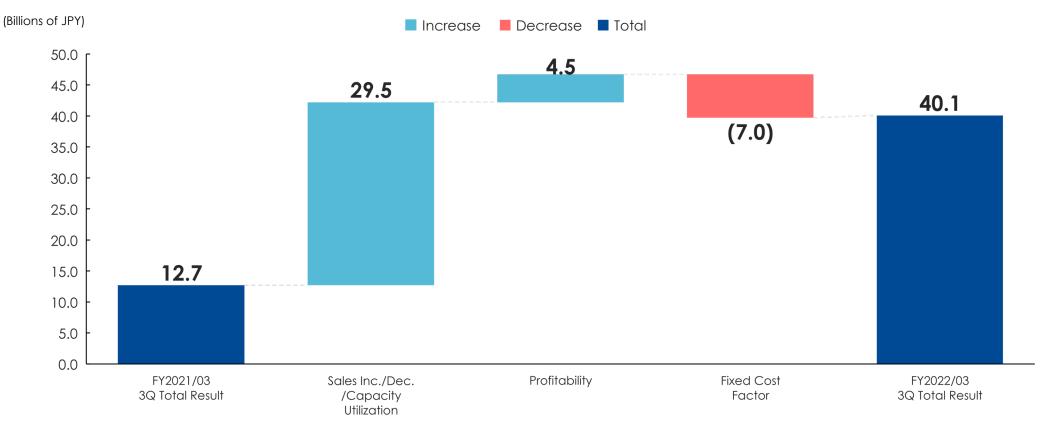


^{*} FCF: Free Cash Flow

Operating CF maintains a stable level higher than operating income

Analysis of Comparison in Operating Income

FY2021/03 3Q Total Result vs FY2022/03 3Q Total Result



* Operating Income Factor: approximate numbers per 0.5 bn

>> Profit increased due mainly to an increased sales and profitability improvement in SPE >> Fixed costs increased due mainly to SPE. Increase in performance-linked remuneration and R&D expenses, etc.



Business Environment and Forecast

January 28, 2022

SCREEN Holdings Co., Ltd.

CEO, President

Toshio Hiroe

Business Environment and Forecast

Business Environment

- Company-wide: Steady overall. Increased in sales and profit YoY. Operating income 3.1 times YoY
- SPE: 3Q Orders received was ¥101.5 bn, a record high for three consecutive quarters Foundry drove orders firmly. Flash increased significantly
- GA, FT and PE: Orders are firm following 2Q

Full Year Business Forecast

- Unchanged from October forecast
- Performance up to 3Q progressed steadily as originally planned.
 We aim to achieve the record high sales and profits by severely controlling delivery time response impacted by a parts shortage



Market Trend and Outlook

- WFE: Continue vigorous investment in both leading-edge and legacy node foundries and logic
 - Customers' projects to start operation in 2024 steadily progressing
 - Expect more than 10% YoY growth in CY2022, around \$100 bn

• Trend by applications

Foundry	Demand for leading-edge and legacy node semiconductors is still booming Cleaning needs due to miniaturization is increasing as well
Logic	Continues strong investment for in-house development and mass production while outsourcing leading-edge product
Memory	Capital investment in DRAM for miniaturization and NAND for the shift toward multi-layered count will continue
Imaging Device	Active investment not only in existing major customer but also in emerging manufacturers in China and other foundries
Power	Investment is expected to continue at a certain scale, mainly in Europe and Japan
Chinese market	There will be a wide variety of legacy node foundries, followed by memory and power device and others
Others	Solid investments in analog, sensors, optics, etc. continue

- We focus on the pipeline to leading-edge nodes and aim to secure POR
- Provide various solutions from leading-edge to legacy node

>> We will take solid development and production system to fulfill supplier's responsibility



SPE

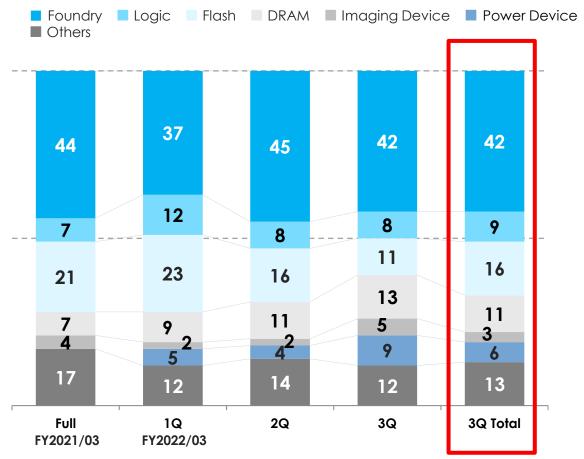
Composition of Sales

By Region - destination-

By Region (Consolidated) / By Application Device (Nonconsolidated)

China South Korea North America Japan Taiwan Others Europe **¥226.1** bn **¥84.6** bn **¥59.7** bn ¥81.6 bn **¥235.5** bn 100% 16 16 17 19 20 17 30 28 23 36 50% --32 22 28 24 19 6 8 7 7 8 12 10 12 11 14 9 8 0% Full 2Q 3Q **3Q** Total 1Q FY2022/03 FY2021/03

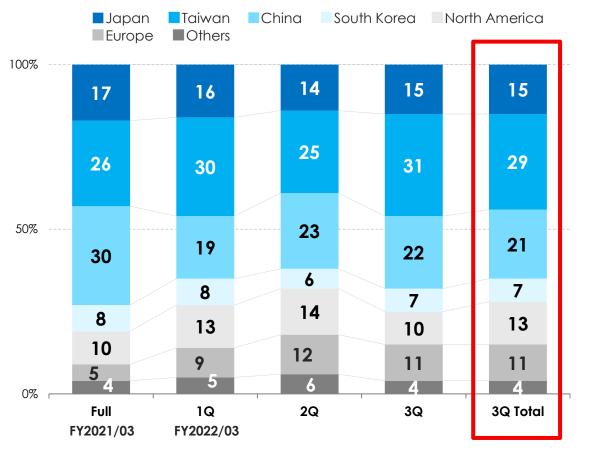
By Application Device



By Region: Sales increased in Taiwan and Europe in 3Q total (YoY), and sales increased in China and Europe in 3Q (QoQ)
 By Application Device: In 3Q total (YoY), DRAM increased while logic increased slightly.

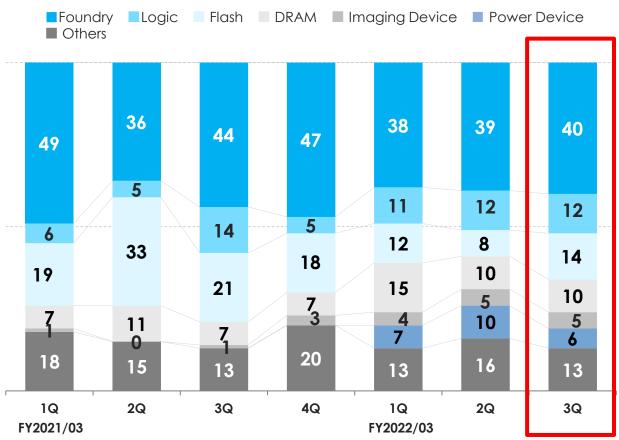
In 3Q (QoQ), foundry and logic were firm. Power device, imaging device and DRAM increased

Orders Received Ratio (Nonconsolidated)



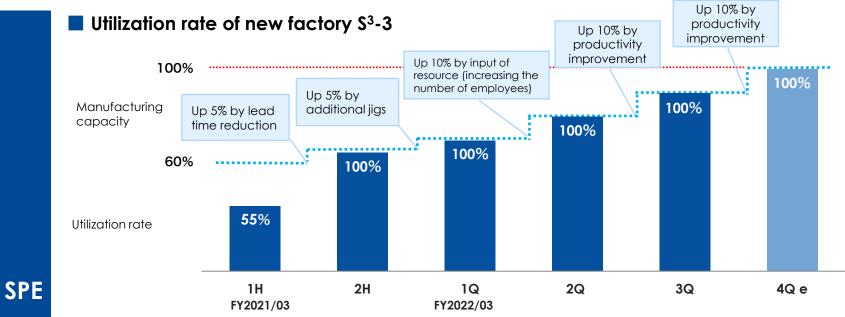
By Region -destination-

Quarterly by Application Device

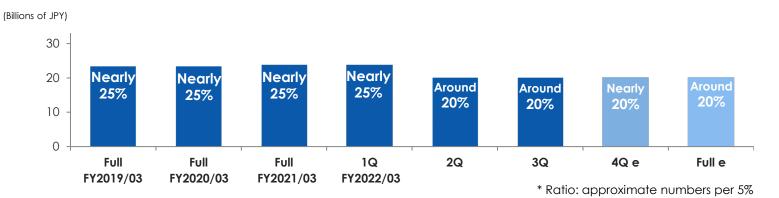


By Region: In 3Q (QoQ), significant increase in Taiwan, slightly increase in Japan and South Korea
 By Application Device: In 3Q (QoQ), foundry remains firm and drove steady orders. Flash increased significantly
 Future orders: Expected to remain a high level of over ¥90.0 bn

Other Indicators



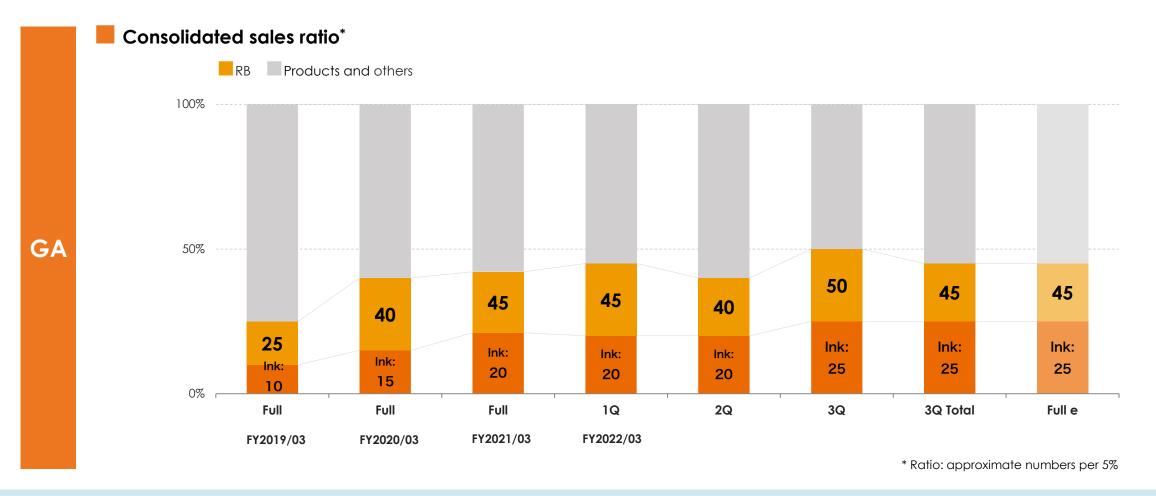
After sales services



- In 3Q, the production capacity of \geq the S³-3 reached full. The utilization rate continues to be 100%.
- We aim to improve our capacity \geq by further shortening lead times and extending operating hours
- We completed 10% capacity increase by FT facility diversion
- After the completion of the new \geq factory S³-4, we aim to increase capacity by more than 20% by improving the production flow (scheduled to start operation in January 2023)
- 3Q: QoQ sales volume steadily \geq increased
- 4Q: Focus on shipment of \geq equipment and recurring business is expected to be the same volume as 3Q



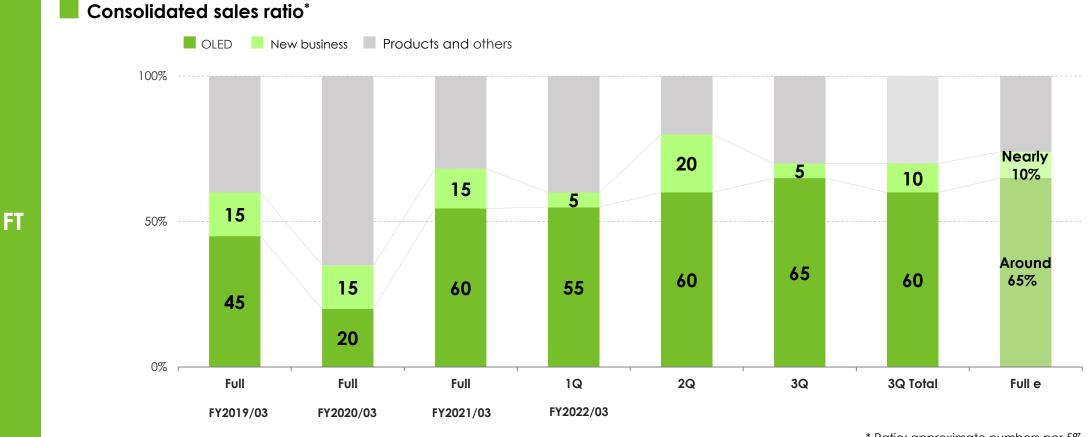
Recurring business is level off



Recurring business (RB), especially ink sales, remains firm

Focus on POD demand in North America and Europe, which are on a recovery trend, while controlling costs for parts shortages and transportation

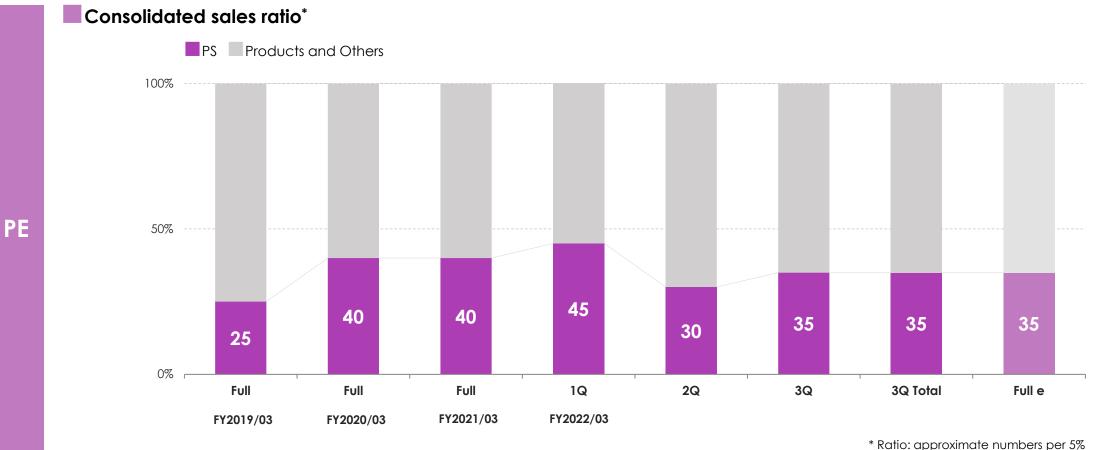
Received orders for small and medium-sized LCDs for smartphones in 3Q



* Ratio: approximate numbers per 5%

- 3Q consolidated orders were ¥10.3 bn (mainly for LCD). Orders are expected at a few billions of yen level mainly for small- and medium-sized OLEDs in 4Q
- Sales are expected to be mainly in small and medium-sized OLEDs for the full year

After sales services is level off



After-sales services are level off

Toward the end of FY2022/03, demand for 5G (mobile and servers) and packages is still robust

The new product 'Ledia Twin' is steadily penetrating customers. Expect further sales increase in FY2023/03



FY2022/03 Business Forecast (as of January 28, 2022)

* **____** is a record high

	*	FY2021/03		FY2022/03					
		Full	1H		Н	Fu	ווי		
	(Billions of JPY)	Result	Result	July Forecast	October / January Forecast	July Forecast	October / January Forecast		
Ne	et sales	320.3	187.2	206.0	221.8	391.5	409.0		
	SPE	235.5	141.4	164.0	178.6	305.5	320.0		
	GA	37.4	20.9	19.0	19.1	38.0	40.0		
	FT	34.7	17.5	15.5	15.4	33.0	33.0		
	PE	10.4	5.8	6.0	7.2	12.0	13.0		
	Others	2.2	1.4	1.5	1.6	3.0	3.0		
Op	erating income	24.4	24.0	25.0	30.4	44.5	54.5		
(to i	net sales ratio)	7.6%	1 2.9 %	12.1%	13.7%	11.4%	13.3%		
	SPE	25.9	24.3	27.0*	33.5*	48.5*	58.0*		
	GA	0.5	0.6	0.5*	0.5*	0.5*	1.0*		
	FT	0.4	0.1	0*	(0)*	0*	0*		
	PE	0.7	0.9	0.5*	1.0*	1.0*	2.0*		
	Others	(3.2)	(1.9)	(3.0)*	(4.5)*	(5.5)*	(6.5)*		
Or	dinary Income	22.7	23.7	23.0	27.7	41.0	51.5		
	iit attributable to ners of Parent	15.1	17.6	15.5	18.4	28.0	36.0		

Notes: Assumed Exchange Rate in FY2022/03 >> USD1 = ¥110, EUR1 = ¥130

* Forecast operating income by segment: approximate numbers per ¥0.5 bn

Assumed exchange rate sensitivity in FY2022/03 (Full year Operating income base) >> To USD: ¥110 million, To EUR: ¥30 million



(Billions of JPY)	1H Result	3Q Total Result	FY2022/03 e
Depreciation and amortization	4.7	7.1	10.0
Capital expenditures	4.1	6.8	13.0
R&D expenses	10.5	16.5	24.0

>> Cash dividend (Forecast)

• Dividends will rise of ¥231 due to a significant increase in profit attributable to owners of parent (October forecast unchanged)

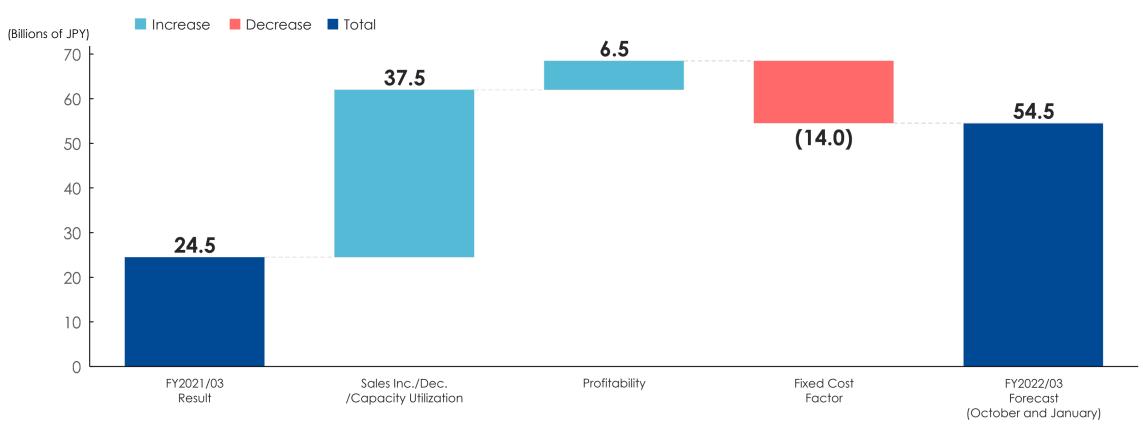
 Returning profits to shareholders in line with the target of maintaining a total consolidated shareholder return ratio of 30% or above as set forth in the medium-term management plan

	(JPY)	FY2022/03 e
Cash dividends per share		231



Analysis of Comparison in Operating Income

FY2021/03 Result vs FY2022/03 Forecast in October and January



* Operating Income Factor: approximate numbers per 0.5 bn

>> Sales increased, and profitability improved due mainly to SPE

>>Fixed costs increased due mainly to SPE. Increase in performance-linked remuneration and R&D expenses, etc.



Recent Group News (Excerpt from our website: October 28, 2021 to January 28, 2022)

- Received the Commissioner of the Japan Patent Office Award at FY2022/03 Kinki Invention Awards
- Invention of UV-LED multiple wavelength exposure-type direct imaging equipment -

•Donated rice to eight child protection facilities in Kyoto Prefecture

• Partnership launched research project to deliver innovative personalized cancer therapies

Announced support for TCFD recommendations

 Donated panels for use in the Aozora Art Museum hosted by the Kuretake Comprehensive Support School in Kyoto City

Approved for transition to new "Prime Market"

• Developed LeVina direct imaging system for next-generation patterning

SPE

HD

 Take next step in strengthening its manufacturing system for semiconductor production equipment

- New factory scheduled to begin operation in January 2023 -



SCREEN Takes Next Step in Strengthening Its Manufacturing System for SPE

SCREEN has decided to accelerate the facility investment in its Hikone site centering on the construction of a new factory, named S3-4 (S-Cube 4) to improve both its production capacity and efficiency. This is a part of "Hikone Grand Design" which initially formulated in 2018 for the medium- to long-term production reinforcement plan.

* Scheduled to begin operation in January 2023

Overview

- Total cost: Approx. 10 billion yen
 - As well as constructing the new factory S³-4, we will expand facilities to accommodate the increases in personnel and waste liquid treatment required by its reinforced production capacity. Also plans to undertake other work such as refurbishing existing plant and building new welfare-related facilities
- S³-4 is to be built connected to S³-3, the main factory for SU series of single wafer cleaning equipment
 The production process, from assembling units and equipment by the parts transported through automated convey system from large-scale automated storage and retrieval system in the S³-3, to pre-shipment cleaning processes, is going to be seamless and more efficient than before

>>Amid these strong market conditions, SCREEN is focused on maintaining a stable supply of equipment to device manufacturers based on its Hikone Grand Design Plan. It remains dedicated to achieving SBT* through promoting energy-saving investments, such as the adoption of renewable energy and the renewal of air conditioning facilities

* SBT: Science Based Targets represent an international initiative to prevent global warming by setting CO2 reduction targets that are based on scientifically sound principles.



SCREEN Developed LeVina Direct Imaging System for Next-generation Patterning

With the advancement of DX, the demand for leading edge semiconductor chips has shifted to the development of "low latency" "high speed" "power saving" devices. The importance of advanced packaging technologies are drawing attention along with front-end process miniaturization technologies to achieve this aim, and SCREEN HD has been developing solutions to advanced packaging technologies.

As the first step, we have released "LeVina", direct imaging system for next-generation patterns. We will continue to develop and provide solutions in this field.

- Designed based on Ledia series from PE and added imaging heads equipped with its proprietary "GLV optical engine" plus laser control technologies, and developed featuring industry-leading resolution of 5 µm
- Thanks to the adoption of highspeed stage capable of moving at up to 480 millimeters per second and an advanced scan alignment function*, LeVina is able to deliver extremely high throughput of 100 substrates per hour with a line and space resolution of 5 µm
- Scheduled for release in April 2022

* Scan alignment function: a function that uses alignment marks to allow the rapid scanning of documents without immobilizing the camera



>>Accelerate SCREEN's expansion into the package substrate market, which continues to enjoy strong growth due mainly to the ongoing deployment of IoT infrastructure as well as 5G and post-5G related technologies >>Remains fully committed to meeting the diverse needs of the semiconductor package industry and contributing to its future development



ESG-Related Initiatives

E (Environment)

- Announced support for TCFD recommendations - We are promoting projects for scenario analysis and disclosure
- Began using renewable energy at the Kyoto Head Office and the Hikone and Taga plants (from January 2022)

- We are continuing to switch to more energy-efficient facilities and equipment

• CDP scores

Climate change: B (previous year: A-) Water security: A- (previous year: A-)

■ S (Social)

 Planning to implement 3rd workplace COVID-19 vaccinations (Kyoto Head Office, Hikone Plant)

- Approved for transition to new "Prime Market" of Tokyo Stock Exchange (scheduled to take effect on April 4, 2022)
 - Maintained a high level of governance and continued constructive dialogues with investors
- SCREEN's website was selected as an Excellent Website in the Overall Ranking category of the Fiscal 2021 All Japanese Listed Companies' Website Ranking by Nikko Investor Relations Co., Ltd.



SCREEN Approved for Transition to New "Prime Market"

 The Tokyo Stock Exchange (TSE) has approved its application for transition to the New "Prime Market" on January 11, 2022, in accordance with the restructuring of market segments scheduled to take effect on April 4, 2022

SCREEN Announces Support for TCFD Recommendations

 SCREEN HD has announced its support for the recommendations published by the Task Force on Climate-related Financial Disclosures (TCFD), established by the Financial Stability Board (FSB). SCREEN has also joined the TCFD Consortium, comprised of companies and financial institutions that have previously endorsed these recommendations

The SCREEN Group is actively involved in the development of initiatives that prioritize environmental, social and governance (ESG) criteria. These efforts include helping to address climate change in line with the Paris Agreement and working to resolve the social issues targeted by the United Nations in its Sustainable Development Goals (SDGs). The Group has established a variety of objectives and embodied them in "Sustainable Value 2023," a set of guidelines designed to improve its social value over the medium term plan



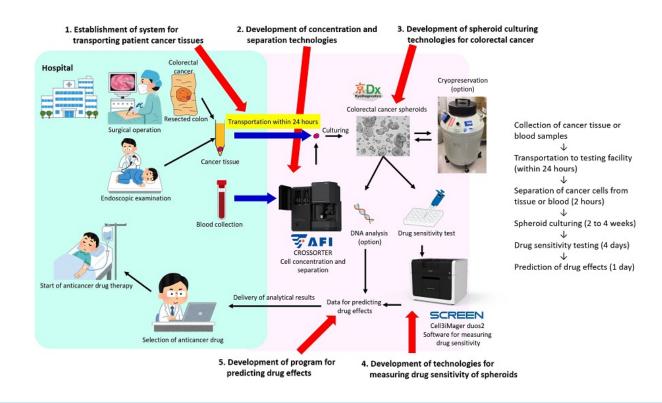


Partnership Launches Research Project to Deliver Innovative Personalized Cancer Therapies

• Kyoto University, SCREEN Holdings Co., Ltd., AFI Corporation and Kyo Diagnostics K.K. have officially launched a joint research project targeting the development of innovative personalized cancer therapies. The project is designed to create high-precision in vitro technologies that utilize patient cells to predict the impact of different treatments. It has been established as a collaborative research course* under the Industry-Government-Academia Collaboration Program operated by Kyoto University

* collaborative research course

Project-type joint research that is conducted using the courses, organizational structures and educational/research facilities of a graduate school, based on collaborations between industry, government and academia. The expenditure required for operation is usually covered by funds provided by private institutions for joint research System for Predicting Effects of Cancer Therapies (Proposed)

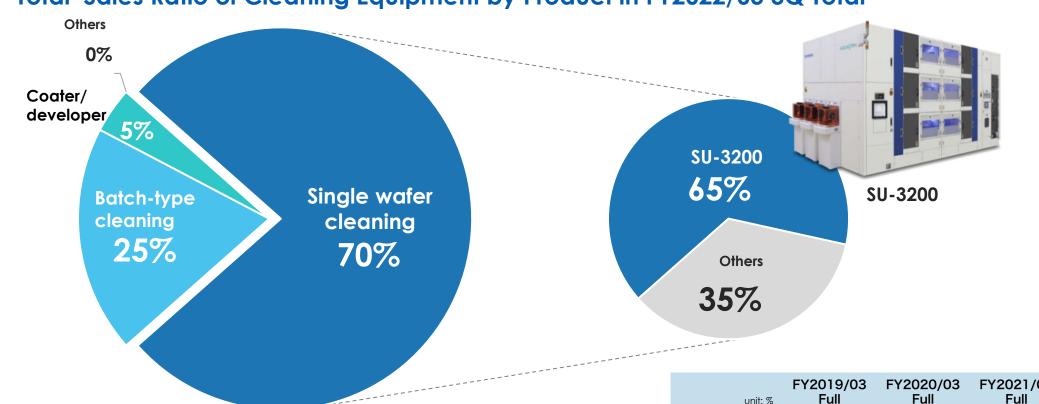


>>The partners will work together to stage a series of demonstration experiments, with the goal of delivering a system able to predict the therapeutic effects of different cancer treatments in approximately two years

Comparison (Yo	Comparison (YoY)		FY2022/03	Difference		
(Billions of JPY)		3Q Total	3Q Total			
Net sales		162.0	226.1	64.1	39.6 %	
Operating inc (to net sales ro		15.2 _{9.4%}	41.4 18.3%	26.1	172.2% 8.9pt	

Comparison (QoQ)	FY2022/03	FY2022/03	Difference		
(Billions of JPY)	2Q	3Q			
Net sales	81.6	84.6	2.9	3.7%	
Operating income (to net sales ratio)	15.4 18.9%	17.1 20.2%	1.6	11.0% 1.3pt	

Appendix>> Composition of Sales (Nonconsolidated)



Total Sales Ratio of Cleaning Equipment by Product in FY2022/03 3Q Total

unit: %	FY2019/03 Full	FY2020/03 Full	FY2021/03 Full	FY2022/03 3Q Total
Single wafer cleaning	65	65	70	70
Batch-type cleaning	20	25	25	25
Coater/ developer	10	5	5	5
Others	5	5	0	0

* Ratio: approximate numbers per 5%

Comparison (YoY)	FY2021/03	FY2022/03	Difference		
(Billions of .	JPY) 3Q Total	3Q Total			
Net sales	26.2	30.9	4.6 17.8		
Operating income (to net sales ratio)	(0) -0.1%	1.1 3.6%	1.1	- 3.7pt	

Comparison (QoQ)	FY2022/03	FY2022/03	Difference		
(Billions of JPY)	2Q	3Q			
Net sales	11.2	9.9	(1.2)	-11.4%	
Operating income (to net sales ratio)	0.4 3.6%	0.4 4.3%	0	7.0% 0.7pt	

Comparison (YoY)	FY2021/03	FY2022/03	Difference	
(Billions of JPY)	3Q Total	3Q Total		
Net sales	19.8	23.1	3.3	1 6.7 %
Operating income (to net sales ratio)	(0.8) -4.4%	(0.1) -0.6%	0.7	- 3.8pt

Co	omparison (QoQ)	FY2022/03	FY2022/03	Difference		
	(Billions of JPY)	2Q	3Q	Difference		
	Net sales	7.2	5.5	(1.7)	- 24 .1%	
	Operating income (to net sales ratio)	(0) -0.9%	(0.3) -5.5%	(0.2)	- -4.6pt	

Comparison (YoY)		FY2021/03	FY2022/03	Difference	
	(Billions of JPY)	3Q Total	3Q Total	Difference	
	Net sales	6.9	9.2	2.2	32.5%
	Operating income (to net sales ratio)	0.3 4.3%	1.5 16.8%	1.2	414.1% 12.4pt

omparison (QoQ)	FY2022/03	FY2022/03	Difference	
(Billions of JPY)	2Q	3Q		
Net sales	3.4	3.3	(0)	-2.7%
Operating income (to net sales ratio)	0.7 21.0%	0.6 17.8%	(0.1)	-17.7% -3.2pt

Appendix>> Changes in Main Index

(Billions of JPY)	FY2017/03	FY2018/03	FY2019/03	FY2020/03	FY2021/03	FY2022/03 Forecast
Net sales	300.2	339.3	364.2	323.2	320.3	409.0
Operating income	33.7	42.7	29.6	12.5	24.4	54.5
Operating income ratio (%)	11.2	12.6	8.1	3.9	7.6	13.3
Total assets	300.6	365.8	380.9	347.9	382.6	-
Equity	142.8	170.8	179.1	173.9	208.3	-
Equity ratio (%)	47.5	46.7	47.0	50.0	54.5	-
ROE (%)	18.4	18.2	10.3	2.8	7.9	-
Depreciation and amortization	5.3	5.7	6.8	8.8	9.6	10.0
Capital expenditures	8.2	14.4	24.0	7.9	7.8	13.0
R&D expenses	17.7	20.8	22.8	21.5	21.5	24.0
EPS (JPY)	511.96	608.62	387.10	107.37	325.21	772.97
Cash Dividends (JPY)	87	110	97	30	90	231



Innovation for a Sustainable World