

## FY12/21 2Q Financial Results Briefing Material

RS Technologies Co., Ltd.



August 11, 2021

Code: 3445 Tokyo Stock Exchange First Section

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# **1. Company Overview**

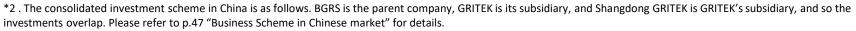


### **Company Overview**

Holding the top market share (30%\*1) worldwide in semiconductor wafer Reclaim market
 Entering the prime wafer business through a joint venture with a Chinese state-owned company
 Expanding into semiconductor-related business fields expected to produce synergy through M&A

Company name	RS Technologies Co., Ltd.
Date of establishment	December 10, 2010
Corporate principles	"Respect the global environment, earn the trust of people, and constantly strive to create."
Businesses	Silicon Wafer Reclaim, Silicon Wafer Oxide Film Coating, Silicon Wafer Sales. Solar Power Station. Purchase and sale of used semiconductor equipment. Sale of chemical materials and semiconductor parts. Technical assistance and education service on semiconductor wafer manufacturing process.
Head office	NT Bldg. 12F, 1-47-1, Ohi, Shinagawa-ku, Tokyo 140-0014 JAPAN
Sanbongi Plant	26-2 Yamazaki, Sanbongi Otonashi, Osaki, Miyagi 989-6313 JAPAN
Capital	JPY 5,438 million (As of June 30 <sup>th</sup> , 2021)
President and CEO	Nagayoshi Ho
	RSTEC Semiconductor Taiwan Co.,Ltd. Founded in February 2014, Capital: NT \$300 million, Stake: 100%
	Beijing GRINM RS Semiconductor Materials Co., Ltd. (BGRS) Registered Capital US \$138 million, Stake 45% <sup>*2</sup>
Consolidated	GRINM Semiconductor Materials Col, Ltd. (GRITEK) Registered capital: RMB 1billion, Stake 47.17% <sup>*2</sup>
subsidiaries	Union Electronics Solutions Co., Ltd. Capital ¥27 million, Stake 100%
	Shandong GRINM Semiconductor Materials Co., Ltd. (Shandong GRITEK, Dezhou, Shandong) Registered Capital RMB 1,500 million, Stake 37.74% <sup>*2</sup>
	DG Technologies Co., Ltd. Capital ¥100 million, Stake 100%

\*1. Estimated by us based on SEMI data.



### History

World leader in wafer recycling business. Made a major Chinese prime wafer manufacturer a consolidated subsidiary and became a comprehensive wafer manufacturer.

Dec. 2010	Established RS Technologies with reclaimed wafers as its primary business
Jan. 2011	Operations begun at the Sanbongi Factory
Nov. 2011	Sanbongi Factory acquires ISO9001:2008 (quality management system) certification from UKAS
Oct. 2013	Solar power business begun at the Sanbongi Factory
Feb. 2014	RSTEC Semiconductor Taiwan established as a subsidiary in Taiwan (currently a consolidated subsidiary)
Mar. 2015	RST listed on the Tokyo Stock Exchange Mothers Market
Jun. 2015	Fab8 completed at Sanbongi Factory, with cutting-edge equipment allowing reclamation of 18-inch wafers
Dec. 2015	Tainan Factory completed for RSTEC Semiconductor Taiwan (currently a consolidated subsidiary)
Sep. 2016	RST moved to the Tokyo Stock Exchange First Section
Dec. 2017	Joint venture agreement concluded with General Research Institute for Nonferrous Metals (GRINM) and Fujian Kuramoto
Jan. 2018	Beijing GRINM RS Semiconductor Materials Co., Ltd. (BGRS) established; Chinese prime wafer manufacturer Youyan Semiconducto Material Company Limited (GRITEK) made a consolidated subsidiary
May 2018	Acquired 100% of shares at Union Electronics Solutions Co., Ltd. (distributor for Hitachi Power Semiconductor Device, Ltd.)
Aug. 2018	Established Shandong GRINM Semiconductor Materials Co., Ltd. (Shangdong GRITEK), a consolidated subsidiary of GRITEK
Jan. 2019	Acquired 100% of shares of DG Technologies Co., Ltd.
Dec. 2019	A four-party joint venture agreement concluded with GRINM, Dezhou Huida Semiconductor Equity Investment Fund Partnership, and the City of Dezhou in Shandong
Feb. 2020	Established Shanghai Union Semiconductor Co., Ltd (Shanghai Union)
Mar. 2020	Established Shandong GRINM RS Semiconductor Materials Co., Ltd. (SGRS) and Beijing Gritek & IVT Technology Co., Ltd. (Beijing IV
Oct. 2020	Completion of a new factory in Shandong GRITEK, a production base for prime wafers in China
May. 2021	Establishment of DG Technologies' second manufacturing plant (Kurihara Plant) in Kurihara city, Miyagi
June. 2021	As a process of GRITEK'S IPO preparation, GRITEK changed company name in Chinese as well as business scheme
Nagles	Copyright© RS Technologies Co., Ltd. All rights reserved

# Sanbongi Factory (RS Technologies, Reclaimed Wafer)

# Jan.2011:Began operationJun.2015: Expanded No.8 Plant for manufacturing 18inch wafer





# Tainan Factory (RSTW, Reclaimed Wafer)

# Feb.2014: RSTEC Semiconductor Taiwan Co.,Ltd (RSTW) establishedDec.2015: Tainan Factory established





# Dezhou Factory (Shandong GRITEK、8 inch prime wafer)

# Agt.2018:Shandong GRITEK was establishedOct.2020:Dezhou Factory completed and began to produce prime wafer





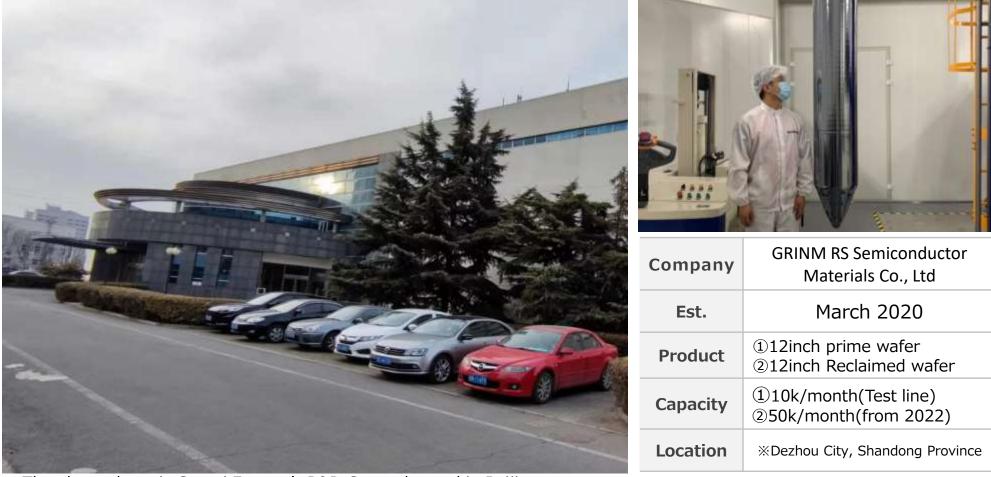
Company	Shandong GRITEK Co.,Ltd					
Est.	October 2020					
Product	5,6,8 inch prime wafer					
Capacity	5 inch : 50k/month 6 inch : 150k/month 8 inch : 130k/month※					
Location	Dezhou City, Shandong Province					
Certificated	ISO9001、ISO14001					

%By the end of 2021, production of 130k/month will be achieved



# Guotai Factory R&D Center (SGRS、12inch prime wafer)

Mar. 2020: GRINM RS Semiconductor Materials Co., Ltd (SGRS) established2021: Test line for 12 inch prime wafer (10k per month production) established



※ The photo above is Guotai Factory's R&D Center located in Beijing.



### DG Technologies New Factory Established

In order to meet customers' demand, DG Technologies established their second manufacturing plant in Kurihara-city, Miyagi on May, 2021.

Area

Respond to increasing demand at 2 plants(Kamisu and Kurihara plants).

#### Kamisu Plant



Plant	DG Technologies Kamisu Plant			
Location	Kamisu-city, Ibaraki			
Area	5,378m <sup>2</sup>			

# Silicon Quartz Shower Ring Plate **Plant** DG Technologies Kurihara Plant Location Kurihara-city, Miyagi

**Kurihara Plant** 



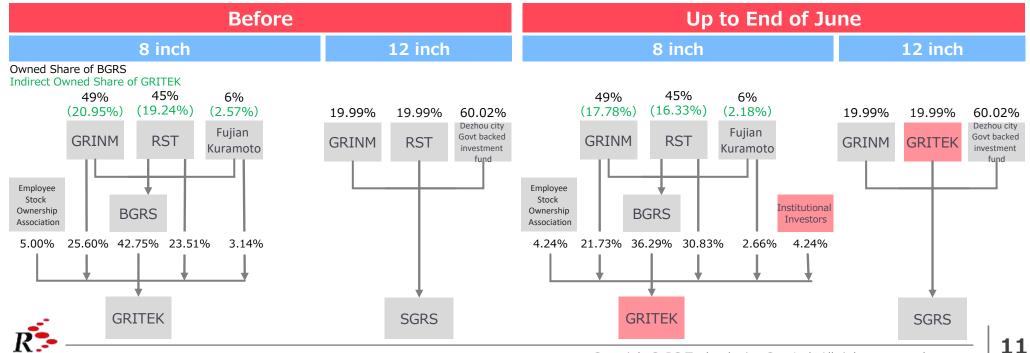
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5,000m<sup>2</sup>

### GRITEK' IPO Preparation Status (Up to May 2021)

Board of Directors determined third party allocation by GRITEK and share transfer of equity method affiliate (SGRS) to GRITEK (disclosed in May, 2021)

Summary	Purpose
<ul> <li>Third party allocation to Institutional Investors and RS Technologies from GRITEK</li> <li>Transfer of Share of equity method affiliate (SGRS)</li> </ul>	<ul> <li>Third Party Allocation to Institutional Investors To Kept variety of shareholders in STAR Market</li> <li>Third Party Allocation to RS Technologies To Strengthen the control of GRITEK by RS</li> </ul>
owned by RS Technologies to GRITEK (Stock Swap)	Share Transfer of SGRS to GRITEK To fit into the Chinese market as a strategy



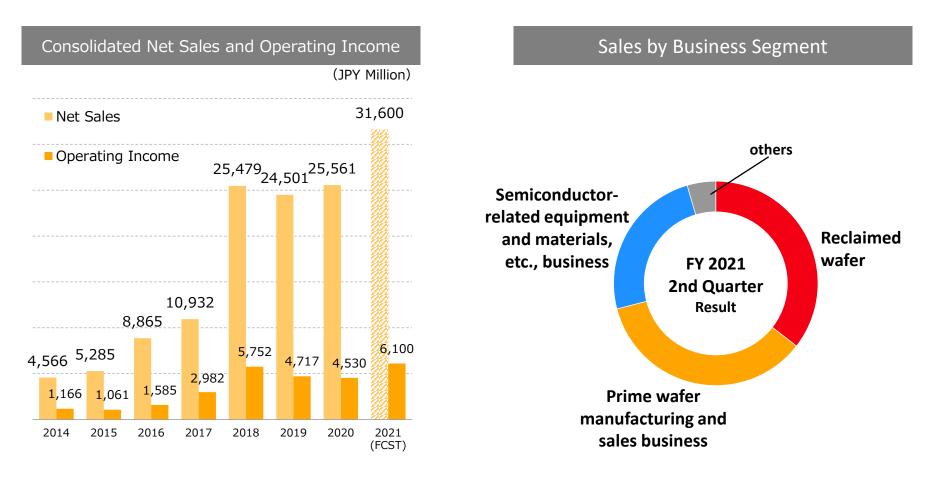
Copyright© RS Technologies Co., Ltd. All rights reserved

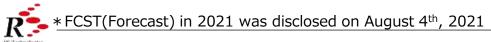
# **RS** Technologies Today

A comprehensive wafer manufacturer in the Silicon Reclaimed Wafer and Prime Wafer business.

Business has expanded into semiconductor-related equipment and materials, etc., business and solar business.

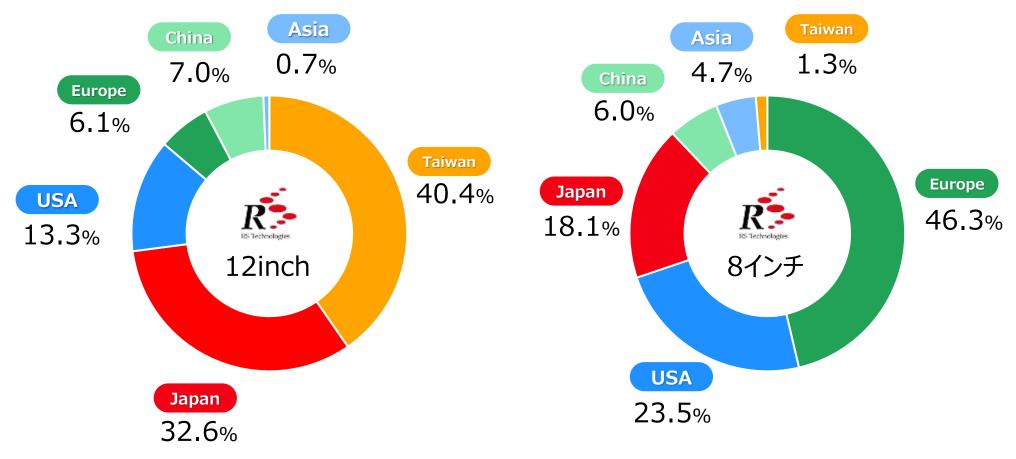
The Company boasts the world's top share in Reclaimed Wafer business and is expanding its Prime Wafer business in China for its domestic use.





### Share of Total Shipments from the Silicon Wafer Reclaim Business

- The customers are major global semiconductor manufacturers, mainly in Japan, Taiwan, USA, and Europe.
- In 2022, production factory for reclaimed wafers increased in China along with one in Japan and Taiwan





# 2. FY 12/2021 2Q Results Summary



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# Summary of Financial Results (Cumulative)

- Both Net Sales and Profit increased YoY mainly contributed by Prime Wafer Business and Semiconductor-related Equipment, Materials, etc., Business
- Operating Income decreased YoY due to increasing R&D cost for prime wafer. However, ordinary income increased YoY because of subsidy for R&D costs
- Net income attributable to owners of the parent decreased YoY due to extraordinary expenses recorded in 1<sup>st</sup> Quarter of FY 2021

(JPY Million)	12FY2020 2Q	12FY2020 2Q (Plan)	12FY2021 2Q	ΥοΥ	Increase/ decrease	Initial Plan	12FY2021 Modified Plan	Compared to Modified Plan
Net Sales	12,653	13,100	15,559	+2,906	23.0%	+2,459	31,600	49.2%
Operating Income	2,580	2,200	2,464	△116	∆4.5%	+264	6,100	40.4%
Operating Margin	20.4%	16.8%	15.8%	riangle4.6pt		riangle1.0pt	19.3%	
Ordinary Income	2,898	2,200	3,662	+764	26.4%	+1,462	7,300	50.2%
Ordinary Margin	22.9%	16.8%	23.5%	+0.6pt		+6.7pt	23.1%	
Net income attributable to owners of the parent	1,686	1,300	630	∆1,056	△62.6%	△670	3,100	20.3%
EPS (JPY)	131.27	100.86	48.77	△82.50	△62.8%	△52.09	240.51	



### FY21 2021 2Q Financial Results By Segment and Company (Cumulative)

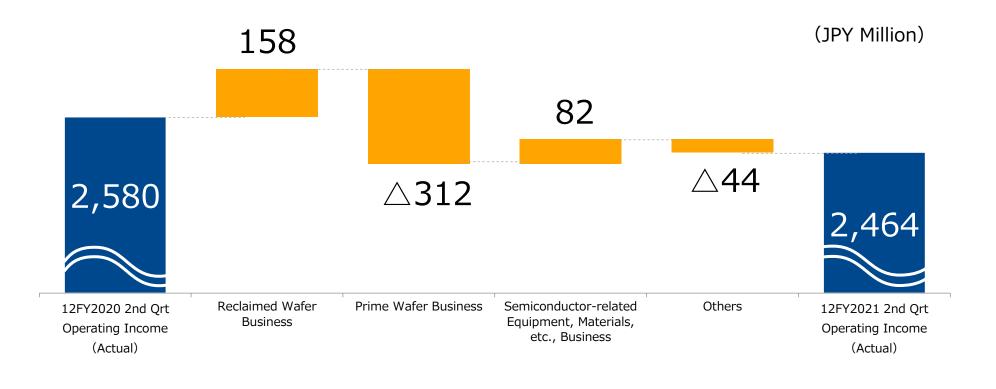
- Reclaimed Wafer Business increased sales and operating profit with strong customer demand and capital investment
- Prime Wafer Business increased sales and make a profit due to new factory steady operation and completion of customer registration
- Semiconductor-related Equipment, Materials Business also showed steady sales and profit increase by putting more sales force

	Reclaime	d Wafer	Prime Wa	afer	Semiconduct Equipment, N etc., Business	Aaterials,	Others, Adjustm	ent	Consolidat TOTAL	ed
By Segment (Million JPY)		YoY		YoY		YoY		YoY		YoY
Net Sales	6,132	7.4%	5,980	25.2%	4,229	63.8%	∆782	-	15,559	23.0%
Operating Profit	2,230	7.6%	561	∆35.7%	176	87.2%	△503	_	2,464	∆4.5%
%	36.4	0.1pt	9.4	riangle 8.9pt	4.2	0.6pt		_	15.8	riangle4.6pt
	RS Techn	ologies	Taiwan Subsidiar	ries	Chinese subsidiar	ies	Other subsidia	ries	Consolidat TOTAL	ed
By Company (Million JPY)		ΥοΥ		YoY		YoY	elimination of intracompany transactions	YoY		ΥοΥ
Net Sales	6,681	27.9%	2,708	14.0%	5,841	22.7%	329	_	15,559	23.0%
Operating Profit	1,320	34.4%	762	∆0.6%	485	∆47.3%	△103	_	2,464	∆4.5%
%	19.8	1.0pt	28.2	riangle4.1pt	8.3	riangle11.1pt			15.8	riangle4.6pt



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■ Operating Income decreased due to increasing R&D costs by Prime Wafer Business YoY.



Increase/decrease factor



■ Prime Wafer Business and Semiconductor-related Equipment, Materials, etc., Business Contributed to the increase in net sales

Net sales contributed to the increase in operating income and net income attributable to owners of the parent increased YoY.

(JPY Million)	12FY2020 2 <sup>nd</sup> Quarter	12FY2021 2 <sup>nd</sup> Quarter	YoY	差額
Net Sales	6,470	8,875	37.2%	+2,405
Operating Income	1,407	1,709	21.5%	+302
Operating Margin	21.7%	19.3%		riangle2.4pt
Ordinary Income	1,490	2,471	65.8%	+981
Ordinary Margin	23.0%	27.8%		+4.8pt
Net income attributable to owners of the parent	860	1,170	36.0%	+310
EPS (JPY)	66.83	90.60	35.6%	+23.77



### FY21 2021 2Q Financial Results By Segment and Company (April to June)

- Reclaimed Wafer Business increased sales and operating profit with strong customer demand and capital investment
- Prime Wafer Business increased sales and make a profit due to new factory steady operation and completion of customer registration
- Semiconductor-related Equipment, Materials Business also showed steady sales and profit increase by putting more sales force

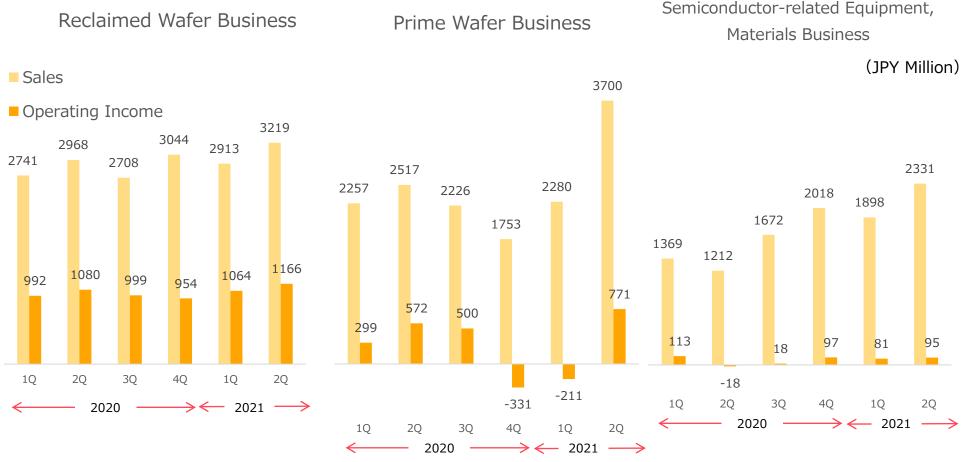
	Reclaime	d Wafer	Prime Wa	afer	Semiconduct Equipment, N etc., Business	Aaterials,	Others, Adjustm	nent	Consolidat TOTAL	ted
By Segment (Million JPY)		YoY		YoY		YoY		YoY		YoY
Net Sales	3,219	8.5%	3,700	47.0%	2,331	92.3%	∆375	_	8,875	37.2%
Operating Profit	1,166	8.0%	771	34.8%	95	_	∆323	_	1,709	21.5%
%	36.2	riangle0.2pt	20.8	riangle1.9pt	4.1	5.6pt	. –	_	19.3	riangle2.4pt
	RS Techn	ologies	Taiwan Subsidiar	ries	Chinese subsidiar	ies	Other subsidia	ries	Consolidat TOTAL	ted
By Company (Million JPY)		YoY		YoY		YoY	elimination of intracompany transactions	ΥοΥ		YoY
Net Sales	3,590	32.7%	1,420	14.5%	3,637	45.2%	228	_	8,875	37.2%
Operating Profit	734	43.3%	370	△5.1%	723	21.5%	△118	· · · ·	1,709	21.5%
%			26.1		19.9			1	19.3	riangle2.4pt



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# FY21 2021 2Q Financial Results By Segment

- Reclaimed Wafer Business shows steady growth in sales and operating profit with strong customer demand
- Prime Wafer Business increased sales and make a profit due to new factory steady operation and completion of customer registration
- Semiconductor-related Equipment, Materials Business also showed steady sales increase by putting more sales force





# FY21 2021 2Q Financial Results By Company

- RS Technologies shows steady sales growth by Reclaimed Wafer Business and Semiconductor-related Equipment, Materials, etc., Business
- RS Taiwan also shows steady sales growth due to strong customer demand and capital investment.
- GRITEK completed customer registration. Operating rate at the factory began to improve. By the end of 2021, it is estimated that sales and profit will increase.



## Balance Sheet and Cash Flow Statement

#### Equity : + JPY 7.4 billion (JPY 40.4 billion $\rightarrow$ JPY 47.8 billion)

■ Cash flow from operating activities : + JPY 3.3 billion

(Profit before tax : + JPY 2.3billion, non-cash : + JPY 2.6billion, Corporate Tax : ▲ JPY 1.7billion, Others : + JPY 0.1 billion)

Conso	lidated Balance	e Sheet
(JPY Million)	12 FY2020	12FY2021 2 <sup>nd</sup> Quarter
	Assets	
Current Assets	32,626	39,887
Cash and Deposits	19,082	24,465
Account Receivable	6,321	7,418
Goods & Products	2,116	1,765
Fixed Assets	26,124	31,127
Tangible Fixed Assets	24,146	26,896
Intangible Fixed Assets	527	506
Investment etc	1,451	3,725
Total Assets	58,750	71,014
	Liabilities	
Current Liabilities	12,631	13,559
Account Payable	2,871	3,149
Short-term Debt	1,522	3,256
Fixed Liabilities	5,754	9,649
Long-term Debt	1,613	5,369
Total Liabilities	18,385	23,208
	Equity	
Equity	40,365	47,806
Equity & Liabilities	58,750	71,014

Cash-flow Statement							
(JPY Million)	12 FY2020	12FY202 1 2 <sup>nd</sup> Quarter					
Cash flow from operating activities	6,377	3,287					
Cash flow from investing activities	△9,188	△7,504					
Cash flow from financing activities	∆776	8,725					
Effect of exchange rate change on cash and cash equivalents	134	893					
Net increase(decrease) in cash and cash equivalents	∆3,453	5,401					
Cash and cash equivalents at beginning of period	21,363	17,910					
Cash and cash equivalents at end of period	17,910	23,311					



#### Background

In February, 2021, some of GRITEK's share owned by BGRS were transferred to Employee Stock Ownership Associations.

(The share transfer plan was disclosed in a disclosure document on November 19, 2020)

#### **RST's understanding and interpretation**

RST requested GRITEK's valuation to a third party (the asset evaluation organization assigned by China Securities Regulatory Commission). Based on the valuation result assessed by the third party, RST regarded the valuation (market value net equity) as fair value and transferred some of GRITEK's share to Employee Stock Ownership Association.

#### Auditing firm's understanding and interpretation

Auditing firm regards quotation from Chinese institutional investors (quoted valuation submitted in April 2021) as fair value.

#### Outcome · Impact

- •Extraordinary Expenses (JPY 1,348 Million) is appropriated based on the difference between transferred value and the fair value determined by auditing firm
- •No Cash-out from this event
- No impact on net asset from this event

(Because of this extraordinary expenses, retained earnings decrease while capital surplus increases.

Therefore, there is no impact on net asset)



The Full Business Year forecast was revised upward based on the cumulative results in 2Q and the outlook for 3Q and beyond.

	12FY2020	12FY2021		
	Full Business Year		Full Business Year	_
(JPY Million)	Actual	Previous Forecast	Forecast	Increase/decrease
Net Sales	25,561	29,200	31,600	+2,400
Operating Income	4,530	5,900	6,100	+200
Operating Margin	17.7%	20.2%	19.3%	<b>△0.9pt</b>
Ordinary Income	5,252	5,900	7,300	+1,400
Ordinary Margin	20.5%	20.2%	23.1%	+2.9pt
Net income attributable to owners of the parent	2,824	3,100	3,100	-
EPS (JPY)	219.15	240.51	240.51	-
Annual Dividend	JPY 20	JPY 20	JPY 20	-

• %Previous Forecast in 2021 was disclosed on February 12<sup>th</sup> 2021, and Forecast in 2021 was disclosed on August 4<sup>th</sup> 2021.



# 3. Mid-Term Investment Plan



- Factory in Japan and Taiwan will increase production capacity and one in China will execute stable mass production.
- By increasing investment amount for Taiwan factory, the factory will produce 220k wafers/month

#### Japan

#### Total investment: JPY 1.4 bil.

- Expand production capacity for 12inch reclaimed wafers.
- 2020 to 2022: JPY 1.4 bil. (40,000 wafers)

12-inch reclaimed wafer production capacity (per month)			
2020	2021	2022	2023
260k 280k 300k 300k			

FY2021	FY2022	FY2023
JPY 900 million	JPY 500 million	TBD

#### Taiwan

#### Total investment: JPY 2.5 bil.

- Expand production capacity and conduct refinement for 12-inch reclaimed wafers.
- 2020 to 2023: JPY 2.5 bil. (60,000 wafers)

12-inch reclaimed wafer production capacity (per month)				
2020	2021	2022	2023	
160k 180k 190k 220k				

FY2021	FY2022	FY2023
JPY 800	JPY 700	JPY 1
million	million	billion

#### China

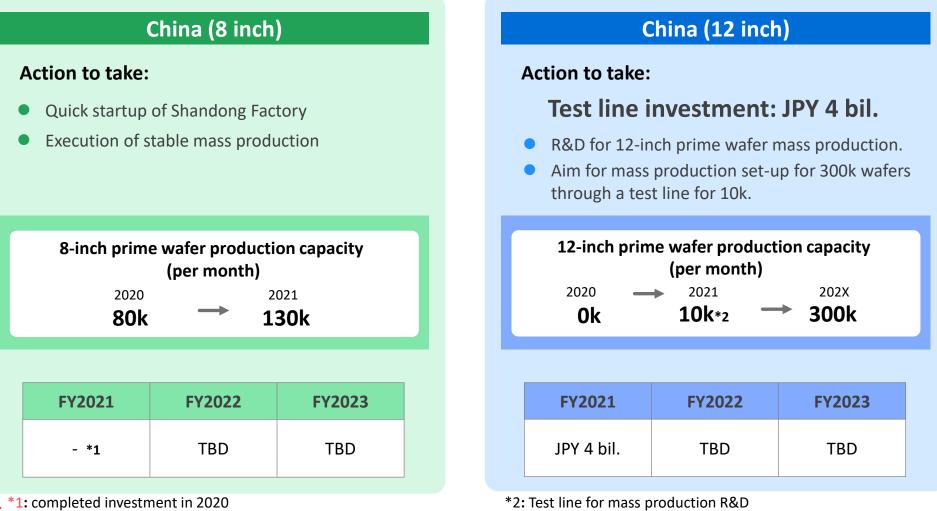
#### Total investment: JPY 3.6 bil.

- Invest a new 12-inch reclaimed wafer production base.
- Phase 1 investment (2020 to 2023): JPY 3.6 bil. (50,000 wafers)
- Phase 2 Investment (2024~) investment -TBD (50,000 wafers)

12-inch reclaimed wafer production capacity (per month)			
2020	2021	2022	2023
0k	0k	50k	50k
Phase 1 investment			

FY2021	FY2022	FY2023
JPY 3	JPY 500	JPY 100
billion	million	million

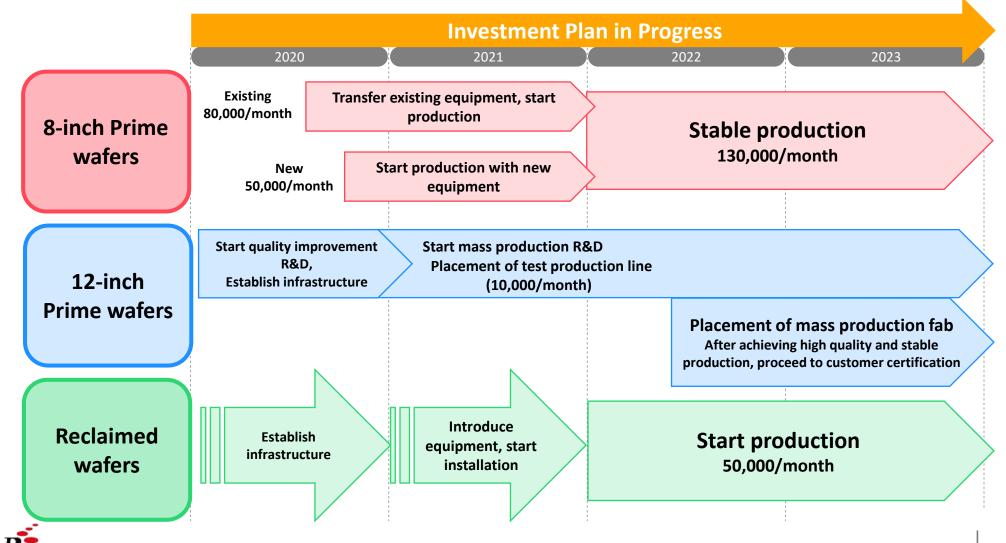
8 inch prime wafer: Targeting to produce 130k wafers per month
 12 inch prime wafer: Executing R&D to produce 10k wafers per month





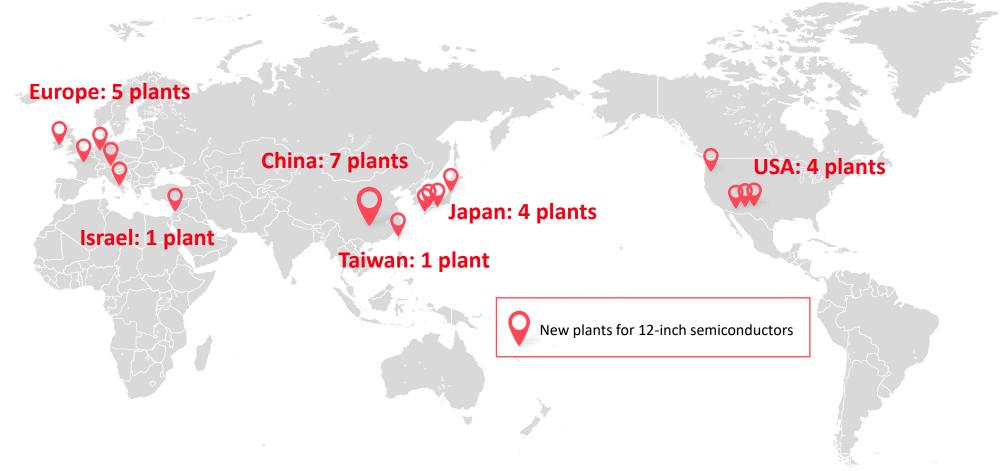
### Investment Plan in Progress for China (Schedule)

Producing 130k wafers per month for 8 inch prime wafers, executing R&D to produce 10k wafers per month for 12 inch are scheduled. In parallel, reclaimed wafer business in China also will begin.



### New Demand in Reclaimed Wafer Business: Plans to construct new 12-inch semiconductor plants

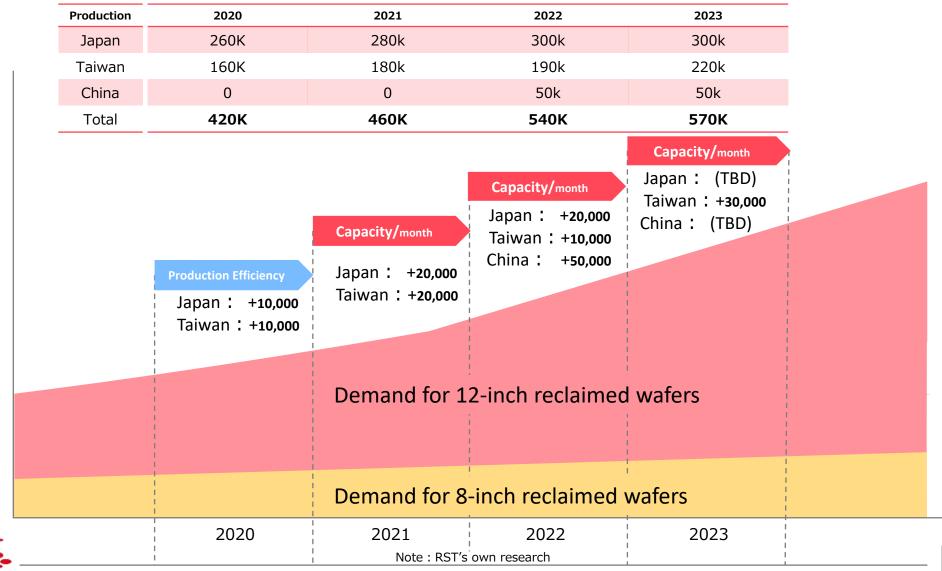
There are plans to construct new semiconductor plants to cope with the high demand for semiconductors for memory, CPU, computerization of automobiles, etc., in Europe, USA, Japan, etc.
 Meet new reclaimed wafer demand by capital investments in Japan, Taiwan, and China.





Note: RST survey

Between 2021 and 2023, production capacity of 12 inch reclaimed wafers is expected to increase: Japan: +40,000, Taiwan: +60,000, China: +50,000



Third Engine of Growth : DG Tec's Growth Strategy (1/3)

DG Technologies manufactures consumable parts for semiconductor equipment
 In January, 2019, DG Technologies became a consolidated subsidiary of RS Technologies

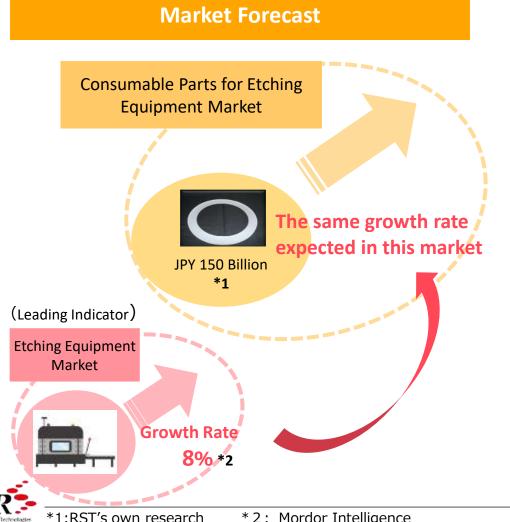
Company Profile		Product
DGtec 株式会社DGテクノロジーズ		Quartz and Silicon Consumable Parts For Etching Equipment
Name	DG Technologies Co., Ltd	
Est.	October 26, 1981	Silicon Plate Quartz Ring
Business	Consumable parts for semiconductor equipment	Silicon Plate Quartz Ring
Address	3-4, Sunayama, Kamisu-city, Ibaraki	Main Customer
Capital	JPY 100 Million	Semiconductor Manufacturers Semiconductor
CEO	Nagayoshi Ho	Equipment Manufacturers



## Third Engine of Growth : DG Tec's Growth Strategy (2/3)

Market for Quartz and Silicon Consumable Parts for Etching Equipment is expected to reach 150 billion yen and is expected to continue stable growth.

By executing the Growth Strategy, DG Tec targets to become top provider in the market



#### **Growth Strategy**

Strengthening Sales Activities  $\Rightarrow$  Cross-selling DG Tec's parts to RST's existing customers

Reinforcement of Production Capacity  $\Rightarrow$ Execution of CAPEX helps DG Tec meet customers' required quantities and delivery time of products.

Improvement of Production Efficiency ⇒Optimization of human resources and production planning leads to overall production efficiency

#### Optimization of Procurement

 $\Rightarrow$  Purchasing raw materials from GRITEK creates cost advantage.

\* 2: Mordor Intelligence

## Third Engine of Growth : DG Tec's Growth Strategy (3/3)

In order to meet customers' demand, DG Technologies established their second manufacturing plant in Kurihara-city, Miyagi on May 30, 2021.

Area

Both Kamisu and Kurihara plants manufacture Silicon and Quartz parts

#### Kamisu Plant



Plant	DG Technologies Kamisu Plant
Location	Kamisu-city, Ibaraki
Area	5,378m <sup>2</sup>

# Silicon Quartz Shower Ring Plate Plant DG Technologies Kurihara Plant Location Kurihara-city, Miyagi

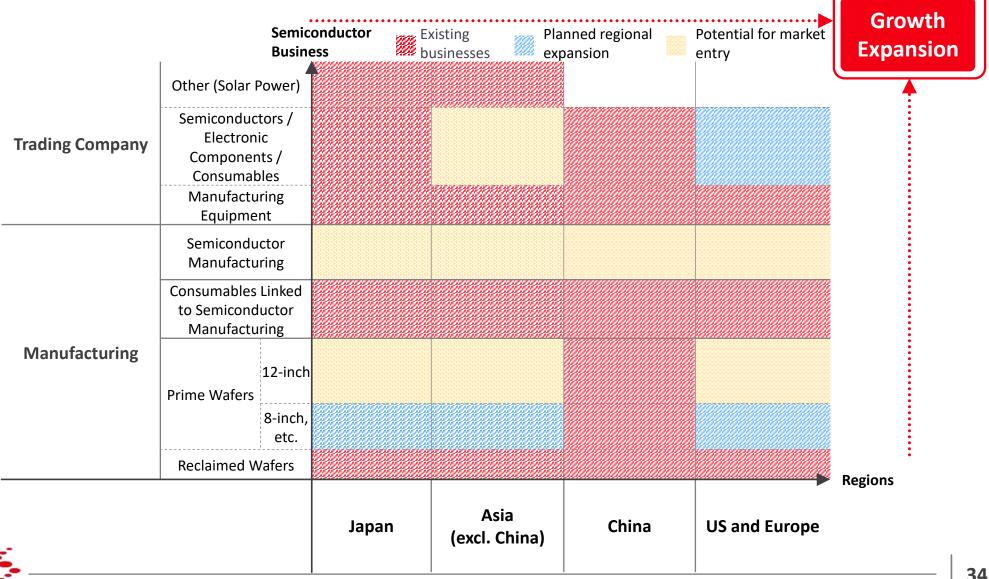
**Kurihara Plant** 



5,000m<sup>1</sup>

### **RS** Technologies' Aims

#### Steady expansion of business domains and regions



# Appendix 1

### Subsidiary in China, GRITEK, preparing for IPO on STAR Market: (Published Information)

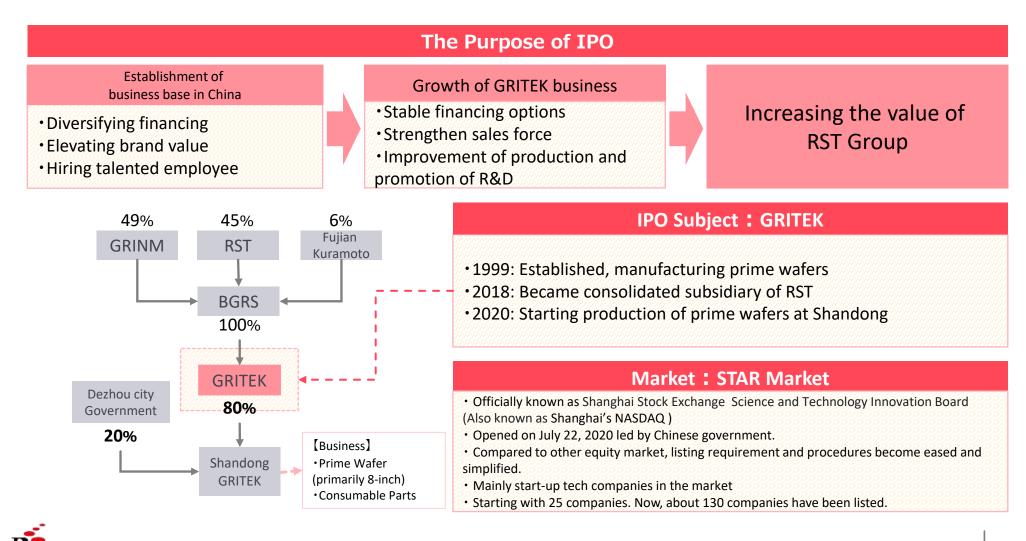




## Subsidiary in China, GRITEK, preparing for IPO (Published in Sept, 2020)

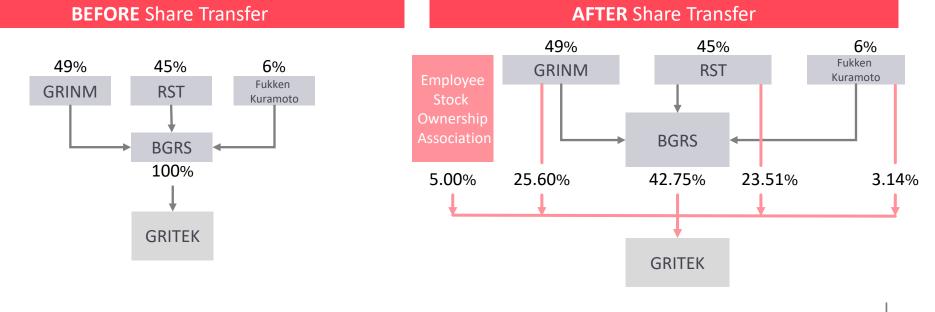
In September, 2020, RST decided to prepare for GRITEK's IPO

By conducting IPO, RST aims to elevate the value of GRITEK and expand their business



Board of Directors held on Nov. 19, 2020 approved share transfer of GRITEK's share as a part of IPO process.

# Summary of Share TransferPurpose of Share Transfer• Current Status : BGRS holding 100% of GRITEK's Share<br/>• Share Transfer Scheme : BGRS transferring GRITEK share<br/>to GRINM with 25.60%, Fukken Kuramoto with 3.14%,<br/>Employee stock ownership association with 5.00%, and<br/>RSTwith 23.51%• Employee Stock Ownership Association stimulates<br/>GRITEK's employees' motivation<br/>• Maintaining business relationship with GRINM<br/>↓<br/>Increasing RST Group's enterprise value



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# Appendix 2



## Strengths of CEO Nagayoshi Ho

• President and CEO Nagayoshi Ho has knowledge gained from over 20 years in Japan, as well as strengths in worldwide sales, business networking, partnerships, and financing.

President Ho has assembled a team of professionals from a broad range of fields including advanced technology and finance.



Nagayoshi Ho, center front (taken September 2016 at TSE)

#### Nagayoshi Ho

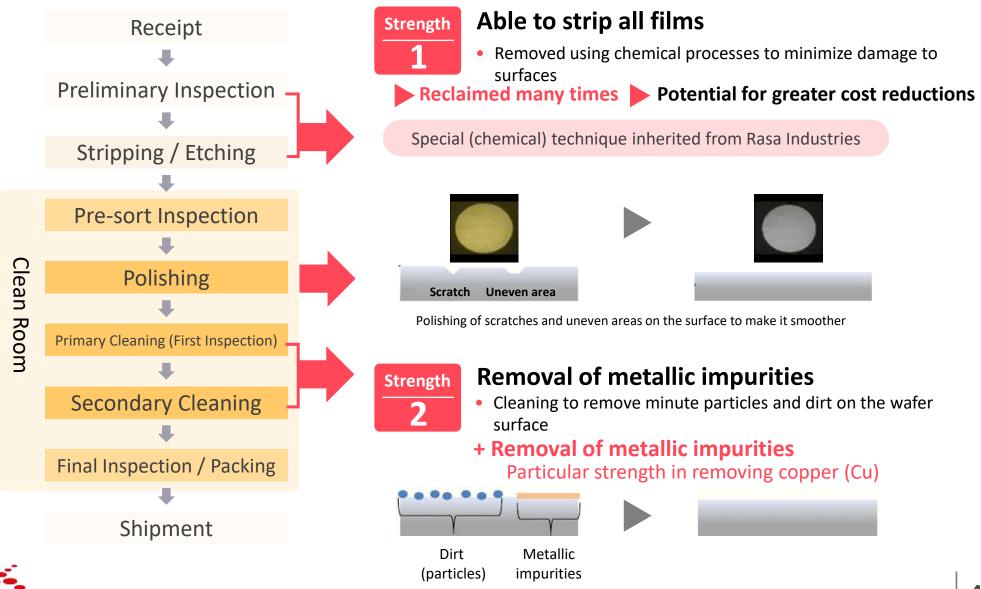
Born 1970 in Fujian Province, China Completed Josai International University Graduate Program Specialty fields: M&A, business alliances (successful M&As with more than 10 companies) 1998 Established Eiki Shoji Co., Ltd. 2010 Established and appointed president of RTS (current position) Favorite maxim: Where there is a will, there is a way

#### Supplementary information:

Nagayoshi Ho came to Japan after graduating high school. He has invested in more than 20 companies in Japan and abroad. In addition to semiconductors, he has experience investing in a range of businesses, including investment funds, trade, hotels, IT, and agriculture. He has traveled the world promoting his belief that Japanese manufacturing is the best in the world.

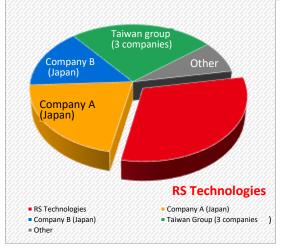


## Reclaimed Wafer Business (1/2)



#### Increasing Share of the Reclaimed Market

#### RS Technologies' Share of the 12-inch Reclaimed Market



A new plant in Taiwan and expansion of the Sanbongi Factory increased production capacity, increasing our market share to 33%.

We will further enhance production capacity at both plants by using empty factories at Sanbongi, and utilizing business partnerships, M&A, and other means.

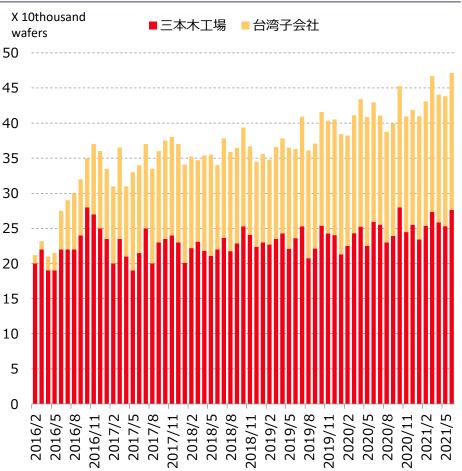
Note: RST survey

	FY12/ 2015 1H	FY12/ 2015 2H	FY12/ 2016	FY12/ 2017	FY12/ 2018	FY12/ 2019	FY12/ 2020
RST Group Production Capacity	180k wafers	240k wafers	280k wafers	300k wafers	340k wafers	400k wafers	420k wafers
RST Group Market Share	19%	24%	29%	30%	31%	33%	33%

Note: RST survey

#### Shipments from the Sanbongi Factory and Taiwan Subsidiary (2016-2021)

Shipments of 12-inch Wafers from the Sanbongi Factory and Taiwan Subsidiary





# Manufacturing Factories for Reclaimed Wafer

Sanbongi and Taiwan factories produced reclaimed wafersBy 2022, Dezhou facotry will produce reclaimed wafer (50k/month)

#### Sanbongi Factory

#### **Tainan Factory**

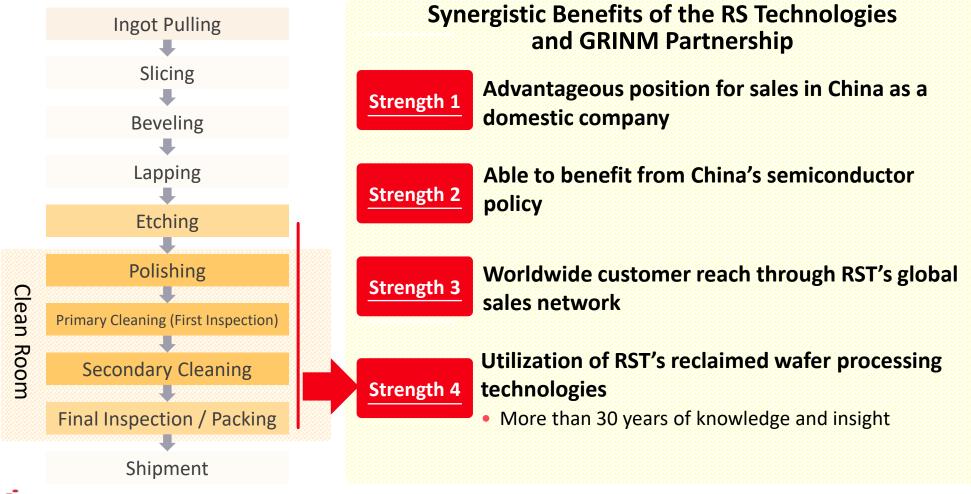
### **Dezhou Factory**



Location	Osaki-city, Miyagi	Location	Tainan-city, Taiwan	Location	Dezhou-city, Shandong	
Product	5,6,8, and 12 inch	Product 12 inch		Product	12 inch	
Capacity	8 inch : 130k/month 12 inch : 260k/month	Capacity	160k/month	Capacity	50k/month ※	
Certified	ISO9001, ISO14001	Certified	ISO9001, ISO14001	Certified	ISO9001, ISO14001	
-						



RS Technologies has established a joint venture with Chinese state-owned company General Research Institute for Nonferrous Metals (currently, Grinm Advanced Materials, hereafter, GRINM) and is developing its semiconductor business as a domestic Chinese company.





## About RST's Joint Venture Partner in China (GRINM)

- Established in 1952, GRINM is the largest state-owned research institute in the field of non-ferrous metals in China.
- Out of the roughly 13 million companies in China, about 300 thousand are state owned. Out of these, about 88 are directly owned by the central national government and GRINM is one of these.
- GRINM is a research institute through which government, industry and science come together. Nonferrous metal policies of the central national government are transmitted through GRINM.
- GRINM established operating companies that serve as evidence of its successful research. Currently, 34 of these companies exist.
- GRITEK, a subsidiary of Beijing GRINM RS Semiconductor Materials Co., Ltd. (BGRS), an RST joint venture, was established as GRINM's first operating company in 2001.





#### Background of Partnership

- 1. Worldwide invitations for major semiconductor manufacturers to set up factories in the area are gaining momentum. Several semiconductor manufacturers are located nearby, making the area a prime location (see image on the right)
- 2. GRITEK will be able to offer plentiful benefits, including low-cost company housing and reduced utility expenses
- **3.** Science and engineering universities are located nearby, providing favorable circumstances for acquiring superior human resources
- 4. Land expandable to a maximum of about 500,000m<sup>2</sup> (initially 200,000m<sup>2</sup>) has been procured, allowing for adequate response to future business progress in China

#### History and current status

- 1. Established new company (Shandong GRINM Semiconductor Materials Co., Ltd. ) for 8inch wafer business on August, 2018.
- 2. A four-party joint venture agreement concluded with General Research Institute for Nonferrous Metals (GRINM), Dezhou Huida Semiconductor Equity Investment Fund Partnership, and the City of Dezhou in Shandong in Dec. 2019.
- 3. Established new joint venture (Shandong GRINM RS Semiconductor Materials Co., Ltd.) for 12-inch wafer business in March 2020
- 4. Dezhou City New Factory Completion Ceremony held on October, 2020





# Manufacturing Factory and R&D Center for Prime Wafer

In October, 2020, Dezhou factory began to produce 8 inch prime wafer
 In Guotai Factory, R&D Center for 12 inch prime wafer was established. In 2021, test line to produce 10k wafers per month in order to execute mass production.

#### For 8 inch prime wafer Dezhou Factory (Shandong GRITEK)



For 12 inch prime wafer R&D Guotai Factory R&D Center (SGRS)



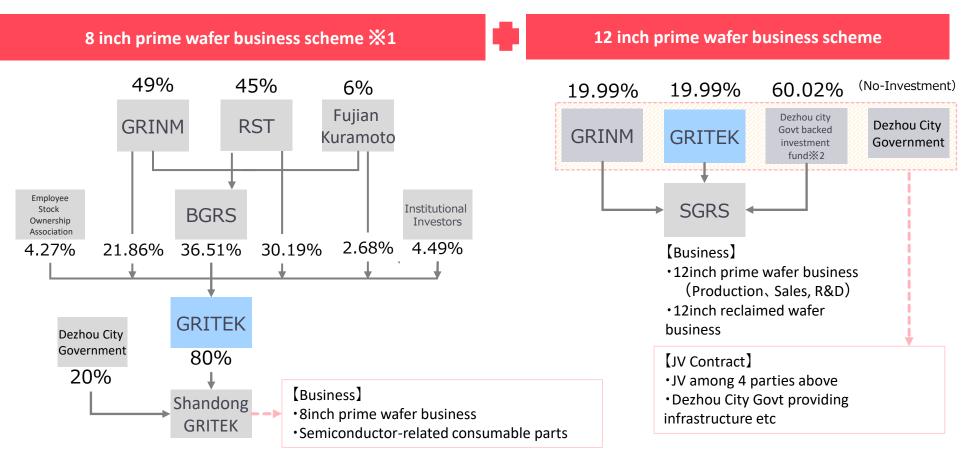
Location	Dezhou city, Shandong, China
Product	5,6,8 inch prime wafer Consumable parts for semiconductor equipment
Capacity (Monthly)	5 inch:50k, 6 inch:150k 8 inch:130k※
Certified	ISO9001, ISO14001

By the end of 2021, production of 130k/month will be achieved

Location	Beijing, China
Product	12 inch prime wafer (R&D for mass production)
Capacity (Monthly)	12 inch:10k(Testline)

# Business Scheme in Chinese market

- As a part of IPO process, Board of Directors determined partial share transfer of GRITEK's shares owned by BGRS (disclosed in November, 2020), third party allocation by GRITEK and share transfer of equity method affiliate (SGRS) to GRITEK (disclosed in May, 2021)
- Below is the business scheme in details

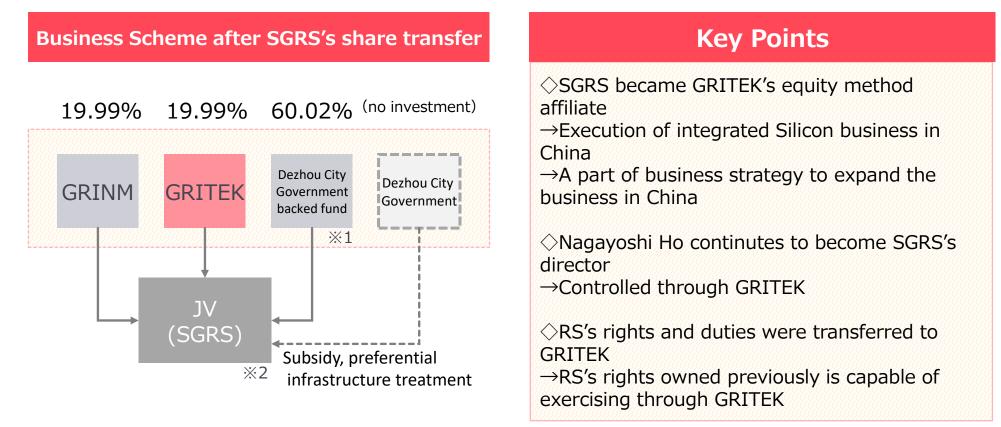


%1 The business scheme above is after execution of GRITEK's third party allocation and share transfer of equity method affiliate to GRITEK %2 Dezhou Huida Semiconductor Equity Investment Fund Partnership



12 inch silicon wafer business scheme in China (After execution of business scheme disclosed in May, 2021)

- In May, 2021、SGRS share owned by RS Technologies was transferred to GRITEK (stock swap) and approved by Board of Directors.
- By this share transfer above, SGRS became GRITEK's equity method affiliate
- Executing 12 inch prime wafer business through GRITEK is judged as the most appropriate approach to expand the business in China





## Year-by-Year Results

(JPY Million)	FY12/2013	FY12/2014	FY12/2015	FY12/2016	FY12/2017	FY12/2018	FY12/2019	FY12/2020
Net sales	3,475	4,566	5,285	8,864	10,932	25,478	24,501	25,561
Gross profit	1,173	1,820	1,852	2,544	4,252	8,366	7,940	8,681
SG&A	471	654	791	958	1,269	2,615	3,223	4,151
Operating profit	703	1,166	1,061	1,585	2,982	5,751	4,717	4,530
Ordinary income	819	1,247	770	1,444	3,159	6,141	5,416	5,252
Net income*	525	664	143	861	2,113	3,620	3,035	2,824
Dividend (Yen)	-	-	-	10	5	10	15	20
Capital investment	338	3,503	4,665	209	95	1,328	4,809	12,409
Depreciation	87	103	326	682	714	1,298	1,814	1,674
Research and development expenses	1	6	11	85	183	501	449	929
Number of employees (Regular employees)	152	191	265	373	434	1,159	1,277	1,187



\*Net income attributable to parent company

## **Principal Financial Statements**

(JPY Million)	FY12/2013*	FY12/2014	FY12/2015	FY12/2016	FY12/2017	FY12/2018	FY12/2019	FY12/2020		
Assets										
Current Assets	1,811	2,759	3,732	5,348	7,388	26,074	32,760	32,626		
Cash and cash equivalent	397	1,190	1,842	1,952	3,243	14,879	22,156	19,082		
Notes and accounts receivable - trade	681	696	795	2,531	2,916	6,958	6,047	6,321		
Merchandise and finished goods	396	376	361	348	446	1,343	1,713	2,116		
Non-Current Assets	508	4,064	5,845	5,333	4,843	10,516	15,873	26,124		
Property, plant and equipment	461	3,918	5,667	5,152	4,674	8,963	14,635	24,146		
Intangible assets	19	15	29	23	19	1,099	732	527		
Investments and other assets	27	130	148	158	149	453	506	1,451		
Total Assets	2,320	6,823	9,577	10,682	12,231	36,591	48,634	58,750		
Liabilities										
Current liabilities	960	2,292	2,295	2,993	3,370	4,979	7,252	12,631		
Notes and accounts payable - trade	138	151	186	283	398	1,554	1,614	2,871		
Interest-bearing debt	136	827	1,216	1,538	1,276	976	1,730	1,522		
Non-Current Liabilities	709	2,934	4,798	4,317	3,335	2,474	5,400	5,754		
Long-term loans payable	615	2,925	4,079	3,620	2,767	1,848	2,232	1,613		
<b>Total Liabilities</b>	1,670	5,227	7,093	7,310	6,705	7,453	12,652	18,385		
Net Assets										
Net Assets	649	1,596	2,483	3,371	5,526	29,137	35,981	40,365		
Total Liabilities and Net Assets	2,320	6,823	9,577	10,682	12,231	36,591	48,634	58,750		
*In the fiscal y	ear ending Dece	mber 2013, the	financial results	ware non-conso	lidated.					



## Performance by Segment

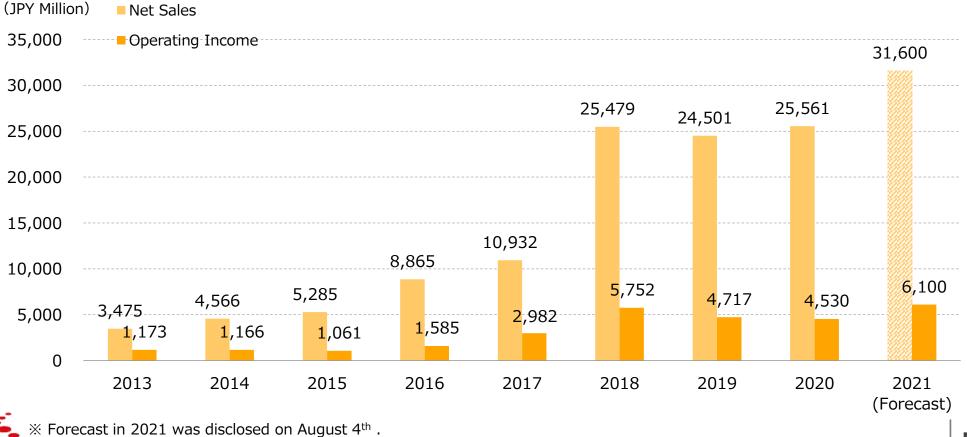
(JPY Million)	FY12/2013	FY12/2014	FY12/2015	FY12/2016	FY12/2017	FY12/2018	FY12/2019	FY12/2020
Net sales								
Wafer business	3,347	4,414	5,107	7,144	9,487	10,973	10,776	11,461
Prime wafer manufacturing and sales business	_	_		_	_	11,918	10,058	8,755
Purchases and sales of semiconductor equipment business	-	_	_	1,654	1,393	2,918	4,047	6,272
Other, adjustments	127	151	178	66	52	∆331	∆380	∆ <b>927</b>
Segment profit								
Wafer business	916	1,444	1,377	1,765	3,396	4,011	4,081	4,027
Prime wafer manufacturing and sales business	_	_	_	_	_	2,048	1,503	1,041
Purchases and sales of semiconductor equipment business	-	_	_	230	130	366	171	211
Other, adjustments	△214	△278	∆316	∆409	∆543	△675	△1,038	△749
Segment assets		·	·	·		·	·	
Wafer business	1,337	5,040	6,987	5,657	8,120	9,150	10,336	11,698
Prime wafer manufacturing and sales business	_	_	_	_	_	21,313	29,311	35,697
Purchases and sales of semiconductor equipment business	_	_	_	1,137	1,305	1,939	3,179	5,387
Other, adjustments	982	1,783	2,589	3,887	2,805	4,315	5,806	5,968

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# Year-by-Year Results

- In February, 2014, RSTEC Semiconductor Taiwan (RSTW) was established and Tainan factory began to produce 12 inch reclaimed wafer in December, 2015
- In June, 2015, No 8 Factory (for 18 inch reclaimed wafer) in Sanbongi completed
- In January, 2018, GRITEK became a consolidated subsidiaries
- In October, 2020, Dezhou Factory in Shandong began to manufacture prime wafer

#### **Consolidated Net Sales and Operating Income**



The content of these materials was prepared based on generally recognized economic potential and certain assumptions considered reasonable by the Company but is subject to revision without notice due to changes in various business environments affecting management.

Materials and information provided for this announcement contain forwardlooking statements. This information is based on assumptions pertaining to the current outlook, forecasts and risks, and contains uncertainties that could result in different outcomes.

Even in the case of new information, future events, or other relevant matters, the Company is under no obligation to update or revise the forward-looking statements contained in this material.

