# 

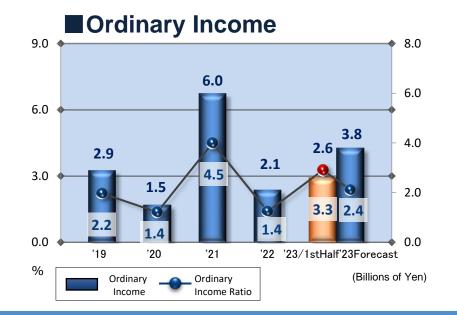
# Results Briefing for 2nd Quarter of FY2023 (November 10, 2023)

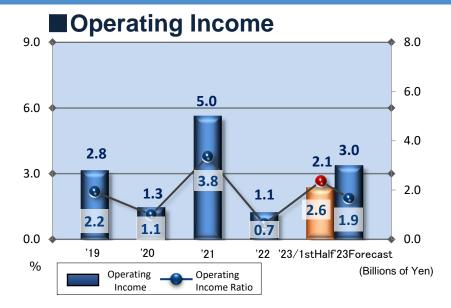
T.RAD Co.,Ltd.



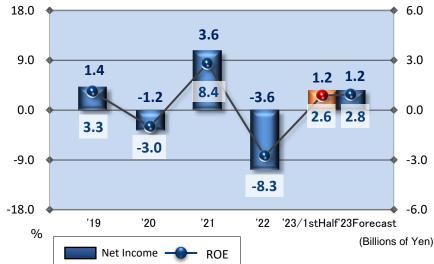
# **Financial Results (Consolidated)**







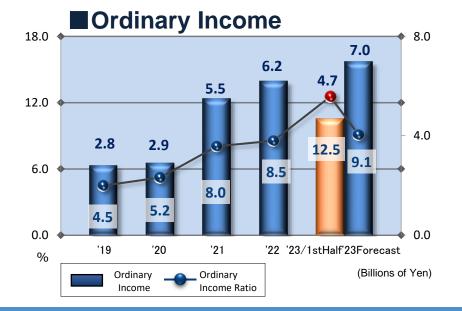
#### Net Income

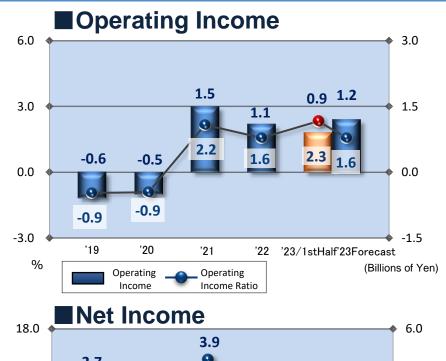


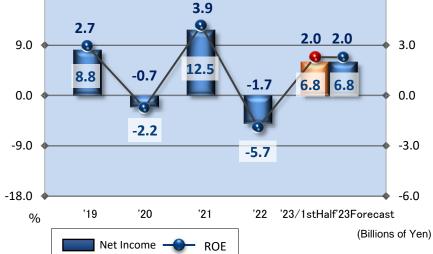


# **Financial Results (Non-Consolidated)**









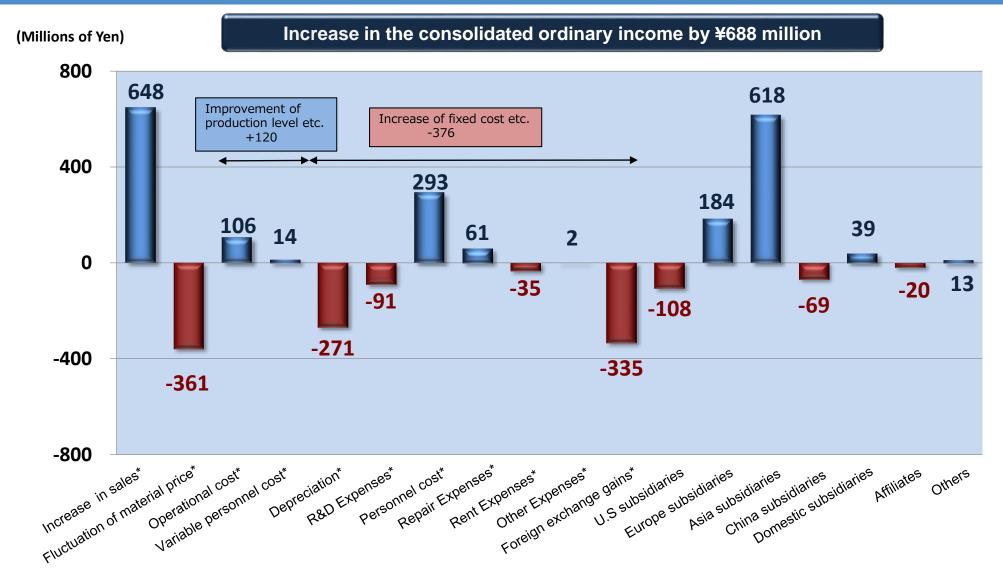


# **Financial Results and Forecast**

(Billions of Yen)

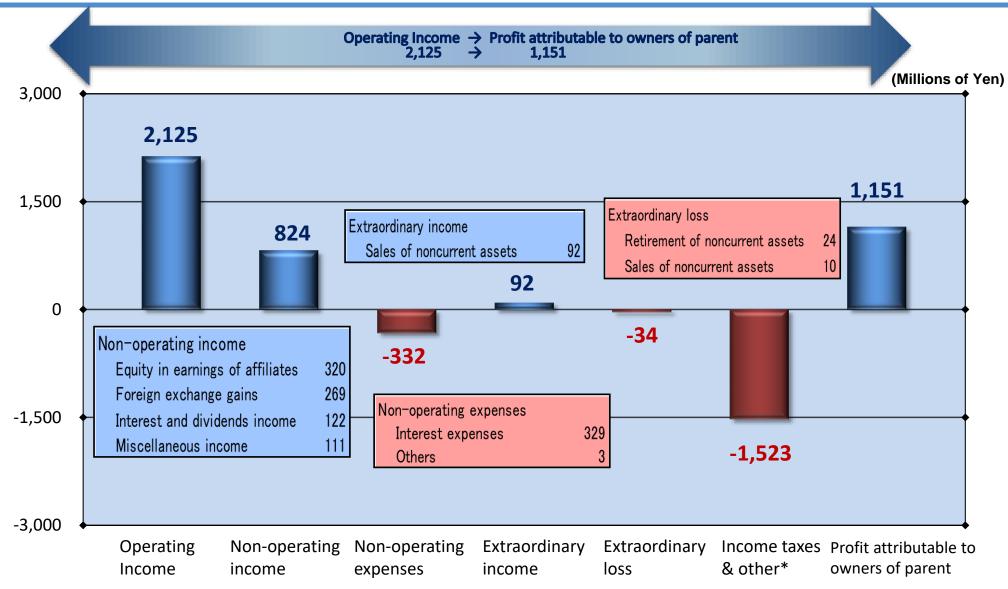
	FY2022				FY2023				Increase, Decrease (-)				
		1st Half Results		FY2022 Results		1st Half Results		FY2023 Forecast		'23/1st Half- '22/1st Half		'23Forecast- '22Results	
		Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%
Net Sales	Consolidated	74.0	100.0	149.4	100.0	80.2	100.0	160.0	100.0	6.2	8.4	10.6	7.1
Net Sales	Non- Consolidated	35.5	100.0	72.8	100.0	37.8	100.0	77.0	100.0	2.3	6.5	4.2	5.8
Operating	Consolidated	0.8	1.1	1.1	0.7	2.1	2.6	3.0	1.9	1.3	158.6	1.9	185.6
Income	Non- Consolidated	0.5	1.5	1.1	1.6	0.9	2.3	1.2	1.6	0.4	70.6	0.1	5.6
Ordinary	Consolidated	1.9	2.6	2.1	1.4	2.6	3.3	3.8	2.4	0.7	35.7	1.7	82.4
Income	Non- Consolidated	3.1	8.9	6.2	8.5	4.7	12.5	7.0	9.1	1.6	50.7	0.8	12.5
Profit attributable to owners of parent	Consolidated	0.3	0.4	(3.6)	-2.4	1.2	1.4	1.2	0.8	0.8	276.2	4.8	_
	Non- Consolidated	2.6	7.4	(1.7)	-2.4	2.0	5.4	2.0	2.6	-0.6	-22.5	3.7	_

# Analysis of Increase Factor of the Consolidated Ordinary Income (FY2023 1st Half vs. FY2022 1st Half)



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#### **Non-operating Income/Expenses** and Extraordinary Income / Loss for 1st Half of FY2023(Consolidated)

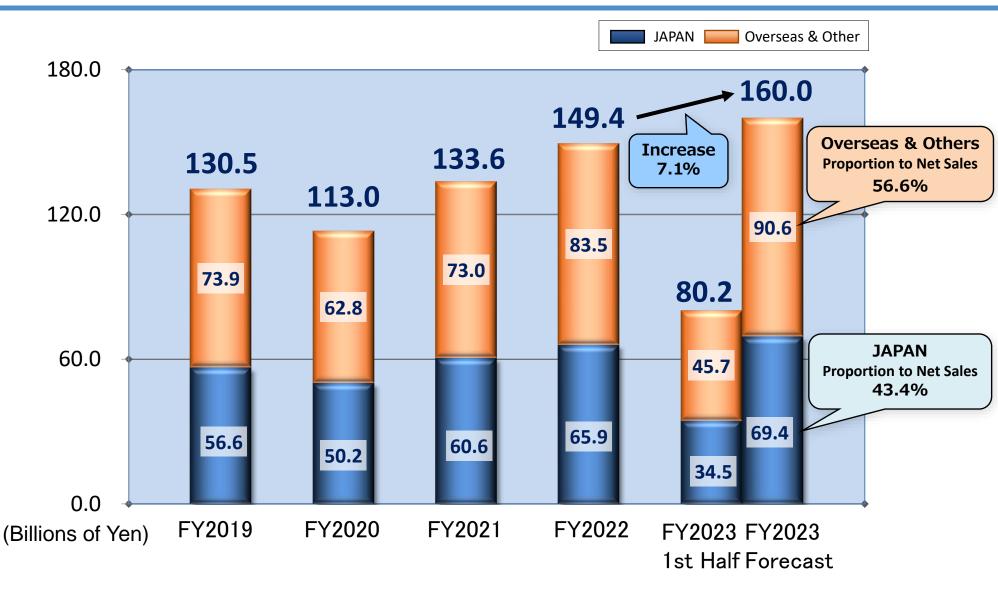


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\* Income taxes & other include Profit attributable to non-controlling interests.

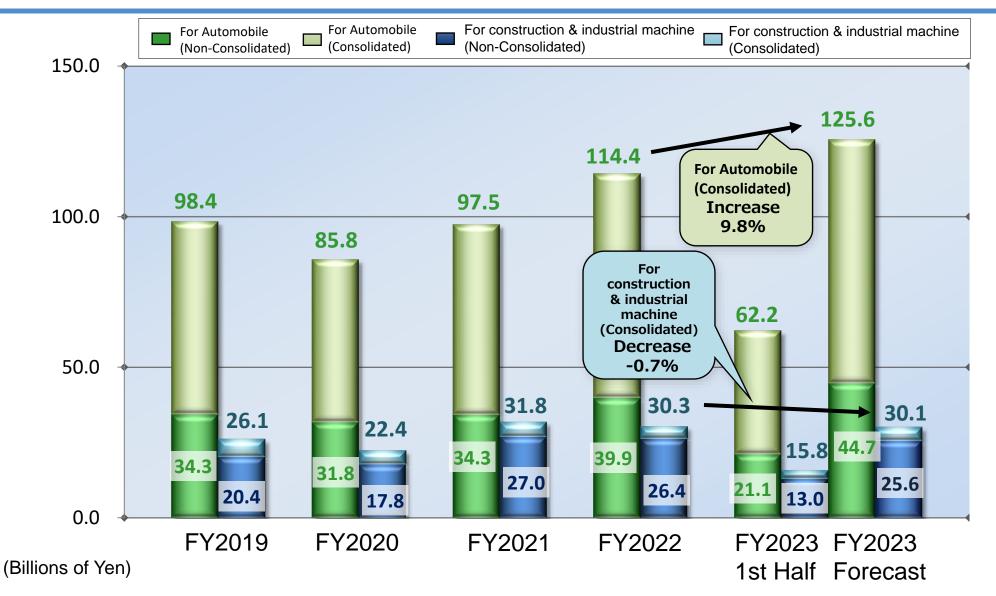


# **Net Sales(Consolidated)**



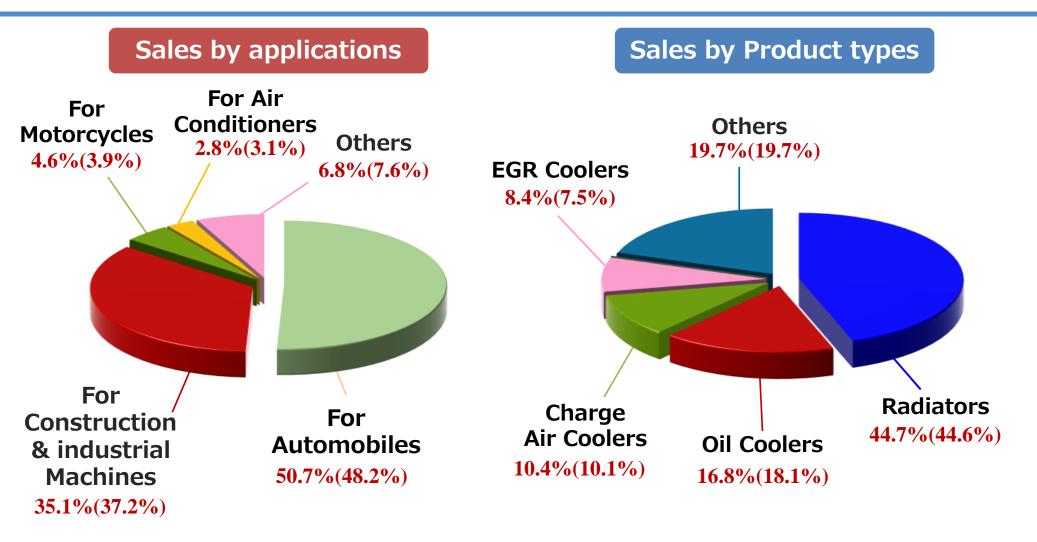


# **Sales by Application**





#### Sales by Applications & Products in 1st Half of FY2023(Non-Consolidated)



### The stability that is not biased to a specific industry or product

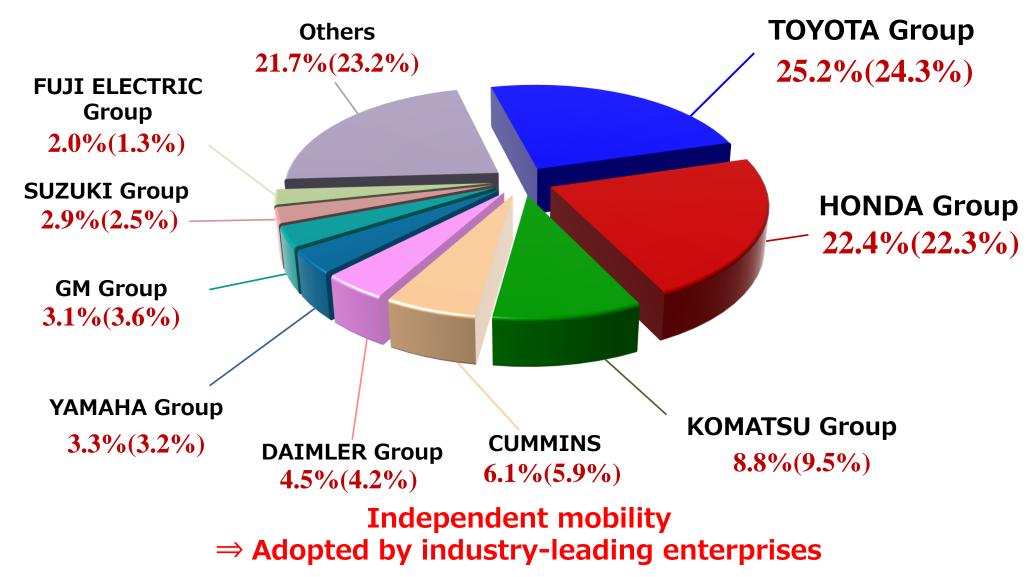
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\*Figures in parentheses are share of sales in the same period of the previous year.



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## Sales by Customer Groups in 1st Half of FY2023(Consolidated)

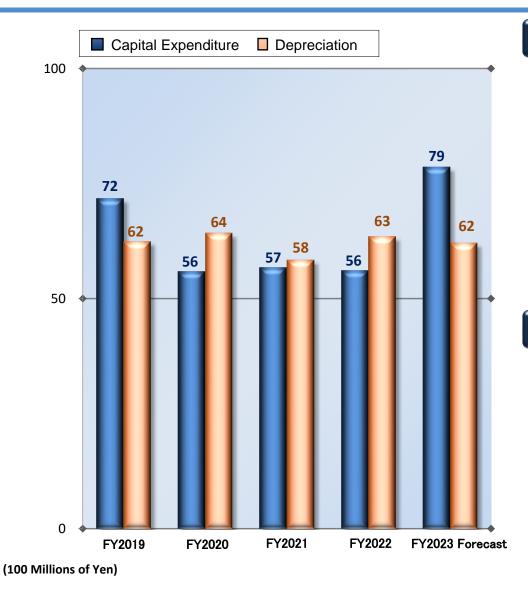


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\*Figures in parentheses are share of sales in the same period of the previous year.



# **Capital Expenditure & Depreciation(Consolidated)**



Capital Expenditure by region (100 millions of Yen)

	FY2	022	FY2023 Forecast			
	Capital Expenditure	Share	Capital Expenditure	Share		
Japan	34.6	61.7%	51.5	65.5%		
North America	4.4	7.8%	10.1	12.9%		
Europe	3.9	7.0%	1.9	2.4%		
China	9.4	16.8%	6.5	8.3%		
Thailand	0.8	1.4%	2.8	3.6%		
Indonesia	2.6	4.7%	4.7	5.9%		
Vietnam	0.4	0.7%	1.2	1.4%		
Total	56.1	100.0%	78.6	100.0%		

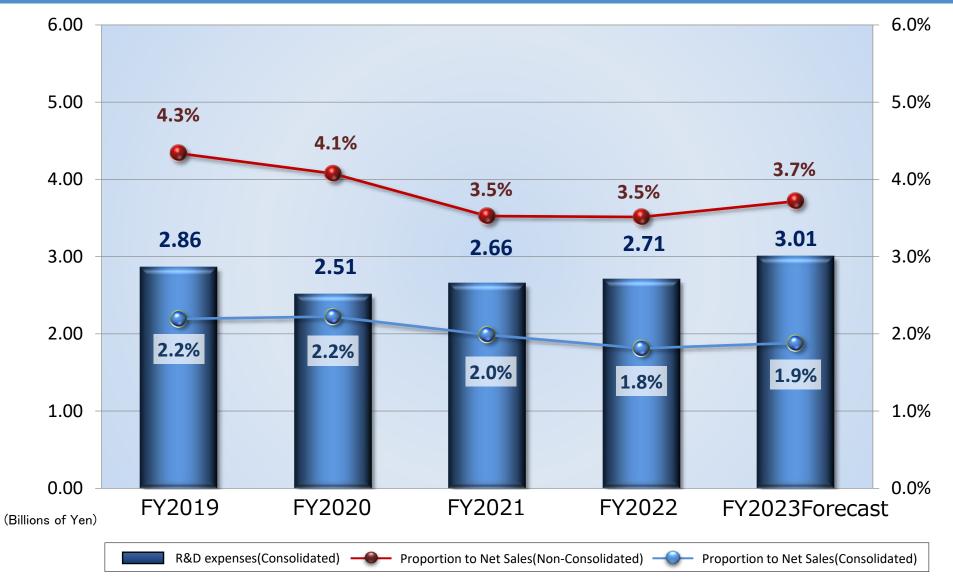
#### Depreciation by region (100 millions of Yen)

	FY2	022	FY2023 Forecast			
	Depreciation	Share	Depreciation	Share		
Japan	28.4	44.7%	34.7	55.9%		
North America	16.7	26.4%	10.0	16.0%		
Europe	1.3	2.1%	1.3	2.2%		
China	9.4	14.8%	8.2	13.3%		
Thailand	3.6	5.7%	3.4	5.5%		
Indonesia	2.7	4.3%	3.0	4.8%		
Vietnam	1.4	2.2%	1.5	2.3%		
Total	63.5	100.0%	62.1	100.0%		

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# **R&D** Expenses



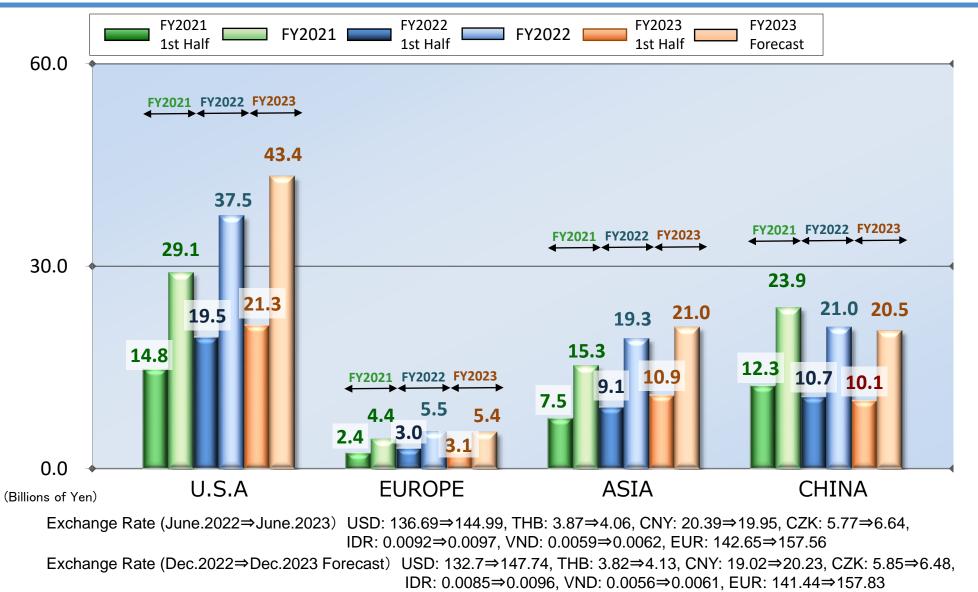


# **Global Network**



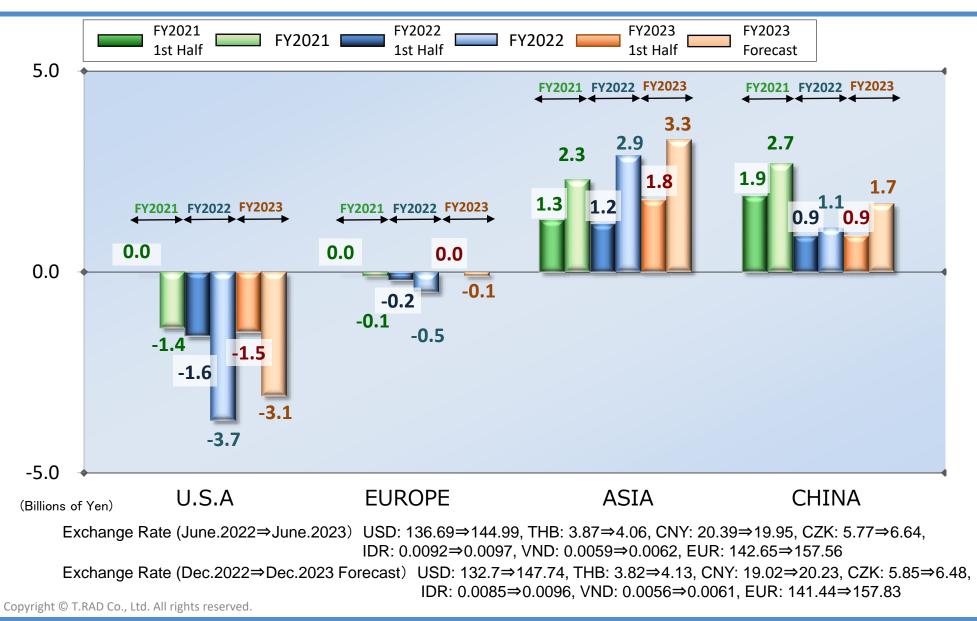


# Sales by Region





# **Operating Income by Region**





(B.111)

# **Financial Results by Region**

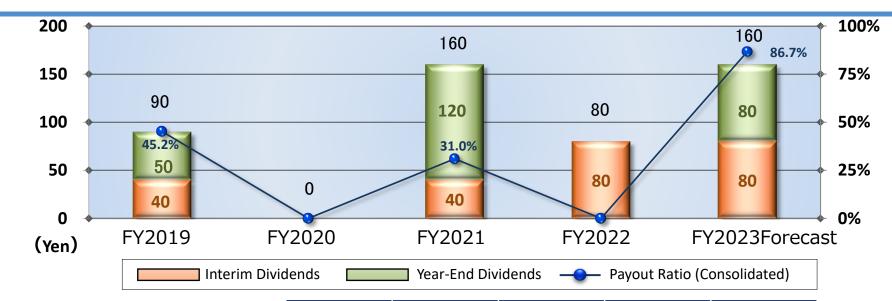
														(Bi	llions o	f Yen)
			F	Y2021				F	Y2022				FY20	23 Fore	ecast	
	Item	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	1Q	2Q	1st Half	2nd Half	Total
	Sales	14.6	13.9	16.0	16.0	60.6	15.1	16.7	17.3	16.9	65.9	16.8	17.8	34.5	34.9	69.4
JAPAN	Operating Income	0.5	-0.3	0.9	0.5	1.5	0.4	0.1	0.5	0.2	1.2	0.3	0.6	0.9	0.4	1.3
	Operating income Ratio (%)	3.2	-2.4	5.7	2.8	2.5	2.6	0.9	2.7	1.1	1.8	1.6	3.7	2.7	1.0	1.8
	Sales	7.4	7.3	6.9	7.4	29.1	8.7	10.8	11.6	6.5	37.5	9.7	11.6	21.3	22.1	43.4
U.S.A	Operating Income	-0.1	0.0	-0.4	-1.0	-1.4	-0.4	-1.2	-1.4	-0.7	-3.7	-0.7	-0.8	-1.5	-1.6	-3.1
	Operating income Ratio (%)	-0.7	0.5	-5.6	-13.5	-4.8	-4.6	-11.3	-12.0	-10.0	-9.8	-7.0	-7.3	-7.2	-7.2	-7.2
	Sales	1.1	1.3	0.9	1.2	4.4	1.2	1.8	1.3	1.2	5.5	1.4	1.7	3.1	2.3	5.4
EUROPE	Operating Income	0.1	-0.0	-0.1	0.0	-0.1	-0.2	0.0	-0.2	-0.1	-0.5	0.1	-0.0	0.0	-0.1	-0.1
	Operating income Ratio (%)	5.0	-2.1	-16.9	1.4	-2.3	-20.8	0.6	-16.7	-7.9	-9.8	5.1	-2.5	0.9	-4.9	-1.5
	Sales	4.0	3.5	3.3	4.6	15.3	4.7	4.4	5.4	4.8	19.3	5.6	5.3	10.9	10.0	21.0
ASIA	Operating Income	0.8	0.5	0.5	0.6	2.3	0.7	0.6	0.9	0.9	2.9	1.0	0.8	1.8	1.5	3.3
	Operating income Ratio (%)	18.8	15.1	13.9	12.5	15.0	14.6	12.6	16.0	17.7	15.3	17.0	15.1	16.1	15.0	15.6
	Sales	5.7	6.7	5.2	6.3	23.9	5.9	4.8	6.8	3.5	21.0	5.0	5.2	10.1	10.3	20.5
CHINA	Operating Income	0.9	0.9	0.3	0.5	2.7	0.6	0.3	-0.0	0.3	1.1	0.4	0.4	0.9	0.8	1.7
	Operating income Ratio (%)	16.4	14.0	6.1	8.2	11.3	10.0	5.9	-0.4	7.4	5.3	8.7	8.5	8.6	7.6	8.1
	Sales	0.0	0.1	0.1	0.1	0.3	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.2
OTHER	Operating Income	0.1	0.0	-0.1	-0.1	-0.0	-0.0	0.0	0.2	-0.2	0.0	0.0	0.1	0.1	-0.1	0.0
	Operating income Ratio (%)	155.3	67.7	-91.0	-54.5	-3.3	-55.3	75.4	223.9	-261.9	8.2	33.8	64.6	50.0	-74.7	1.6
	Sales	32.9	32.7	32.3	35.7	133.6	35.6	38.5	42.3	33.0	149.4	38.6	41.7	80.2	79.8	160.0
TOTAL	Operating Income	2.2	1.2	1.1	0.5	5.0	1.0	-0.2	-0.1	0.4	1.1	1.1	1.1	2.1	0.9	3.0
	Operating income Ratio (%)	6.8	3.6	3.4	1.4	3.8	2.8	-0.5	-0.3	1.1	0.7	2.8	2.5	2.6	1.1	1.9



# Reference Materials



# **Dividends Per Share**

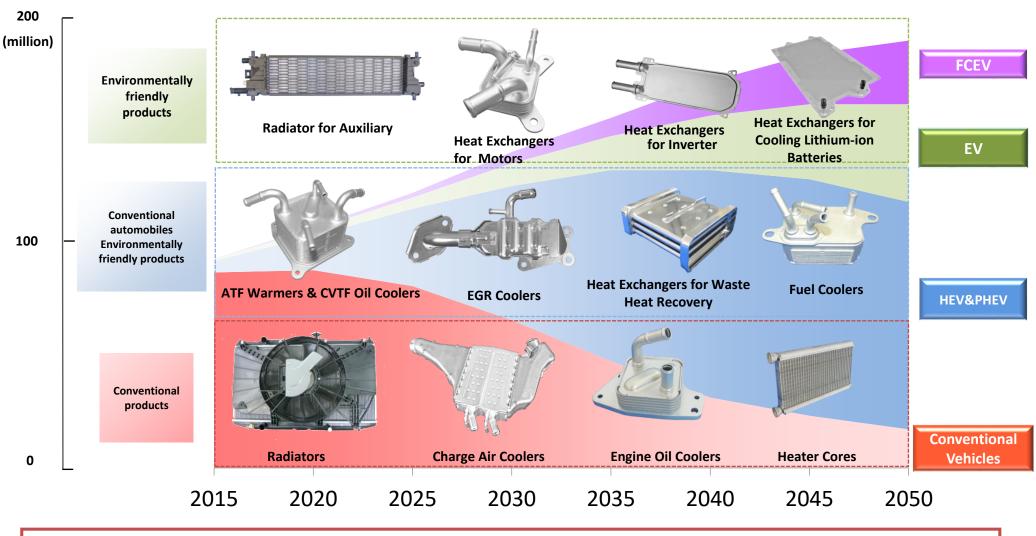


	FY2019	FY2020	FY2021	FY2022	FY2023 Forecast
Dividends Per Share(Yen)	90	-	160	80	160
(Year-End Dividends)(Yen)	50	-	120	0	80
(Interim Dividends) (Yen)	40	-	40	80	80
Payout Ratio(Consolidated)	45.2%	-%	31.0%	-%	86.7%
1)Purchase of Treasury Stock (Millions of Yen)	1,356	0	2,160	67	0
2)Total dividends amount (Millions of Yen)	647	0	1,066	523	1,041
1) + 2) Total Shareholder Return Amount (Millions of Yen)	2,004	0	3,226	590	1,041
Total Shareholder Return Ratio(Consolidated)	139.6%	-%	89.6%	-%	86.7%
PBR	0.2	0.4	0.4	0.4	-
ROE	3.3%	<b>▲3.0%</b>	8.4%	<b>▲8.3%</b>	2.8%

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# **Automobile Components**



Development of exchangers corresponding to the change of the markets and customers' needs



# **Automobile Components**

Name	Function
Radiators	To cool cooling water increased in temperature by the engine.
Charge Air Coolers	To cool intake air increased in temperature by being pressurized by a supercharger such as a turbocharger.
Engine Oil Coolers	To cool engine oil increased in temperature by the engine
Heater Cores	To heat indoors by allowing a part of cool cooling water increased in temperature to flow.
ATF Warmers & CVTF Oil Coolers	To heat lubricants for AT and CVT during warming-up and cool down at high temperatures.
EGR Coolers	To cool high-temperature exhaust gas when re-circulating a part of exhaust gas.
Heat Exchangers for Waste Heat Recovery	To recover heat within exhaust gas in HEV and reuse for heating and quick warming of the engine.
Fuel Coolers	To cool fuel increased in temperature by being pressurized by the fuel injection pump.
Radiator for Auxiliary	To cool cooling water increased in temperature by the heat exchanger for auxiliary equipment such as an inverter.
Heat Exchangers for Motors	To cool circulating oil for cooling the motor.
Heat Exchangers for Inverter	To cool inverters used in HEV and EV.
Heat Exchangers for Cooling Lithium-ion Batteries	To cool lithium ion batteries used in HEV and EV.