FY2017 Financial Results Briefing

May 17, 2018



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Financial Results Highlights in FY2017

Net sales

- 1. Net sales grew positively, increasing by 13.2% over previous year, to total 108,500 million yen.
- •Sales remained strong in the automotive and smartphone markets.
- •Sales of HDI PCBs substantially increased.

Profit

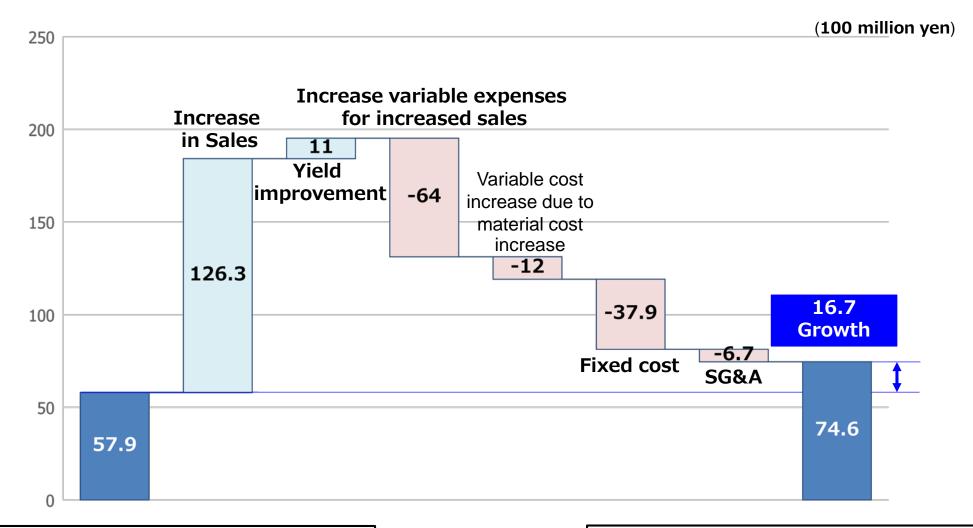
- 1. Operating income amounted to 7,460 million yen, up 1,670 million yen over previous year.
- 2. Ordinary income totaled 4,800 million yen, up 1,820 million yen over previous year.
- 3. Net income to owners of parent company amounted to 4,370 million yen, up 2,600 million yen over previous year.

FY2017 Consolidated Business Performance (100 million yen)

	FY2016	FY2017	Year-on-year	
	performance	performance	Increase	%
Net sales	959.1	1,085.4	126.3	13.2%
Operating income	57.9	74.6	16.7	28.8%
	6.0%	6.9%		
Ordinary income	29.8	48.0	18.2	61.1%
	3.1%	4.4%		
Net income	17.7	43.7	26.6	146.9%
	1.8%	4.0%		
Average Exchange rate (Yen/USD)	108.69	110.66		
Interest-bearing debt	527	513	▲14	
Capital adequacy ratio	27.3%	29.9%	+2.6%	
R O E	6.3%	13.2%	+6.9%	



Analysis of operating profit change FY2016→FY2017



FY2016 performance (Exchange rate 108.69yen/us\$)

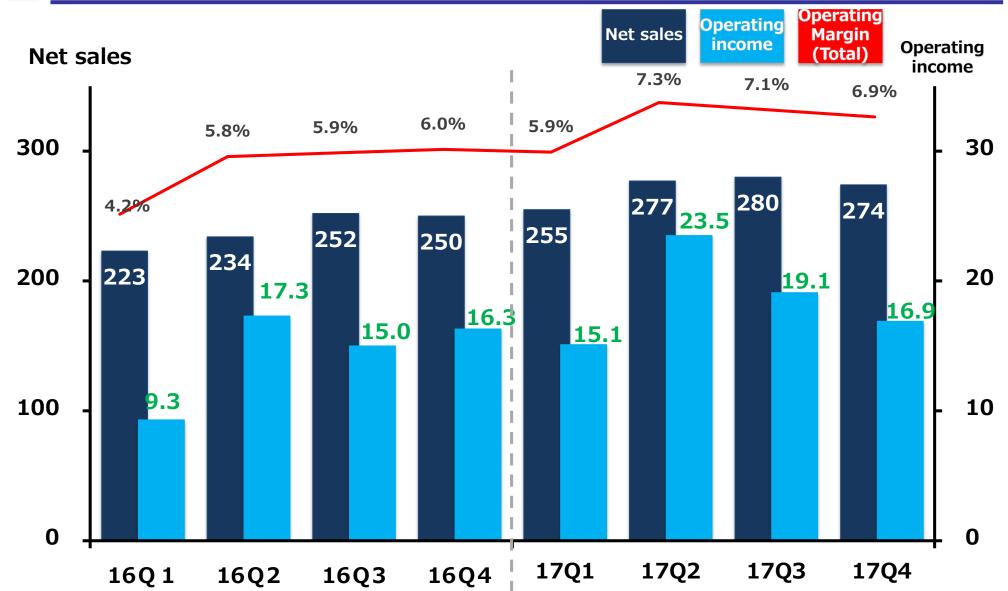
FY2017 performance (Exchange rate110.66yen/us\$)





Net sales , Operating income

(100 million yen)

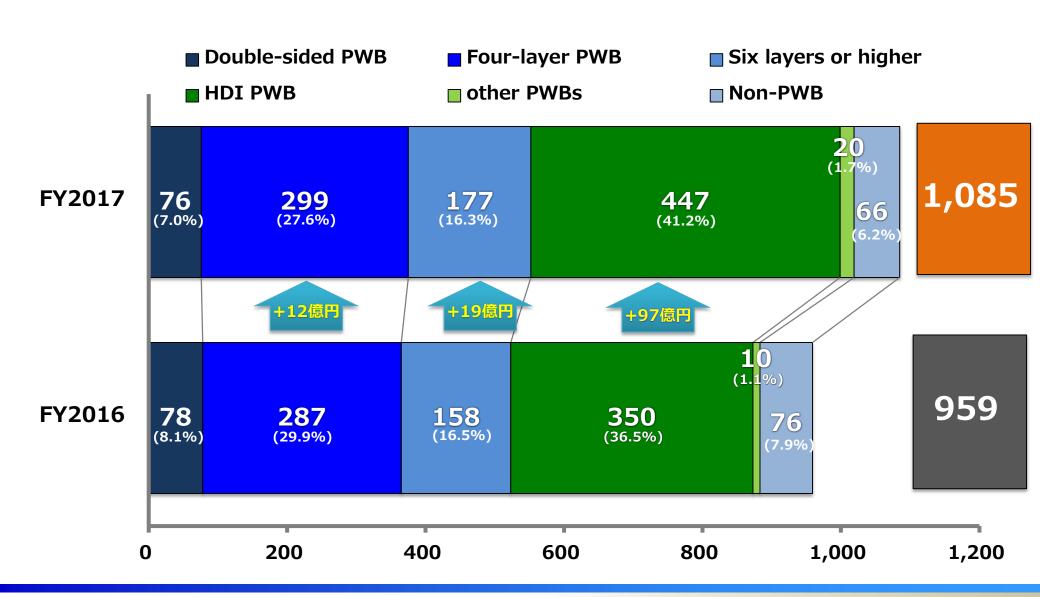






	FY2016		FY2017		Difference	
	Sales	Operating income	Sales	Operating income	Sales	Operating i n c o m e
		%		%	%	%
Automotive	437.0	31.0	482.8	37.2	45.8	6.2
		7.1%		7.7%	10.5%	20.0%
Smartphones	253.5	19.0	331.2	27.5	77.7	8.5
		7.5%		8.3%	30.7%	44.7%
Others	268.6	7.9	271.4	9.9	2.8	2.0
		2.9%		3.6%	1.0%	25.3%
Total	959.1	57.9	1,085.4	74.6	126.3	16.7
		6.0%		6.9%	13.2%	28.8%





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Future Outlook

Overall

- •Sales will remain strong in both automotive and smartphone markets.
- •We will focus on HDI PCBs in the new applications.
- •We will focus on flexible PCBs and module mounting(EMS).

Investments

- •Build third factory in Vietnam.
- •Increase Japan domestic investment.
- •Invest in labor saving.



Consolidated financial prospect for FY2018

(100million yen)

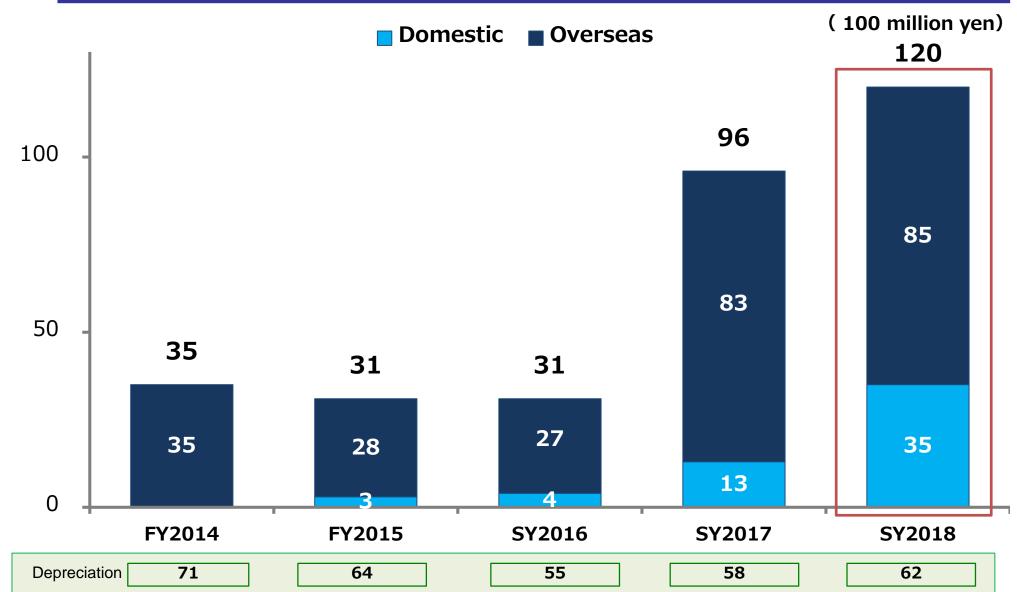
	FV2017	EV2010	Difference		
	FY2017	FY2018	increase	%	
Net Sales	1,085.4	1,180	94.6	8.7%	
Operating i n c o m e	74.6	82	7.4	9.9%	
	6.9%	6.9%			
Ordinary	48.0	68	20.0	41.7%	
i n c o m e	4.4%	5.8%			
N e t	43.7	60	16.3	37.3%	
income	4.0%	5.1%			
Exchange rate (Yen/USD)	110.66	106			



FY2018 Full-year forecast

	FY2017		FY2018		Difference	
	Sales	Operating income	Sales	Operating income	Sales	Operating i n c o m e
		%		%	%	%
Automotive	482.8	37.2	511.4	38.9	28.6	1.7
		7.7%		7.6%	5.9%	4.6%
Smartphones	323.8	27.0	357.0	32.1	25.8	4.6
		8.3%		9.0%	7.8%	16.7%
Others 278.8	10.6	311.6	11	40.2	1.1	
		3.8%		3.5%	14.8%	11.1%
Total	1,085.4	74.6	1,180.0	82	94.6	7.4
		6.9%		6.9%	8.7%	9.9%

2018 Investments



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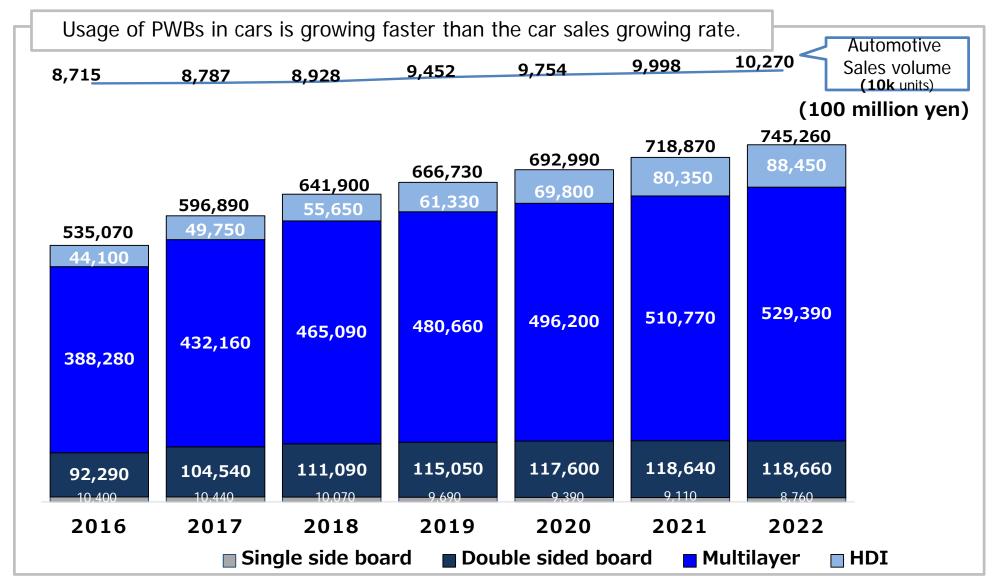
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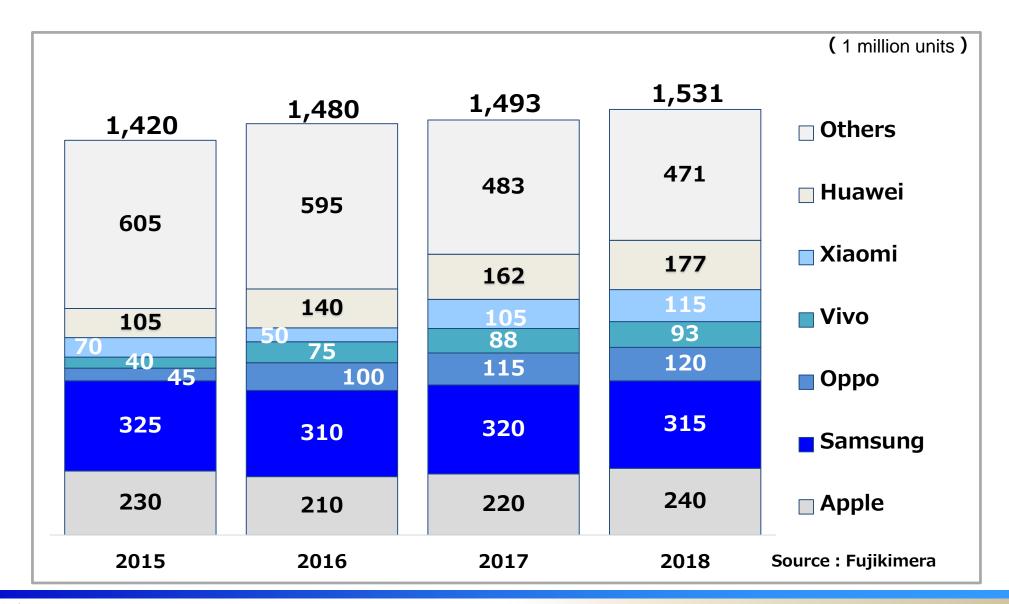
Industry trends -Automobile-







Industry trends -smartphone-



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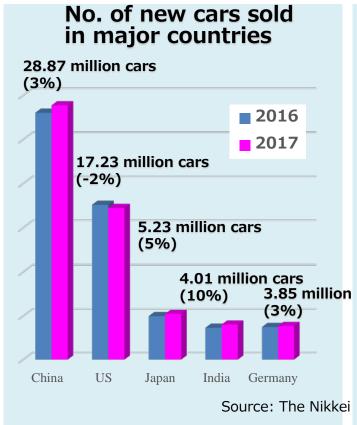
Industry trends

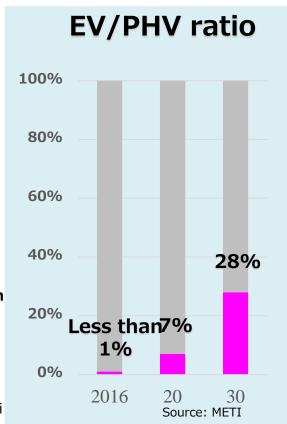
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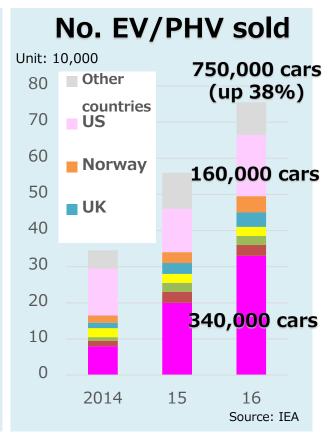




Automotive Market Trend



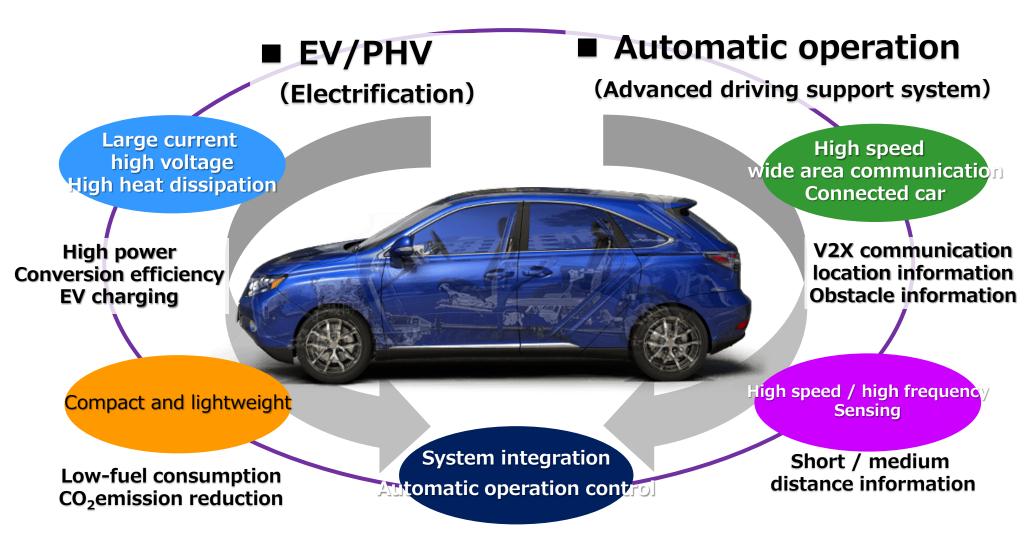




- As for the number of new cars sold, we can see sales of cars increase in China, and growth rate rise in India.
- ■EV/PHV ratio will grow considerably from 2020 onward, and we will see the number of EV/PHV sold increase significantly in China.
- Overseas production of EV/PHV will expand, and the demand of printed-wiring boards for EV/PHV will become larger.



PWB for EV/PHV · Automatic operation

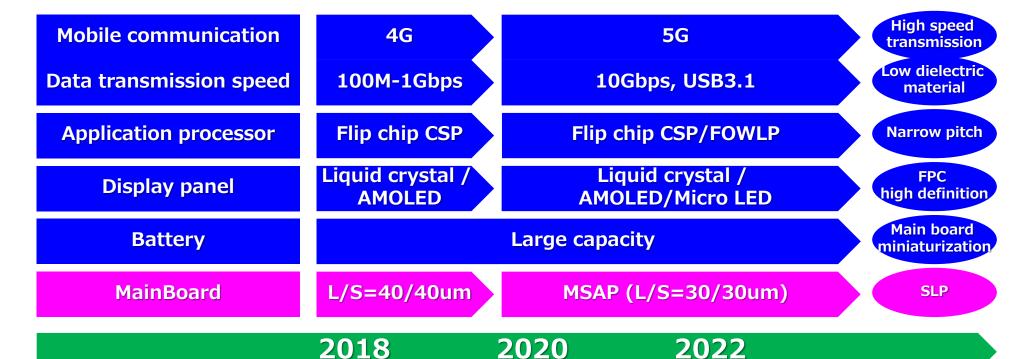


High function · High performance PWB

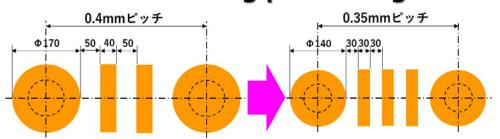
Automotive Technology Trend

communication	Communication module	High density module substrate	Evaluation		
Information	Narrow pitch IC	Multi-Layer HDI	Trial		
Body	LED lighting	Metal base heat dissipation board	Mass production		
Dody	Power IC	Copper inlay heat dissipation board	Trial		
Power	Heat dissipation	Thick copper substrate	Trial		
train	Power IC	Component built-in board	gevelopment		
	High speed Transmission lines	Impedance control board	Trial		
Driving safety	High frequency support	Millimeter wave radar board	Trial		
	High function	ADAS camera substrate	Evaluation		
	Autonomous-driving	Stack via substrate	Evaluation		
Automotive technology Substrate technology		2018	2021	202X	

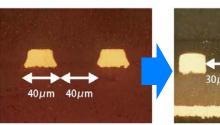
Smartphone mainboard technology roadmap

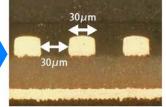


■ MainIC Mounting part wiring rule



■ MSAP Wiring formation





 $L/S = 40 \mu m / 40 \mu m$

 $L/S=30 \mu m/30 \mu m (MSAP)$





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