# FY2012 2<sup>nd</sup> Quarter Financial Results ended September 30, 2011

October 28, 2011

DENSO CORPORATION

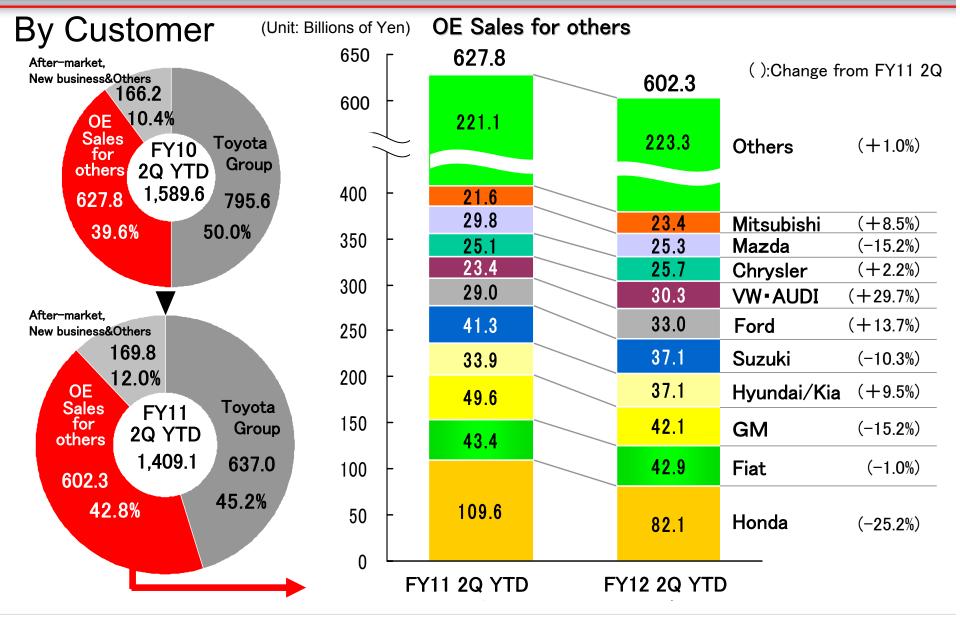


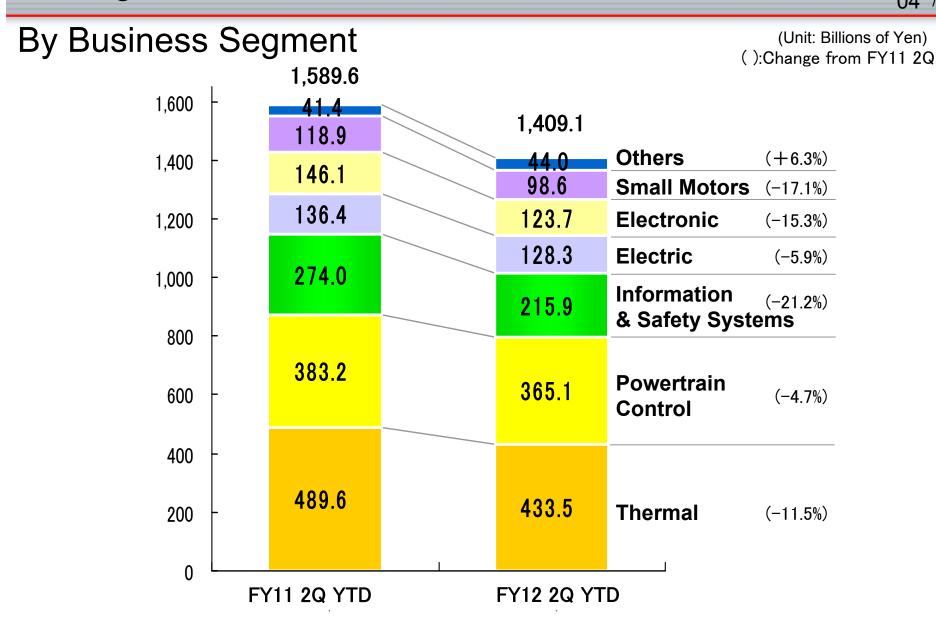
1. Sales and Income decreased from previous year

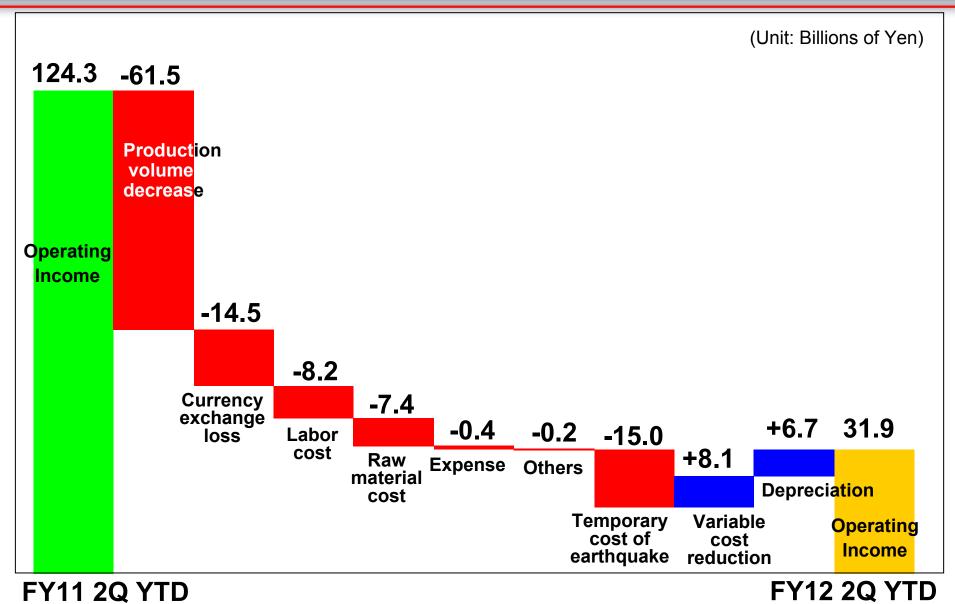
2. Revision of FY2012 forecast

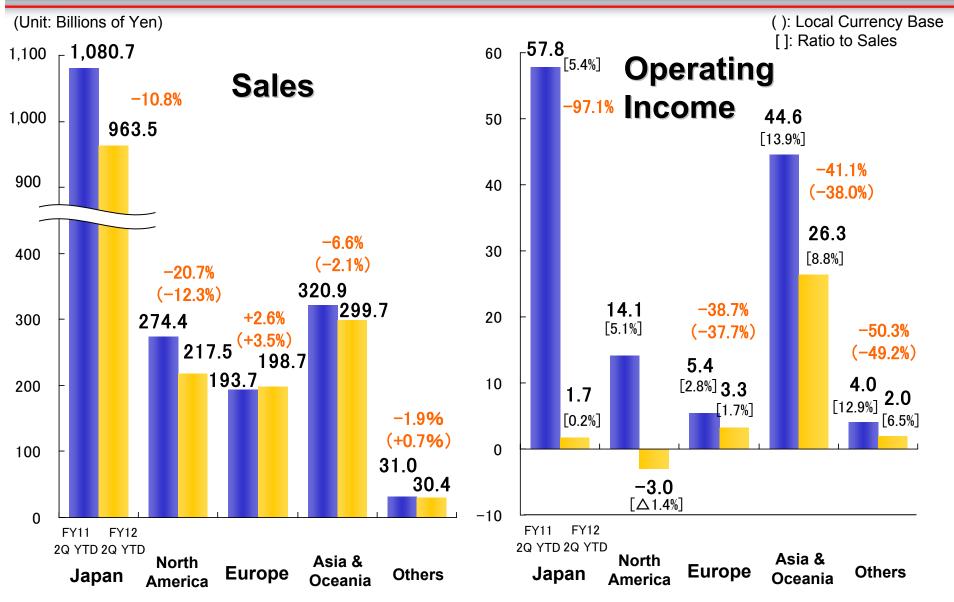
3. Dividends increased for 1 yen to 23 yen for the first half period (46 yen for the year)

(Ratio to Sales) (Unit: Billions of Yen)												
	FY2012 Forecast as of July. 30	FY12 2Q YTD	FY11 2Q YTD	Chai	nge							
Sales	1,420.0	1,409.1	1,589.6	-180.4	-11.4%							
Operating Income	(0.7%) <b>10.0</b>	(2.3%) 31.9	(7.8%) 124.3	-92.4	-74.4%							
Income before Income Taxes	(1.1%) <b>15.0</b>	(2.8%) 39.3	(8.7%) 138.0	-98.7	-71.5%							
Net Income	(0.6%) 9.0	(1.7%) 23.3	(5.9%) 93.7	-70.4	-75.2%							
				(Unit: Millio	ons of Units)							
Foreign Exchange Rate	JPY 81/\$ JPY116/Euro			-JPY 9								
Domestic Car Production	3.81	3.91	4.78	-0.87	-18.2%							
Overseas Car Production of Japanese Manufacturers (North America)	<b>6.18</b> (1.54)	<b>6.69</b> (1.54)	<b>6.42</b> (1.94)	<b>+0.27</b> (-0.40)	<b>+4.2%</b> (-20.6%)							

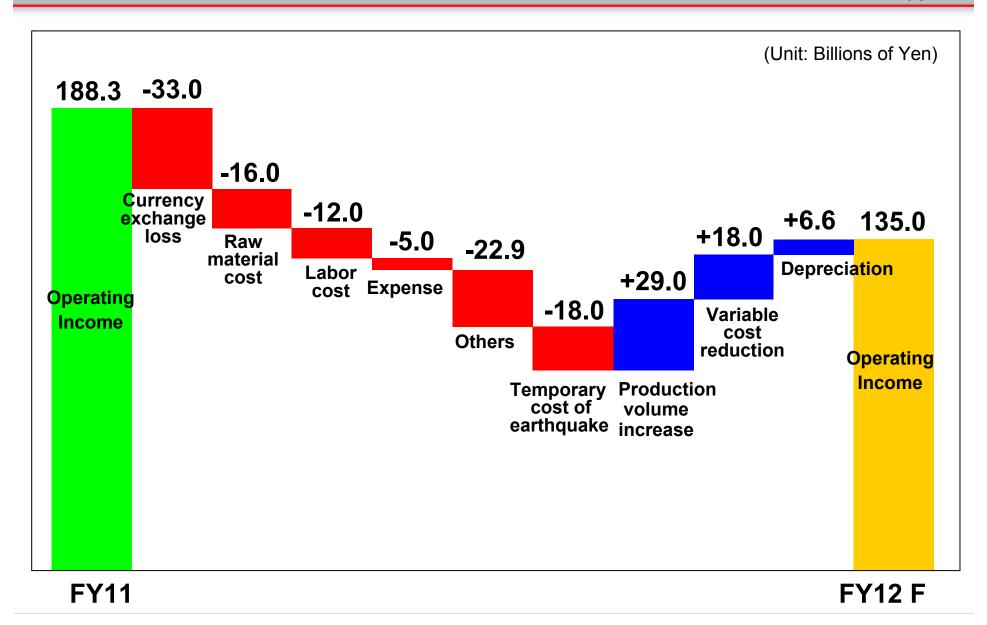


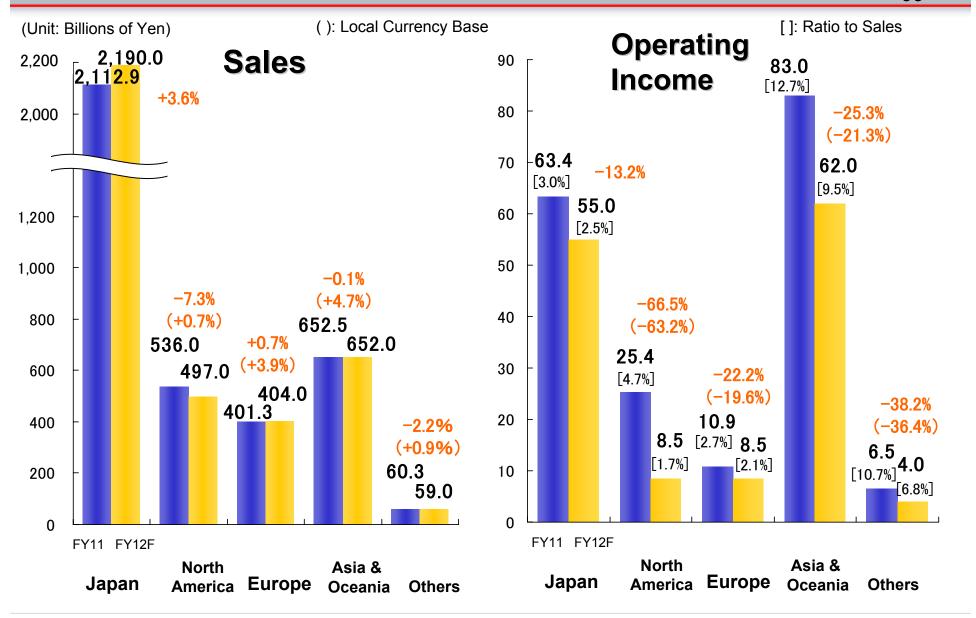






(Ratio to Sales) (Unit: Billions of Yen)											
	FY2012 Forecast as of Aug.1	FY2012 Revised	FY2011	Cha	nge						
Sales	3,170.0	3,160.0	3,131.5	+28.5	+0.9%						
Operating Income	(4.3%) <b>135.0</b>	(4.3%) 135.0	(6.0%) 188.3	-53.3	-28.3%						
Income before Income Taxes	(4.6%) <b>145.0</b>	(4.6%) 145.0	(6.8%) 211.7	-66.7	-31.5%						
Net Income	(3.1%) <b>98.0</b>	(3.1%) 98.0	(4.6%) 143.0	-45.1	-31.5%						
				(Unit: Milli	ons of Units)						
Foreign Exchange Rate	JPY 81/\$ JPY113/Euro	JPY 79/\$ JPY110/Euro	JPY 86/\$ JPY113/Euro	-JPY7 -JPY3							
Domestic Car Production	9.25	9.35	8.99	+0.36	+4.0%						
Overseas Car Production of Japanese Manufacturers (North America)	<b>14.26</b> (3.94)	<b>15.19</b> (3.90)	13.45 (3.96)	<b>+1.74</b> (-0.06)	+12.9% (-1.5%)						





## **Mid-term Profit Recovery Activities**



## Our Approach for Future Growth: Strengthen business, cost and management

**Business** 

- Technology innovations for fuel efficiency/CO2 reduction
- Strengthening of regional competitiveness

Cost

- Low-cost technology
- Value-added improvement

Management

- Management to maximize group capability
- Challenge mind-set

## Technology Innovations for Fuel Efficiency/CO2 Reduction

## **Smaller**

Fuel-efficient Compact Car
Smaller and Lighter Components

## **Electrification**

Hybrid Electric Vehicle

## System Approach

Fuel Saving through System Collaboration

- Higher Output Internal Combustion Engine
  - Gasoline Direct injection
  - Common Rail System

**Example** 

- ➤ Stop / Start System
  - Improve Starter's Starting Efficiency and DurabilityExample
- Smaller and Lighter Hybrid Components
  - Improvement of smaller Inverter

Example

- Energy Management Systems
- Heat Energy and Electric Management

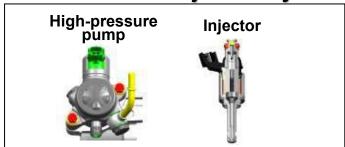
## 1. Higher Output Internal Combustion Engine - Gasoline Direct injection -

fuel

consumption

improvement

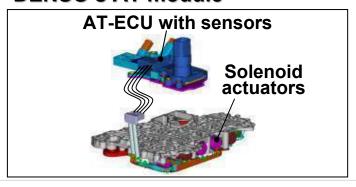
#### **DENSO's Direct Injection System (Third Generation)**



#### **DENSO's Electric VCT**



#### **DENSO's AT module**



fuel consumption improvement

#### Mazda's New-**Generation Technology**

#### **SKYACTIV-G**

**New Direct Injection Engine** 



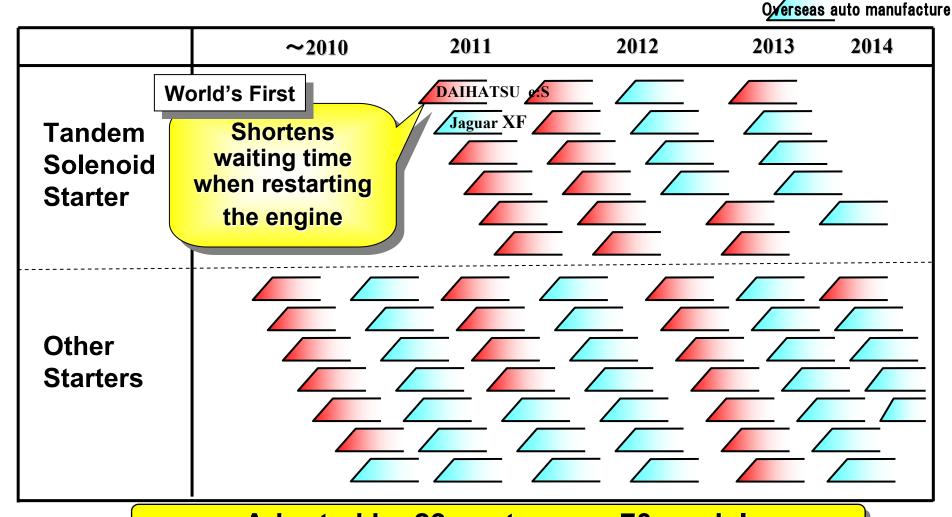
**SKYACTIV-Drive** 

**New Transmission** 

## **Starters for Stop/Start System Sales Development**

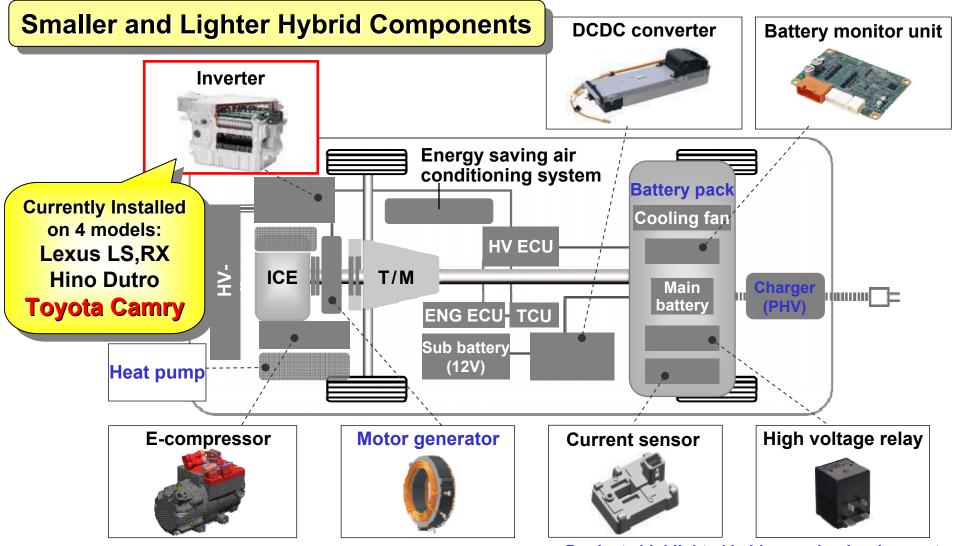
Index: models

Japanese auto manufacture



Adopted by 23 customers, 70 models





Products highlighted in blue: under development

Satisfy various system needs as a system supplier



## **Establishment of Low-cost Technology**

#### Idea of product development

Review of all processes from the design to production Establishment of low-cost technology as a new technical field

#### **Activities for Cost-half product**

1. Optimum function	2. Optimum quality	3. Optimum production	4. Promotion of localization
- To narrow the function and performance through benchmark activities.	- To loosen quality /performance standard to meet market demand	- Optimum design for local process	<ul><li>Local material, die and mold, equipment</li><li>To utilize existing equipment</li></ul>



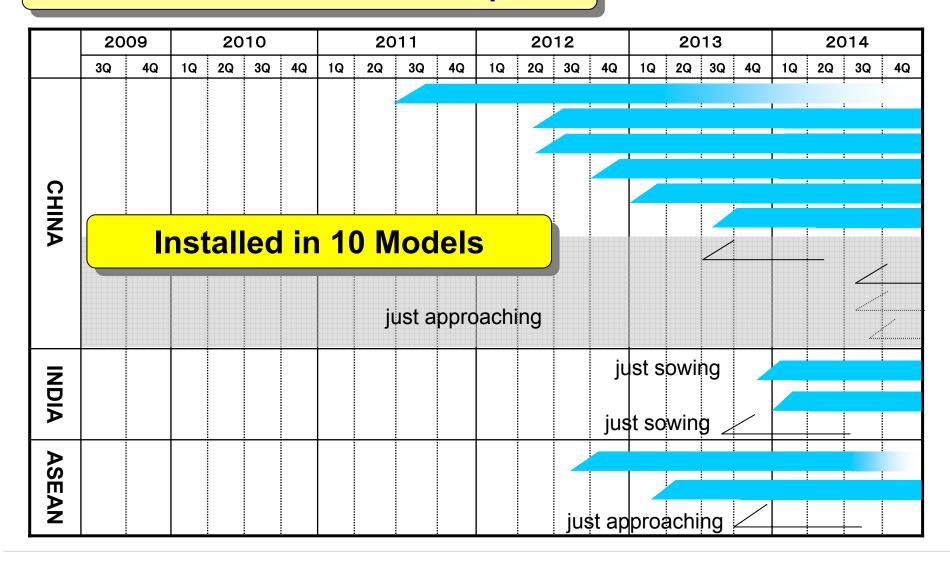
Improve profitability by competitive product technology

## **Cost-half Product (23 products)**

Business Groups	Products	Business Groups	Products	
Power-train Control Systems	Fuel Injector	Thermal Systems Business Group	Passenger Vehicle Air-conditioning System	
Business Group	Ignition coil		Compressors	
	Oxygen Sensor		Radiator	
	Electronic throttle body sensor		Electric Fan	
	Fuel pump module	Electronic Systems Business Group	Engine Electronic Control Units	
	VCT (Variable Cam Timing) OCV(Oil flow control valve)	ASMO	Windshield Wiper System	
	Supply Pump		Power Window Regulator Motor	
Electric Systems Business Group	Alternators	TOYOTA BOSHOKU	Air cleaners	
	Starters		Oil Filter	
Information & Safety Systems	Instrument Clusters	ANDEN	Relays	
Safety Systems Business Group	Car Navigation System	HAMANAKO DENSO	Horn	
	Airbag Sensors & Electronic Control Units			



## **Low-cost Products Sales Development**



## **Strengthening of Regional Competitiveness**

(1) Business expansion in emerging country

Expansion of regional technical center

China

25 manufacturing companies

India

5 manufacturing companies

#### **Technical center in China**

Location: Shanghai, China

Establishment: May 2010

Total floor 4,700 m

area:

Employees: 360 (projected for 2015)

#### **Technical center in India**

Location: Gurgaon, India

Establishment: Late 2011

Investment: Approximately 3

billion yen

Total floor 5,040 m2

area:

**Employees:** Approximately 70

(projected for 2015)

#### **Technical center in Brazil**

Location: Santa Bárbara d´Oeste City,

**Brazil** 

(on the site of DNBR's new plant)

Establishment: Early 2012

Investment: Approximately 4 billion yen

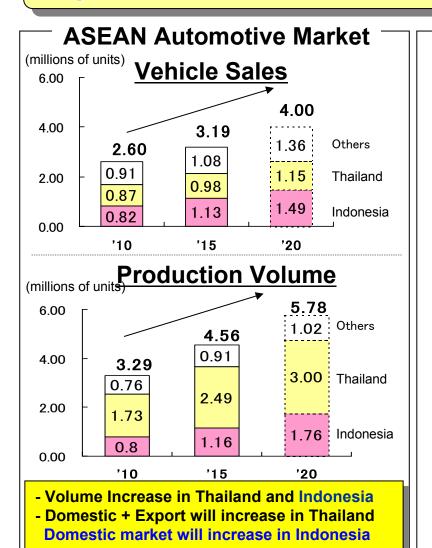
Total floor 8,000 square meters area: (when established)

Employees: Approximately 100

(projected for 2015)



## **Expansion of Indonesia business**



#### **DENSO Strategy in ASEAN**

Reconstruction supply system to demand expansion and localization in Indonesia, and promote sales expansion

#### Supply System:

Complement components to each other and Concentrate production in Thailand



Expand product item in Indonesia, increasing market

→Thailand and Indonesia are two major production bases





## **Strengthening of regional competitiveness**

(2) " Monozukuri " in Japan

#### Competitiveness to deliver advanced products globally

 Develop high value-added products timely, and continue to provide them globally.

#### Competitiveness to resist imports pressure

- Develop leading-edge production technologies, and introduce them into domestic operations



Continue research and development of advanced technologies in Japan

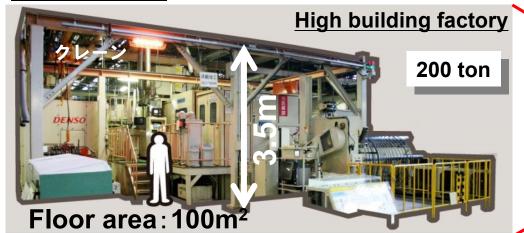
Enhance competitiveness of whole supply chain

**Build the outstanding factory to survive in Japan** 

## Outstanding "Monozukuri"

Develop low-cost compact 1/N machines to enhance productivity

Conventional Large-sized forging machine



New Compact forging machine
Ordinary factory
30 ton

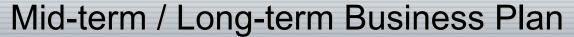
Floor area. 16m<sup>2</sup>

Floor area 1/6

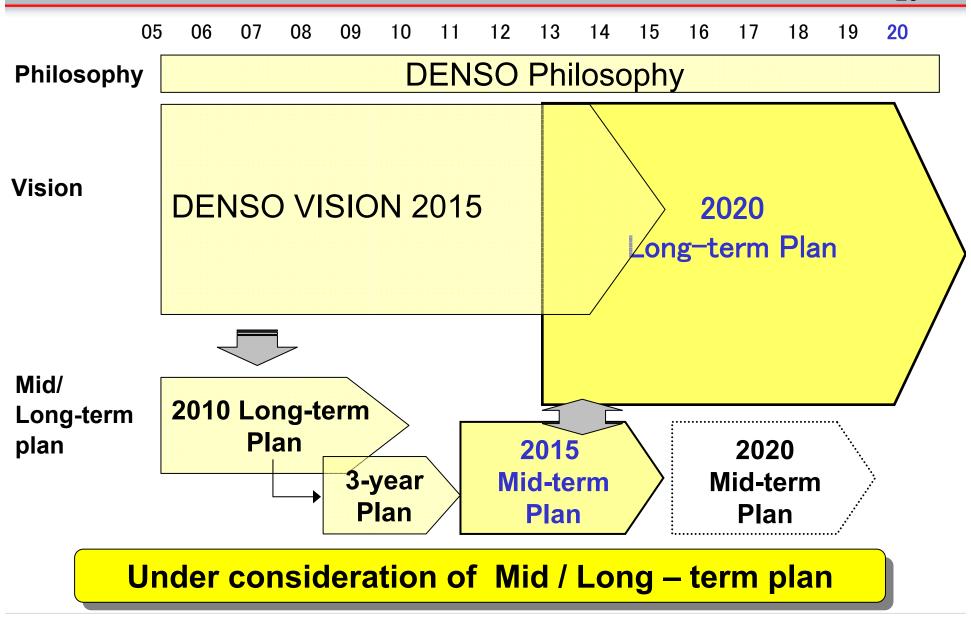
Investment 1/3

Production cost 30% cut

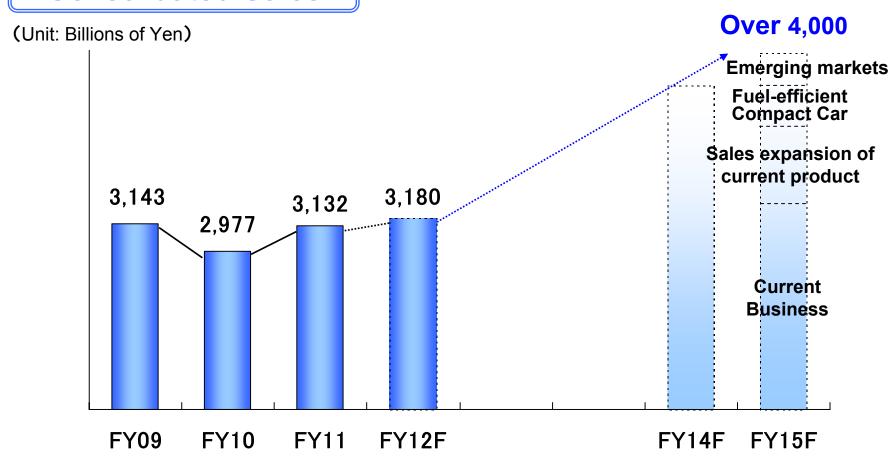
- **♦** Improve productivity of whole supply chain
  - Improve logistics of procurement and delivery
  - Introduce new technologies to suppliers



23 / 25



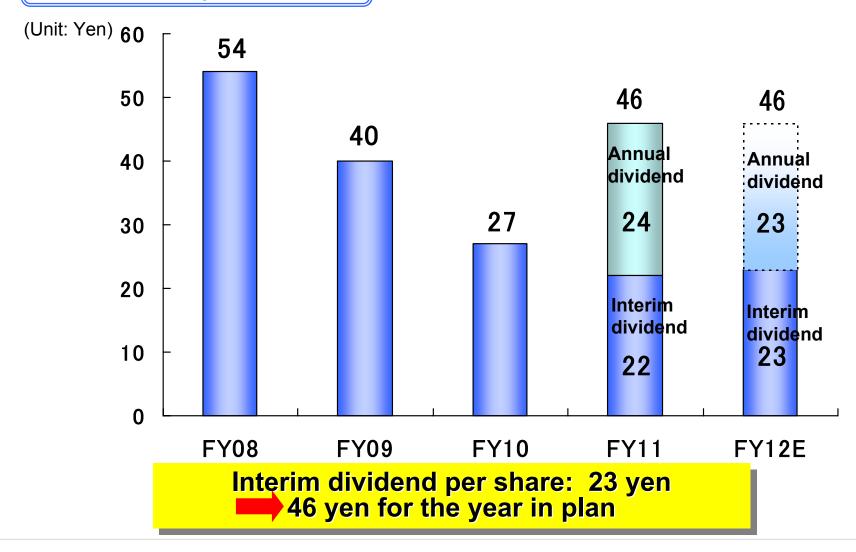
## **Consolidated Sales**



Sales target by FY2015 - Over 4,000 billion yen



## Dividends per Share



## **DENSO**

## **Appendix**

- Non-Consolidated Financial Results
- Pre-Conditions (Foreign Exchange Rate/Car Production)
- Consolidated Sales by Customer
- Consolidated Sales by Business Segment
- Capital Expenditures, Depreciation and R&D



## Overview of FY2011 2<sup>nd</sup> Quarter Financial Results

#### **Income Statements**

(Ratio to Sales)

(Unit:Billions of Yen,%)

Account	FY2011 2Q YTD		FY2010 2Q YTD		Change		FY2011 Forecast					Change from FY10	
Account	FIZUITZ	עווע	1 12010 20 110		Amount	Percent	Forecast as of Aug.1		1 Forecast as of Oct.		of Oct. 28	Amount	Percent
Net Sales	( 100.0 )	886.0	( 100.0 )	997.5	-111.5	-11.2	( 100	0 ) 1,990.0	(	100.0 )	2,020.0	74.3	3.8
Cost of Sales	( 93.7)	829.8	( 89.0 )	887.8	-57.9								
SGA Expenses	( 6.7)	59.6	( 6.8)	68.3	-8.7								
Operating Income	( -0.4 )	-3.4	( 4.2)	41.4	-44.8	-	( 1	3) 25.0	(	1.4 )	29.0	-6.8	-19.0
Non-Operating Income		40.7		36.7	4.0			50.0			54.0	-2.5	
Extraordinary Income (Loss)		-0.0		-0.0	0.0			-0.0			-0.0	0.0	
Income Before Income Taxes	( 4.2)	37.3	( 7.8)	78.1	-40.9	-52.3	( 3	8) 75.0	(	4.1 )	83.0	-9.3	-10.1
Net Income	( 4.2)	37.2	( 5.8)	57.8	-20.6	-35.7	( 3	3) 66.0	(	3.6 )	72.0	-0.8	-1.1



## Pre-Conditions (Foreign Exchange Rate/Car Production)

							ı					FY2012 Full Year						
			FY	2012 First-	Half			FY20	12 Second	d-Half								
		Prior Year	Forecast as of Apr.28	Forecast as of Aug.1	Actual	Change	Prior Year	Forecast as of Apr.28	Forecast as of Aug.1	Revised Estimate	Change	Prior Year	Forecast as of Apr.28	Forecast as of Aug.1	Revised Estimate	Change		
Foreign Exchange	USD	89	81	81	80	- 9	83	80	80	77	- 6	86	81	81	79	- 7		
Rate (Yen)	EUR	114	116	116	114	- 0	112	110	110	105	- 7	113	113	113	110	- 3		
Forex Impact on Operating Income	USD											3.0	-	2.9	2.7	- 0.3		
per Yen (Billions of Yen)	EUR											0.7	-	0.8	0.7	0		
Car Production of	Domestic	4.78	-	3.81	3.91	- 18%	4.21	ı	5.44	5.44	+ 29%	8.99	ı	9.25	9.35	+ 4%		
Japanese Manufacturers (Millions of Units)	North Americ	1.94	-	1.54	1.54	- 21%	2.02	-	2.40	2.36	+ 17%	3.96	-	3.94	3.90	- 2%		
	Overseas	6.42	-	6.18	6.69	+ 4%	7.04	-	8.07	8.50	+ 21%	13.45	-	14.26	15.19	+ 13%		



## Consolidated Sales by Customer

(Unit: Billion of Yen)

		2012	(OTIIL. DIIIIOTI OI			
		2012 pt.30,2011		2011 ot.30,2010	Cha	nge
	Amount	% to Total	Amount	% to Total	Amount	Percent
Toyota	574.9	40.8	731.0	46.0	-156.1	-21.4
Daihatsu	40.8	2.9	45.5	2.8	-4.8	-10.5
Hino	21.3	1.5	19.1	1.2	2.3	11.9
Toyota Group	637.0	45.2	795.6	50.0	-158.6	-19.9
Honda	82.1	5.8	109.6	6.9	-27.6	-25.2
Suzuki	37.1	2.6	41.3	2.6	-4.2	-10.3
Fuji	22.0	1.6	29.8	1.9	-7.7	-26.0
Mazda	25.3	1.8	29.8	1.9	-4.5	-15.2
Mitsubishi	23.4	1.7	21.6	1.4	1.8	8.5
Isuzu	21.4	1.5	20.8	1.3	0.6	2.7
Nissan	15.9	1.1	14.7	0.9	1.2	7.9
GM	42.1	3.0	49.6	3.1	-7.5	-15.2
Ford	33.0	2.4	29.0	1.8	4.0	13.7
Chrysler	25.7	1.8	25.1	1.6	0.5	2.2
VW/AUDI	30.3	2.2	23.4	1.5	6.9	29.7
Benz	10.5	0.7	9.5	0.6	0.9	10.0
BMW	14.9	1.1	12.6	0.8	2.3	18.1
Fiat	42.9	3.0	43.4	2.7	-0.4	-1.0
PSA	8.2	0.6	7.9	0.5	0.3	3.9
Land Rover	7.4	0.6	8.9	0.6	-1.5	-16.7
Hyundai/Kia	37.1	2.6	33.9	2.1	3.2	9.5
OE Sales for others	123.1	8.7	116.9	7.4	6.2	5.3
OEM Total	1,239.4	88.0	1,423.4	89.6	-184.1	-12.9
After-market,	169.8	12.0	166.2	10.4	3.6	2.2
New business & Others						
Total	1,409.1	100.0	1,589.6	100.0	-180.4	-11.4



## Consolidated Sales by Business Segment

(Unit: Billion of Yen)

		2012 ot.30,2011	FY2 ended Sep	2011 ot.30,2010	Change		
	Amount	% to Total	Amount	% to Total	Amount	Percent	
Thermal	433.5	30.8	489.6	30.8	-56.1	-11.5	
Powertrain Control	365.1	25.9	383.2	24.1	-18.1	-4.7	
Information & Safety Systems	215.9	15.3	274.0	17.2	-58.1	-21.2	
Electric	128.3	9.1	136.4	8.6	-8.1	-5.9	
Electronic	123.7	8.8	146.1	9.2	-22.3	-15.3	
Small Motors	98.6	7.0	118.9	7.5	-20.3	-17.1	
Others(*1)	16.5	1.2	16.2	1.0	0.3	2.1	
<b>Automotive</b> Total	1,381.6	98.1	1,564.3	98.4	-182.7	-11.7	
Industrial & Consumer Product	22.8	1.6	20.7	1.3	2.1	10.2	
Others(*2)	4.7	0.3	4.6	0.3	0.1	2.6	
New Business Total	27.5	1.9	25.3	1.6	2.2	8.8	
Total	1,409.1	100.0	1,589.6	100.0	-180.4	-11.4	



## Capital Expenditures, Depreciation and R&D

(Unit: Billion of Yen)

		2QYTD FY11		FY12 2QYTD Estimate		2Q YTD Change from PY	Progress to FY12 Estimate
	Japan	46.5	95.5	48.9	95.0	5.2%	51.5%
	North America	4.2	9.1	4.6	11.0	9.5%	41.8%
	Europe	4.7	12.1	8.8	19.0	87.2%	46.3%
	Asia & Oceania	11.1	22.8	19.9	45.0	79.3%	44.2%
	Others	3.3	5.5	3.4	7.0	3.0%	48.6%
	Capital Exp.	69.8	145.1	85.6	177.0	22.6%	48.4%
	Japan	65.7	142.2	61.1	132.0	-7.0%	46.3%
	North America	9.0	17.1	7.8	17.0	-13.3%	45.9%
	Europe	6.4	12.4	5.9	14.0	-7.8%	42.1%
	Asia & Oceania	10.0	19.4	9.6	21.0	-4.0%	45.7%
	Others	1.0	2.0	1.0	2.5	0.0%	40.0%
	Depreciation	92.1	193.1	85.4	186.5	-7.3%	45.8%
F	R&D Expenditure (Ratio to Sales)	141.1 (8.9%)	290.1 (9.3%)	148.0 (10.5%)	285.0 (9.0%)	4.9%	51.9%