NTN

New Medium-term management plan

Global Advance 2013

April.2011 ► March.2014
Beginning Year

August 1st, 2011

NTN Corporation



New Medium-term management plan "Global Advance 2013"

- 1. Results of "NTN 2010 for The Next Step"
- 2. Target and Business Strategy of "Global Advance 2013"

Results of "NTN 2010 for The Next Step" NTN



Achieved a V-shaped recovery that exceeded initial plans, and expanded business in

China, Americas and Europe

	FY2010 (Results)	FY2010 (Plan)	Comparison with Plan
Net sales (100 million yen)	5,301	4,900	+401
Operating Income (100 million yen)	246	190	+56
Operating income margin	4.6%	3.9%	+0.7 point
Ordinary income (100 million yen)	211	130	+81
Net income (100 million yen)	144	65	+79
Inventory (100 million yen)	1,370	1,035	+335
Inventory turnover ratio (times)	3.9	4.7	-0.8
Property, plant and equipment (100 million yen)	2,461	2,340	+121
Property, plant and equipment turnover ratio (times)	2.2	2.1	+0.1
Interest-bearing debt (100 million yen)	2,233	2,560	-327
D/E ratio	1.12	1.3	-0.18 improvement
NTN-ROI	4.2%	3.7%	+0.5 point

Results of "NTN 2010 for The Next Step"



Expanded business in Europe through synergy with SNR

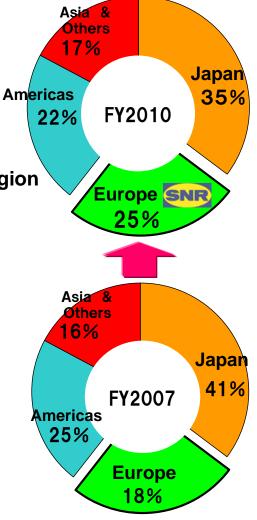


Ratio of European sales increased as part of overall consolidated net sales

Basic preparation of NTN-SNR



- Production start of CVJ in Romania plant (December,2009)
- Establishment of sales site in Poland (December,2009), Russia (November,2010)
- Integrated sales companies and bases within the European region
- Business expansion for Industrial machinery market
 - Increase of mutual sales of needle, tapered roller bearing, etc
 - Increased new orders for rolling stock around the world
 - Increased new orders for the four major airplane engine manufacturers in the world
- **■** Expansion of business for auto parts of Automotive
- Increase of new business development for Automotive
- Acceleration of R&D for cutting-edge technology and commercialization
 - high-resolution rotary sensor, multi axis load sensor, etc
- Corporate name change to NTN-SNR ROULEMENTS (July 2010), Increase share of capital to 80% (April 2010)



Results of "NTN 2010 for The Next Step"



Reinforcement business base in China and Americas

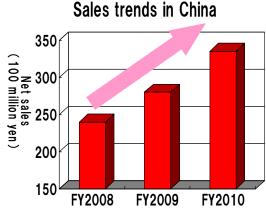
- Reinforcement of production, sales and technological operations in China
 - Production capacity increase for bearings and CVJs on local site
 - Opening of Nanjing Branch (October, 2010)
 - Establishment of joint venture company in the Bearing Business with Luoyang LYC. (February, 2011)
 - Construction of the NTN China Technical Center Completed (May,2011)
- Production capacity increase in Americas
 - Established CVJ production subsidiary in Brazil (Established in June, 2010)
 - Established joint venture company for pre-processing (Established in December, 2010)
 - Production increase of hub bearings

Reorganized production of Industrial machinery bearings

- Production capacity increase of Noto region in Ishikawa Pref
 - Operation of NTN HOUDATSU SHIMIZU CORPORATION (October,2009)
 - Operation of NTN SHIKA CORPORATION (January, 2010)
 - > Establishment of NTN NOTO Corporation (December, 2010)



Construction of the NTN China Technical Center Completed



NTN China Technical Center

NTA Precision Axle Corp



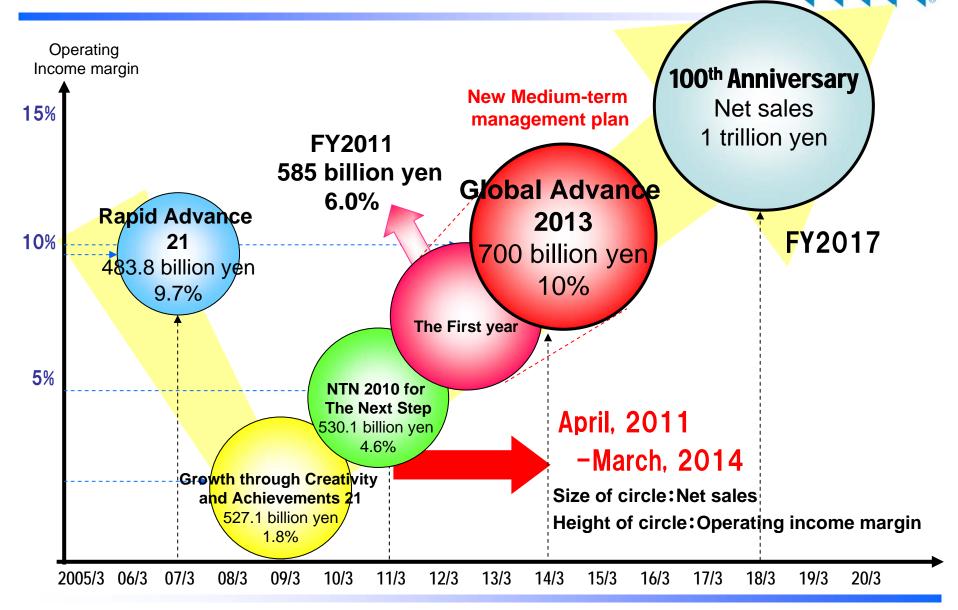
NTN HOUDATSU SHIMIZU CORPORATION



Sale trends in Americas



Towards the company's 100th anniversary in the FY2017



New Medium-term management plan "Global Advance 2013"



the company's 100th anniversary Toward 1 trillion yen

Acceleration of globalization by "On local site with local materials by local personnel"

■Expand business globally with a focus on growth markets

- ■Establish world's No.1 business segments
- ■Establish new business segments such as EV systems

FY2013

Net sales: 700 billion yen Operating income margin

:10%

■Expand sales for Industrial machinery, Aftermarket & Distributor

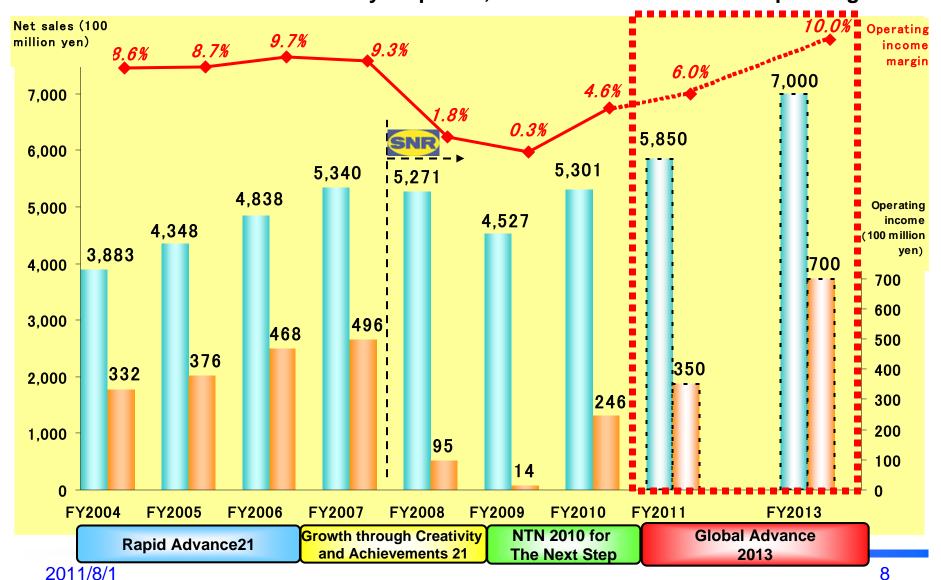
- **■**Expand sales in growth market
- **■**Expand local production and procurement

"Global Advance 2013"

Trends on Net sales and Operating income



• 32% increase in net sales over a 3-year period, with a 2.8-fold increase in operating income



Main fact of "Global Advance 2013"

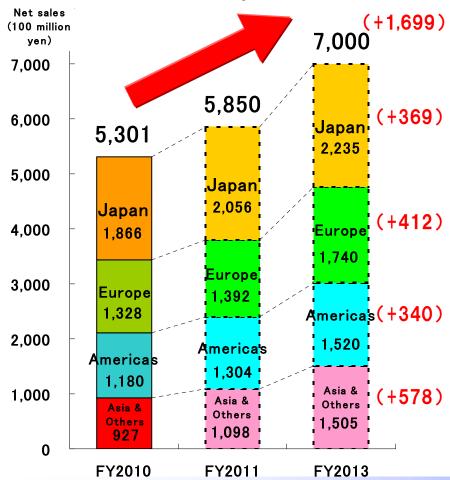


	NTN 2010 for The Next Step	Global Advance 2013		Increase & Decrease
	FY2010 ①	FY2011	FY2013 2	2 -1
Net sales (100 million yen)	5,301	5,850	7,000	+1,699
Operating Income (100 million yen)	246	350	700	+454
Operating income margin	4.6%	6.0%	10%	+5.4 point
Net income	144	175	425	+281
Inventory (100 million yen)	1,370	1,300	1,400	+30
Inventory turnover ratio (times)	3.9	4.5	5.0	+1.1
ROA	2.3%	2.7%	6.1%	+3.8 point
ROE	7.2%	8.5%	17.0%	+9.8 point
D/E ratio	1.12	1.07	0.75	0.37
				improvement
NTN-ROI(%)	4.2%	6.0%	11.1%	+6.9 point
Exchange rate	\$:¥85.7 €¥113.1	\$:¥80.4 €¥111.9	\$:¥80 €¥110	-

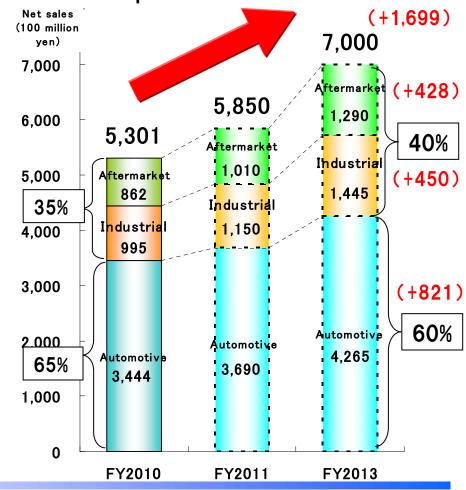
Target sales by region and business sector



- <Target sales by region>
 - Major increase in Asian markets such as China and India
 - Acceleration of sales expansion in favorable markets such as Europe and Americas



- <Target sales by business sector>
 - Expansion for Industrial machinery and Aftermarket & Distributor market
 - Shift to a 60:40 ratio for automotive/nonautomotive product



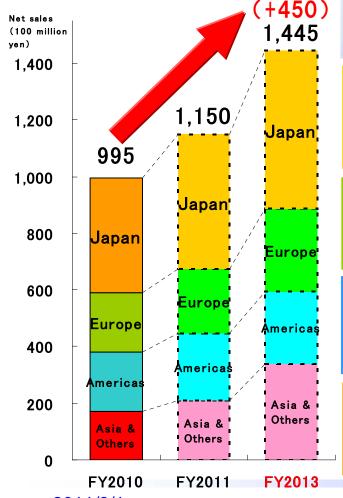
Business strategy for Industrial machinery market NTN



Reinforcement of global production capacity for products such as large bearings and precision bearings, and increase market share

Create products that stand out through the use of cutting-edge sensor technology, and provide a

comprehensive level of service







←Bearings for Industrial machinery IC Tag Integrated Bearing→



Japan

Reinforcement of production capacity to suit increased global demand Increase the number of new projects, including those for renewable energy

Europe

Business expansion for large/precision bearings for wind power generation, construction machinery and airplane

Americas

Expand sales and production to become a leading supplier of construction machinery and agricultural machinery

Asia

Acquire new orders for wind power generation, construction machinery and rolling stock and expand production of bearings in China

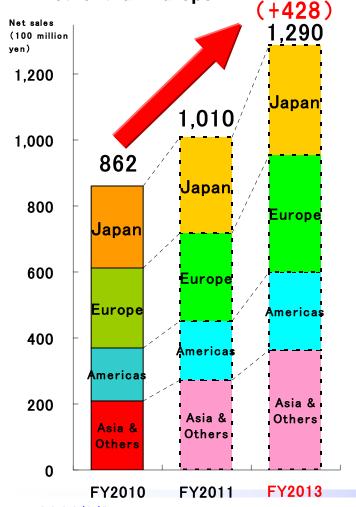
Business strategy for Aftermarket & Distributor market



Reinforcement machinery distribution network throughout Europe/Americas,
 China and Asia

Expand automotive parts business into regions

other than Europe









Maintenance service

Auto parts kit

Training seminar with exclusive van

Japan

Create new demand for renewable energy related business, and expand sales to users with low market share

Europe

Expand regions for the auto- parts business
Expand equipment repair services

Americas

Focus on Aftermarket/ Distributor market
Further expansion of sales in the
auto-parts business

Asia

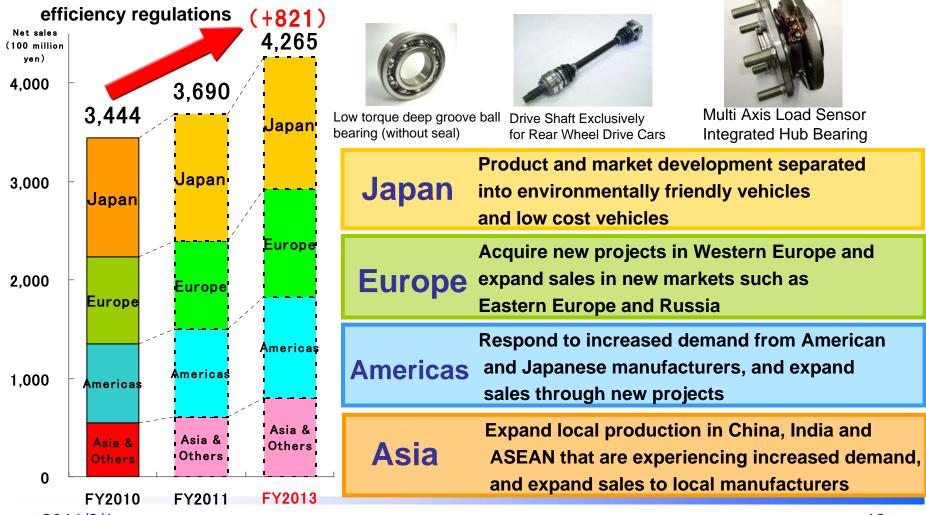
Expand distribution network in India,
ASEAN and China
Expand sales to key distributors in China

Business strategy for Automotive market



- Acceleration of business expansion of Axle bearing (World's No.1), CVJ(World's No.2)
- Design review and material change for more compact vehicles and global platforms

Faster development speed of products that meet environmental and fuel



Business expansion in growth market

Europe:

+30%



Reinforcement local development, production and sales in the automotive market to suit increased demand in each region

Increase production capacity for the industrial machinery market in fast-growing China in addition to

Japan and Europe

North America

- Sales expansion for aftermarket/ distributor
- Production reinforcement of NTN-BOWER
- Production reinforcement of automotive product

Americas: +30%

Brazil

- Production reinforcement of hub bearing
- Mass production start of CVJ
- Sales expansion for Industrial machinery aftermarket

Eastern Europe

(Romania, Turkey, Russia, etc.)

Production reinforcement of automotive product

Western Europe (France, Germany)

 Production reinforcement of large and precision bearing of NTN-SNR

Japan

 Production reinforcement of large bearing and precision bearing for industrial machinery

> Japan: +20%

Asia: +60%

Thailand

 Production reinforcement of automotive product (pre-process)

China

- Increase utilization of the NTN China Technical Center
- Production reinforcement of industrial machinery bearing (rolling stock, large bearing, etc)
- Increase the number of sales office and expand distributors
- Mass production start for local maker

India

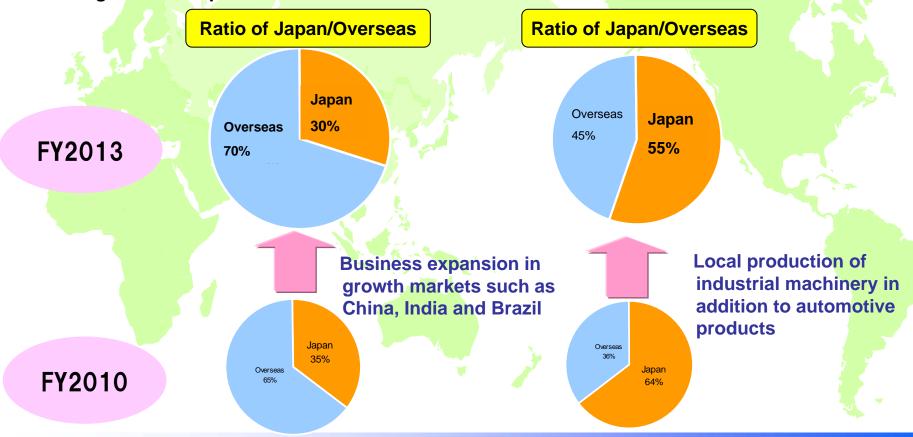
- Mass production start of hub bearing
- Sales expansion for Industrial machinery aftermarket

The circle and number represent the growth rate in each region during the three year "Global Advance 2013" period

Acceleration of "On local site with local materials by local personnel"



- Expand ratio of overseas sales/ production
- Supply products from overseas plants to global markets, especially in Japan
- Reinforce utilization of local materials, parts and equipment (increase local procurement ratio in Asia from 60% to 90%)
- Increase profits by improving actions in response to exchange rates and costs
- Training and development of local staff at mother factories/research division



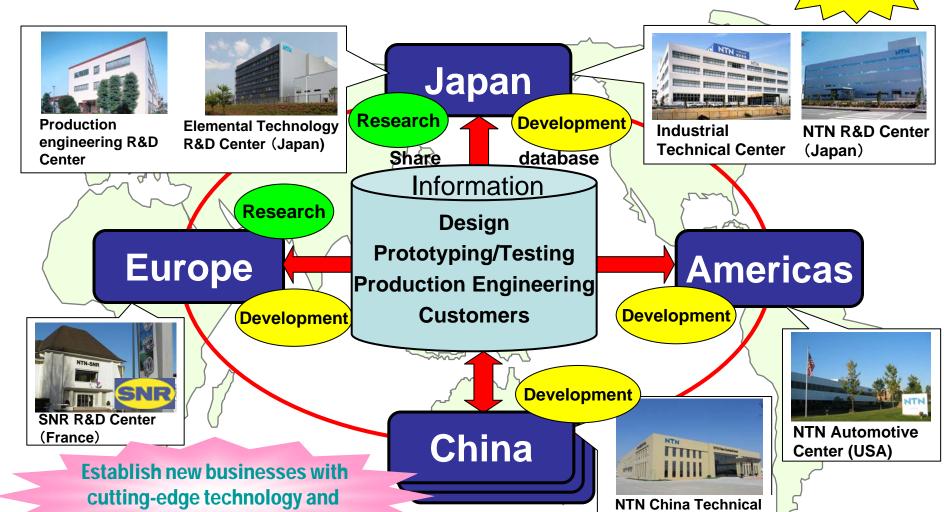
Reinforcement of Global Research Development System







 $\frac{2}{2}$ bases $+ \alpha$



2011/8/1

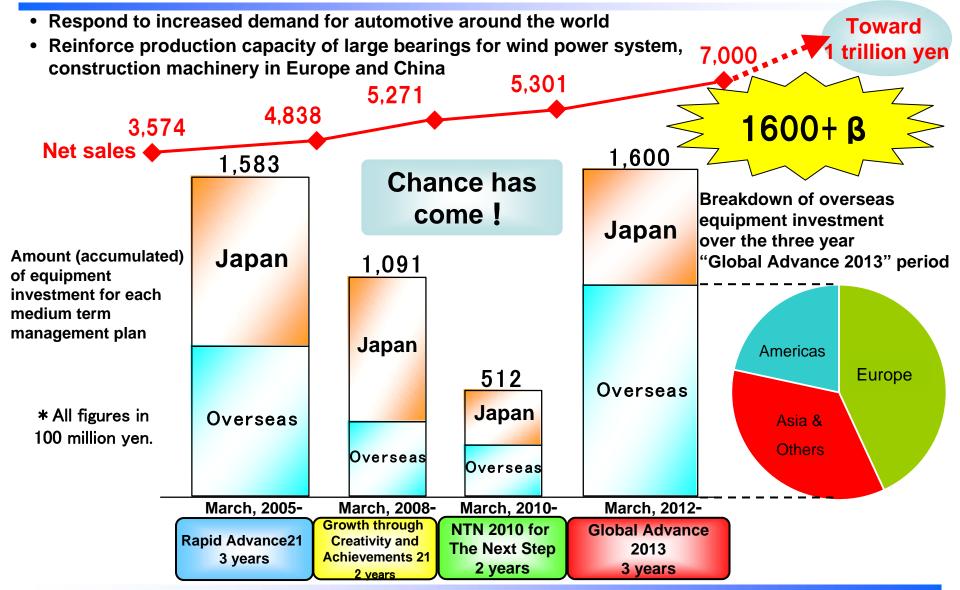
proprietary technology

16

Center (June, 2011)

Three-year equipment investment plan

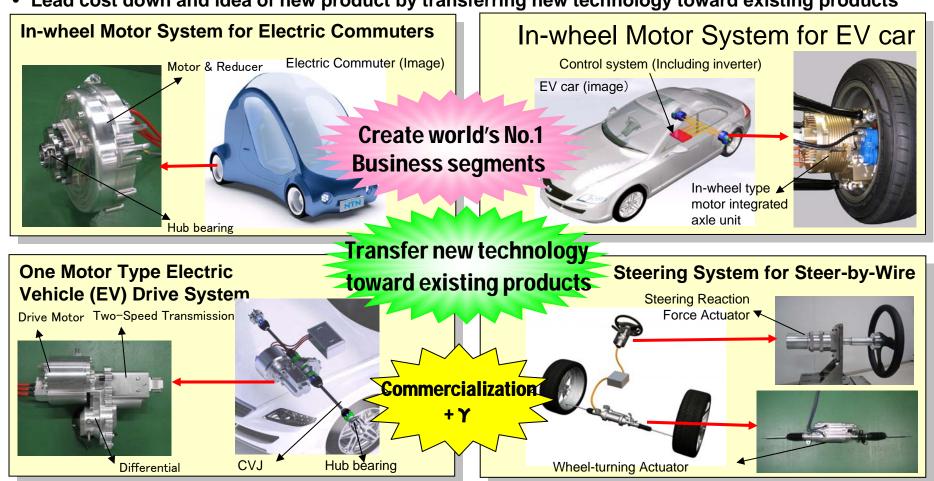




Faster commercialization for nextgeneration EV systems



- Accelerate development of products for next-generation EV systems such as the In-Wheel Motor (EV **System Division)**
- Shift from R&D for practical applications to faster mass-production and commercialization
- Lead cost down and idea of new product by transferring new technology toward existing products



For new growth and increased profits



"Global Advance 2013"

FY2013:

Net sales: 700 billion yen, Operating income margin: 10%

FY2011:

Net sales: 585 billion yen, Operating income margin: 6%

"Decision" and "Execution" and "Accomplishment"

Business expansion in growth market

Improvement of operating income margin



-Expand business in
Europe and Americas
-Expansion for
Aftermarket & Distributor
-Reinforcement of production
capacity in local

-Acceleration of business expansion in Asia

-Faster commercialization for EV products

-Reinforcement of local management

-Share up for Industrial machinery

-Reduce costs for Automotive

-Expand local procurement

"On local site with local materials by local personnel"

FY2010: Net sales: 530.1 billion yen, Operating income margin 4.6%

We make Bearings.



