Mid-term Management Plan



Current Status

ZEON

ZEON CORPORATION

Kimiaki Tanaka President

April 28, 2016



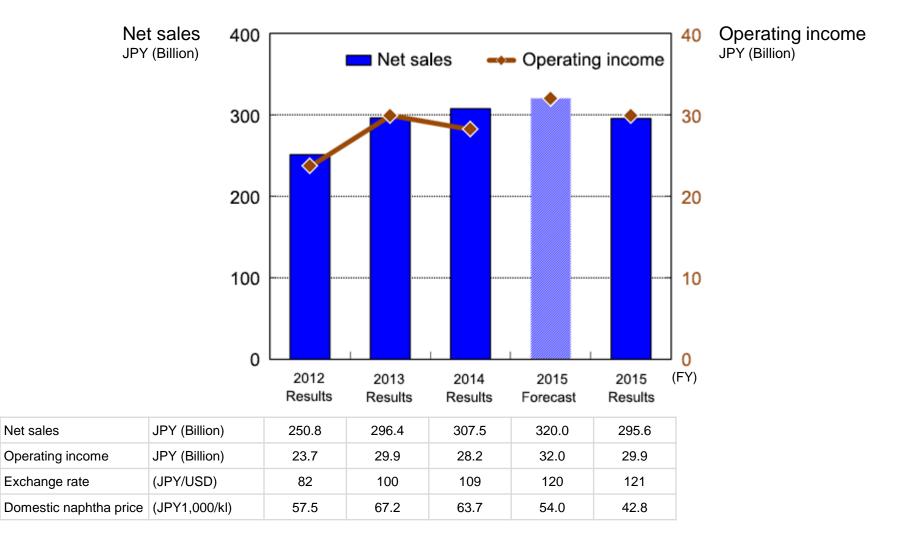


1. FY2015 Results and Business Environment

- **2. Business Topics**
- **3. Performance Goals**



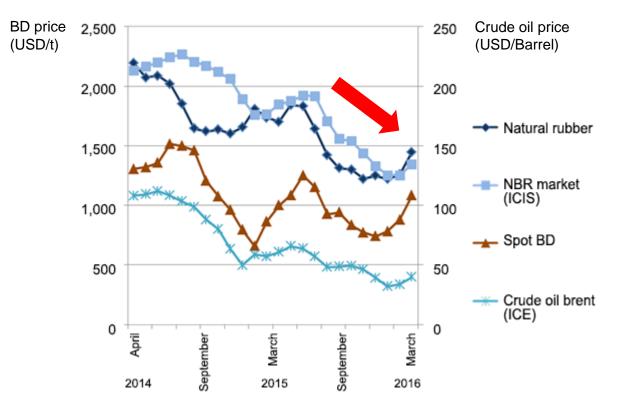
FY2015 actual results was under the prior forecast





Synthetic rubber market declines due to slump in crude oil and natural rubber markets

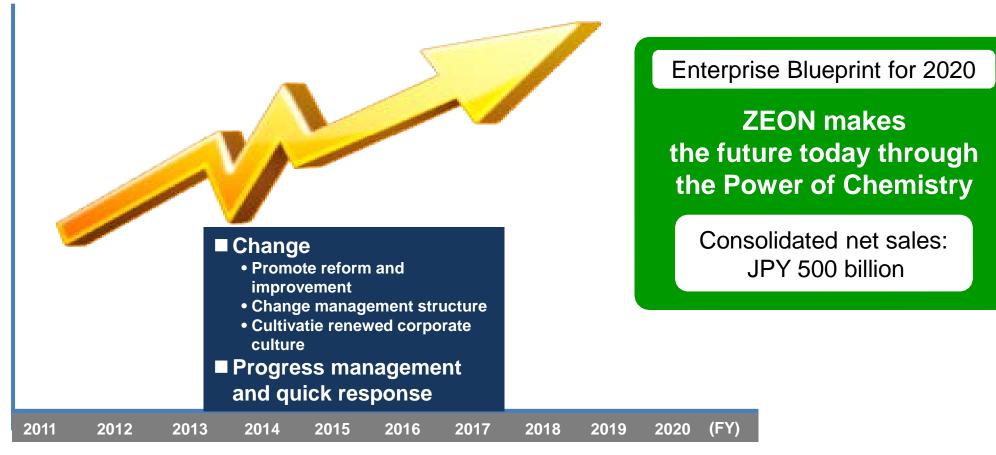
Natural rubber, synthetic rubber and BD markets



Natural rubber market: Singapore Commodity Exchange nearby contract price for RSS #3 grade rubber (source: Monthly Statistics Report for Synthetic Rubber) NBR market: CFR Southeast Asia (source: ICIS) Spot BD: CFR Southeast Asia (source: IHS) Crude oil (ICE Brent) (Source: IHS)

SZ-20 Significance of Phase II









Further strengthen our Elastomer and Specialty Materials Businesses via globally expanding operations

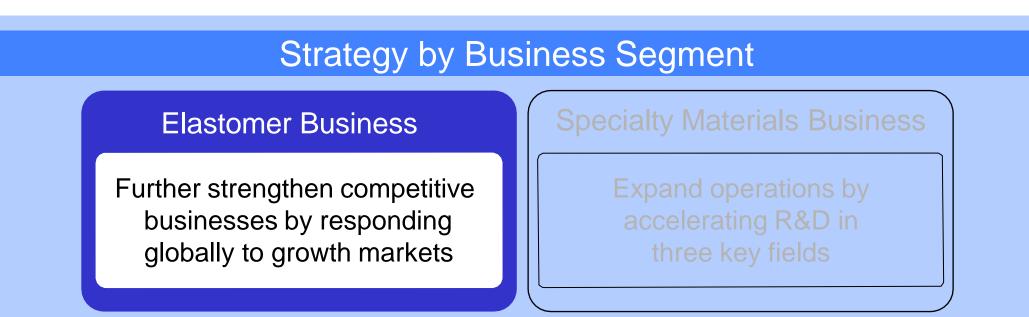
Strategy by Business Segment

Elastomer Business

Further strengthen competitive businesses by responding globally to growth markets **Specialty Materials Business**

Expand operations by accelerating R&D in three key fields





- Established a dual location production system for S-SBR and expanded business
- Increase the number of customers purchasing new Zetpol[®] with excellent heat resistance
- Begin sales of biosynthetic Hydrin[®] rubber
- Expand sales of NBR latex for gloves
- Implement strategy for expanding C5 chemicals business

Elastomers – SSBR

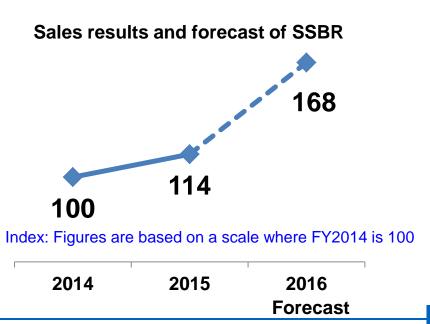


Expanded business by establishing a dual location production system and advancing new product development

- Production Strategy
 - Tokuyama Plant: Base for new product development and manufacturing proprietary products.
 - Singapore Plant: Second line began operations in April 2016. Capacity up from 35,000 tons to 70,000 tons per year. Responding to rising demand through mass production.
- Product Strategy
- Non-oil extended rubber: New mainstay products expected to significantly improve fuel economy compared to existing Zeon products.
- Oil extended rubber:
 - Expanded sales of existing products offering superior performance over competitors, and continued to launch new products.



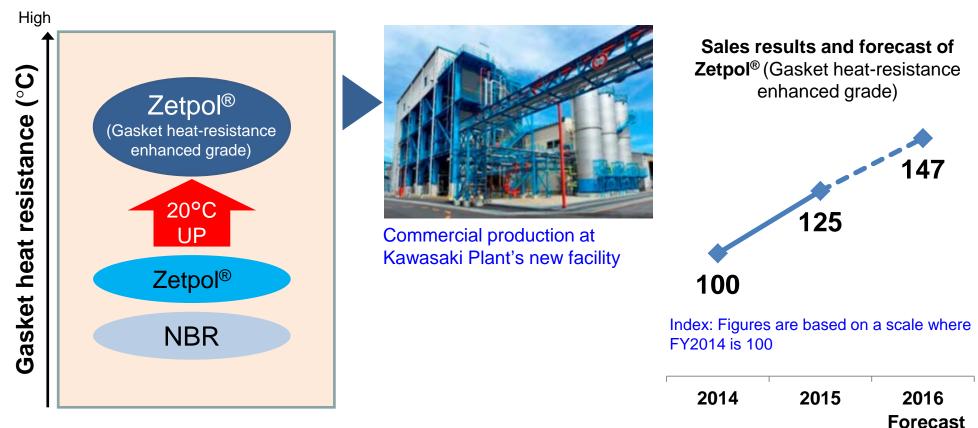
Singapore plant





Providing highly functional, low-cost automotive components

Superior heat resistance leads to excellent growth prospects in following applications: gaskets, seals, and treating agents for core wires used in timing belt.



Providing automotive components that reduce environmental impact

Toyota Motor began using biosynthetic Hydrin[®] in vacuum sensing hose production from April 2016.



Hydrin[®] rubber production base Zeon's Mississippi Plant, USA



Hydrin® rubber manufacturing line



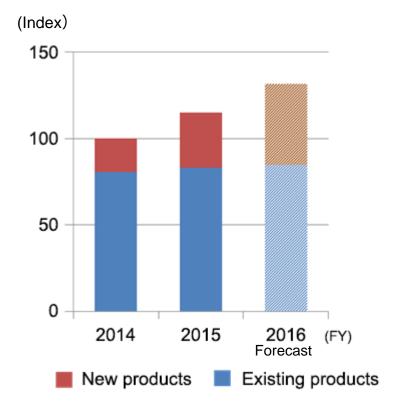
Growth in NBR glove market continues. Sales of new products expanded

Latex for gloves

Market for gloves using NBR shows annual growth of 7%

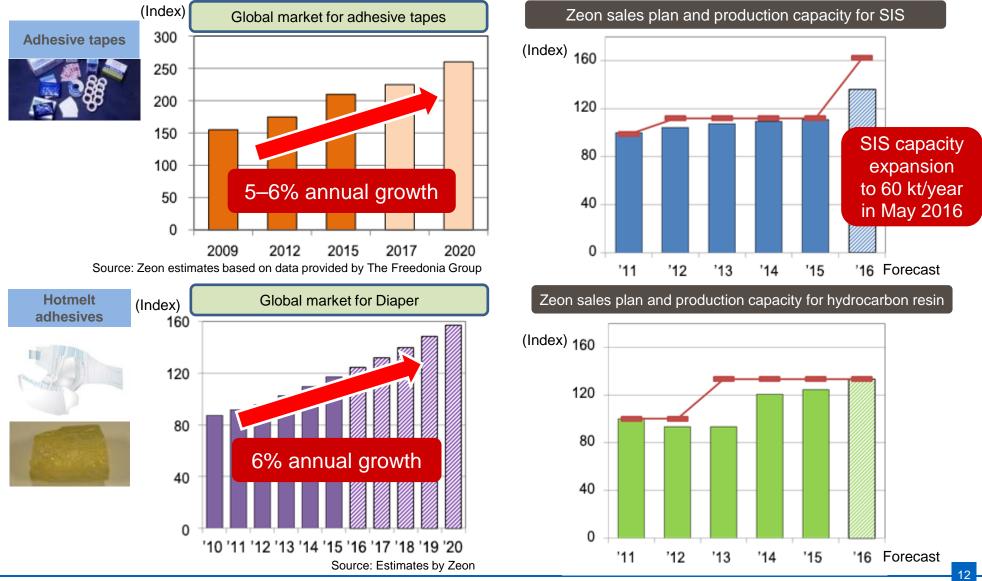
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Sales volume for latex for gloves



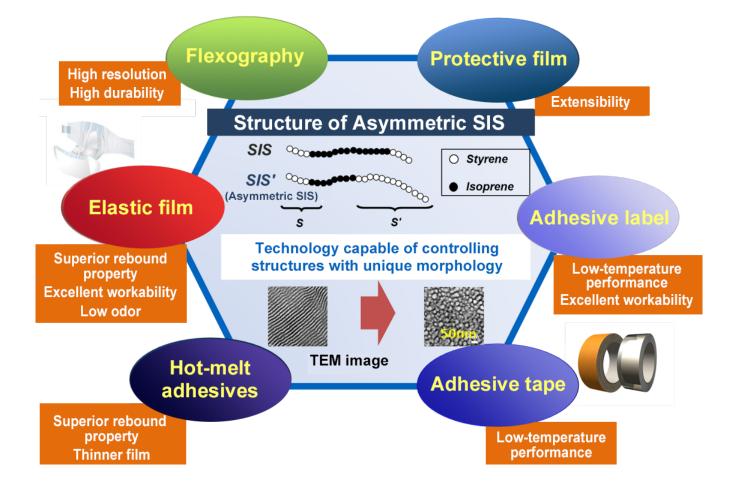
Elastomer – Expansion strategy for C5 Chemicals Business **ZEON**

Capital investment responding to the growth in the major markets





Diversification of SIS applications with asymmetric technology







Specialty Materials – Basic Strategy



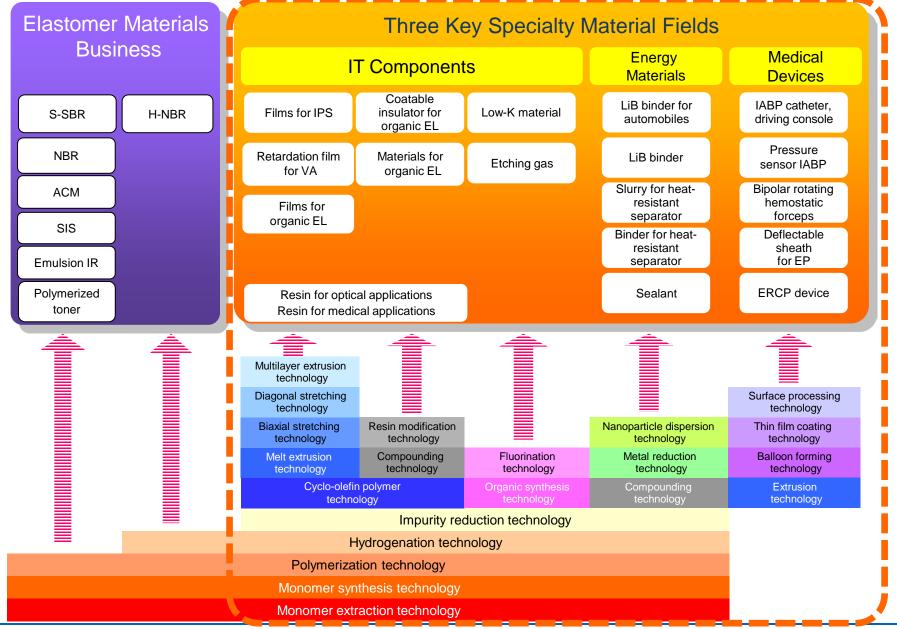
Three Key Specialty Material Fields	Realizing an Advanced Information Society	Saving, Storing and Creating Energy	Enhancing QOL (Quality of Life)	
Three Key Specialty Material Fields				
IT ComponentsEnergy MaterialsMedical DevicesOptical, packaging, electronic applicationsEnergy MaterialsMedical Devices	Optical, packaging,	Energy Materials	Medical Devices	

Specialty Materials (proprietary materials developed based on Zeon's comprehensive use of the C5 fraction)

- ◆ Optical applications: ZeonorFilm[™]
- Energy materials (Li-ion battery materials)
- Medical devices
- Specialty materials: Carbon nanotubes (CNT)

Specialty Materials – Element Technologies and Products for Each Business Area ZEON

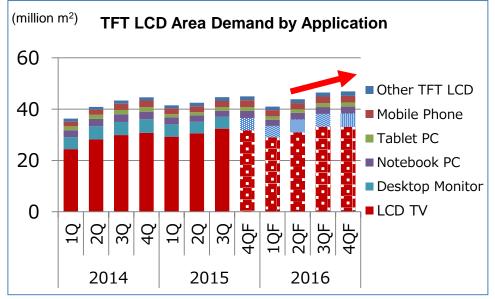




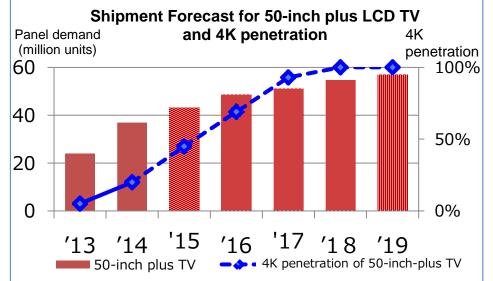
Specialty Materials – ZeonorFilm[™]



LCD panel demand-led recovery in 2016. Panel size is protected to increased for high-resolution TVs with larger screens



LCD panel market to recover in latter half of 2016

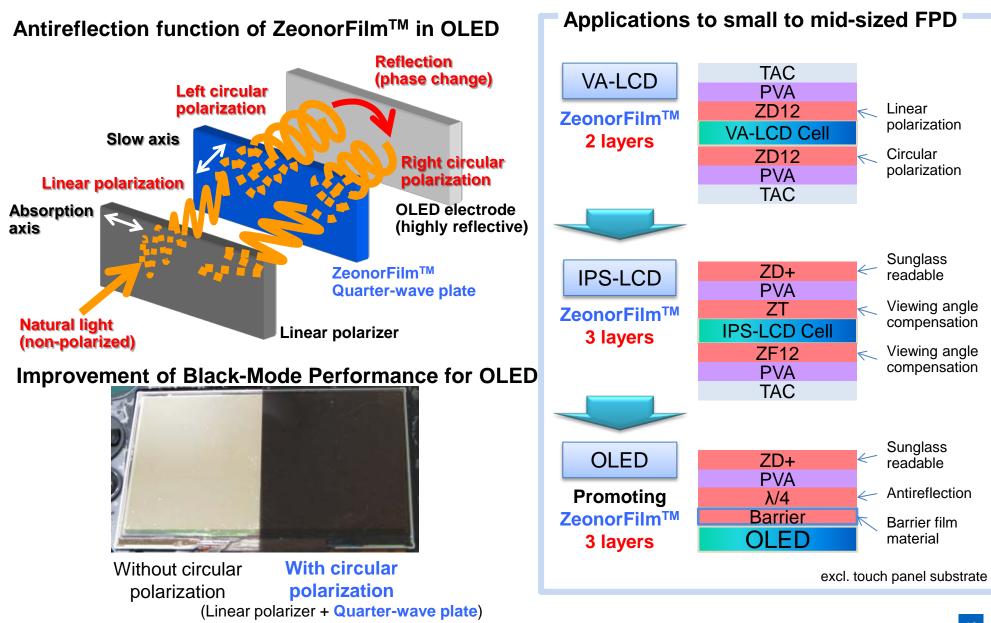


TV market: larger screens, higher resolution 4K penetration of 50-inch-plus TV to reach 100%

Demand for ZeonorFilm[™] expected to recover in FY2016 Pursue sales in 50-inch-plus, high resolution TV and small to mid-sized FPD

Source: 30th IHS Display Japan Forum, January 2016 (© 2016 IHS)

Specialty Materials – Responding to the Shift from LCD to OLED



Specialty Materials – Li-ion Battery Materials ZEON

LiB Materials Business maintaining steady growth by expanding product line

Zeon products for Li-ion batteries

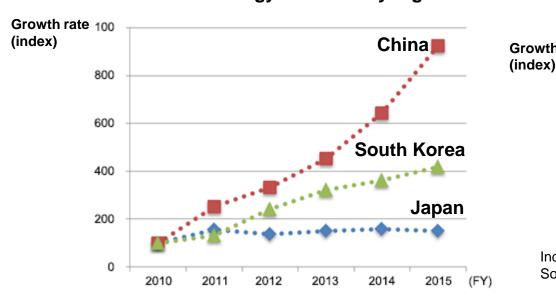
Sales of Zeon battery materials



Specialty Materials – Li-ion Battery Materials

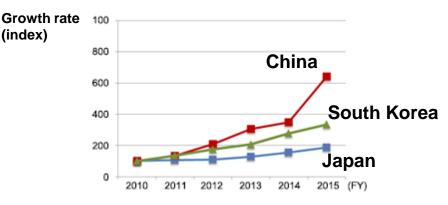
Expanded growth into automotive market. Increased sales to growing markets in South Korea and China

- Expanded business by increasing products for the xEV automotive market → Compared to 2010, Zeon sales growth in 2015 significantly exceeded market growth (sales quadrupled in automotive LIB market)
- 2. Increased sales in high-growth markets in China and South Korea
 - → Compared to 2010, Zeon sales in China rose by 9.3 times (market growth: 6.4 times), sales in South Korea rose 4.2 times (market growth: 3.3 times)



Sales of Energy Materials by region

Production volume of Li-ion Batteries by region

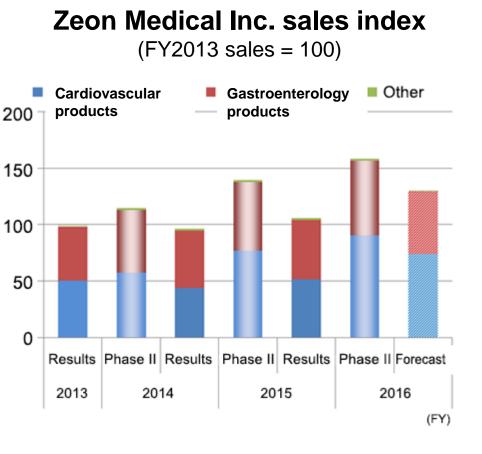


Index: Figures are based on a scale where FY2010 is 100 Source for market data: Report by B3, Inc., January 2016

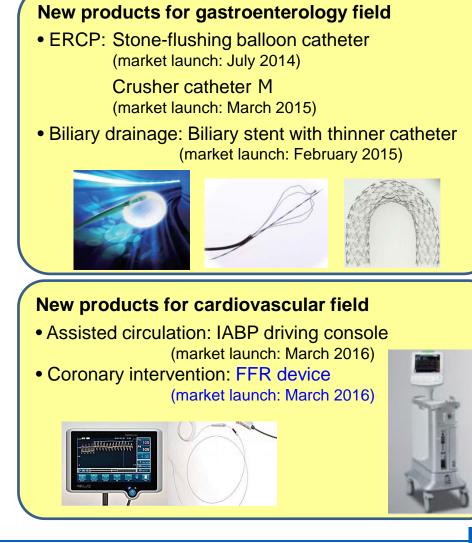
Specialty Materials – Medical Devices



Planning to boost sales in 2016 by promoting new products



FFR: Fractional Flow Reserve IABP: Intra-aortic Balloon Pumping ERCP: Endoscopic Retrograde Cholangiopancreatography



FFR market forecast in Japan

JPY (Billion) Results Forecast 10,000 9,000 8.000 Average annual growth rate: 15.4% 7,000 6.000 5.000 4,000 3.000 2,000 1.000 0 2075 2018 2012 ²0₁₄ 201> 2013 2076 20₇₉ (FY)

Source: Yano Research Institute "Catheter & Tube and IVR Market 2015"

World's First Optical Sensor-based FFR Device

(as guidewire type)

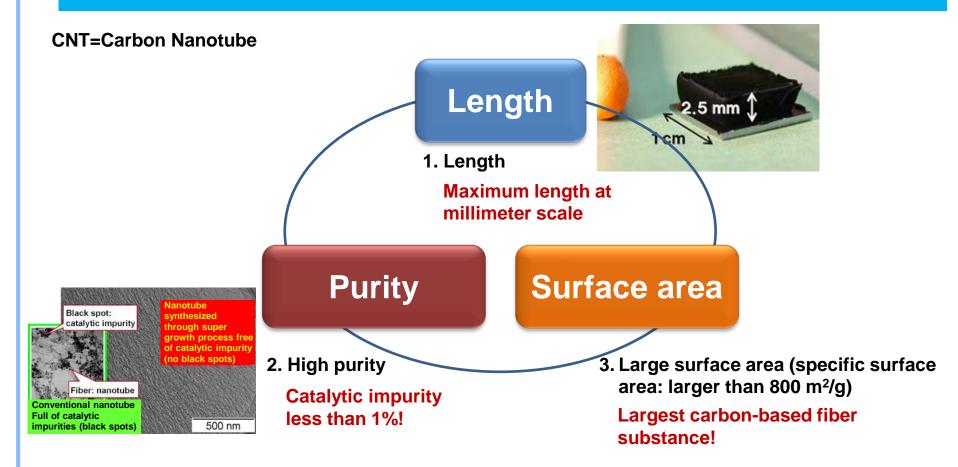


Target share: 30%

(FY2020 in Japan)

Specialty Materials – Development Example

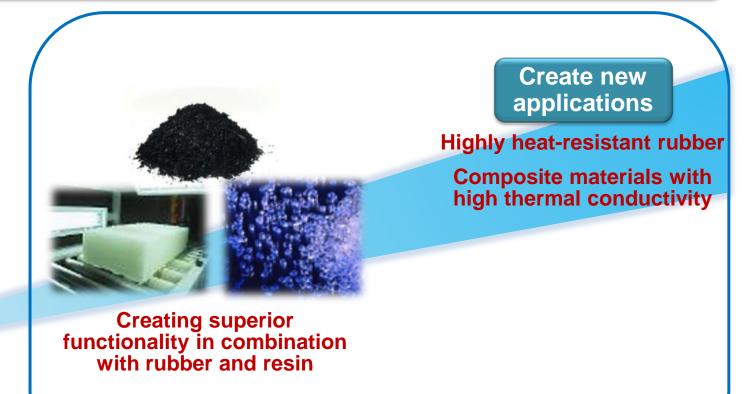
"Super Growth CNT" developed by the National Institute of Advanced Industrial Science and Technology (AIST)



Numerous Differentiating Characteristics

Specialty Materials – Development Example

FY2015: Completed mass production plant for SGCNT, began operations FY2016: Create new applications through integration with existing businesses







Completed SGCNT plant and began operations in October 2015

Specialty Materials – Development Example

Mass production technology for SGCNT received accolades for raising the levels of science and technology and industry development

45th Japan Industrial Technology "Jury's Special Award"



Jointly awarded to Zeon Corporation and the National Institute of Advanced Industrial Science and Technology (AIST) " Prizes for Science and Technology " of the Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology in 2016

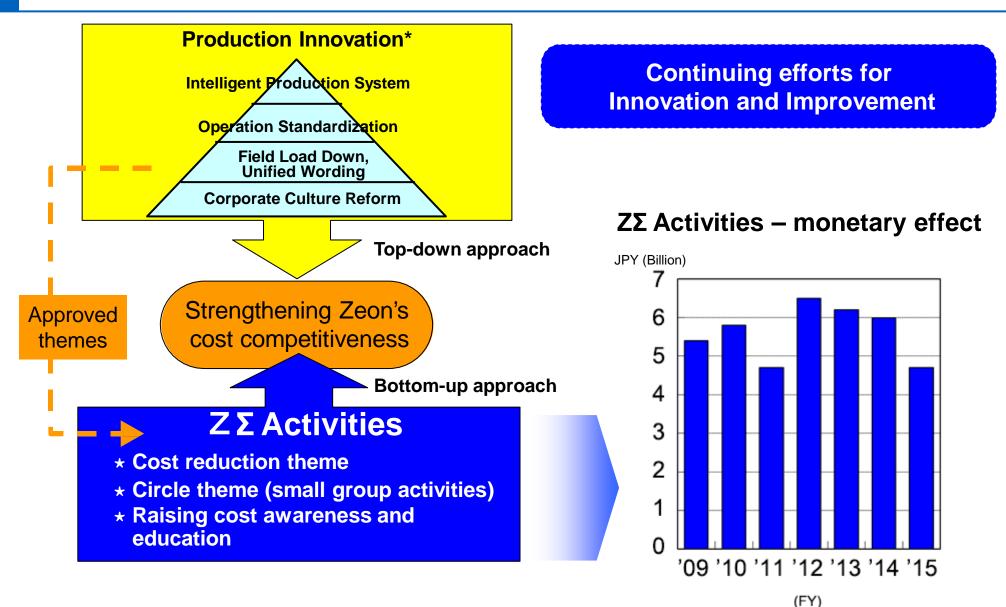
Recipients:

Zeon Corporation

- Kohei Arakawa, Senior Corporate Officer
- Mitsugu Uejima, Manager, CNT Laboratory
 AIST
- Kenji Hata, Director, CNT Application Research Center
- Motoo Yumura, Prime Senior Researcher
- Don Norimi Futaba, Team Leader



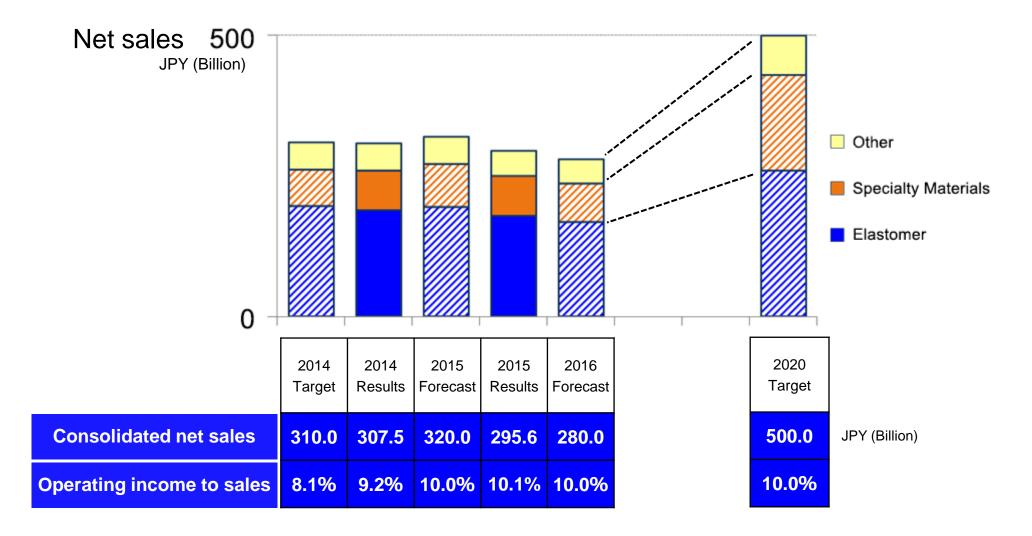
Strengthening Cost Competitiveness

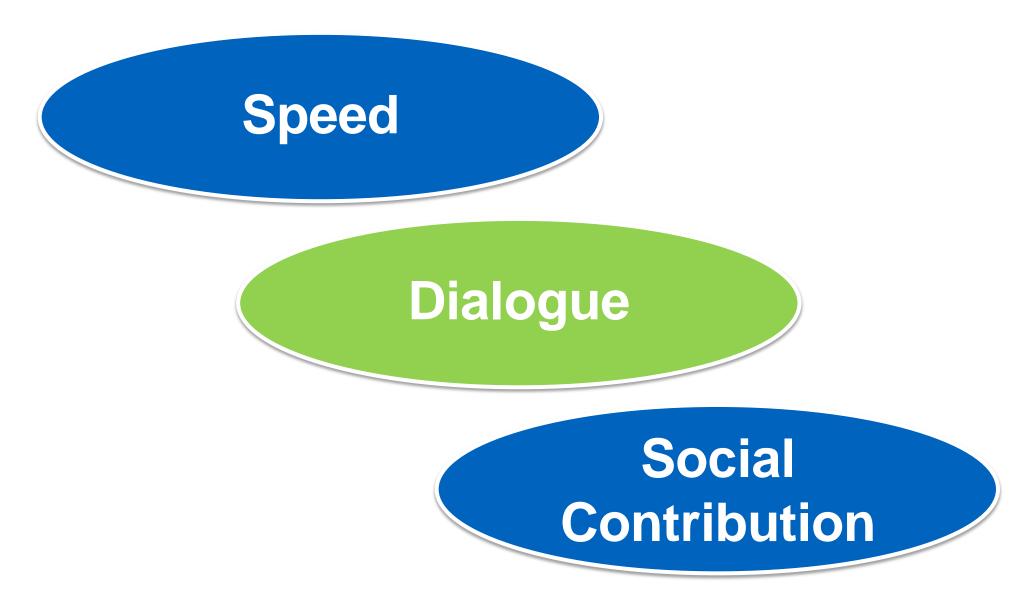


* Production Innovations the Daicel way



Targeting 500 billion JPY in consolidated net sales in FY2020





Mutual trust and confidence among Zeon members

Zeon's plans, forecasts, and other data appearing in this presentation were calculated based on information which was currently available and therefore includes risks and uncertainties. Actual results may differ depending on various factors.

ZEON

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