

Business Strategy of Analog Semiconductor

July 7, 2021

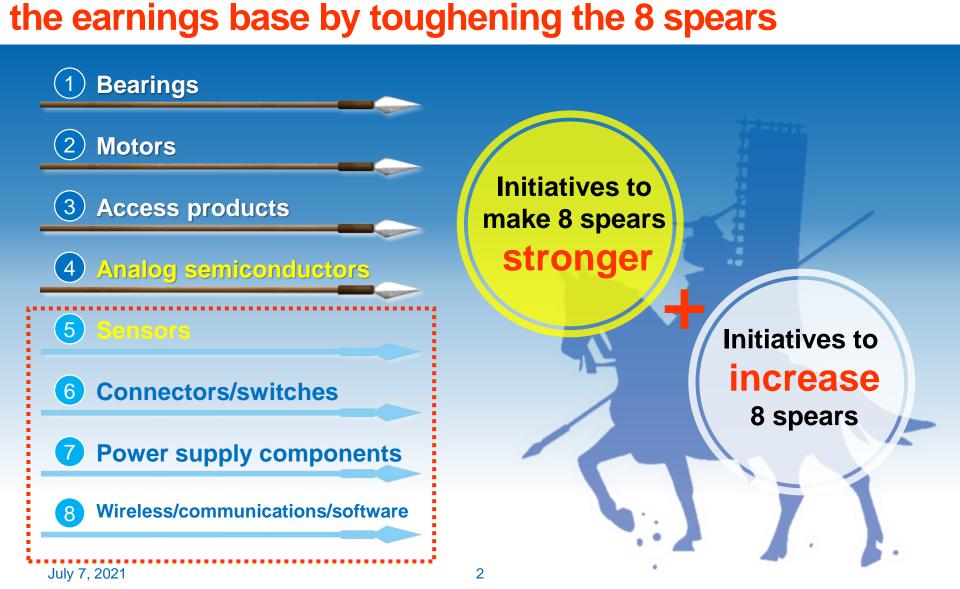


Yoshihisa Kainuma

Representative Director, CEO & COO

Focus on M&A in order to strengthen

From the Investor Meeting Presentation on May 7, 2021



Review: Laying the New Foundation for 100th Anniversary (2) *Mineber*

QCDS + E = QCDSE

From the Investor Meeting Presentation on May 7, 2021

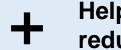






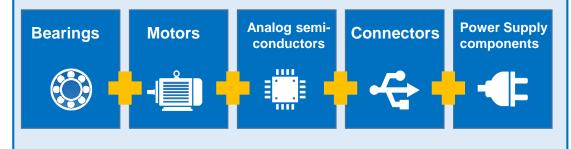


Reducing our emissions



Help the world reduce emissions

Provide solutions to customers Focus on E (Eco & Efficiency) with INTEGRATION and individual products



Example of reduction of emissions

1 million tons

Reduction

In accordance with guideline by Liaison Group of Japanese Electrical and Electronics Industries for Global Warming Prevention



Total <u>reduction amount</u> of CO_2 emissions with using our bearings in the server FAN motors during their product lifetime.

Our high-quality bearings greatly contribute to reducing CO₂ emissions!

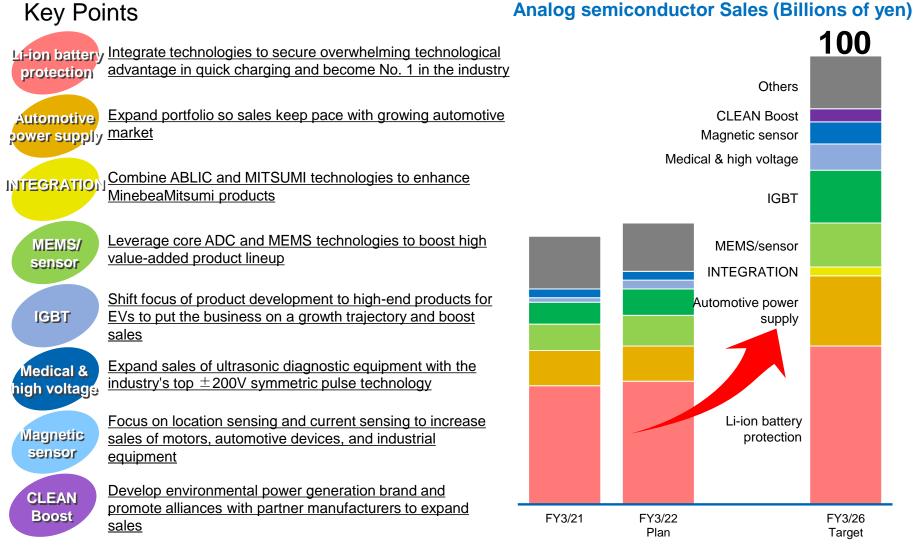
*Calculation basis Annual shipment volume of bearings for FAN: 700 million units (expected for FY3/21) Number of bearings per one FAN: 2 Power consumption reduction per one FAN : 1.23 kWh/year (according to our research, compared with the FAN using bearings made by other company) FAN Product Life: 5 years (24/7) CO₂ emissions figures: 0.496 kg/kWh (from the Ministry of the Environment)

Review: Analog Semiconductor Business Strategy

Realize 100 billion yen in sales and a 20% operating margin ASAP

From the Investor Meeting Presentation on May 7, 2021

Deep dive into core technologies and move ahead with developing 8 fields for semiconductors to achieve targets with niche and growth areas



Background of current measures



Expand analog semiconductor business by strengthening both hardware and software, and enhance INTEGRATION activities

Hardware

Acquisition of 8-inch Fab

Business integration with OMRON MEMS R&D/Production center

Software

Recruitment of engineers

Opened two new development bases in Gunma and Gifu Successfully acquired an 8-inch wafer process factory in Japan, which had been considered extremely difficult!

Outline of Acquired Business

OMRON Yasu facility Semiconductor and MEMS fabrication plant, and MEMS product development function

Including personnel and contracts

Synergies in MEMS products

- Integration of production and product specifications
- Integration of MEMS development engineers

Rocket-start from the DAY1 of integration with accumulated PMI know-how!



Acquisition of 8-inch front-end process



- Additional investment of ¥10 billion
- Develop our strengths as an IDM**

* Ministry of Economy, Trade and Industry Supply Chain Measures ** Integrated Device Manufacturer

Cost synergies, including material purchasing

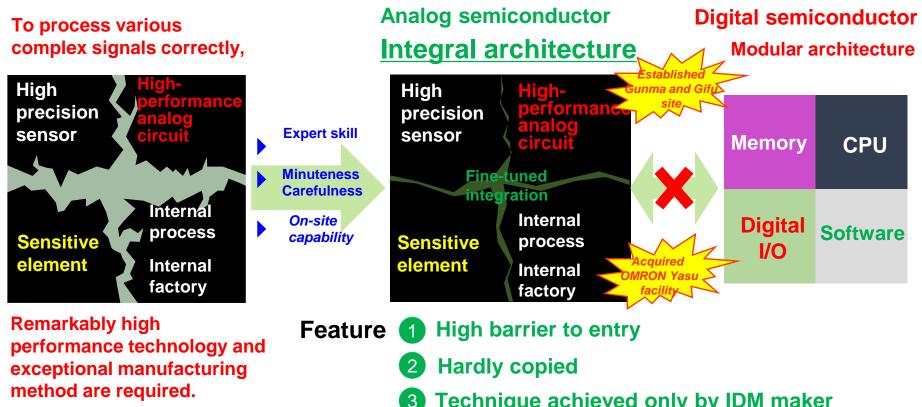
Strengthen technology development team to deepen analog semiconductor technology and expand product lineup



What is analog semiconductor ?

From the IR DAY Presentation on Dec 3, 2020 Note: Partly updated

Analog semiconductor represents information as "lower" or "higher", different from digital semiconductor that represents information with "0" or "1".



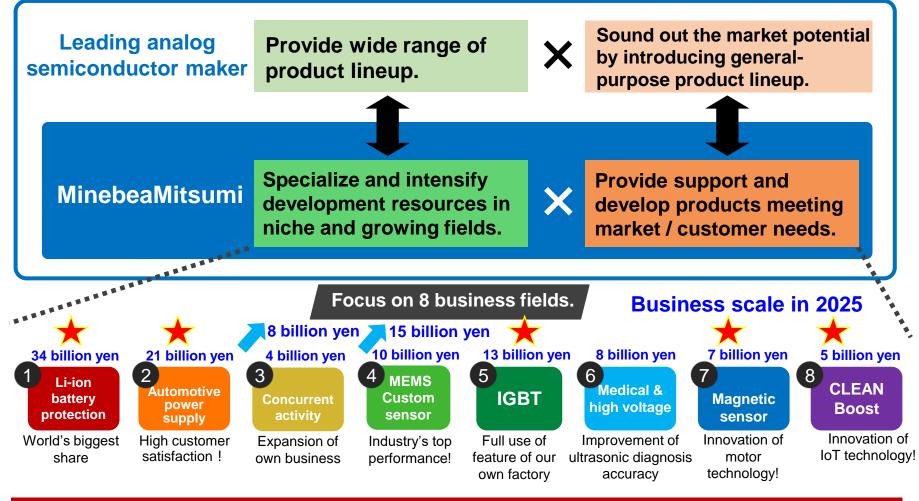
Technique achieved only by IDM maker

X IDM : Integrated Device Manufacturer

Since we are now in the digital era in which differentiation is difficult, superior analog technology will change the era.

Analog semiconductor offers us the best opportunity to exhibit strength of Japan and to succeed at a world-class level.

Develop products meeting customer needs. (Leading makers cannot do it.)



Basic management strategy: Fully u

Fully use core technologies to expand sales and revenue by focusing on niche and growing fields.

Today, five fields with \star mark will be explained.

MinebeaM Information & communications <Li-ion battery IC> Passion to Create Value through

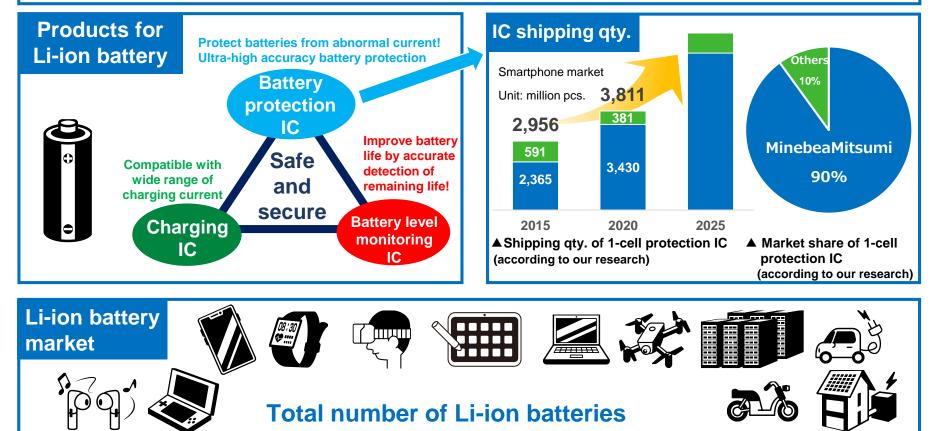
From the IR DAY Presentation

Intensify core technology along with technological evolution of earphones and quick charge for smartphones.

on Dec 3, 2020 Note: Partly updated

Product 1. Advanced development of battery protection IC along with evolution of battery guick strategy charging technology 2. Contribution to technological innovation for TSW and IoT devices by pursuing

technologies for low current consumption and miniaturization



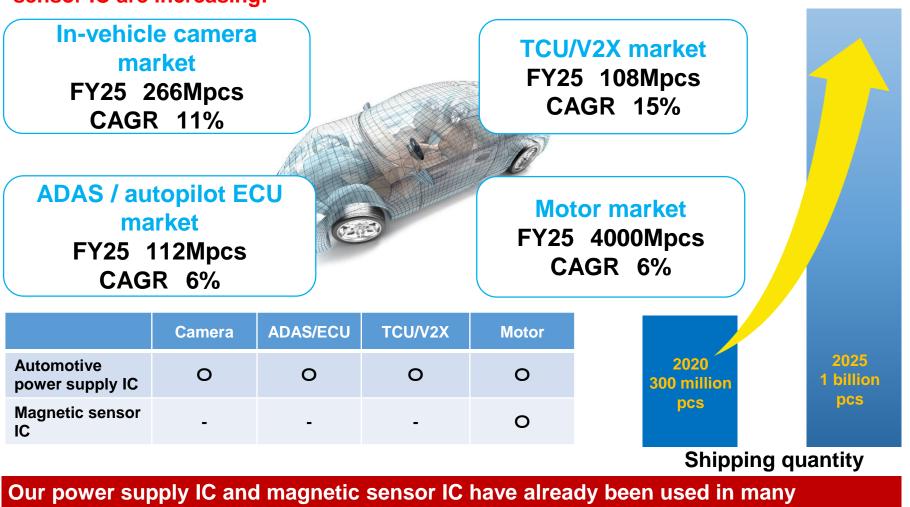
8 billion cells in 2020 => 10.5 billion cells in 2025

Motor vehicle < Power supply IC, magnetic sensor IC>

MinebeaMitsumi Passion to Create Value through Difference

Applications using automotive power supply IC and magnetic sensor IC are increasing!

From the IR DAY Presentation on Dec 3, 2020



automotive applications.

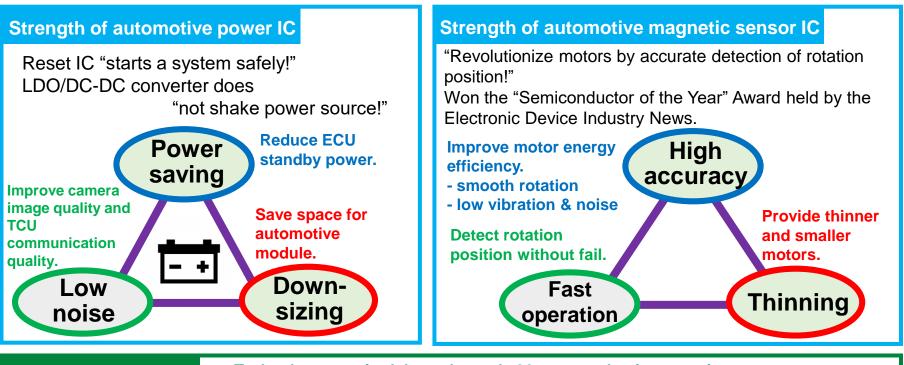
The shipping quantity of these ICs is 300 million in 2020 and the target quantity is 1 billion in 2025.

Motor vehicle < Power supply IC, magnetic sensor IC>

Expand high-value-added product lineup using our strength along with growth in automotive application market.

From the IR DAY Presentation on Dec 3, 2020

Passion to Create Value through



Strength of automotive IC - Technology acquired through nearly 30-year production experience Consistent quality system from development to manufacturing for zero defect

"High quality"

nsistent quality system from development to manufacturing for zero def Received "Good quality" award from Company T Received "Best quality" award from Company P

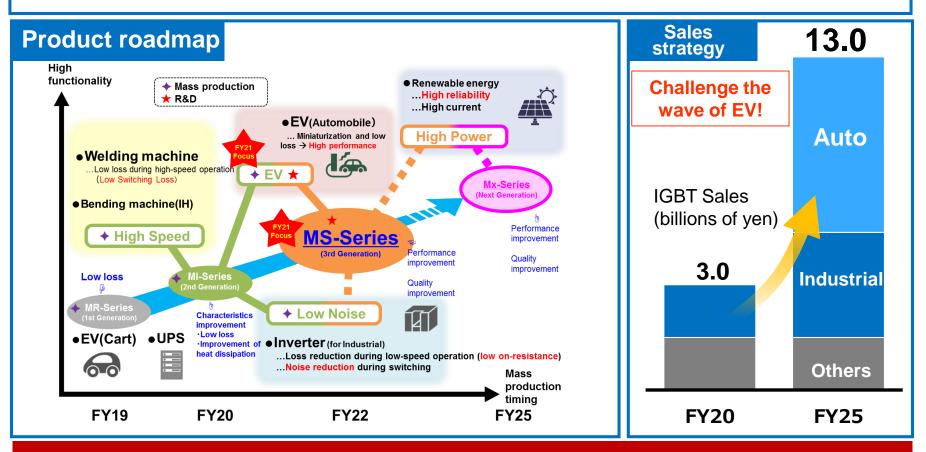
Designated as "Best supplier" for 4 years straight by Company D

Expand characterized product lineup based on the trust from customers earned through our high performance and high quality products. Expand our sales along with evolution of automotive applications and increased number of parts.

Industrial & Auto <IGBT>

Product strategy

- 1. Business development specializing in chip business -focusing on Greater China market-
- 2. Contributing to technological innovation in power equipment by minimizing loss, high speed, and high breakdown resistance
- 3. 8-inch new Fab to expand sales and automotive products



Contribute to carbon neutral through efficiency improvement and energy conservation

2020 3 billion yen \rightarrow 2025 13 billion yen

Infrastructure <CLEAN-Boost Technology>

MinebeaMitsumi Passion to Create Value through Difference

What is CLEAN-Boost _® Technology?

* Received IEEE Award in 2019 for related technology.

From the IR DAY Presentation on Dec 3, 2020

Technology to accumulate and boost small amounts of energy (1 µW) up to 30,000 times (30 mW) to enable wireless transmission, using **ultra-low power consumption (SOI technology)** * SOI: Silicon on Insulator

Realize "battery-less" wireless sensor.

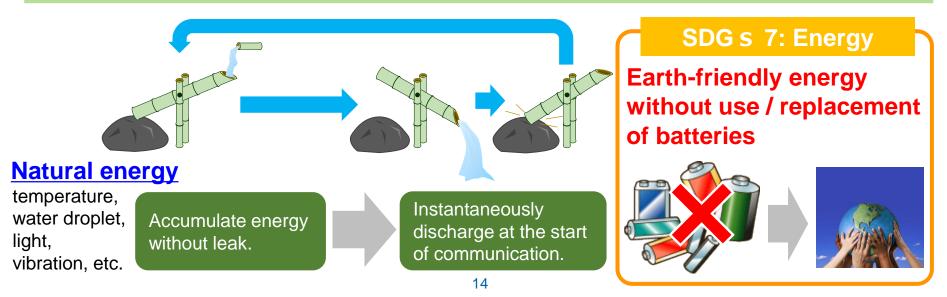
CLEAN-Boost_® Technology

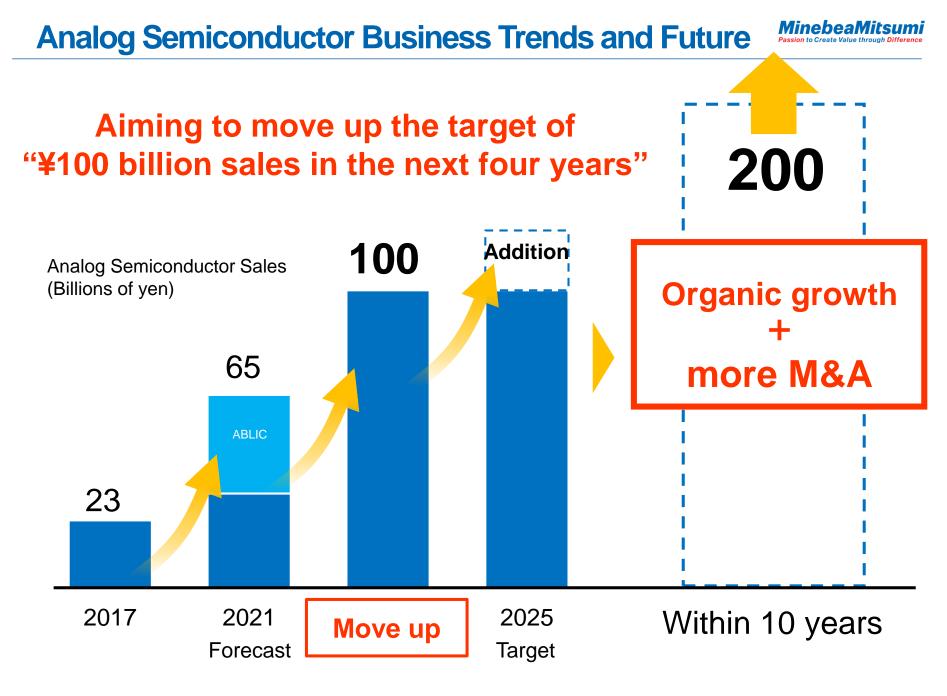
Store small amounts of energy and discharge it through wireless transmission.

Image

Accumulate small amounts of water and emit a sound like "Shishi-odoshi".

Accumulate natural force and earth force without leak to use them effectively.







Any statements in this presentation which are not historical are future projections based on certain assumptions and executive judgments drawn from currently available information.

Please note that actual performance may vary significantly from any particular projection due to various factors.

Factors affecting our actual performance include but are not limited to: (i) changes in economic conditions or demand trends related to MinebeaMitsumi's business operations; (ii) fluctuation of foreign exchange rates or interest rates; and (iii) our ability to continue R&D, manufacturing and marketing in a timely manner in the electronics business sector, where technological innovations are rapid and new products are launched continuously.

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