



Smart Life & Energy Business

A Lifestyle True to Oneself Creating Clean Societies

AloT connect white goods, solar, and healthcare to optimize your life.

We will expand renewable energy to create a carbon neutral world.

We aim to improve the Quality of Life (QOL) of all people while reducing environmental impact.











Future Direction

Sharp enrich people's lives and society through high-value-added products that incorporate core technologies focused on food, water, air, and the environment



<u>Develop core technologies and products</u> <u>to solve individual problems</u> Enrich people's lives and society through core technologies

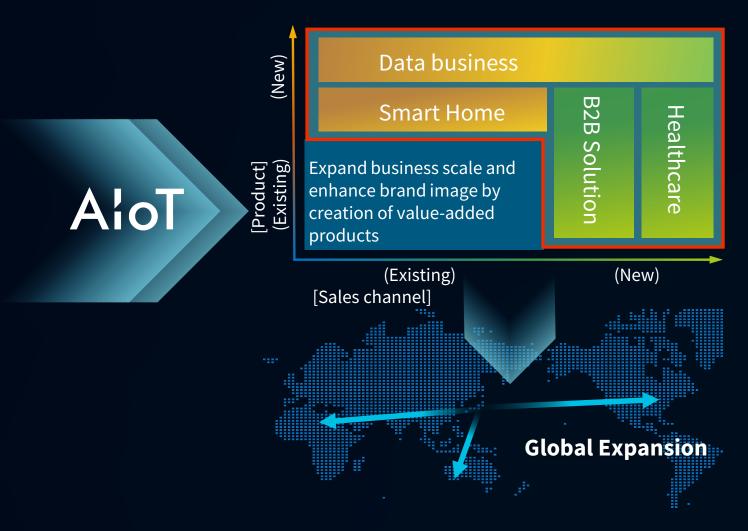


Target areas where we can utilize our core technologies

Core technologies



Target areas





Action Policies

New Business

Develop healthcare-related equipment to protect people's healthy life.

Provide solutions to support medical and nursing care settings.

Growth Business

Expand smart homes that create, store and conserve energy

Expand business scale by developing overseas blank or scarce areas

- Develop services to connect companies and users through AIoT platform
- > Expand B2B business by utilizing own accumulated data (home appliance big data)

Existing Business

> Improve brand image by shifting to high-value-added products









Centralized management

system

Expanding business to overseas blank or scarce areas.

Visualization/analysis of

healthcare data



Solutions for Medical and

Nursing Care

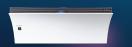
New Business

Growth

Business











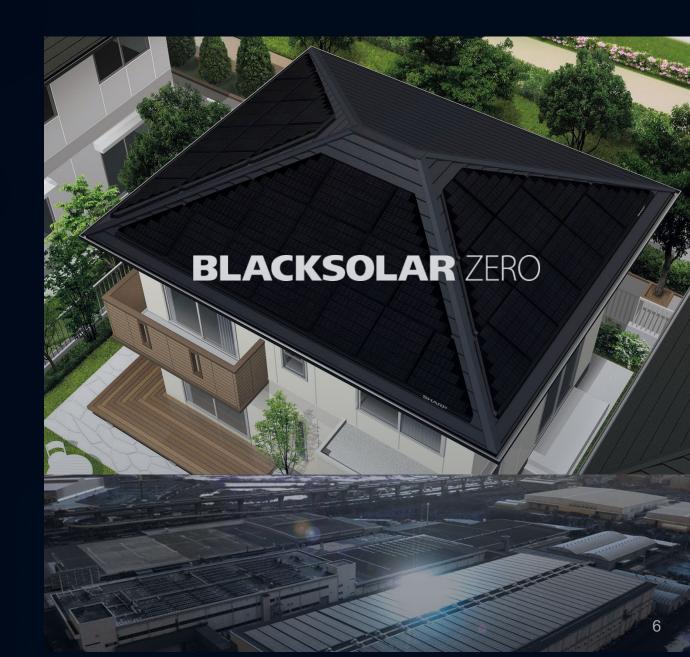






Smart Life & Energy Business

Our energy business aims to create a carbon-neutral world through the further expansion of renewable energy





Future Direction

New Business

> Cultivate new needs with new technologies to realize carbon neutral

Growth Business

> Develop the universe/automotive market with space solar

> Expand business with EV collaboration, S-ZEH for carbon neutral homes

Existing Business

Enhance efficiency of clean PV energy utilization with AI

Promote the adoption of renewable energy in the ASEAN region



Perovskite

New Business









Space solar



初期費用0円 *2

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Existing Business

Residential use Powe

Power purchase agreement

7







Smart Office Business - Transformation -

We will maintain and expand business areas of MFPs/PCs supported by customer touch points and customer base. Also, we will expand business in three new areas by leveraging our customer touch points.

MFP/PC business area

Expand customer base and business opportunities to support existing businesses

- ◆ Develop and launch strategic MFP products
- ◆ Strengthen PC One Stop Service for B2B customer base
- ◆ Expand hardware package sales and cross-selling

New/expanding business areas

Develop new business by leveraging the existing customer base

- ◆ Expand IT solution service business
- ◆ Expansion of visual solution business
- ◆ Enter the robotics business in earnest and develop market

MFPs: Customer base/customer touch points

76 countries

135 bases

500K+ customers

1,900+ channel partners

Office solutions (IT services)

Expand IT solution service business based on MFP customer touch points

New business

IT Service



Smart office



Workplace managed services



MFP Public service

コンピニのマルチコピー機で
暮らしをもっと使利に、もっと楽しく!

- ◆ Strengthen workplace managed services
 - Hardware managed service
 - Network/Security service
 - Application service
- Acquire IT service providers
- ◆ Expand smart office utilizing AI platform
 - COCORO OFFICE
 - SYNAPPX
- Develop all-in-one subscription/cross-selling
- Expand public print business
 - CVS MFP/content print services

Visual solution

Solve the social issues by expanding visual solutions business

New business





Professional projector



Touch display





Signage solution



New market

New business

- Develop ePoster*, ultra-energy-saving signage
 * in the process of Trademark application
- Expand IT services using AI technologies
- Strengthen sensing/analysis technology solutions

Existing business

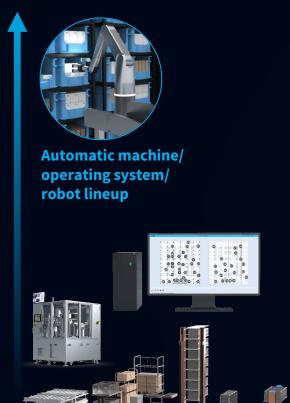
- Expand content distribution services
- Develop energy-saving LED/multi-device displays
- Expand cross-selling and acquire new customers

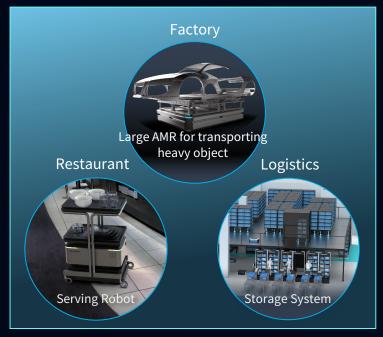


Robotics

Enter the robotics business in earnest by leveraging AI technology and expand the market

New business







Mobile Picking Robot

Factory

- Expand fully automated robot factory solution
- Develop deployment of custom-made equipment for EV manufacturing, etc.

Retail

- Expand robotics solution
 - Catering, cooking, dark store picking

Logistics

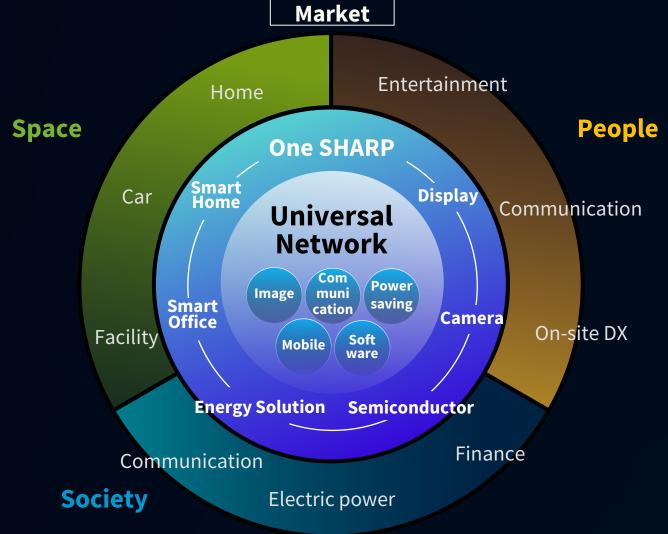
Expand storage system for tenant-type logistics warehouse







Future Direction



Create solutions that connect people, space and society as One SHARP



Business transformation

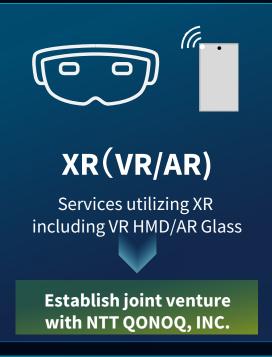


Integrate existing assets and next-generation communication technologies to realize anywhere, anytime connections



Business transformation













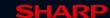
From 5.7 to 120-inches、 large variety of high-definition display products

Strengthen contacts between people and information

Create solutions that connect people, space and society



Display Device Business



Business Direction - Shift category for the future -

- 1. Downsize low-profit businesses and shift categories to high-growth, high-profit businesses centered on automotive and VR
- 2. Expand new businesses such as nanoLED, ePoster and next-generation solar cells

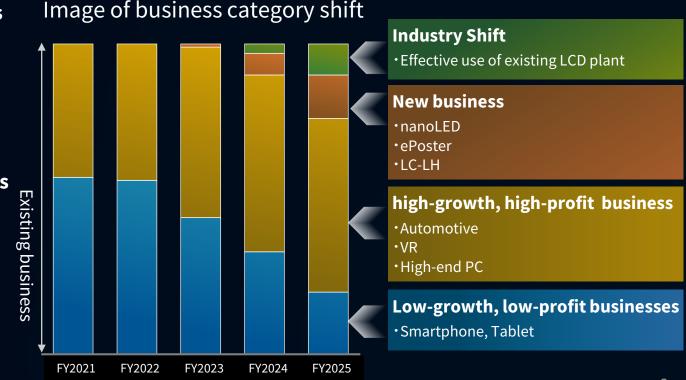
(1) Selection and concentration of existing businesses

➤ Downsize low-growth, low-profit businesses

Decrease in LCD demand due to OLED conversion of smartphone/tablet displays

(2) Creation and commercialization of new businesses

- > Expand business with new technologies
 - (1) nanoLED (next-gen self-luminous display)
 - (2) ePoster (reflective LCD/EPD)
 - (3) LC-LH (next-generation solar cell)





Business Direction - Shift category for the future -

Strengthen existing business

Automotive

Strengthen support for EVs and autonomous driving with super long display, etc.





Metaverse

Accelerate development of ultra-highdefinition displays to meet the growing metaverse market



Create new business

nanoLED

- (1) Self-luminous and inorganic material display made from QD lightemitting device
- (2) We can make with low cost, as utilizing existing LCD equipment and factories



FY2025

ePoster

Power line and primary battery is not required thanks to ultra-low power display and next-gen solar cell



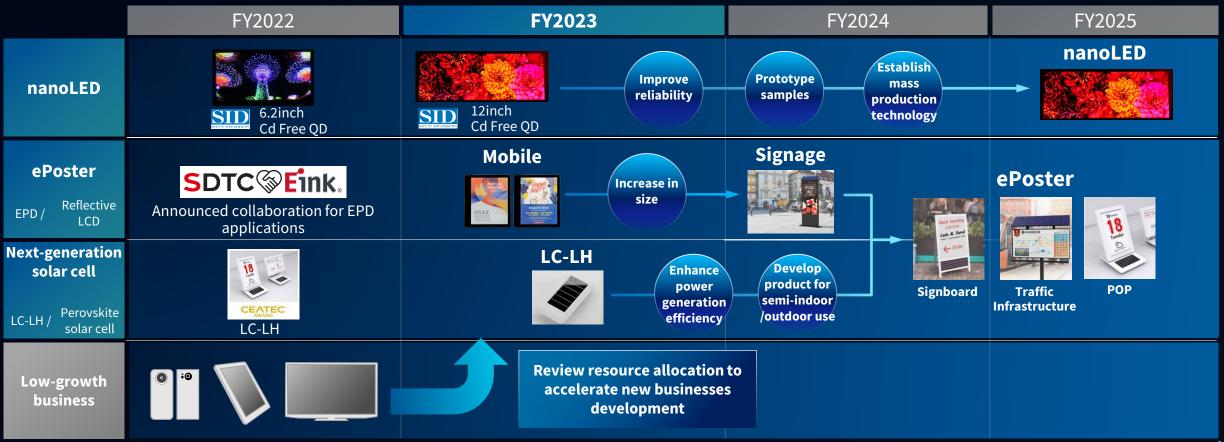


Mass production scheduled for FY2024



Business Direction - Shift category for the future -

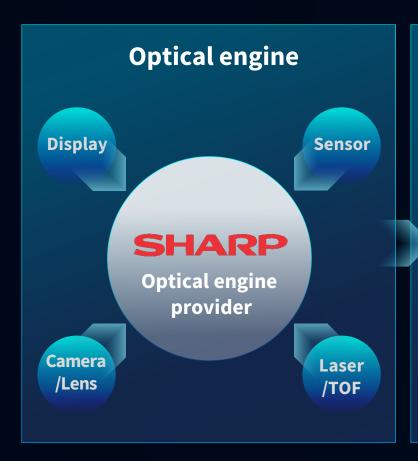
Review resource allocation to expand new businesses including nanoLED, ePoster and next-generation solar cells



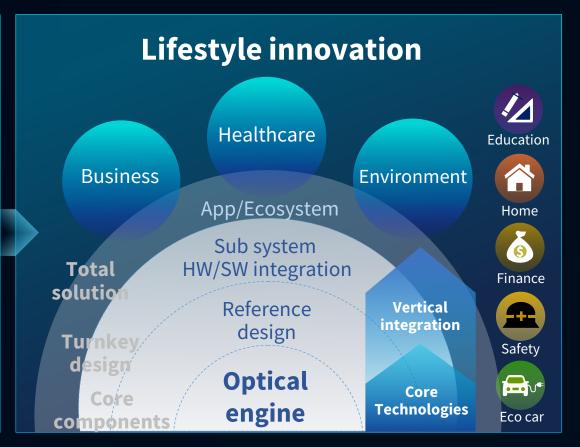




Technology Integration bring Lifestyle Innovation



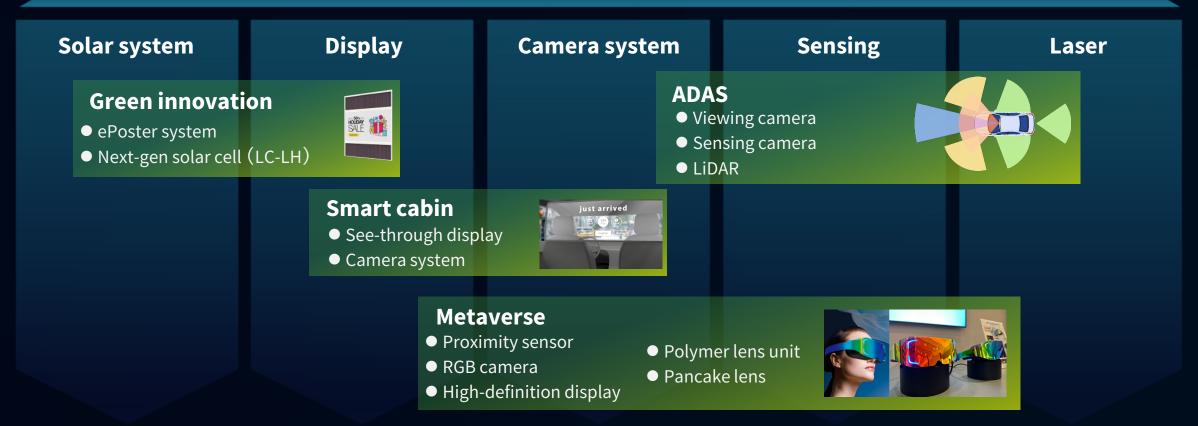






Starting with optical engine solutions, we aim to provide new value

SHARP optical engine solutions



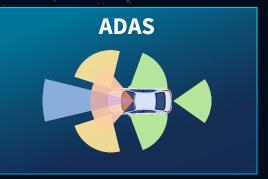


Global development center will accelerate development of optical engine













Establishment of Panel-Semiconductor Research Institute

- 1. We can promote technology development to realize One Sharp spiral strategy, as establishing Panel-Semiconductor Research Institute.
- 2. We will reduce duplicate costs significantly by converging development, design manufacturing of products









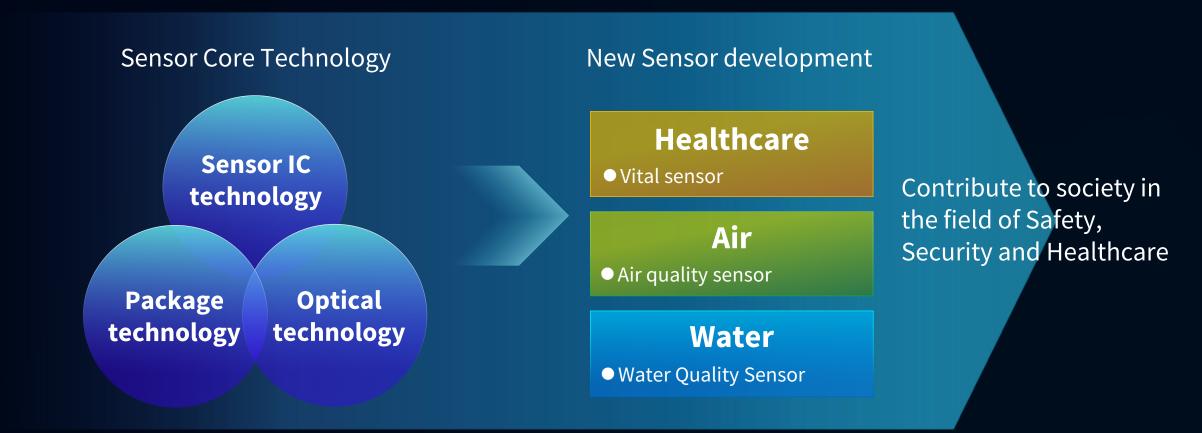




^{*}IGZO was jointly developed for mass production by Sharp and Semiconductor Energy Laboratory Co., Ltd.



We will accelerate development in new fields by leveraging our sensor device technology as a starting point.









Future Direction



IGZO

Micro-photonics

Micro-mechatronics

LTE • 5G

Functional materials

PCI

AloT PF









TECH-DA

2023年(創業 **111** 周年) **11**月 **11**日 November 11, 2023 (111th Anniversary) 東京ビッグサイト 東8ホール 11:00AM

Be a Game Changer