

Business plan and Growth potential

ACSL Ltd. February 14th, 2023

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Company outline



Company outline

Corporate Name

ACSL Ltd.

Representative Satoshi Washiya (President and

Representative Director)

Established November 2013

Location 3-6-4 Rinkai-cho, Edogawa-ku, Tokyo

Hulic Kasai Rinkai Bldg. 2F

No. of Employee

72 (as of Dec2022)

Description of Business

Manufacture and sale of commercial drones and provision of solution services for unmanned and IoT applications using

autonomous control technology.

Ratio of engineers

Approx 59%

of foreigners

Approx. 19

ISO

2

ISO9001 (Quality Management) ISO27001 (Security) (SOTEN is at the same standard as ISO 15408 (Security) Client

196

companies

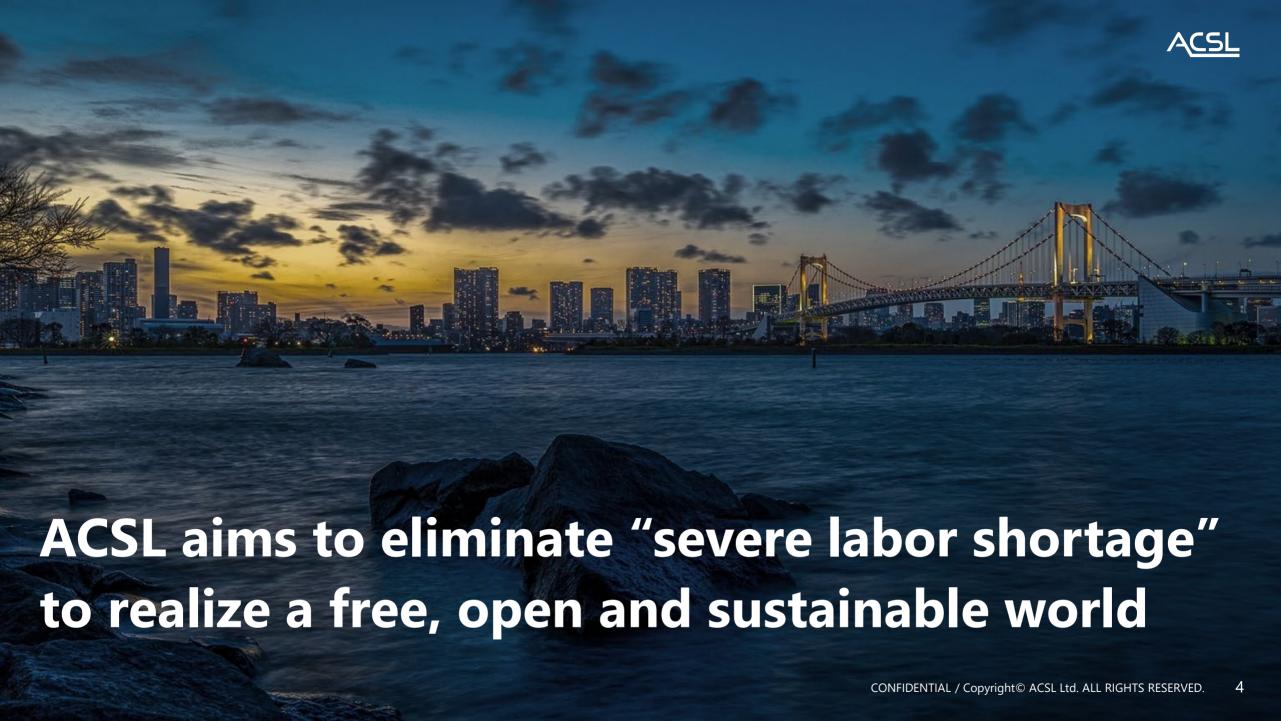
At a glance¹

^{1:} Percentage of engineers and number of foreign employees are as of December 31, 2022. The number of customers is the total number of customers from FY19/03 to FY22/12.



- 1 Corporate overview, Core competency, and Business model
- 2) Market overview
- 3 Medium-term management policy "ACSL Accelerate FY22"
- 4 Business highlights and current progress
- 5 Risk information
- 6 Appendix

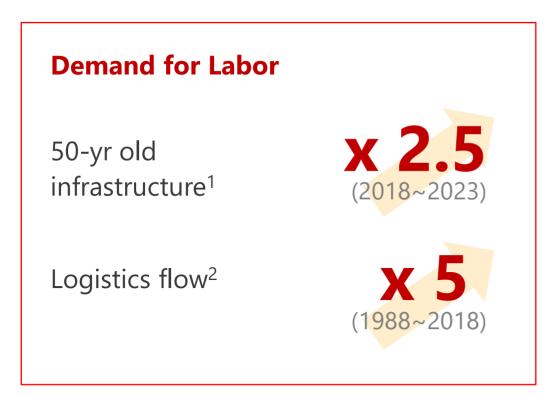
Agenda

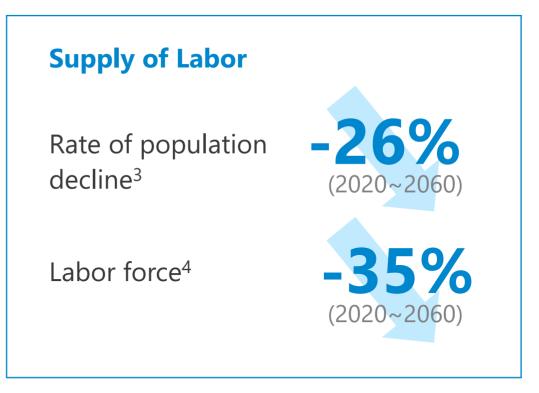


The Problem- Disequilibrium in the Labor Market



Labor-savings and unmanned operations are an urgent social issues to solve, as demand and supply of labor force is becoming more and more imbalanced





^{1:} Ministry of Land, Infrastructure, Transport and Tourism, "Social Infrastructure Today and in the Future, Social Infrastructure Today and in the Future"

^{2:} Ministry of Land, Infrastructure, Transport and Tourism, "Fiscal Year 2018 Delivery Service Performance Data" (Japanese only)

^{3: &}quot;White Paper on Aging Society 2019" by the Cabinet Office

^{4: &}quot;White Paper on Aging Society (Entire Version)", Cabinet Office





MISSION

Liberate humanity through technology

VISION

Revolutionizing social infrastructure by pursuing cutting-edge robotics technology

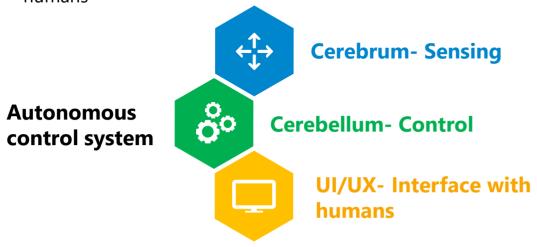
ACSL - a pioneer in drone manufacturing in Japan



ACSL manufactures application-specific drones using proprietary autonomous control technology, and upgrades operations at client site

Core technology: Autonomous Control System

Our proprietary control technology consists of the "cerebrum", which actively grasps the surrounding environment, the "cerebellum", which controls movement of robotics and "UI/UX" that serves as the interface with humans



Competitive advantage: Knowing our Client

ACSL works closely with clients to understand their operations and the difficulties they face. We develop drones tailored to individual applications through trials and testing.























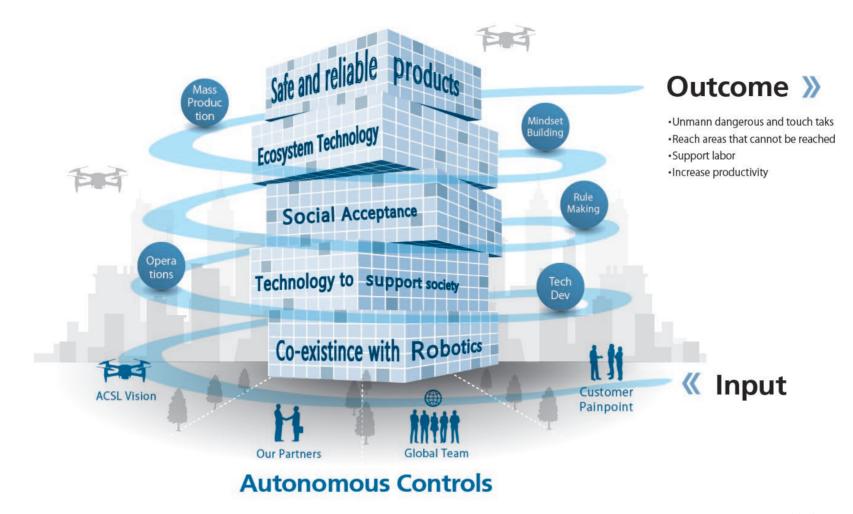


ACSL delivers safe and reliable drones to society through co-creation with our customers



Co-creation Approach

LIBERATE HUMANITY THROUGH TECHNOLOGY



ACSL - What we do



Our business constitutes demonstration and sales of platform drones and promoting development, mass production, and sales of application-specific drones.



Solution development

Sales of evaluation and platform drones for technology verification, as well as proof-of-concept trials and custom development based on customer requests



Sales of application-specific drones

Development, mass production, and sales of application-specific drones using the knowledge gained from demonstration tests

Drone market value-chain and where ACSL stands



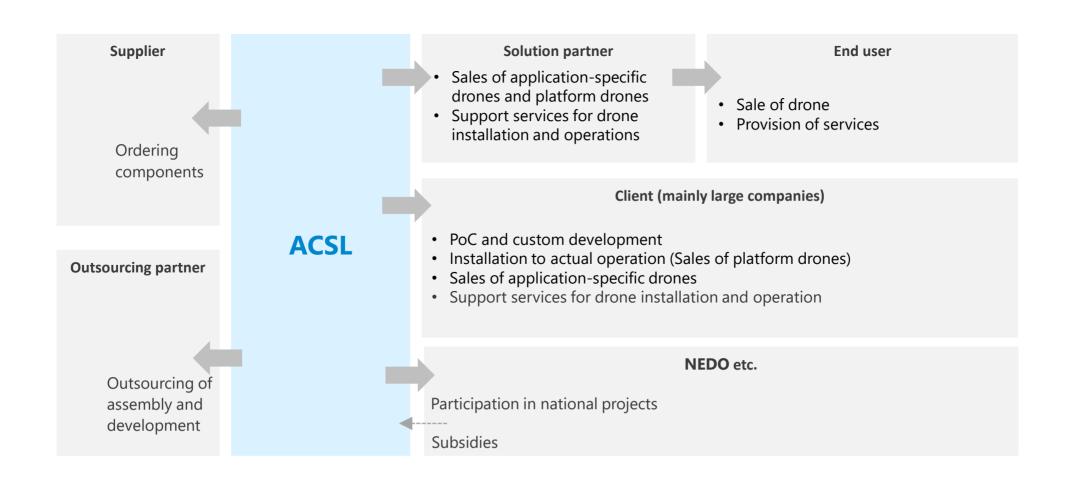
ACSL can provide agile development required in the early stage and mass production required in the mature stage at the same time.

| Value chain | Prototyping (PoC) | Mass production | Systematization | Sales and support |
|-----------------------------|--|--|---|---|
| Role of ACSL | Creating Solutions | Sales of application- specific drone | Support for systemization and operational implementation is provided in cooperation with other companies | |
| Outline | Sales of platform drones for evaluation, trials and custom development | Development, production and sales of mass-produced application-specific drones | Development of data analysis systems, operation systems, etc. for each application | Support for drone operation and implementation in the actual site |
| ACSL Profit Structure | the scope of each project Costs: | | Sales: Continuous sales from maintenance, parts sales, training, etc. Costs: Parts material costs, labor costs for maintenance and training | |

ACSL - Our Business Model



The main source of revenues is from the provision of demonstration services and the sale of drones our clients





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Macro environment surrounding the Japan drone market is a tailwind



In addition to the increasing awareness to economic security, environment surrounding Japan drone market is favorable, supported by steady progress of Digital Rural City concept and the Aviation Law amended on schedule

01

Economic security Data security

Geopolitics increase the importance of economic security. Concerns around security and technology leaks becoming apparent as defense-related budgets increase, and demand for domestic production has emerged.

02

Revision of Aviation Law, Level 4

Beyond visual line-of-sight flight over manned areas (Level 4) is now permitted as Aviation Law amended on December 5, 2022. 03

Digital Rural City Smart City

Projects related to Digital Rural City concept being formed in various regions of Japan, accelerating regional development through implementation of drones for deliveries and disaster response. 04

Decarbonization, the clean energy

Emergence of O&M needs due to increased investment in clean energy facilities and the trend toward decarbonization through drone logistics

Regulations to allow Level 4 flight started, as Avian Law amended on schedule



Regulations to allow Level 4 flight started after Aviation Law to related to beyond visual line-of-sight flight (Level 4) was amended on December 5th 2022

| June 2021 | Revised Civil Aviation Law passed The Diet passed an amendment to the Civil Aviation Law to allow for Level 4 flights | | |
|-----------------|---|--|--|
| June 2022 | Mandatory drone registration / remote ID ¹ Mandatory registration of unmanned aircraft, display of registration symbols and remote ID capabilities | | |
| July 2022 | Cabinet approves December, as the enforcement date for the revision of the Civil Aviation Law. | | |
| Aug~Nov 2022 | Public comments related to type certification of unmanned aircrafts MLIT conducting public comments on regulations to enable Level 4 flights | | |
| Dec 5 2022 | Ministerial order to amend part of the regulations related to Civil Aviation law | | |
| ~end Mar 2022 | Realize Beyond-Visual Line of Sight flight over populated areas (Level 4) | | |

Ministry of Land, Infrastructure, Transport and Tourism Unmanned Aircraft Level 4 Flight Portal Site

Below regulation started from December 5, 2022







^{1:} A device that remotely transmits drone identification information via radio waves
Source: Ministry of Land, Infrastructure and Transport Public Comments
Public-Private Consultative Meeting for Environmental Improvement Related to Small Unmanned Aircraft (18th meeting) "New Institutional Improvements, etc. Toward the Realization of Level 4 Flights".

Numerous drone delivery projects adopted under the Digital Rural City concept and decarbonization-related projects



Potential of drone delivery being recognized and numerous drone delivery projects related to the Digital Rural City concept and carbon dioxide emission control measures have been adopted by the Japanese government





- Basic policy approved by the Cabinet in June 2022, using digital technology to solve social issues in rural areas.
- Accelerating rural development by drones in various areas of Japan using project funds from the Digital Rural City Initiative
 - Tsuruga, Fukui Prefecture: Directly connected drone logistics in urban and depopulated areas
 - Sakai, Ibaraki: New smart logistics using drones and self-driving buses
 - Kamishihoro, Hokkaido: Demonstration of fertilized egg transplantation using a drone



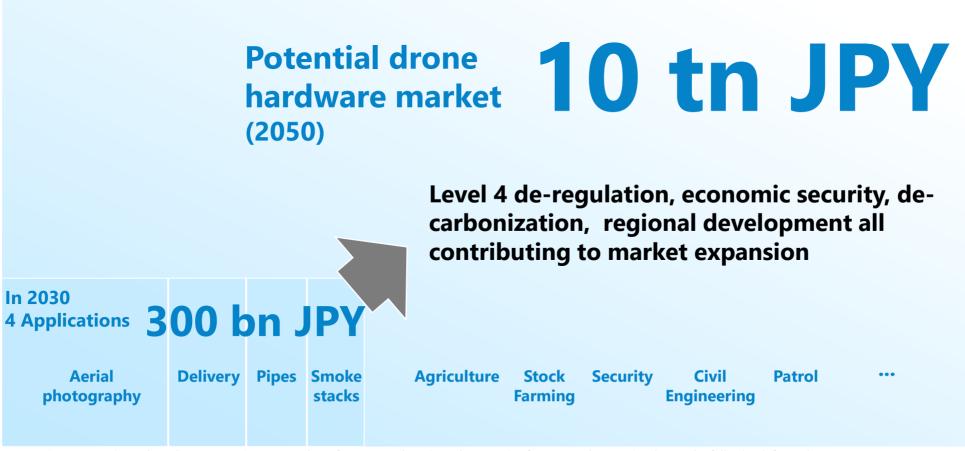
Subsidy for carbon dioxide emission control project

- Subsidy for carbon dioxide emission control project
 - Ministry of the Environment led a project to promote the introduction of advanced technologies to simultaneously achieve social transformation and decarbonization of logistics and transportation.
- Subsidies to business plan development for the practical application of drone deliveries in depopulated areas
 - 12 out of total 14 applications for practical use of drone deliveries in depopulated areas have been adopted as subsidized projects.

Macro environment around Japan drone market will support steady growth of the drone market



Macro environment will accelerate market creation against a potential drone hardware market of 10 trillion JPY, with 300 billion JPY market unlocked by 2030 in four major applications.



Note: Company estimate based on assumptions to number of assets, total service values, service frequency, drone unit sales on the following information Ministry of Land, Infrastructure, Transport and Tourism, "Trends Surrounding Logistics"

Ministry of Land, Infrastructure, Transport and Tourism, "Conditions Surrounding Infrastructure Maintenance"

Cabinet Secretariat, "Estimation of the size of the private sector market for national land fortification"

Overseas drone market is at a tipping point, and economic security is of prominent importance



Overseas drone market has grown at a faster pace than Japan's but has reached a turning point starting with recent economic security concerns, and there is a growing movement to eliminate Chinese drones in the U.S., India, and other countries.

Macro environment surrounding the overseas drone market

Economic Security and Data security

Russian-Ukrainian War and the geopolitical situation increase the importance of economic security. Policies on national security, data security, and countermeasures against technology leaks are prominent.

Environmental awareness and robotics

Utility of drones as a solution to manpower saving, decarbonization, and clean energy is on the rise.

Drone market trends in each country



- The National Defense Authorization Act (NDAA) is in effect in the U.S. and prohibits government procurement of drones from Russia and China.
- Chinese drone manufacturer DJI was designated as a "China Military Corporation" by the Department of Defense in Oct 2022

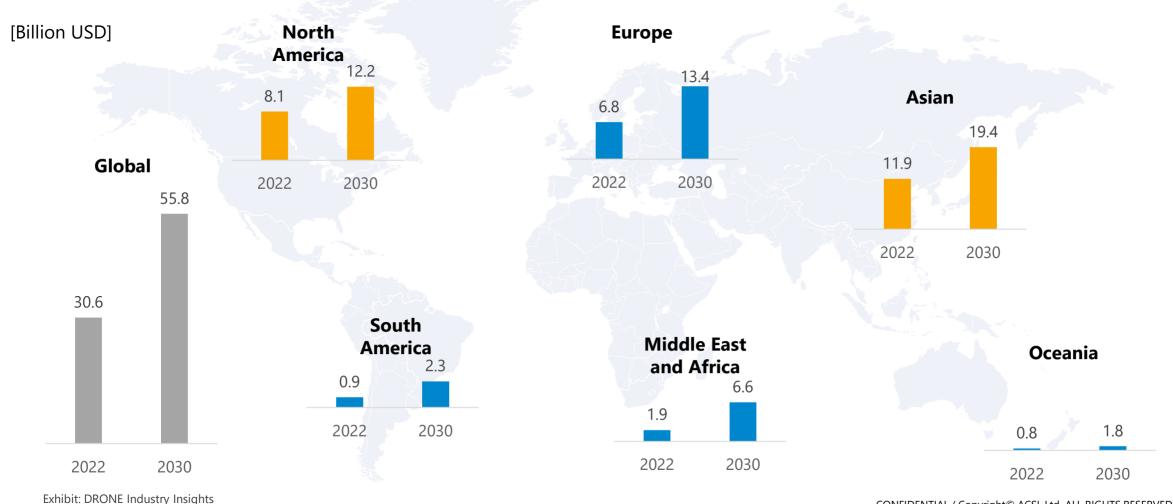


- From Feb 2022, India has banned the import of foreign-made drones to promote Make-In-India (Drone Shakti Scheme).
- A Production Linked Incentive (PLI) of Rs. 26,058 crore has been structured over three years to promote Make-In-India. Drones also fall under this category.

Globally, North America is the second major drone market after Asia



Global drone market is estimated to be worth USD 30 Bn in 2022, with Asia, including India, as No.1 drone market, followed by North America as the No.2, indicating that the overseas drone market has great potential.



ACSL can build a unique positioning in the overseas drone market



ACSL can build a unique positioning in the overseas drone market, where the need for economic security is on the rise. Key words for the positioning are: "economic security," "enterprise support," and "application-specific".

Economic security

- Experience in developing drones compatible with economic security concerns, incl. secure support and stable procurement of parts
- SOTEN is a drone designed with economic security targeted for Japanese government procurement

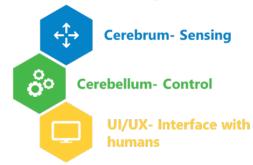




Enterprise support

- ACSL owns proprietary proprietary autonomous control system, which enables provision of customization for enterprise requirements
- ISO9001 and ISO27001 are available, and ACSL has experience in shipping and market supporting +600 units per year in Japan.

Autonomous control systems





Application-specific

- Develops application-specific drones rather than general purposes drones, which is niche but highly substitutable for business operations
- Safe and secure technical capabilities that enable the development of Level 4compliant drones in Japan



ACSL competitive environment



Industrial drones need to have a capability and characteristics sufficient to be adopted to specific operations, making general-purpose drones difficult to introduce to industrial operations.

Major drone markets and key models

Drones we deploy Personal use (B to C) Industrial applications (B to B) **Aerial photography** Inspection **Delivery Disaster prevention** PF2 PF2 PF2 **General Purpose drones** Mainly inexpensive foreign Can be used for general (mainly Chinese) general-Other companies: Mostly foreign Other companies: Mostly large Other companies: Mostly foreignpurpose drones purpose applications delivery drones such as foreign-(mainly Chinese) general-purpose made (mainly Chinese) generalmade VTOL drones drones with GPS support purpose drones Medium **Aerial Aerial Photography Delivery Photography Application-specific Smokestack** Other companies: Very limited Other companies: Drones with Inspection drones with Level 3 or higher flight performance and safety drones No application-specific drones safety performance features that can withstand Flight performance and for personal use **Pipe Inspection** disaster prevention applications characteristics optimized are limited. for each application Other companies: Limited drones for each inspection application.



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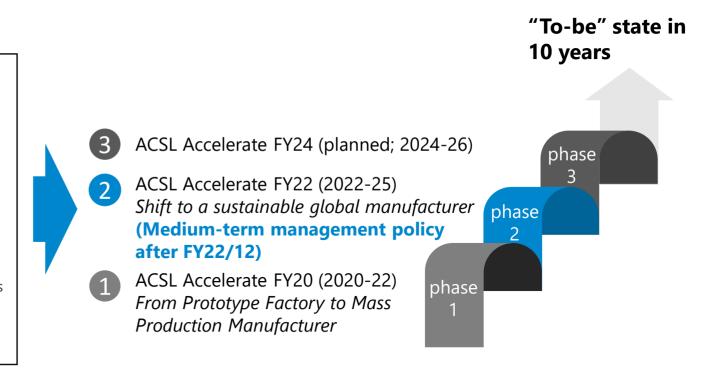
ACSL defined the "To-be" state in 10-years. Executing management policies to realize the goal



In August 2020, ACSL set forth its "Master Plan" of the "To-be" state in 10 years, and formulated a rolling midterm management policy "ACSL Accelerate" to realize the Master Plan.

Master Plan

- Global Pioneer in solving social infrastructure issues
- 2 More than 100 bn JPY sales, 10 bn JPY sales profit
- 3 Mass production manufacturer that produces 30,000 units/year
- 4 Supporting the country with de facto standards
- 5 Developing cutting-edge technologies for autonomous control
- 6 Nurturing the industry's most advanced and talented human resources
- 7 Constantly working to improve its corporate value and financial KPIs





ACSL Accelerate FY22 Business Strategy and Goals



5 pillars for growth identified in this mid-term plan to realize a sustainable business with global footprints.

ACSL Accelerate FY22

Shift to a sustainable global manufacturer

Development and commercialization of four application-specific drones

Development of new application drones and compliance with security

Full-scale launch into the Indian market

Reinforce ESG initiatives

Exploring potential adaptation of autonomous control systems to other fields

Characteristics of the launched application-specific drones



Developed and launched 4 application-specific drones by the end of 2022. Total of 663 drone units sold in FY22, primarily led by SOTEN









SOTEN (Aerial photography)

- Secure drones targeting government procurement, etc., in the context of economic security
- Four types of cameras can be hot-swapped, and the drone is wind-resistant, dustproof and waterproof

Fi4 (Pipe inspection)

- Drone capable of flying in pipes such as water and sewage pipes, codeveloped with NJS
- Screening surveys can be conducted to narrow down the scope of detailed surveys

Smokestack inspection

 Autonomous flight to capture highly accurate inspection images of smokestacks, boilers, and water control tanks at factories and power plants in dark locations where it is GPS-denied

AirTruck (Delivery)

- Delivery drone capable of flying 20 km with 5 kg payload
- KDDI SmartDrone and Aeronext form AirTruck Starter Pack to expand nationwide

Development of new application drones



ACSL will initiate development of additional application-specific drones based on intel gathered from various successful trials. Furthermore, all products will comply with the market security trends.

Demonstrated applications (examples)

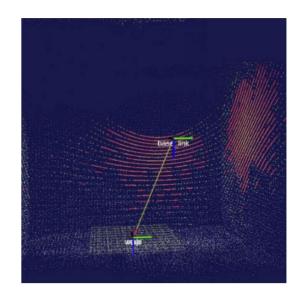


Wind turbines

Automated blade
inspection for wind
power generation



Automation of indoor inspection at construction sites, power plants, etc.



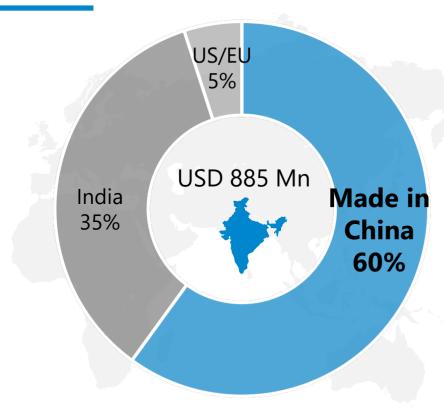
ShipsCargo hold inspections for tankers and cargo ships

Full-scale launch into the Indian market



With increasing awareness for economic security, ACSL will partner with local companies to capture the replacement demand for Chinese drones.

Drone origin in the India Market (2021)



Launch of ACSL India, a local JV

Active recruitment of local talent and establishment of manufacturing, sales, and maintenance operations

Launch of secure drones, SOTEN and PF2

Obtain local sales certification (QCI) for SOTEN and PF2, both of which comply with the demand for higher security

Business collaboration with local companies

Build local use cases through collaboration with local companies and participate in major drone related exhibitions in India

Public affairs

Actively share information with local regulators to accelerate deregulation and technology adaptation of Japanese drones

Reinforcing ESG initiatives



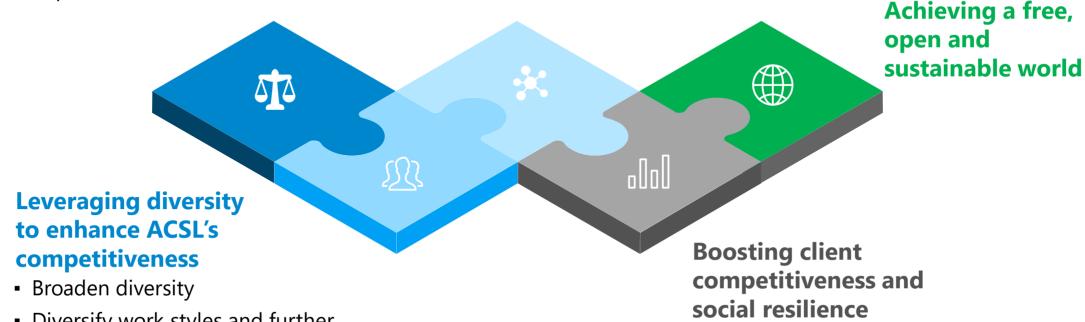
To build our competitive advantage, ACSL will reinforce ESG initiatives that will ultimately contribute to upscaling clients' competitiveness and social resilience.

Adherence to Strong Governance

Maximize organizational robustness and boost governance as the foundation of ACSL's corporate activities

Technology for sustainability

- Regional revitalization and development
- Reinforce disaster prevention/response and environmental initiatives

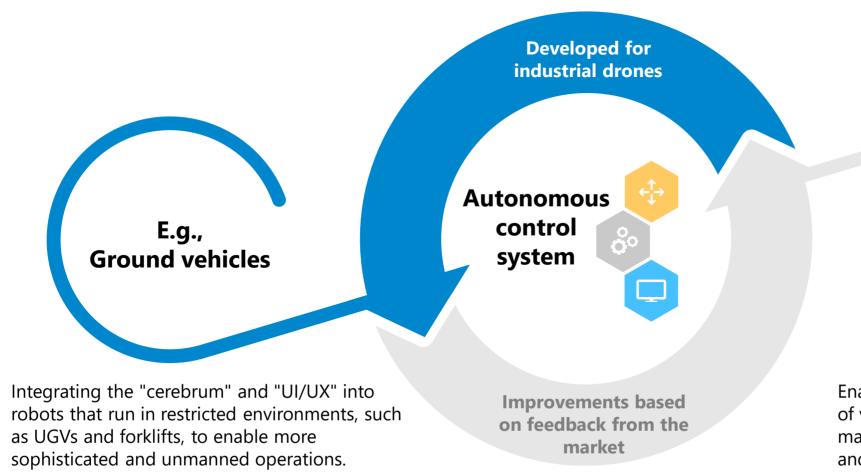


 Diversify work styles and further enhance career development

Exploring adaptation of autonomous control systems



ACSL will explore the adaptation of autonomous control systems through industrial drone development to other robotics to promote unmanned systems in other fields.



E.g., Agricultural and logistics machinery

Enabling labor-saving and unmanned use of various machines (e.g., carts, maintenance vehicles) used in agriculture and logistics.

ACSL will continue to target the end goal of ACSL Accelerate FY22 with 10 Bn JPY in net sales and 1 Bn JPY in operating income



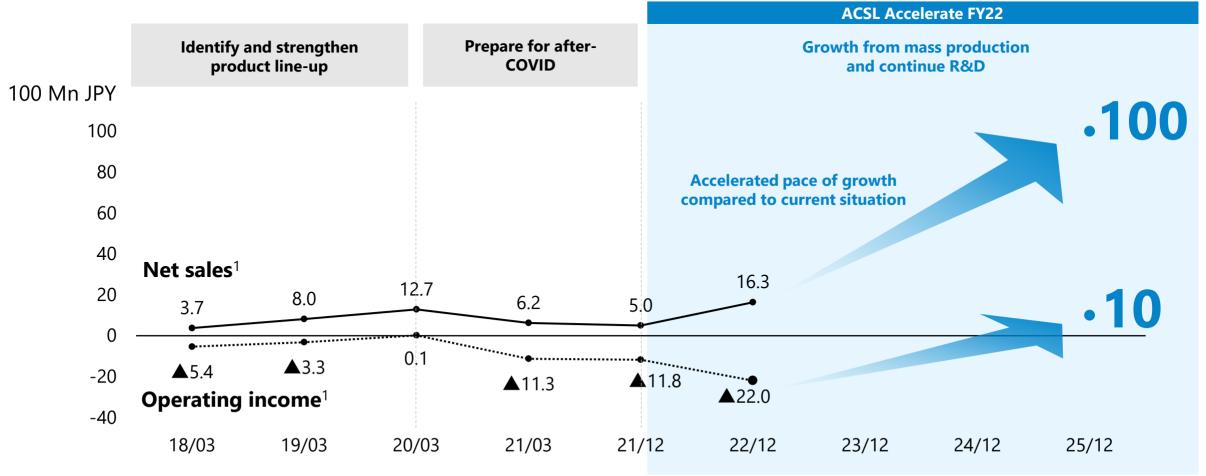
In order to achieve the goal set forth in the "Master Plan", ACSL will continue to achieve the 2025 target that was set in the ACSL Accelerate FY22 – net sales of 10 Bn JPY and operating income of 1 Bn JPY

ACSL Accelerate FY22 Master plan Current term 2022 2025 2030 1.63 Bn JPY 10 Rn JPY 100 Bn JPY **Net sales Operating** income **10** Bn JPY **▲2.2** Rn IPV

Accelerated growth required to achieve the numerical targets in ACSL Accelerate FY22



In order to reach the numerical targets for 10 Bn JPY net sales and 1 Bn JPY operating income, accelerated growth from the current pace is essential. Additional initiatives required in addition to the current strategy.



Keywords for FY23 strategic policy are "Steady Japan growth" and "Rapid overseas growth"



In FY23, ACSL will leverage its strength to meet the increasing economic security needs to achieve steady growth in Japan as well as fully expand overseas, including India and the U.S., to achieve rapid growth



Steady Japan growth



Rapid overseas growth

Strategic policy

- Quickly reflect market feedback to the four applicationspecific drones already launched and move products from launch to growth phase
- Focus on improving gross profit by improving procurement and avoiding semicon price hikes and parts shortages
- Focus on small-scale, effective development instead of large R&D investments

- US: Obtain export licenses and comply with local regulations for SOTEN to meet extremely strong economic security needs, and launch in the US
- India: Leveraging the advantage of being a Japanese manufacturer and enable local production to meet the Make-in-India policy, and models already launched in Japan will be relaunched in India.
- Focus on marketing and public relations to improve global presences

Performance targets

 Japan net sales equal to or greater than the net sales of 1,635 mn JPY in FY22/12 In terms of overseas net sales, though there are high demand created due to economic security and ACSL has already received backlogs of 140 Mn JPY from India, it is difficult to make a reasonable forecast at this point due to uncertain time frame for complying with laws and regulations and obtaining export licenses in each country

Specific earnings forecasts are not disclosed as it is difficult to calculate appropriate and reasonable figures at this time due to anticipated large fluctuations in performance caused by macroeconomic environment changes such as semiconductor price hikes, component shortages, and exchange rate.

Announced fundraising of 3.56 Bn JPY on Jan 20 for "Rapid Overseas Growth" in FY23



Raised 1.73 Bn JPY at the time of issuance through the issuance of common stock and convertible bonds, and will raise additional 1.83 Bn JPY while reducing the impact of dilution through the issuance of fixed exercise price private

| | Common stock | Convertible bond (Bonds with subscription right) | Private warrants | | |
|---|---|--|---|--|--|
| Allottee | | CVI Investment, Inc. | | | |
| Amount to be procured | 0.34 Billion yen | 1.39 Billion yen | 1.83 Billion yen¹ | | |
| Total amount to be raised | | 3.56 billion yen | | | |
| Number of (potential) shares | Common stock of the Company 220,500 shares | 700,000 shares – 1,680,169 shares (Lower limit conversion price~ Upper limit conversion price) | Common stock of the Company 920,500 shares | | |
| vs. number of shares outstanding ² | 1.8% | 5.7% - 13.6% | 7.4% | | |
| Pricing ³ | Issue price 1,539 yen (93% of the closing price on the day preceding the resolution date) | Conversion price Initial 1,985 yen (120% of the closing price on the day preceding the resolution date) Upper limit conversion price: 1,985 yen Lower limit conversion price: 827 yen | Exercise price 1,985 yen (120% of the closing price on the day preceding the resolution date) | | |
| Period | - | Redemption date: February 8, 2027 | February 7, 2023 - February 8, 2027 | | |
| Lock-up | No fundraising involving an issuance of shares, excluding third-party allotment to strategic partners for 180 days after the closing date of this transaction | | | | |
| Conditions for Revision of Exercise Price | - | The conversion price will be revised every 6 months (8 times in total) to 90% of the lowest daily VWAP during 10-consequitive trading days immediately prior to August 6 of each year from 2023 through 2026, and to February 6 of every year from 2024 through 2027 | No exercise price revision will be made. (See next page) | | |

^{1:} The sum of the initial paid-in amount and the total amount to be paid upon exercise of warrants. The amount of funds raised will decrease if the Stock Acquisition Rights are not fully exercised within the exercise period, or if the Company purchases and cancels some of the Stock Acquisition Rights 2: As of December 31, 2022

^{3:} Both the issue price and conversion price are rounded up to the nearest one yen.

Investment to following areas is important to capture the tailwind



Development and evaluation of application-specific/platform drone

Drone development and evaluation

- Development and evaluation of application-specific drone for aerial photography (SOTEN), pipe inspection and smokestack inspection
- Secure and Level 4 compliant for platform drones
- Development and evaluation of drones for new application

■ Mass production

 Mass production design, manufacturing process design and procurement setup, etc.

1,919 Mn JPY by 2024 December

Working capital including R&D expenses for overseas business expansion

■ India and US market

 Customization of drones for local compliance, support for local radio systems, integration to flight management systems and functional development for export control

Establishment of commercial team and structure

 Selection of local partners, establishment of sales structure including inventory management, and development of customer support system

1,000 Mn JPY by 2024 December

Development of TAKEOFF app

- TAKEOFF is the proprietary ground station software for autonomous drone flight
- Further development of TAKEOFF application functionality, user interface, user experience, and development of linkage to external systems

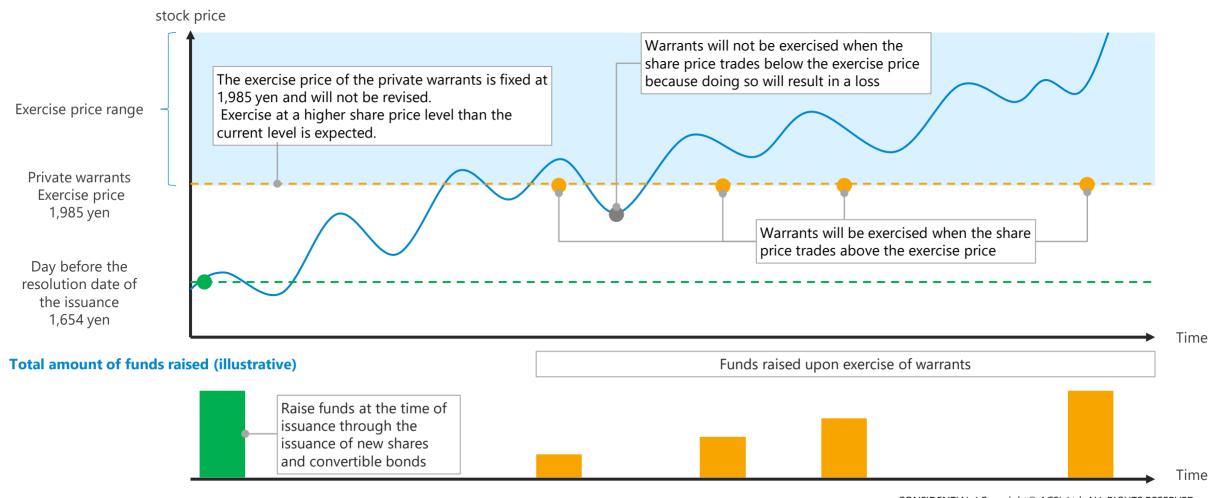
500 Mn JPY by 2024 December

Financing Mechanism



Raise a fixed amount at the time of issuance while reducing the impact of dilution by fixing the number of shares to be issued upon exercise of warrants

Relationship between Stock Price and Financing



Further expansion trough successful initiatives



Overseas market entry, development of new applications, and adaptation of autonomous control systems to other fields will provide opportunities for further growth.

Market Expansion

Annual sales target of 100 bn JPY by 2030

Hardware market size¹

300 bn + JPY > 1/3

Aerial photography: 120 bn~ JPY

Delivery: 75 bn~ JPY

Pipes: 60 bn~ JPY

Smokestack: 45 bn~ JPY

Market Share

Even if competitors enter the market as the market expands, ACSL will maintain competitive advantage and achieve top share.

Market Expansion through entering overseas market

Expansion into overseas markets, particularly in India and other Asian countries

Commercialization of new Application-specific Drones

Development of new applications such as wind turbine inspection and indoor patrol

Adaptation of autonomous technology to other fields

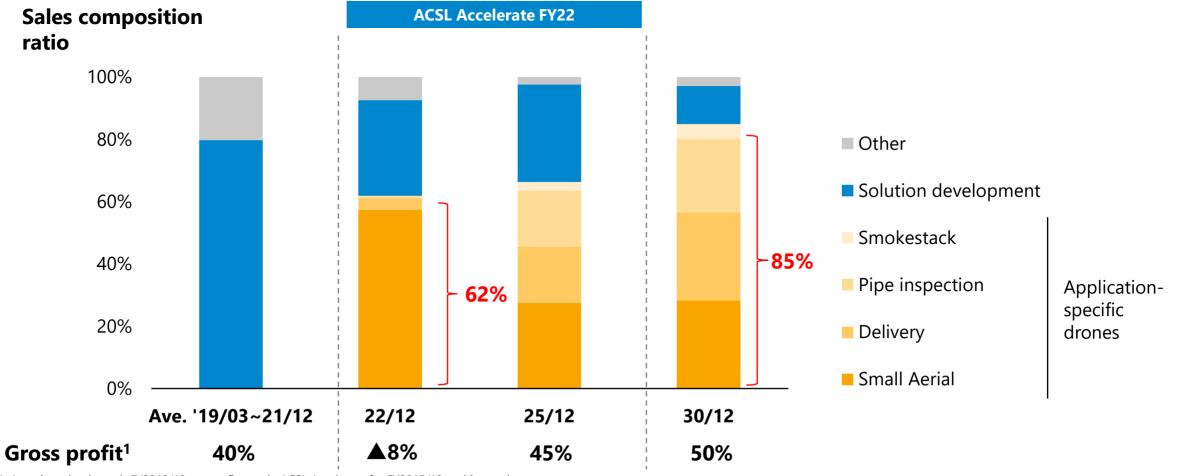
Exploring other robotics fields where our autonomous control technology can be applied

Proliferation of technology

Accelerate overseas expansion toward FY25 and change sales composition to mainly drone unite sales



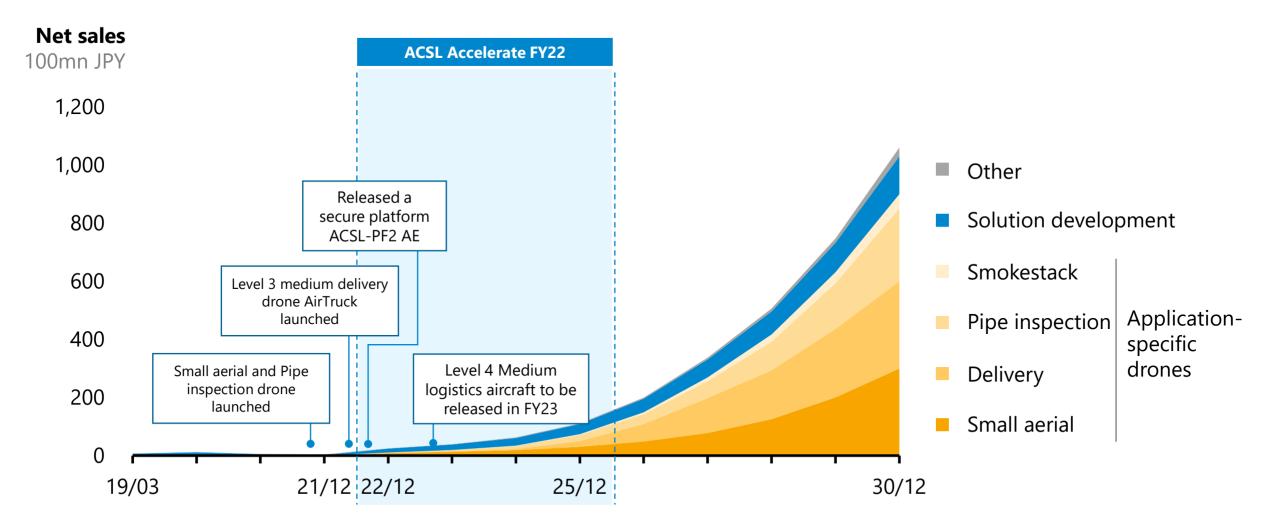
Application-specific sales increased significantly in FY22/12 to divert away from a man-power based sales to drone unit sales, targeting 85% of total sales in FY30/12. Further change to a drone unit sales-oriented business by fully ramping up overseas.



Rapid revenue growth achieved by shifting to drone sales



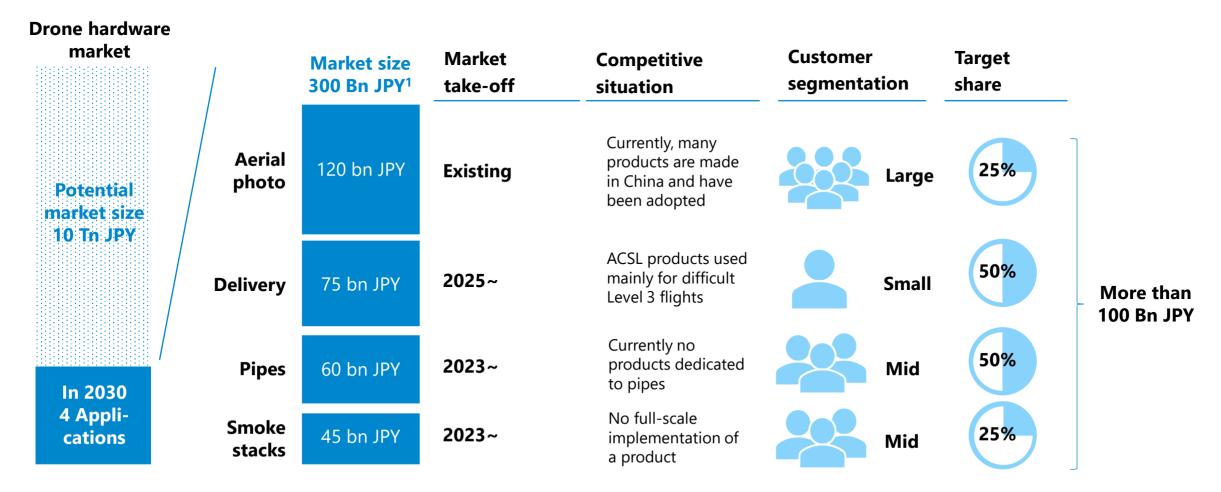
Early growth will be led by small aerial SOTEN and pipe inspection Fi4. Deliver will start growing from 2025



Aiming for net sales of 100 Bn JPY in 2030



In 2030, ACSL aim to achieve sales of 100 Bn JPY or more by mass-producing and socially implementing the four applications identified in the current business strategy



^{1:} Estimated by us based on the total number of equipment, facilities, and services for each use, frequency of use, and unit cost of aircraft.



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FY22/12 Business highlights



Steadily executing on the 5 strategies set forth in the ACSL Accelerate FY22

| Development and |
|----------------------------------|
| commercialization of |
| four application-specific drones |

Development of new application drones and compliance with security

Full-scale launch into the Indian market

Reinforce ESG initiatives

Exploring potential adaptation of autonomous control systems to other fields

Strategy in the mid-term management policy

Productization of 4 application specificdrones: small aerial, mid-sized delivery (Level 4), smokestacks, and pipes

Identifying new applications to develop and making all drones secure compliant

Establishing an office in India, hiring local talents and initiating commercial activity and local production

Strengthening current ESG initiatives and communicating qualitative info externally

Exploring areas to expand the core technology autonomous control system

Progress

All 4 application-specific drones have been released. SOTEN (small aerial) and AirTruck (delivery) grew significantly, driving revenue growth

Released platform drone PF2-AE (advanced edition) that is secure compliant. Numerous proof-of-concept trials to explore new application in progress

Active commercial activities via JV established in India. Exhibiting at expos and customer demos resulted in winning 140 mn JPY project

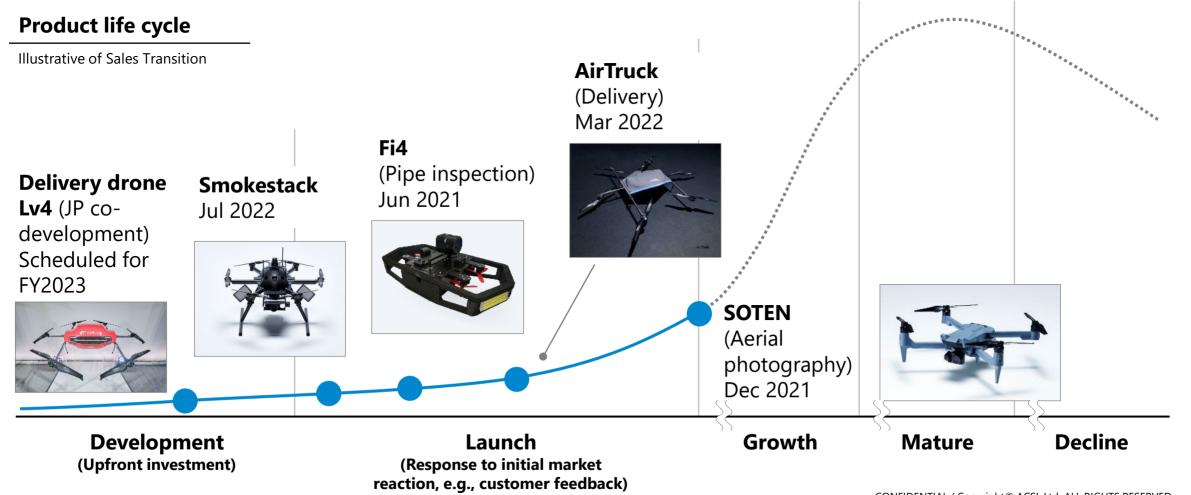
Published an integrated report both in English and Japanese. Continuing to empower diversity and governance

Acquired 40% share in a UGV manufacturer out of Utsunomiya university. Starting to expand autonomous control to UGV field

ACSL has launched most application-specific drones and development investment phase is near complete



Majority of application-specific drones have left the development investment phase, and now are transitioning to a new phase to launch and response to initial market reaction (e.g., customer feedback)



Released aerial photography drone "SOTEN"



Released aerial photography drone "SOTEN" and started to receive orders. Significant market reaction to the secure and reliable drone

- Secure: Data security, domestic and reliable components, encryption, etc.
- Usability: One-touch interchangeable camera, clip-on propellers
- Flight performance: Max 15m/s wind tolerance, SLAS/SBAS QZSS accuracy
- Peripherals: Offline map, Secure LTE network, extension mounts



Continuous functional update to SOTEN based on customer demand



Compatible with Pix4D software, which is used globally in aerial and disaster surveys, and LTE communication functionality also implemented

■ Compatible with leading global Pix4D software •

- Integrated with Pix4D's software for creating highprecision 2D / 3D data. This enables more secure, high-definition data acquisition and data analysis
- PIX4Dmapper is used by professionals in Japan and abroad for a wide range of applications from surveying and construction to infrastructure mgmt
- PIX4Dreact has been installed in more than thousands of fire, police, and NPO
- Implemented LTE communication support to enable flight in areas with no radio reception
 - Enabled video and status monitoring using LTE network, making it possible to fly in areas with no signal coverage and to land safely using LTE communications in the event of a signal interruption

PIX4Dmapper





PIX4Dreact





Provided by Pix4D

"Fi4", a pipe inspection drone for environments such as water pipes



Reduce the burden of inspection work associated with the aging of ~480,000 km of sewer pipes throughout Japan.

- Stable flight: Optimal materials such as light and strong carbon core ensure flight performance
- Dust and waterproof: IP55 dust and waterproof to withstand harsh survey environments
- Usability: A dedicated app allows operation in real time while checking the inside of the pipes
- Easy maintenance: A part of the drone frame is made of foamed material, which is separated from the core where the control board and other components are installed, making it easy to replace.





Launch of the pipe inspection drone



Launched pipe inspection drone "Fi4", an outcome of a jointly developed project with NJS and established a JV with NJS to provide services, including support.

Background and objectives

- The total length of sewerage systems in Japan is approximately 480,000 km¹, and the burden of inspection work due to aging is a serious issue
- Jointly developed a pipe inspection drone with NJS since 2015, and improved its durability, maintainability, and usability for actual field use through demonstration tests
- Establishment of a JV in May 2021 to provide services, including support



Provision of inspection and other services using closed environment inspection drones

Launch of Fi4 pipe inspection drone

- Launch of the new Fi4, a package that includes an airframe designed for harsh research environments and a dedicated operating application with improved usability
- Based on the images taken by the drone, data analysis and functional diagnosis services to determine abnormalities such as deterioration status are also provided at the same time
- In the future, the JV will expand lineup of drone to include pipeline facilities with flowing water, external inspections of facilities, and other application scenarios





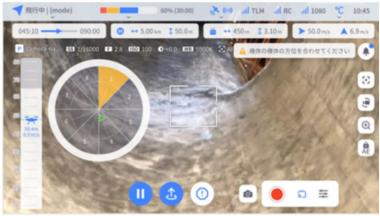
Released UI/UX for smokestack inspection drone for smokestacks, boilers, and pressure regulating tanks



Capable of capturing highly accurate inspection images by autonomous flight in dark areas where GPS is not available.

- Autonomous flight: Laser (LiDAR) selfposition estimation in non-GPS environment
- **Stable inspection images:** Images are captured at preset speeds and intervals
- Safety: Pilot can operate outside the smokestack
- Usability: Easy flight route design and automatic flight photography at the touch of a button with dedicated GCS and UI





Released mass-produced delivery drone "AirTruck"



"AirTruck," Japan's first mass-produced delivery drone which is designed to solve the manpower shortage problem in the logistics industry and to facilitate last mile delivery.

- **Stable flight:** 4D GRAVITY® center-of-gravity control technology to reduce cargo sway
- High flight performance: Aerodynamic optimization through aerodynamic simulation and wind tunnel testing
- Remotely controllable: Equipped with LTE communication, FPV camera, etc., suitable for Level 3 flight.
- 4 Improved load capacity: Payload expanded to 5 kg
- 5 UX design: easy-to-load from the top of the body





"AirTruck" won the top prize at the 2022 Nikkei Superior Products and



AirTruck, launched in Mar 2022 aims to become the de facto standard for drone delivery, and was the first drone to win the Nikkei Superior Product and Service Award

■ Nikkei Superior Product /Service Award

 The Nikkei Superior Products and Services Awards, now in their 41st year, are awarded to the 20 most outstanding new products and services launched in a given year.

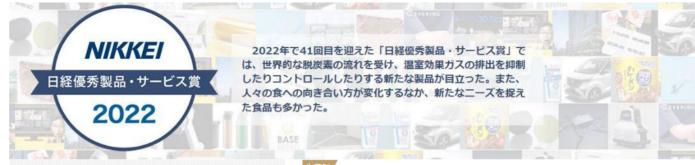
■ First drone to receive the award

Services Awards

- ACSL is the only start-up company among the eight award-winning companies in the production goods category
- This is the first time a drone has won this award.

Recognized as a product that responds to social issues

 AirTruck already has 5 implemented areas and 14 trial areas, aiming to become the de facto standard for drone delivery





生産財

物流専用ドローン「AirTruck」

ACSI

物流専用に開発された量産型ドローン。6つのプロペラで推進力を得る「マルチコプター型」で最大5キログラムの荷物を積載することができる。ドローン関連技術を開発するエアロネクスト(東京・渋谷)と共同開発した製品で、荷物を傾けずに運べる独自技術を搭載する。

荷物は機体上部から搭載し、目的地に飛行後はドローン下部から自動で荷物を下ろす。運送大手のセイノーホールディングスの意見を取り入れ、荷物は80サイズ(箱の縦・横・高さの合計が80センチメートル以内)に対応させた。これまでに30台を受注する。既に山梨県小菅村や福井県敦賀市などはドローン配送サービスでエアートラックを活用している。

AirTruck adopted by Digital Rural City Initiatives across Japan



AirTruck and SkyHub®, promoted by Seino HD and Aeronext, are adopted in projects related to the Digital Rural City Initiative led by local governments nationwide



Tsuruga, Fukui Prefecture

On-demand drone delivery as fast as 30 min, shopping service, and food delivery as a model for "connecting urban areas and depopulated areas"





Sakai, Ibaraki

Experiment initiated as of Oct 2022 to target practical application of new smart logistics using drones and self-driving buses





Kamishihoro, Hokkaido

Successful demo of drone transplantation of fertilized cow eggs (non-frozen fresh eggs) collected at the ET Laboratory to farmers' homes in Kamishihoro



Delivery trial and unveiling of a new delivery drone in development conducted under the capital and business alliance with Japan Post



ACSL provided delivery drone and operational support for Japan Post's "Trials on delivering mail by drones" in Dec 2022, and also unveiled a new Level 4 compliant delivery drone in development which it aims to be put into practical use in FY23 or later.

Unveiling of a Level 4 compliant delivery drone

On Dec 6, 2022, Japan Post and ACSL unveiled a Level 4 compliant delivery drone that aims to be put into practical use in FY23 or later.

The drone aims for flight performance that achieves a distance of 35 km, 3.5 times greater than the previous model, and a payload of 5 kg, 2.5 times greater than the previous model.



Unveiling ceremony

Dedicated delivery drone unveiled

Trials on delivering mails by drones

Delivery to residential households and nearby-delivery points in Iruka Post Office delivery zone in Kumano, Mie Prefecture, from Dec 5, 2022 to Dec 23, 2022.

Verification of a manpower-saving by introducing innovative delivery models in mountainous areas, such as delivery of mail from a drone to drop-off box.



Drone delivery

Drop-off box

Applied for Level 4 Tier-1 Type Certification and conducted numerous proof-of-concept trials to develop new applications



ACSL started procedures for conformance to Level 4 Tier-1 Type Certification, which began on Dec 5, 2022. In order to explore new marketable applications, numerous proof-of-concept trials conducted to identify customer pain points and marketability.

Level 4 Tier-1 Type Certification

- Type Certification System is a certification system that inspects the strength, structure and performance of a drone to ensure that the design and manufacturing process conforms to safety and uniformity standards, and to ensure safety and uniformity
- ACSL applied for Tier-1 Type
 Certification for delivery drone on Dec
 5, the same day the Aviation Law was amended
- Scheduled to obtain type certification and conduct Level 4 flights by the end of Mar 2023.



Drone applied for type certification



Testing for certification

Proof-of-Concept trials to develop new applications

Wind Power Generation Inspection

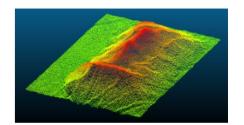
- Reduced access time and improved safety, e.g., accessing high locations
- Wind power inspections are easily configured for automatic flight with a dedicated app



 Improved productivity in volume calculations by achieving a wide range of measurements in a short period of time



Automated blade inspection for wind turbines



Acquire 3D point cloud and calculate sediment volume

52

Confirmed that there are economic security needs that ACSL can take advantage of in the US market



Confirmed extremely strong economic security needs in both government and private sectors at U.S. trade shows, and identified strong interest in purchasing ACSL drones at multiple customer site roadshows.

- SOTEN exhibited at the Commercial UAV Expoin the U.S. following the AUVSI XPONENTIAL 2022 in April. SOTEN was highly evaluated for its use in inspection and surveying at the world's leading commercial drone exhibition.
- With the National Defense Authorization Act (NDAA) now in effect in the U.S. and the Department of Defense designating DJI as a China Military Company, government and social infrastructure companies are eager to make the switch as soon as possible.
- Conducted roadshows at several customers in October 2022 and January 2023 to evaluate the feasibility of practical application and confirmed their desire to purchase the product.





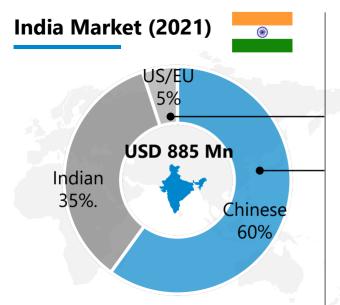




Received a large order of approx. 140 mn JPY in India by realizing local production



Rs. 80 million deal to provide Made-In-India drones that are also compliant with Indian government policy.



- Import of foreign-made drones banned in India from Feb 2022 to promote Make-In-India (Drone Shakti Scheme)
 - In order to sell drones in India, they must be manufactured in India and have type certification.
- ACSL established a local joint venture,
 ACSL India, to promote Make-In-India compliant activities. In addition, ACSL India promotes sales promotion activities with local service partners.
- Recently awarded a major contract worth Rs. 80 million to provide platform drones compliant with Make-In-India, with production to be carried out at ACSL India.





Prime Minister Modi and ACSL India Managing Director Arjun (rightmost photo) visit the ACSL India booth at the Drone Festival of India 2022.

First drone-related company in the world to join the Universal Postal Union



ACSL became the first drone-related company in the world to join the Consultative Committee of the Universal Postal Union (UPU) in Nov 2022.

Universal Postal Union

- A specialized agency of the United Nations with 192 member countries whose purpose is to promote communications among peoples through the effective operation of postal services and to contribute to international cooperation in the cultural, social, and economic fields.
- Highly recognized for the continuous drone postal delivery with Japan Post since 2018 when the Aviation Law was amended
 - First Level 3 flight (unassisted BVLOS flight in unmanned areas) in Japan in 2018
 - In Dec 2022, a new delivery drone compliant with Level 4 announced.
- International presence, overseas trial opportunities
 - Recognized as a delivery drone manufacturer by an authority organization, which has a leverage effect on overseas business development.
 - Opportunities for overseas trials with the cooperation of UPU



With Mr. Meitoki, Secretary General of UPU



Exterior view of the UPU headquarters in Bern, Switzerland

ESG initiatives being actively promoted. ACSL published its first integrated reports in English and Japanese to strengthen stakeholder communication



Integrated reports including qualitative information are published in English and Japanese to strengthen communication of ESG-related initiatives to diverse stakeholders. In particular, the report highlights ACSL's global corporate culture and diversity.

Integrated Report 2022









■ ACSL publishes its first integrated report in both English and Japanese. ACSL's vision and initiatives are systematically introduced to a diverse range of stakeholders, including investors, clients, and partners.

■ The Integrated Report consists of five sections

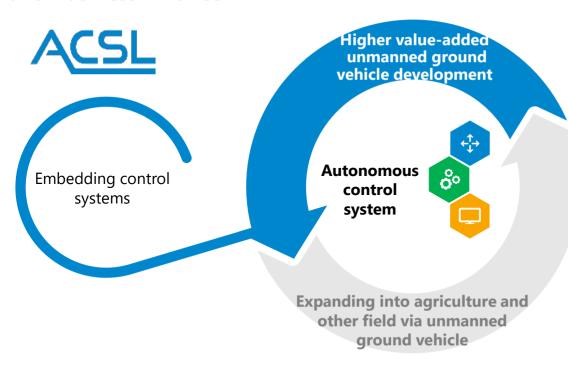
- ACSL's vision and mission
- ACSL core technologies and product lines
- Markets, customers and and our history
- Values, corporate culture, work style, diversity
- Business performance, financials, ESG

Invested into REACT to expand ACSL's core technology "autonomous control system" to other fields beyond drones



ACSL's core technology – autonomous control system – is effective in other robotics field. As a first step to expand beyond drones, ACSL entered into a capital and business alliance with REACT, a developer of unmanned ground vehicles

Outline of Capital and Business Alliance





Providing agricultural and other task support unmanned ground vehicle

Outline of REACT (formerly I-EAT)

- Started robot-related business in 2016 as a venture from Utsunomiya University
- A technology that first won the 7th Robot Awards, Minister's Prize of the Ministry of Education, Culture, Sports, Science and Technology
- Production, development and sales of agricultural support robots
- Possesses technology for autonomous mobility and human tracking





Agricultural unmanned vehicles by REACT

REACT will first advance UGV through proof-of-concept projects in the agricultural sector



Development and trial project of smart agriculture technology

- Systematization of smart agricultural technology in pear cultivation
- Mobile robot and on-board work module to reduce labor intensity and labor hours in harvest transportation, weed control, and pruning and branch collection.



Herbicide spray



Branch collection with branch collection module

Smart agriculture trial project

 A mobile robot equipped with a strawberry harvesting actuator and a mobile robot that transports harvested strawberries work in tandem to shorten harvesting time and reduce harvest loss rate.



Strawberry harvesting and transport robot



Overall picture of the trial



Human-following by robots



Crop haulage

Trial of mobile robot operation in an apple orchard

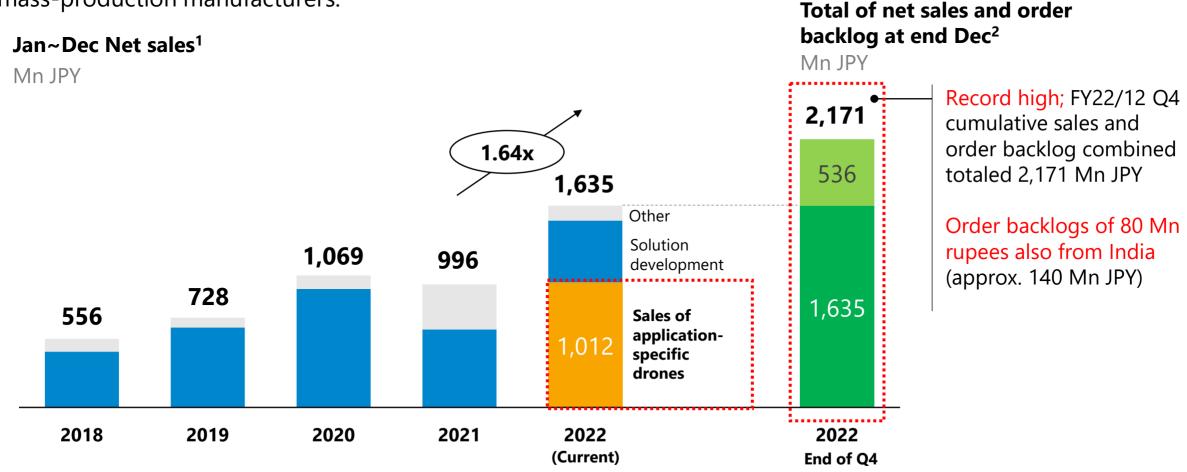
 Demonstration of mobile robot in actual apple orchard work to see if it can improve work efficiency, etc.

FY22/12 Q4 sales increased 64% y/y and reached a record high. Overseas orders also received



Sales were up 64% over the same period last year, marking a record high for the full year. More than 1 billion of those sales were application-specific aircraft sales, and the company also succeeded in changing its sales mix to

mass-production manufacturers.



^{1:} The fiscal year ended March 31, 2021, and the following fiscal year ended December 31 2021 is a 9-month irregular accounting period from 21/04~21/12. Above is the total for 12 months from Jan~Dec for each year.

^{2:} Order backlogs is the total value of projects with a purchase order or similar documents at the end of Dec 2022

Both SOTEN and Solution Development secured a certain level of marginal profit ratio



645 units shipped and booked 930 Mn JPY for SOTEN, but was below initial target. Marginal profit ratio¹ reached 20%.

Solution Development fell far short of initial target. Marginal profit ratio improved from Q2 onward, achieving

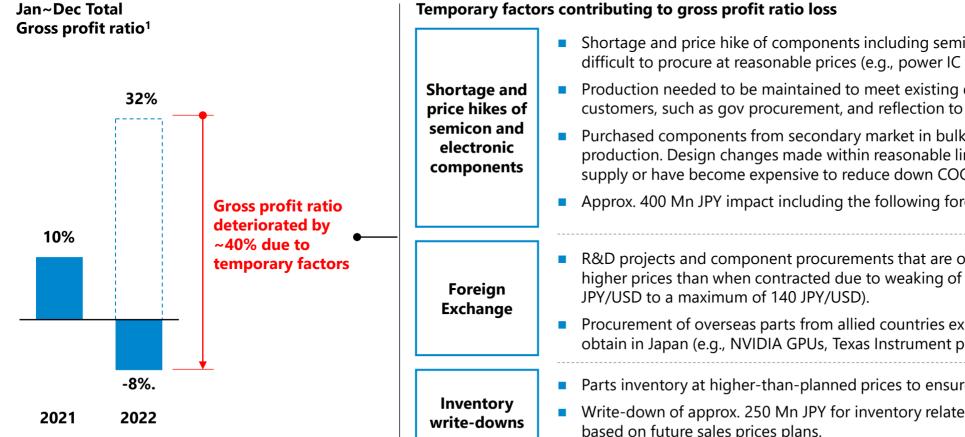
| 54% for full year. | | Q1 Results | Q2 Results | Q3 Results | Q4 Results | Full Year Results | Initial target |
|--|------------------------------|---------------|---------------|---------------|---------------|----------------------|-------------------|
| SOTEN (Aerial | Net sales (bn JPY) | 5.9 | 0.2 | 0.2 | 3.0 | 9.3 | 10 |
| photography) | # of drones (units) | 475 | 6 | 7 | 157 | 645 | 1,000 |
| | Marginal profit ratio (%) | 18 | 39 | 40 | 21 | 20 | 15 or more |
| Solution Development | Net sales (bn JPY) | 2.9 | 0.3 | 0.3 | 1.4 | 5.0 | 12 |
| (Proof-of-concepts trials, sales of prototype drone) | Marginal profit ratio (%) | 44 | 74 | 69 | 64 | 54 | 60 or more |

^{1:} Marginal profit by product is defined as net sales minus variable costs; for SOTEN and drone sales, it is defined as net sales minus material costs; and for proof-of-concept trials, it is defined as profit minus direct subcontracting costs. Gross profit is defined as marginal profit minus labor and manufacturing costs.

Gross profit ratio suffered significantly due to temporary semicon price hikes, foreign exchange rates, and inventory valuation loss



FY22 gross profit ratio suffered due to shortage and price hikes in semiconand electronic component, inventory write-downs, and yen depreciation resulting in ~40% gross profit ratio loss. Actions taken for FY23 to cope with component price hikes.



■ Shortage and price hike of components including semicon due to COVID-19, making it difficult to procure at reasonable prices (e.g., power IC from 500 JPY to 70,000 JPY)

- Production needed to be maintained to meet existing delivery commitments to customers, such as gov procurement, and reflection to product price could not be done
- Purchased components from secondary market in bulk ahead of time to maintain production. Design changes made within reasonable limits for parts that are in short supply or have become expensive to reduce down COGS.
- Approx. 400 Mn JPY impact including the following foreign exchange impact

R&D projects and component procurements that are ordered in USD were procured at higher prices than when contracted due to weaking of the yen (from an assumed 110

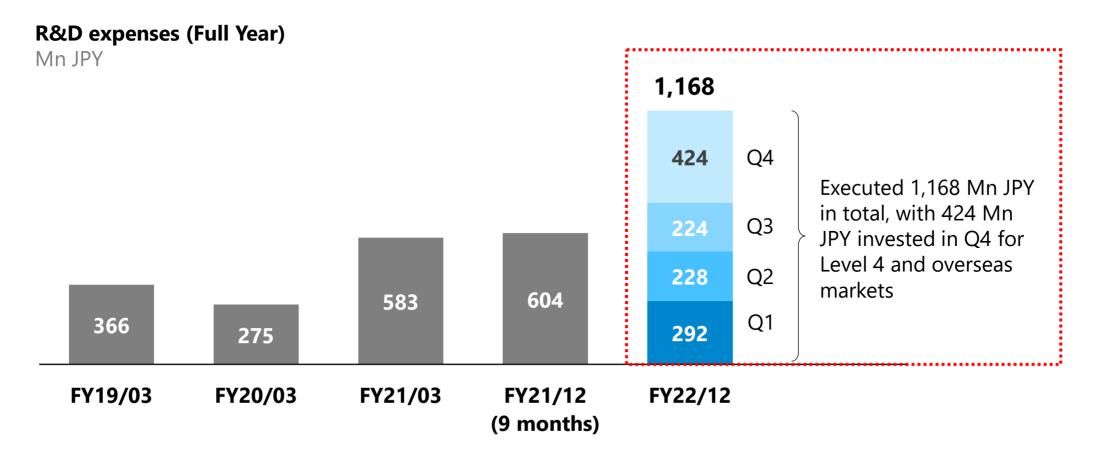
- Procurement of overseas parts from allied countries exists since those are difficult to obtain in Japan (e.g., NVIDIA GPUs, Texas Instrument power ICs)
- Parts inventory at higher-than-planned prices to ensure continued production
- Write-down of approx. 250 Mn JPY for inventory related to SOTEN held as of Dec 2022, based on future sales prices plans.

^{1:} FY21/12 is an irregular 9-month accounting period from 21/04 to 21/12.

R&D expenses actively invested for Level 4 compliance and overseas markets



R&D for Level 4 and overseas markets were strengthened in Q4, and totaled 1.16 Bn JPY as upfront investment. Majority of the application-specific drones have completed the investment-heavy development phase and have been successfully launched.



Results versus the numerical target for FY22/12



Though FY22/12 resulted in large loss incl. R&D investment, FY23/12 onward expects revenue and profit growth

| | 22/12 target | 22/12 actuals | Difference | Outlook |
|--------------------|-----------------------|---------------|---|--|
| Net sales | 2.5 Bn JPY | 1.63 Bn JPY | Though demand captured with mass production of SOTEN, soaring semicon price limited possible supply. Expect SOTEN to be adopted in FY23/12 | Expect market growth for SOTEN. Currently developing commercial plan for overseas market |
| R&D expense | 600 Mn JPY~ | 1.16 Bn JPY | Aggressive investment to be compliant with Level 4 function development and certification activity. Additional up-front investment for overseas market | Continue to achieve type certification for Level 4 compliance. Detailing out upcoming R&D investment for overseas market expansion |
| Ordinary income | ▲650 ~ ▲350 Mn JPY | ▲2.58 Bn JPY | In addition to the strategic R&D investment, soaring semicon price impacted gross profit significantly. Write-offs of investment portfolio also conducted | Countermeasures against soaring semicon price taken for FY23/12, thus expect improvement in gross profit ratio |

Cumulative results of FY22/12



Record cumulative net sales of 1,635 mn JPY and net income of -2,583 Mn JPY.

| | | FY22/12 cumulative (Jan~Dec 2022) | | Cumulative of same period of the previous year ¹ (Jan~Dec 2021) | Cumulative of FY21/12 (Apr-Dec 2021) |
|--------------------|----------------|--|----------------------------------|--|---|
| (Mn JPY) | Actual | YoY change to same period of previous year | YoY change to cumulative FY21/12 | Actual | Actual |
| Net sales | 1,635 | +639 | +1,134 | 996 | 501 |
| Gross profit | ▲124 | ▲ 220 | ▲125 | 95 | 0 |
| Gross profit ratio | ▲8% | ▲ 17 pt | ▲ 8 pt | 10% | 0 |
| R & D | 1,169 | +248 | +564 | 920 | 604 |
| Operating income | ▲ 2,203 | ▲ 621 | ▲ 1,014 | ▲ 1,582 | ▲ 1,188 |
| Ordinary income | ▲ 2,593 | ▲ 667 | ▲ 1,367 | ▲ 1,925 | ▲ 1,226 |

^{1:} Figures for the third quarter of the fiscal year ending March 31, 2021 and thereafter are based on consolidated financial statements; figures for earlier quarters are based on non-consolidated financial statements.

Balance Sheet



| | FY | 22/12 | FY21/12 | FY21/03 |
|---------------------|--------|---|---------|---------|
| mn JPY | Actual | YoY change to same period previous year | Actual | Actual |
| Current assets | 3,572 | ▲ 14% | 4,177 | 3,257 |
| Cash | 1,356 | ▲51% | 2,759 | 1,891 |
| Fixed assets | 1,403 | ▲9% | 1,537 | 751 |
| Current liabilities | 2,003 | +598% | 287 | 432 |
| Fixed liabilities | 34 | +295% | 8 | 3 |
| Total liabilities | 2,037 | +589% | 295 | 436 |
| Net assets | 2,938 | 4 46% | 5,419 | 3,572 |
| Total assets | 4,976 | ▲ 13% | 5,715 | 4,008 |

KPI Results



| | Indicator | FY19/03 | FY20/03 | FY21/03 | FY21/12 (9 months) | FY22/12 | | 12 Financial Forecast as of Jan. 2022) |
|---|-----------------------|---------|---------|---------|-----------------------|---------|----------|--|
| | | Actual | Actual | Actual | Actual | Actual | Forecast | Difference |
| Sales of application-specific | ic drones | | | | | | | |
| Small aerial photography drone | Units | | | | | 645 | 1,000~ | While the value base is generally in line with the plan, the volume is facing |
| (Low ASP) | Amount (100mn JPY) | | | | | 9.3 | 10 | supply issues due to soaring semicon prices. |
| Other application-specific drone | Units | - | - | - | | 18 | 100~ | Delivery drone (AirTruck) grew more than expected but pipe inspections did |
| (High ASP) | Amount (100mn JPY) | | | | | 0.7 | 2 | not expand as much as expected. |
| Solution development ¹ | | | | | | | | |
| | Projects | 81 | 112 | 82 | 41 | 71 | - | SOTEN, AirTruck, and |
| PoC and Development | Amount (100mn JPY) | 2.9 | 8.6 | 3.7 | 1.2 | 3.9 | 7 | other drone sales expansion led to accelerated resource |
| Sales of Platform/ Evaluation drone ¹ | Units | 106 | 101 | 46 | 18 | 27 | - | investment in |
| | Amount (100mn JPY) | 3.8 | 3.0 | 1.4 | 0.6 | 1.0 | 5 | application-specific sales, resulting in lower orders for solution development |
| Number of shipments ¹ | | 136 | 128 | 71 | 25 | 42 | ~150 | than originally planned. |

^{1:} The number of Sales of Platform/Evaluation drones represents drone sold in the platform sales (former STEP 3 and 4), and the number of shipments represents the total number of drones shipped including the demonstration experiments (former STEP 1 and 2)

Quarterly Sales Trends



| Fiscal Year | | | FY19 | 9/03 | | | FY2 | 0/03 | | | FY21/03 | | F | FY21/12 | | FY22/12 | | | | |
|---|---|------------|------|------|-----|----|------------|------|-----|------------|---------|----|-----|--------------|------------|---------|-----|----|----|-----|
| Quarterly Resu | ults | 1Q | 2Q | 3Q | 4Q | 1Q | 2Q | 3Q | 4Q | 1Q | 2Q | 3Q | 4Q | 1Q | 2Q | 3Q | 1Q | 2Q | 3Q | 4Q |
| Demonstration experiment ² • Proof of Concept • Custom development | Sales mn JPY | 25 | 59 | 75 | 133 | 27 | 65 | 102 | 671 | 1 | 22 | 22 | 323 | 14 | 42 | 67 | 252 | 16 | 25 | 103 |
| | Num. of projects | 6 | 16 | 22 | 37 | 14 | 22 | 21 | 55 | 2 | 11 | 15 | 54 | 6 | 14 | 21 | 34 | 2 | 12 | 23 |
| Sales of platform drone ³ • Sales of standard and general-purpose drone • Drone modified for customers based on the standard drone | Sales mn JPY | 10 | 67 | 80 | 225 | 24 | 48 | 19 | 212 | 4 | 10 | 13 | 116 | 15 | 34 | 17 | 42 | 17 | 7 | 37 |
| | Num. of units | 8 | 20 | 31 | 47 | 6 | 12 | 9 | 74 | 1 | 3 | 5 | 37 | 6 | 6 | 6 | 8 | 4 | 2 | 13 |
| Other ⁴ • Sales of parts • Fuselage repair service • Some national projects | Sales (of which national projects) mn JPY | 68 (65) | 14 | 12 | 33 | 9 | 29 (18) | 9 | 59 | 30 (21) | 8 | 10 | 55 | 237 (219) | 55 (50) | 15 | 64 | 20 | 11 | 24 |

^{1:} FY21/03 fiscal period is from April to March of the following year; FY21/12 is an irregular fiscal period from April to December; FY22/12 fiscal period is from January to December.

^{2:} Solution development (STEP 1 and 2) changed to demonstration testing from FY21/03 1Q.

^{3:} Drone sales (STEP3, 4) changed to platform drone sales from FY21/03 1Q.

^{4:} National projects generally record subsidies received as non-operating income. On the other hand, some projects whose main purpose is to conduct commissioned experiments are recorded as revenues.

Major financial items by quarter



| Fiscal Year ¹ | | FY1 | 9/03 | | | FY2 | 0/03 | | | FY2 | 1/03 | | | FY21/12 | 2 | | FY2 | 2/12 | |
|-------------------------------|-----|------|------|-----|------|------|------|-----|--------------|--------------|------------|-----|-----|---------|-------------|-----|------|-------------|--------------|
| Quarterly Results | 1Q | 2Q | 3Q | 4Q | 1Q | 2Q | 3Q | 4Q | 1Q | 2Q | 3Q | 4Q | 1Q | 2Q | 3Q | 1Q | 2Q | 3Q | 4Q |
| Net sales mn JPY | 104 | 141 | 168 | 392 | 60 | 143 | 130 | 943 | 36 | 42 | 46 | 495 | 267 | 133 | 100 | 952 | 78 | 130 | 473 |
| Gross profit mn JPY | 13 | 83 | 101 | 204 | 8 | 69 | 75 | 655 | A 6 | A 6 | 1 3 | 94 | 17 | 5 | ▲ 22 | 133 | ▲30 | ▲ 23 | ▲ 204 |
| Gross profit ratio | 13% | 59% | 60% | 52% | 14%. | 48% | 58% | 70% | ▲ 19% | ▲ 16% | ▲28% | 19% | 7% | 4% | ▲23% | 14% | ▲39% | ▲18% | 4 3% |
| SG&A expense mn JPY | 157 | 172 | 244 | 159 | 205 | 171 | 201 | 213 | 230 | 173 | 314 | 488 | 325 | 348 | 515 | 535 | 442 | 431 | 670 |
| Of which R&D expenses mn JPY | 85 | 94 | 127 | 58 | 66 | 54 | 76 | 78 | 60 | 77 | 129 | 315 | 153 | 165 | 285 | 292 | 228 | 224 | 424 |
| R&D Expenses ratio to sales | 82% | 67%. | 76% | 15% | 109% | 38%. | 59%. | 8% | 167% | 183%. | 278% | 64% | 57% | 124% | 285% | 31% | 290% | 172% | 90% |

^{1:} Figures are based on consolidated financial statements from 3Q FY2009/3 onward, and figures for earlier quarters are based on non-consolidated financial statements. FY21/12 is an irregular accounting period from Apr. to Dec. FY22/12 is an irregular accounting period from Jan. to Dec.



Agenda

- 1 Corporate overview, Core competency, and Business model
 - 2) Market overview
- **3** Medium-term management policy "ACSL Accelerate FY22"
- 4 Business highlights and current progress
- 5 Risk information
- 6 Appendix



| ltem | Key Risks | Risk Management | Possibility | Impact |
|---|---|--|-------------|--------|
| Drone Safety | In the event of a serious drone crash, not only at ACSL(the Company) but also at other companies, public trust in the safety of drones may be eroded, leading to a decline in demand from customers and a slowdown in market growth due to stricter regulations, which may affect the Company's business and earnings. In this case, our business and business performance may be affected. In the unlikely event that a drone manufactured by our company crashes and causes damage to people, property, etc., there is a possibility that our business and business performance will be affected due to significant product liability compensation, large payments and expenses due to a recall, and loss of public trust. | We are striving to realize drones that can coexist safely with people without causing accidents. In addition to promoting intrinsically safe design based on risk analysis, we are developing drones that can fly safely even in environments where GPS cannot be reached or in bad weather by utilizing some of our technologies. In preparation for any eventuality, we are working with insurance companies to develop dedicated insurance for drone and operations to cover liability and expenses incurred in the event of a serious accident. | Middle | High |
| Drone Safety | In the event that security is compromised by malicious hackers, etc., the drone may become uncontrollable, causing damage to people and property, or data leaks may cause damage to users, etc., which may have an impact on our business and business performance due to large payments and expenses for serious product liability compensation and recalls, and loss of public trust. | Our company places a high priority on safety in the selection of components related to data security, and we are working on the advancement of security technology on the drone side, such as communication encryption to prevent hijacking. In addition, we have selected solution partners and are able to identify all of our sales partners through direct transactions with our customers. | Low | High |
| Laws and regulations surrounding the drone business | With regard to the Product Liability Law, since we manufacture products such as drones, if a victim proves that they have suffered life, body, or damage due to a defect in our products, etc., a claim for damages may be recognized. | With regard to the Civil Aeronautics Law and the Radio Law, we have obtained permission and approval based on the said laws. To mitigate risks, we have had our instruction manuals reviewed by an external technical writer and have worked with an insurance company to develop a dedicated insurance policy. We have also acquired ISO 9001 certification for quality management and airframe certification from the Japan Unmanned Aircraft Manufacturers Association (JUAV). | Low | High |
| Laws and regulations surrounding the drone business | With respect to the Foreign Exchange and Foreign Trade Law, some of the products and parts sold by the Company may be subject to regulations. In the future, it is assumed that unexpected regulations may be enacted, revised or abolished, or that planned deregulation may not proceed as planned. In such cases, if the Company is unable to flexibly respond to the relevant laws and regulations, the Company's activities may be restricted due to the revocation of permits and licenses, which may affect the Company's business and earnings. | When we export drones or provide related technologies to overseas markets, we comply with the Law and strive for appropriate export control. We have established a system to check compliance with laws and regulations not only internally, but also with outside experts such as legal counsel. | Low | High |

^{**} Among the contents of "Business and Other Risks" in the Annual Securities Report, major risks that may affect the execution of the business plan and the realization of growth are extracted and described. For other risks, please refer to "Business and Other Risks" in the Annual Securities Report.



| ltem | Key Risks | Risk Management | Possibility | Impact |
|--|--|---|-------------|--------|
| Intellectual Property Rights | There is a possibility that intellectual property rights of which we are not aware have already been established, or that new intellectual property rights of third parties may be established, and it is extremely difficult to completely eliminate the risk of such infringement. In the event that the Company is involved in a legal dispute with a third party in the future, the Company will consult with lawyers and patent attorneys and consider specific measures to be taken depending on the details of the dispute. However, the Company may incur a large human or financial burden to deal with the dispute, and in some cases may be subject to claims for payment of damages, etc. or injunctions against the manufacture and sale of products, etc., which may affect the Company's business and business performance. | With regard to intellectual property rights such as patent rights related to our business, we have not received any indication of infringement of intellectual property rights from a third party, and we will continue to manage our intellectual property rights appropriately in order to prevent any infringement. We will continue to invest in patent development as we expand our business. | Low | Middle |
| Procurement, pricing, and inventory of parts and materials | The Company procures most of the parts and materials necessary for its production and R&D activities from external suppliers. However, in the event of interruptions in supply from suppliers or supply shortages due to a rapid increase in product demand, various activities may be restricted, which may have an impact on the Company's business and earnings. In the event of quality problems, problems with the production system and quality control system at the supplier of the procured products, or other events that may have a significant impact on our business operations, our business performance may be affected. There is a possibility of opportunity losses and lost profits due to inventory shortages, or additional expenses such as inventory management costs and impairment due to excess inventory, which may occur due to demand being different than initially expected. | In the procurement process, we carefully conduct quality checks and other incoming inspections. Inventory will be maintained at an optimal level in line with product plans and sales scale with regular revision according to the demand forecast. We conduct regular audits of our major business partners to confirm the status of their production, development and other activities. | Middle | Middle |

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| ltem | Key Risks | Risk Management | Possibility | Impact |
|--|---|--|-------------|--------|
| Product Quality | In the unlikely event that a product defect occurs, depending on the nature of the defect, it could result in the incurrence of significant costs and loss of trust, which could have a negative impact on our business performance and financial position. Specifically, if the incidence of product defects within the warranty period exceeds our expectations, or if unforeseen defects occur, we may incur after-sales service costs, free repair costs, recall costs, and other expenses. In the event that a victim proves that they have suffered damage to life or limb due to a defect in one of our products, etc., there is a possibility that a claim for damages will be approved based on the Product Liability Law. In the event that our response to these risks is prolonged and exceeds the scope of coverage by our insurance, our business activities may be hindered and our business performance and financial position may be affected. | We have established quality assurance management rules and production management rules, and are striving to maintain and improve the quality of our products through manufacturing and quality control in accordance with these rules. We will continue our efforts to improve the quality of our products, especially with regard to continuous improvement against defects, promotion of product designs that are less prone to defects, reinforcement of testing during development and prior to shipment, including the introduction of reliability testing, continued development of emergency countermeasure functions for our products, establishment of rules for operations such as flight and drone management, and strengthening of processes for handling customer complaints, malfunctions, and crashes. | Low | High |
| Uncertainty about business performance | Sales volume may fall short of expectations due to a mismatch with customer needs, changes in epidemics, the emergence of competitors, economic fluctuations, restrictions on economic activities due to the spread of new coronavirus infections, etc. In addition, budget approval and execution timing on the part of customer companies may also affect our performance trends. The Company was established in November 2013 and has been in business for only about eight years. Therefore, the operating results of the Company for the past fiscal years are not sufficient to make comparisons between periods, and the operating results for the past fiscal years alone may not be sufficient information to judge the future performance of the Company. If we are unable to keep up with the rapid evolution of technology, or if we are unable to introduce new products or technologies that will win the support of our customers and the market, and if our R&D activities are not fully effective, we may incur expenses related to investments that exceed our expectations. In such cases, the Company may not be able to achieve the plan it is aiming for, or it may take time to return to profitability in operating income, etc., which may affect the Company's financial position and operating results. As a result, there is a possibility that the numerical targets set forth in the medium-term management plan policy will not be achieved due to various factors, including the risks described in "Business and Other Risks. | For continuous growth, we are engaged in research and development of hardware and software for drones as autonomous control robot systems. Based on the idea that it is necessary to continue research and development activities that are essential for the development of new products or technologies, we have been actively investing costs related to research and development expenses, and will continue to promote research and development activities in the future. Our policy is to build a system that can generate sustainable profits and cash flow through sales growth. Together with internal and external stakeholders, all parties involved will work as one to create customer value and enhance corporate value. | Middle | Middle |

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| ltem | Key Risks | Risk Management Possibility Impa | act |
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| Risks related to fluctuations in business performance | • As the Company sells drone and provides proof-of-concept (PoC) services mainly to large corporations or projects related to public offices, sales tend to be concentrated in March, which is the end of the fiscal year for many customers. The reason for the high weighting of the accounting period from January 1 to March 31 is that the Company's sales are concentrated in this period. The reason for the higher weighting of the accounting period from January 1 to March 31 is that it is linked to the budget spending cycle of many of our clients, and the acceptance inspection of annual contracts is concentrated at the end of the accounting period for many of our clients. In addition, there are many cases in which we conclude large contracts, such as annual contracts, with government agencies, public institutions, and companies engaged in large-scale projects, in which case the acceptance inspection period falls at the end of the fiscal year, such as February and March. Therefore, due to such seasonal fluctuations, the Company's business results at a single point in time may not provide sufficient information for the analysis of full-year business results. | The Company changed its fiscal year end (the last day of the fiscal year) to December 31 from the 10th fiscal year in order to improve the transparency of full-year business results, and High Low therefore the accounting period will be from January 1 to December 31. | w |
| Securing working capital | • Since our main business flow involves the purchase of parts, development, manufacturing, sales, acceptance inspection, and collection of funds, working capital tends to increase in conjunction with business expansion, and cash flow from operating activities may be negative. In addition, the Company participates in various projects through industry-academia-government collaboration to develop cutting-edge technologies, and receives subsidies and grants from the government. Receipt of such subsidies, etc., will be credited after the amount is fixed after the audit by the competent authorities is completed, but funds for conducting R&D activities will be required during the implementation period, and R&D expenses will be incurred upfront. | We will strive to secure working capital by securing profits through improvement of our profit structure and efficiency of working capital, as well as borrowing from financial institutions when it becomes necessary to raise funds. | w |

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| ltem | Key Risks | Risk Management | Possibility | Impact |
|-----------------------|---|---|-------------|--------|
| Overseas Expansion | • In order to expand our business in overseas markets, we are collaborating with local companies to promote overseas development, mainly in Asia and the United States. In India, we have established a joint venture with a local company. However, in the event of unexpected social or political changes, changes in taxation systems or rates, or other changes in economic conditions in India, such events may have a negative impact on our business development. In addition, the Company's business development may also be adversely affected by changes in policies and laws and regulations in each country or economic zone, including import and export regulations and environmental protection regulations, in connection with the procurement of parts from foreign companies and the sale of the Company's products or technologies to foreign companies. | It is our policy to work closely with local companies so that we can respond immediately to any changes in policies and regulations in each country or economic zone. | Low | Middle |
| Investment Activities | • As part of our growth strategy, we will actively consider corporate acquisitions, business alliances, and strategic investments, including those of overseas companies. In addition, the Company has established ACSL No. 1 Limited Liability Partnership as a corporate venture capital (CVC). In the event that the financial condition or business performance of the investee deteriorates due to changes in the business environment or preconditions, the Company's financial condition and business performance may be affected. In addition, for assets recorded in connection with investments, etc., if the expected cash flow cannot be generated due to deviations from future performance plans or changes in the market, an impairment loss may be recorded. | The Company and CVC will make decisions on investments, etc., after giving due consideration to investment risks, etc., and will periodically check the possibility of recovering the investment value. | High | Low |
| Management system in | As of December 31, 2022, the Company operates as a small-scale organization with 5 directors (2 of whom are outside directors), 3 corporate auditors (1 of whom is a full-time corporate auditor), and 72 employees, and the internal management system is in line with the size of the organization. In the event that we are unable to strengthen our workforce as planned, or in the event that unforeseen circumstances arise in the core personnel of our business that hinder the execution of operations, our business activities may be hindered and our business and business performance may be affected. | In response to the future expansion and diversification of our business, we plan to increase the number of personnel and further enhance our internal management system. With regard to personnel involved in development, which is the core of our competency, we are actively recruiting from a broad pool of human resources, both domestic and overseas, in order to acquire personnel with global and cutting-edge knowledge. | Low | High |

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| ltem | Key Risks | Risk Management | Possibility | Impact |
|---|--|--|-------------|--------|
| Impact of the spread of the new coronavirus infection | However, delays in vaccination and the spread of mutated strains of the virus may cause prolonged stagnation of economic activities, which may lead to restrained new investments by our customers, a decline in our business activities, and an impact on our supply chain. In particular, from January to March is the months when sales are concentrated. In particular, if economic activities are curtailed due to restrictions on movement or the declaration of a state of emergency from January to March, when sales are concentrated, the financial position and operating results of the Group may be affected. | We will continue to promote our business activities, including the use of remote work in our research and development. By further promoting these efforts, we are working to ensure the safety and security of our employees and continue to provide services to our customers without delay. | Middle | Low |



Agenda

- 1 Corporate overview, Core competency, and Business model
- 2) Market overview
- 3 Medium-term management policy "ACSL Accelerate FY22"
- 4 Business highlights and current progress
- **5** Risk information
- 6 Appendix

Management Team (as of September 30, 2022)

External Director



President Satoshi Washiya **CFO** Dr. Chris Raabe Kensuke Hayakawa **CTO** Ph.D. from University of M.S. in Management of M S in Architecture from Tokyo. Embedded Waseda University. Technology from Tokyo Served both domestic institute of technology. software engineer at Implemented operational Boeing. Assistant and multinational professor at Department improvement/transforma companies in corporate of Aeronautics and wide transformation tion of portfolio Astronautics, University projects at the Tokyo and companies at KKR of Tokyo. Joined ACSL as Stockholm office of Capstone. Joined ACSL as CFO in March 2017. CTO in April 2017. McKinsey & Company. Joined ACSL in July 2016. **Audit & Supervisory External Director Akira Ninomiya Masanori Sugiyama**

Tadaharu Shimazu

Audit & Supervisory

Audit & Supervisory

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Hideki Shimada

Takeshi Ohnogi

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