

# Financial Results material for 2021/12 Second Quarter

ACSL Ltd. November 11, 2021

機密・専有情報

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### **Positioning of ACSL Accelerate**



In order to realize the "Master Plan," announced in August 2020 as ACSL vision for the next 10 years, ACSL has established "ACSL Accelerate," a rolling medium-term management policy that adapts to the changing business environment

**ACSL Accelerate FY2X** 

**ACSL Accelerate FY2X** 

**ACSL Accelerate FY22** 

**ACSL Accelerate FY20** 

# "Master Plan" What we should aim for in 10 years (2030)

- 1 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
- Developing cutting-edge technologies for autonomous control (cerebellar and cerebral)
- 6 Nurturing the industry's most advanced and talented human resources
- 7 Constantly working to improve its corporate value and financial KPIs

## **Q2 FY12/2021 ACSL Accelerate Key Highlights**



Business strategy in "ACSL Accelerate FY20" is progressing well, and cumulative Q2 sales reached a record high, and forecast was revised upward. The launch date of a small aerial drone for government procurement has also been determined.

# **Upward revision of sales forecast for this fiscal year**

Based on the sales results and backorder at 2Q end, earnings forecast for the current fiscal year has been revised upward from 350 million yen in sales to 480 million yen in sales

# **Small aerial drones release** date was determined

Announced that one of its application-specific drones, a small aerial drone designed for government procurement, will be put on the market in December 2021. Sales are expected to be booked from following fiscal year.

#### Small Aerial Drone Teaser Site Released for Gov Procurement



On November 1, 2021, the teaser website for "Secure Domestic Drones to Support the Future" was released, and the sales of a small, high-security drone developed under the NEDO <sup>1</sup>project "Development of Safe and Secure Drone Basic Technology" are scheduled in December.

2020 September



The government announced its policy of "limiting procurement to drones with guaranteed security" and "promptly replacing existing drones. <sup>3</sup>

2021 November

## **Teaser site for "Secure Domestic Drones for the Future" released**

Announced that it will launch a high-security, low-cost standard drone for government procurement, etc., in December 2021, which is being promoted under the NEDO project



<sup>2: &</sup>quot;Outline of the Draft Law Concerning the Promotion of the Development, Supply and Introduction of Specified Advanced Information and Communications Technology Application Systems," February 19, 2020, Ministry of Economy, Trade and Industry



**Teaser site released** 



<sup>3: &</sup>quot;Policy on the Procurement of Unmanned Aerial Vehicles by Government Agencies, etc.," September 14, 2020, Liaison Conference of Relevant Ministries and Agencies on Small Unmanned Aerial Vehicles

#### Small aerial drones attract attention even before its release



The small aerial photography drone is a drone that responds to the recent demand for security measures and has attracted a lot of media attention and high expectations even before its release.

#### Nikkei Electronics Inc. 1

Recently, concerns about the security of Chinese-made drones have been growing in Japan among government procurement projects and private companies with infrastructure, such as power companies, and several organizations are working on projects to develop domestically produced drones.

A prime example of this is the "Development of Safe and Secure Drone Basic Technology" launched in May 2020 by the New Energy and Industrial Technology Development Organization (NEDO). The objective of the project is to design and develop standard drones that ensure safety and reliability to meet the business needs of the government, public sector, and private infrastructure operators, and to foster an ecosystem to strengthen the competitiveness of Japan's drone industry.

In fact, **DJI products have been used in a number of Japanese government operations.** An executive of a domestic drone manufacturer said, "The reality is that DJI drones account for about 90% of the drones on the list of those granted flight permission by the Ministry of Land, Infrastructure, Transport and Tourism. Government officials felt a sense of crisis about this, and that's what led to the development of this product.

(Highlighted by ACSL)

#### **BBC World news**

"The SRD (Secure Reliable Drones) project is a **national project to develop small aerial drones for government procurement in a short period of time.** In order to do this, we need to make decisions quickly and at the same time make things meaningful. The other four companies in the consortium **complement** us **in terms of mass production**, **quality control and quality assurance capabilities. It's when startups and large companies develop together that disruptive innovation can happen.**"

(President and COO Washya interview, highlighted by ACSL)







1 "ACSL Accelerate" and Business Highlights

2 FY21/12 2Q (21/07-09) Results

3 FY21/12 (21/04-12) ) Plan

4 Appendix



## **MISSION**

## **Liberate Humanity Through Technology**

## **VISION**

Revolutionizing social infrastructure by pursuing cutting-edge robotics technology

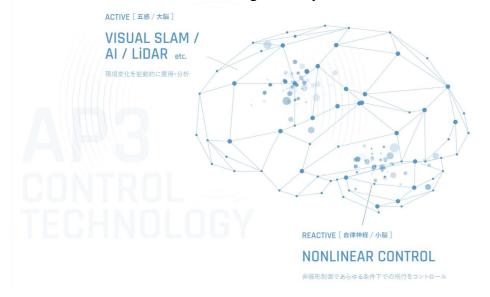
### ACSL is an industrial drone manufacturer pioneering drone market



ACSL is an industrial drone manufacturer developing application-specific drones through site visits, discussions, and demonstrations with customers to replace and improve operations, using proprietary autonomous control as its core technology.

#### **ACSL** core technology

The proprietary control technology consists of the "cerebrum", which actively grasps the surrounding environment, and the "cerebellum", which controls flight in any environment



#### **Knowledge through customer projects**

Develop specific drones through verification of technical and economic requirement for each applications through discussions with customers and demonstrations in actual environments







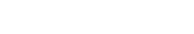
















Nihon Unisys, Ltd.



#### Announced "ACSL Accelerate" in August 2020 to achieve market dev

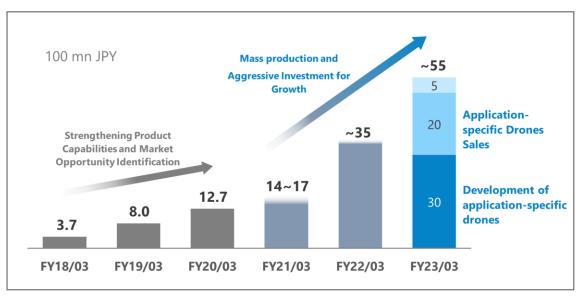


In August 2020, ACSL announced "ACSL Accelerate", a plan consisting of a masterplan that defines what ACSL aims to be in 10 years, and a Mid-Term Management Direction (FY21/03-FY23/03) to realize the master plan.

#### A masterplan defining what ACSL aim for after 10 years

- 1 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
- Developing cutting-edge technologies for autonomous control (cerebellar and cerebral)
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#### Sales in mid-term management direction (FY21/03-FY23/03)



<sup>\*</sup> FY21/03-FY23/03 sales are based on the mid-term management direction disclosed in August 2020.

## **Medium-Term Management Policy and Current Progress**



In response to the deregulation of Level 4 and the increasing demand for secure drones, the mid-term management policy has established four pillars of business strategy with the goal of "from a prototype factory to a mass production manufacturer.

<b>Develo</b>	pment of	app	lication-
specific	drones		

Introduction of subscription model

Full-scale expansion into ASEAN and other Asian countries

**Technology procurement through CVC** 

#### **Strategies in Medi-term Management Policy**

Commercialization of small aerial drones, medium delivery drones (Level 4 compliant), smokestack inspection drones, and enclosed environment inspection drones

Subscription-based fixed income/recurring sales model to be introduced to meet various customer needs, in addition to one-off drone sales

Establish an office in Singapore, the core city in the ASEAN region, and India and hire local talents to conduct development and sales activities, and begin full-scale overseas expansion

Establish CVC and actively procure technologies with potential for technology synergies, such as AI, blockchain, security, image processing and sensors

#### **Progress**

Commercialization of small aerial drone, closed environment inspection, and smokestack inspection has been completed, and the aims to expand sales from 2022. Medium-sized logistics drone is underway through a series of demonstration tests.

Announced the launch of a subscription model in May 2021. Lowering the initial adoption hurdle to reach a wide range of customers.

Established a JV in India in September 2021 to capture the huge market in India. Preparing to enter Singapore in parallel.

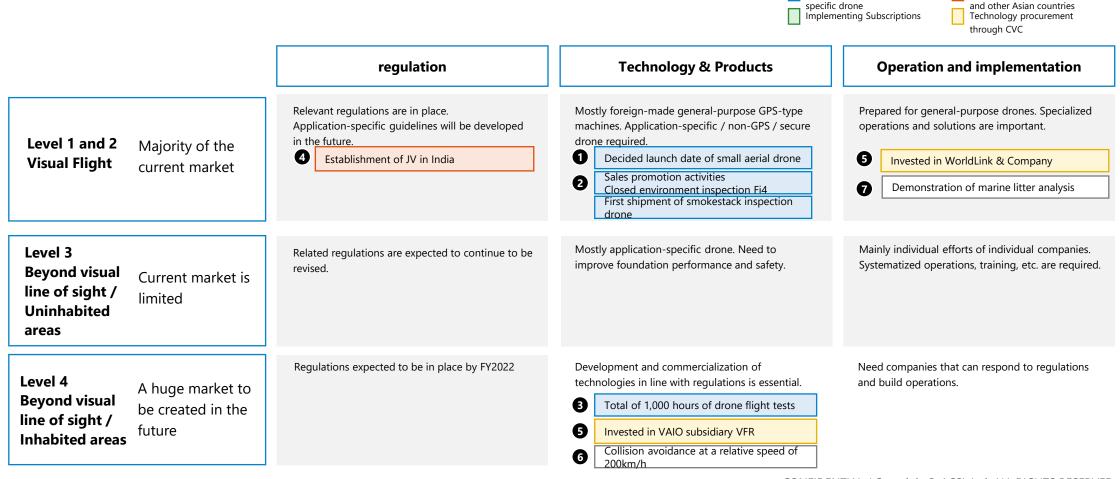
Established CVC in December 2020, and **invested** in **several companies including overseas companies** as of September 2021

## Market Changes and ACSL's Initiatives through Q2



Full-scale expansion into ASEAN

In Level 1 and 2, which are currently driving the market, social implementation of drones is progressing, while in Level 3 and Level 4, regulations and the development of application-specific drone are steadily progressing, and a huge space and market that can be used by drones is expected to emerge in the future.

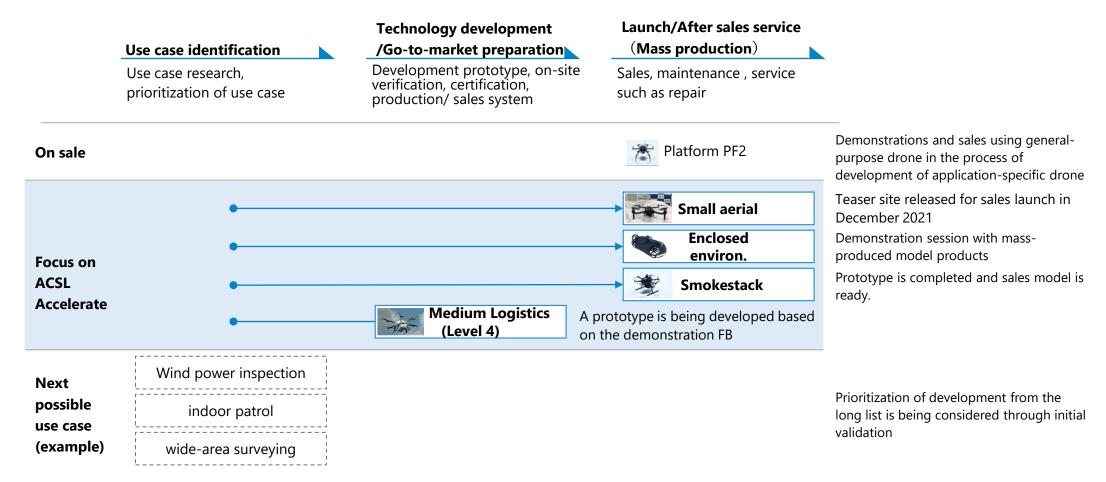


Development of application-

## 1. Application-specific drones: Steps toward launch



After identifying and prioritizing applications, ACSL is working with customers to develop application-specific drones for mass production. Out of application-specific drones, small aerial drone to be launched in December following the closed environment inspection drone



### 2. Conducted customer demo of closed environment inspection drone



Hold a hands-on event for customers to experience the operation of the closed environment inspection drone (Fi4). In addition to demonstrations, the event provided hands-on experience in actual operation to help customers use the drone in the field.

#### **Closed Environment Inspection Drone Fi4**

- Launched the new Fi4, a package that includes a drone designed for harsh research environments and a dedicated operation application with improved usability.
- Simultaneously provide data analysis and functional diagnosis services to determine abnormalities such as the state of deterioration based on images taken by the drone.
- In the future, the drone lineup will be expanded to include pipe line facilities where water is flowing, external inspections of facilities, and other application scenarios.





## 3. Successfully completed a total of 1,000 hours of drone flight tests



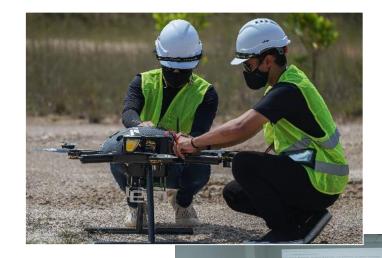
In cooperation with Aerodyne Japan, ACSL conducted 1,000 hours of continuous flight tests in Malaysia starting in December 2020. Successfully completed and obtained useful results for drone development with an eye on Level 4, which will become law in the future

#### **Background and Objectives**

- Sufficient flight time, risk level assessment, and basic data to demonstrate safety and reliability are important to achieve flight in a Level 4 environment.
- The hardware is composed of individually made parts, and the issue of insufficient performance and durability evaluation of the entire drone system
- 1,000 hours of flight testing to reveal the true performance of each component and to evaluate the entire drone system

#### Results

- The test was completed without replacing any motors, ESCs or propellers, and important basic data was collected for the development of Level 4
- Performance evaluation that is not based on theoretical values is carried out through actual environment tests.
   Collecting important data related to maintenance such as parts replacement that leads to reduction of operation cost.
- Conduct training and operations remotely; an example of how ACSL's training and operations system can be implemented remotely



## 4. ACSL India established for full-scale entry into India



In India, where Chinese drone are expected to be replaced, new drone regulations have been revised, and the government is promoting the drone industry. a joint venture was established in September 2021 after receiving local approval, and it aims to capture a huge market

#### **Changes in the Indian market**

- Cyber security risks in drones are also noted in India.
   Moves to replace Chinese drones, which account for a large share of the general purpose drone market<sup>1</sup>.
- Indian government overhauls drone introduction and use policy, new drone regulations issued in August
- With the revision of drone regulations, the Indian government is reportedly planning to promote the drone industry more



Last Updated: 26th August, 2021 15:32 IST

PM Modi Lauds New Drone Rules 2021; Terms It A 'landmark Moment' For Indian Aviation

PM Narendra Modi praised new Drone Rules 2021, which will provide several benefits to various sectors of the Indian economy. It will replace the UAS Rules 2021.

Reports on new revised drone regulations and PM Modi's remarks

#### **ACSL India Initiatives**

- Established ACSL India, a JV in India with Aeroarc, a local company, and completed registration after receiving approval from local authorities in September 2021
- Began dialogue with DGCA (Directorate General of Civil Aviation), the regulatory authority, to comply with local regulations
- Local marketing has begun, with plans for local exhibitions and other events, which are already attracting media attention.



Saurabh.Sinha@timesgroup.com

New Delhi: Japan's largest drone manufacturer, ACSL, is entering the Indian market in

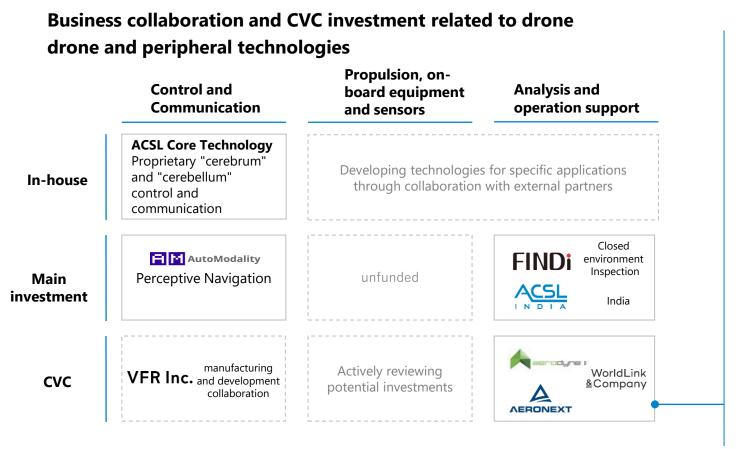
Media reports on India expansion



## 5. Investment in WorldLink & Company and VFR



Invested in WorldLink & Company and VFR through CVC to accelerate operational adoption of drones and strengthen product development collaboration



#### **Investment in WorldLink & Company**

- Providing infrastructure inspection services and other services as a solution partner of ACSL
- Accelerate the social implementation of drones by developing various operational support solutions that meet customer needs

#### Investment in VFR

- Possesses advanced design and manufacturing technologies cultivated through VAIO's PC business, and is entrusted with the development and manufacturing of several industrial drones
- Further strengthening of cooperation, including joint development of logistics drone with an eye on Level 4

### 6. Autonomous collision avoidance at 200km/h relative speed



SUBARU, Japan Radio, Japan Avionics, and Magellan Systems Japan successfully conducted the world's first autonomous collision avoidance test at a relative speed of 200 km/h, with a 10 kg class unmanned aerial vehicle equipped with miniaturized and low-power-consumption sensors.

#### **Background and Objectives**

- Conducted as part of NEDO's project to develop an unmanned aerial vehicle operation management system and collision avoidance technology
- Small and medium-sized unmanned aerial vehicles are already being used in agriculture and other fields, and there are high expectations for their use in disaster relief, transporting supplies, searching for people in distress, logistics infrastructure, and other applications, and the number of operations is increasing.
- Collision avoidance technology is an urgent issue for safe use. In addition, collision avoidance technology is indispensable for the realization of "unseen flight" and "flight over third parties," which are required for the practical use of unmanned drone.
- Establishing a collision avoidance system using this achievement to promote social implementation of unmanned aerial vehicles

#### test overview

- A 10 kg class unmanned drone and a manned helicopter were brought close together at a relative speed of 200 km/h<sup>1</sup>.
   Based on detection data from various sensors mounted on the unmanned drone, a collision avoidance path was generated in real time, and the unmanned drone was confirmed to fly in autonomous avoidance.
- Also confirmed that the unmanned drone returned to its original flight path after avoiding the manned helicopter



## 7. Marine litter analysis using drones and Al



The drone sub-team of the industry-academia collaborative marine litter reduction project "Debris Watchers" conducted a demonstration experiment of marine litter analysis using drones and AI on the coast of Tsuruoka City, Yamagata Prefecture, and confirmed its effectiveness.

#### **Background and Objectives**

- There is a tendency that there is a lot of marine litter in the area on the Japan Sea side, and Tsuruoka City, which is located on the coast, is also focusing on the environmental improvement of fishing ports and beaches.
- To understand the actual situation and reduce the burden, Nihon Unisys, a member of the project, has been conducting fixed-point observation of marine litter using DX since FY2018.
- Verification of the practicality of marine litter identification technology by using AI to analyze images taken from above of sandy beaches by drone
- Team developed marine litter analysis AI for both rocky coasts (Tsushima City, Aichi Prefecture, in 2020) and sandy coasts (Tsuruoka City, Yamagata Prefecture, in 2021), and confirm that it can identify litter on these coasts.

ACSL-PF2 used in projects



Using marine litter analysis AI to analyze the distribution and quantity of litter (Image taken (left), output of marine litter analysis AI (right))



## Major Business Highlights for Q2 FY12/2021 (21/07-09)



In addition to the development of application-specific drone, strengthen demonstration tests and collaboration with existing and new customers to develop new applications, and promote the business strategy in the mid-term plan.

July	Metroweather and the integration of "wind" information into drone operation systems.	METRO weather
August	Adopted as a subsidy for a project to support the promotion of new business creation in Asia DX, etc.	ACSL A aerodyne
September	CVC invests in WorldLink & Company to strengthen collaboration	WorldLink <u>&amp;</u> Company
	ACSL India's legal entity registered after approval from local authorities	ACSL I N D I A
October	Invested in VFR from CVC to strengthen collaboration with a view to Level 4	VFR Inc.
	Debris Watchers", an industry-academia collaborative project to reduce marine litter in which ACSL participates, discloses the <b>development progress of marine litter analysis service by drone.</b>	ĴĨĸĸĸŭ
	Closed environment Hands-on experience operating a closed environment inspection drone	
November	Small Aerial "Secure Domestic Drones for the Future" teaser site released	
	SUBARU, Japan Radio, Japan Avionics, and Magellan Systems Japan Successfully Avoid Autonomous Collision of Small Unmanned drone at a Relative Speed of 200km/h	
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### Results for 2Q FY12/09 (21/07-09)



Sales totaled 400 Mn JPY, mainly from projects implemented in the previous fiscal year such as national projects. Operating loss of 650 Mn JPY was posted due to aggressive upfront investment in R&D expenses. <sup>1</sup>

Mn JPY		nding 21/12 /04-09)	Previous fiscal year Q2 (20/04-09)	Previous fiscal year Annual (20/04-21/03)		
	Actual	YoY	Actual	Actual		
Sales	400	408%	78	620		
Gross profit	23	-	<b>▲</b> 13	68		
Gross profit margin	6%	+23 pt	<b>▲</b> 17%	11%		
R&D expenditure	318	154%	138	583		
Operating income	<b>▲</b> 650	-	<b>▲</b> 417	<b>▲</b> 1,139		
Net income	<b>▲</b> 693	-	<b>▲</b> 396	<b>▲</b> 1,511		

<sup>1:</sup> Figures for the third quarter of the fiscal year ending March 31, 2021 and thereafter are based on consolidated financial statements and figures for earlier quarters are based on non-consolidated financial statements

#### **2Q Cumulative Sales Trend**



Sales totaled 400 Mn JPY from April 1 to September 30, 2021, the highest ever for the half of the fiscal year (April-September). Cumulative sales through December are expected to reach 480 Mn JPY, a record high for the fiscal year.

## Sales by second quarter

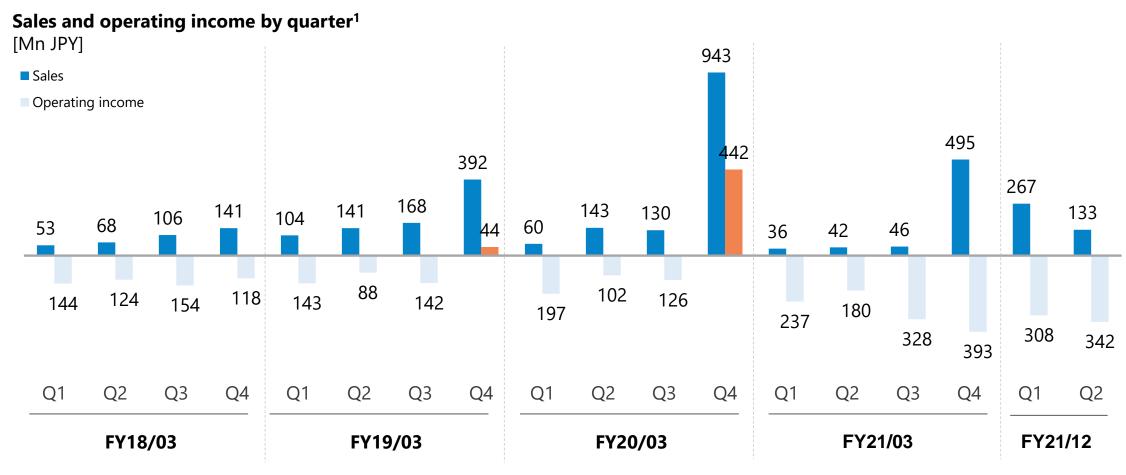
[Mn JPY]



## Net sales and operating income by quarter



As is typical year, sales in Q1-Q3 (April-December) are small, and the trend is expected to continue in the current fiscal year. FY21/12 Q1(21/04-06) sales were larger than previous years due to the booking some projects conducted in previous year.

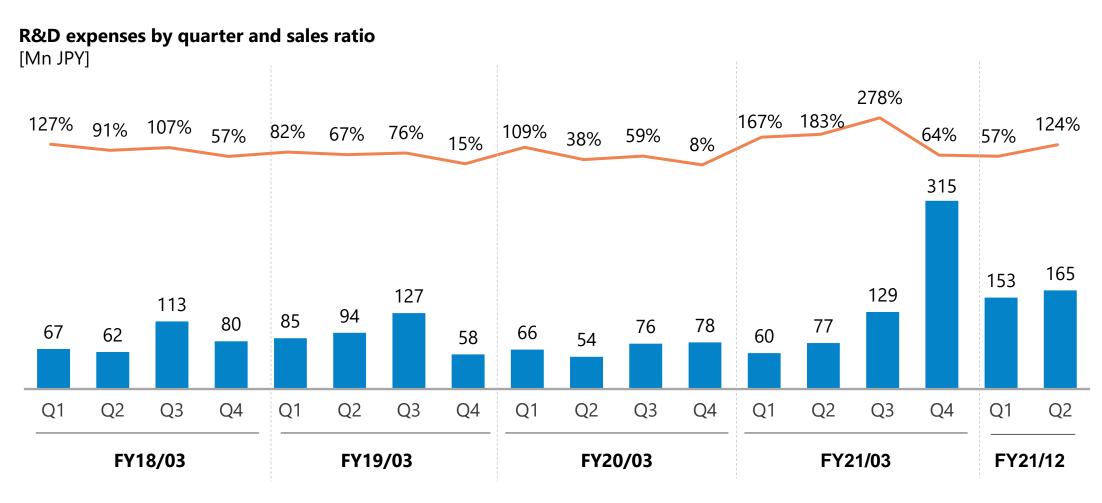


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## **Trends in R&D Expenses**



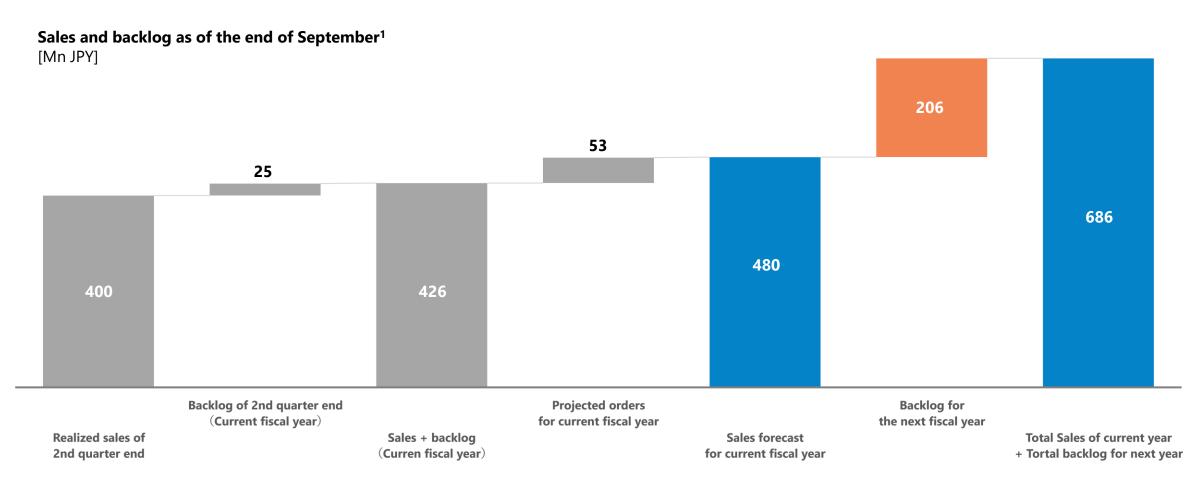
Regardless of the sales situation, ACSL continued core R&D activities as an upfront investment for market expansion.



## Orders received as of the end of September



As of the end of September, backlog<sup>1</sup> was approximately 230 Mn JPY, including projects scheduled for acceptance in the next fiscal year. Total of realized sales of 2nd quarter end, projected orders for the current fiscal year, and backorder is approximately 680 Mn JPY.



<sup>1:</sup> Order backlog is the total amount of orders received as of September 30, 2021.



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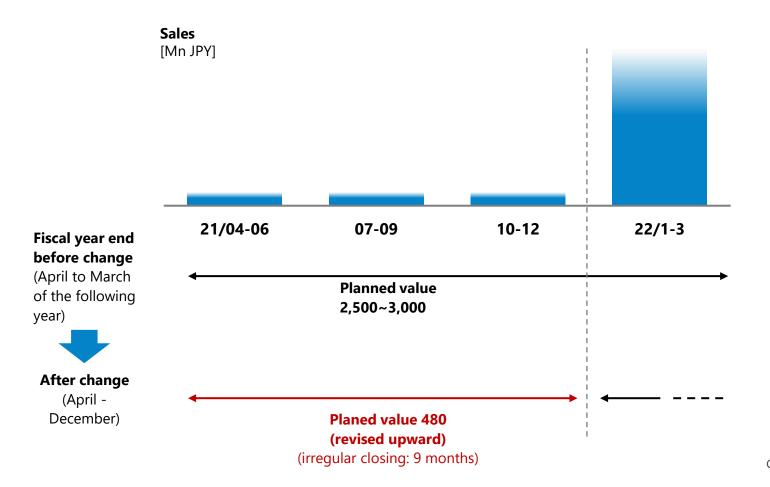
3 FY21/12 ((21/04-12) ) Plan

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## Changes to fiscal year end



As sales were mainly realized in January to March, in order to address the transparency of full-year outlook the fiscal year has been changed to January to December from the April to March of the following year. With this change, the plan for the current fiscal year was also split.



- ACSL records sales on an acceptance basis. Since most of the large projects are closed in March, sales are skewed to January and March guarter.
- Due to a change in the fiscal year end, the fiscal year ending December 31, 2021 will be irregular, with only nine months from April to December 2021.
- Upwardly revised forecast for the fiscal year from 350 Mn JPY to 480 Mn JPY.
- Sales of application-specific drone, such as small aerial drone, are expected to be booked from next year.

## **Earnings forecast**



9-month sales are expected to be 480 Mn JPY in 9 months. In addition to regular PoC, development and sales of platform drone, sales from national projects are expected to grow, resulting in an upward revision with 130 Mn JPY from the previous forecast of 350 Mn JPY.

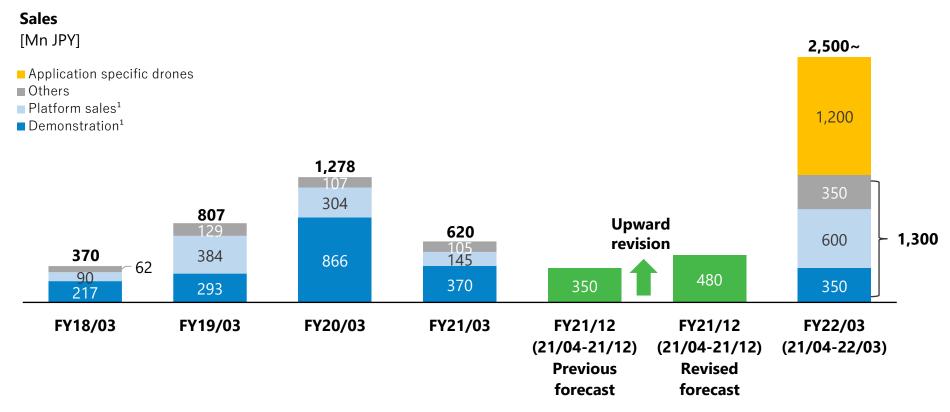
[Mn JPY]

FY21/12 (21/04-12)	Revised earnings forecast	Previous earnings forecast	Difference	Reference (22/01-03 3 Months) Forecast
Sales	480	350	+130	2,150~2,650
Operating profit	▲980	<b>1</b> ,000	+20	-
Ordinary income	<b>▲</b> 1,020	<b>1</b> ,000	▲20	300~700
Net income	<b>▲</b> 1,020	<b>1</b> ,000	▲20	320~720

#### **Sales Trends and Breakdown**



FY22/03 (Apr. 2021-Mar. 2022) sales are expected to be 2.5 Bn JPY~ due to the same level of sales as FY20/03 and increased sales from the sale of small aerial drone. FY21/12 (9 months) sales revised upward from 350 Mn JPY to 480 Mn JPY.



<sup>1:</sup> From the first quarter of the fiscal year ending March 31, 2021, solution construction (STEPs 1 and 2) will be renamed demonstration tests, and aircraft sales (STEPs 3 and 4) will be renamed platform aircraft sales

#### **Potential risk**



Although ACSL is addressing the risks associated with the global shortage of semiconductors and the various effects such as continued spread of the COVID-19, there is a remaining risk of the business environment could be worse in the next fiscal year and beyond.

#### Impact of semiconductor shortage

- In response to the global shortage of semiconductors, there is also a shortage of semiconductors embedded in modules and other products that ACSL is procuring
- Already longer lead times and higher prices for semiconductors and modules
- No impact expected on sales achievement in the current fiscal year
- ACSL currently expect to be able to secure the volume of procurement for the next fiscal year in order to realize sales.
   ACSL are considering passing on the cost of some products to sales prices.
- In the event of longer lead times and higher prices in the future, there is a risk that sales expansion will be limite and profit margins will deteriorate.

#### Impact of the spread of coronavirus infection

- As of November 2021, business activities will gradually recover after the declaration of the state of emergency is lifted
- Due to the nature of the Company's business, it is necessary to conduct hearings and demonstration experiments by visiting customer sites, which are mainly located in regional areas, and this involves travel, so a certain degree of restriction on activities continues to exist.
- ACSL assume that there will be no major restrictions on our activities due to the declaration of a state of emergency in the period from January to March, which is the period in which the majority of our sales are generated. ACSL will be able to carry out our activities in the period from April to December, although there will be certain restrictions.
- Even if demonstration tests and drone sales are delayed between January and March due to activity restrictions, the impact throughout the fiscal year is expected to be small because the project can be implemented by December, which is within the same fiscal year.

#### **KPI** forecast



		FY18/03	FY19/03	FY20/03	FY21/03	FY21/12 (21/04~ 21/12)	FY23/03 (22/04~ 23/03)
	Index	Actual	Actual	Actual	Actual	Forecast	Medium-Term Management Direction
Sales of application-specific dro	ones						
Small agricl photo	Unit						1,000~
Small aerial photo (low ASP)	Value (100 Mn JPY)						10
Other application-specific	Unit	-	-	-	-	-	300~
drones (high ASP)	Value (100 Mn JPY)						10
Development of application-spe	ecific drones <sup>1</sup>						
	Project	60	81	112	82	39	-
PoC and Development	Value (100 Mn JPY)	2.1	2.9	8.6	3.7	1.2	20
Calaa af Dlatfama /	Unit	40	106	101	46	16	-
Sales of Platform/ Evaluation drones <sup>1</sup>	Value (100 Mn JPY)	0.9	3.8	3.0	1.4	0.5	10
Number of shipments <sup>1</sup>		-	136	128	71	23	~300

<sup>1:</sup> 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)



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#### **ACSL Company Profile**





**Establishment** November 2013

# of employees<sup>1</sup> 68 ppl

Capital <sup>2</sup> 4.5 Bn JPY

National projects<sup>3</sup> 5 projects

Series A Mar. 2016 720 Mn JPY Series B
Jan. 2018
2.12 Bn JPY

Dec. 2018
2.18 Bn JPY

Third-party allocation July 2021 2.99 Bn JPY

<sup>1:</sup> As of September 30, 2021

<sup>2:</sup> Including capital reserve (as of September 30, 2021)

<sup>3:</sup> Only major national projects of 10 million yen or more were counted.

#### Management Team (as of September 30, 2021)





President and COO

Satoshi Washiya

M.S. of Architecture from Waseda University. Served both domestic and multinational companies in corporate wide transformation projects at Tokyo and Stockholm office of McKinsey & Company. Joined ACSL in July 2016.



Chairman

Dr. Hiroaki Ohta

Ph.D. from Kyoto University. Assistant professor at Department of Aeronautics and Astronautics, Kyoto University, followed by research scientists at University of California, Santa Barbara. Also served as Technical Advisor for a start-up in Silicon Valley. McKinsey & Company from 2010. Joined ACSL as in July 2016.



**CFO** 

Kensuke Hayakawa

M.S. of Management of Technology from Tokyo institute of technology. Implemented operational improvement/transformation of Portfolio companies at KKR Capstone. Joined ACSL as CFO in March 2017.



CTO

Dr. Chris Raabe

Ph.D. from University of Tokyo. Embedded software engineer at Boeing from 2006. Assistant professor at Department of Aeronautics and Astronautics, University of Tokyo from 2014. Joined ACSL as CTO in April 2017.

**External** Director

Masanori Sugiyama

Audit & Supervisory member

**Akira Ninomiya** 

Audit & Supervisory member

Hideki Shimada

Audit & Supervisory member

Takeshi Ohnogi

## Our Approach to the SDGs



We will actively promote SDGs by providing drone solutions in delivery and disaster prevention fields, where we are focusing our efforts to.

<b>Issues</b>	to	be	reso	lved
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#### **Our Approach**

#### **Specific examples**

#### **Corresponding SDG targets**



Increase in logistics volume due to expansion of EC

maintaining existing

declining labor force

logistics due to

Need for rapid

Difficulty in



Development of delivery drone

Demonstration for

drone logistics



Conducted a demonstration on delivery between remote islands in Goto City, Nagasaki with ANA Holdings



Conducted a demonstration of drone delivery in the Nishi-Okutama, Tokyo, with Japan Post



Development of delivery drone with VFR







disaster response in the event of natural disasters



Development of drones for support disaster areas



Conduced a survey as initial action using a drone during a rain disaster in Nagano

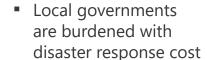


Conducted a survey to check the situation using a drone during a rain disaster in Kyusyu



Transported emergency supplies in Nishitama-gun, Tokyo, with ANAHD and NTT DOCOMO









Free offer of ACSL's drones to disaster areas







#### **Balance Sheet**



Mn JPY		1/12 1/09)	FY21/03 2Q(20/09)	FY21/03
1411131	Actual	YoY Increase/Decrease	Actual	Actual
Current assets	4,974	+ 35%	3,696	3,257
Cash	4,015	+ 27%	3,173	1,891
Fixed assets	1,129	+6%	1,070	751
Current liabilities	167	+ 54%	108	432
Fixed liabilities	5	_	-	3
Total liabilities	172	+ 58%	108	436
Net assets	5,932	+ 27%	4,658	3,572
Total assets	6,104	+ 28%	4,767	4,008

Note: Figures for the third quarter of the fiscal year ending March 31, 2021 and thereafter are based on consolidated financial statements and figures for earlier quarters are based on non-consolidated financial statements

## **Sales by quarter**



Fiscal Year		FY18/03					FY1	9/03		FY20/03				FY2	FY21/12				
Quarterly Results		1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q
Demonstration Experiment <sup>1</sup> • Proof of Concept • Custom Development	Sales Mn JPY	6	37	57	116	25	59	75	133	27	65	102	671	1	22	22	323	14	42
	Number of projects	8	6	27	19	6	16	22	37	14	22	21	55	2	11	15	54	6	14
Platform Selling the drone <sup>2</sup> • Sales of standard and general-purpose	Sales Mn JPY	16	25	32	16	10	67	80	225	24	48	19	212	4	10	13	116	15	34
drone  • Drone modified for customers based on the standard drone	Number of units	7	10	18	5	8	20	31	47	6	12	9	74	1	3	5	37	6	6
Other <sup>3</sup> • Sales of parts • Fuselage repair service • Some national projects	Sales (of which, national pro) Mn JPY	30 (27)	6	16	9	68 (65)	14	12	33	9	29 (18)	9	59	30 (21)	8	10	55	237 (219)	55 (50)

<sup>1:</sup> Solution development (STEP1, 2) was renamed to "Demonstration Experiment" from FY21/03 Q1

<sup>2:</sup> Mass production (STEP3, 4) was renamed to "Platform Selling the drone" from FY21/03 Q1

<sup>3:</sup> For national projects, subsidies received are generally posted as non-operating income. On the other hand, some projects whose main purpose is to conduct commissioned experiments are recorded as sales

## **Major financial items by quarter**



Fiscal year <sup>1</sup>	FY18/03					FY19/03				FY20/03				FY21/03				FY21/12	
Quarterly Results	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	
Gross profit Mn JPY	4	40	63	68	13	83	101	204	8	69	75	655	<b>A</b> 6	<b>A</b> 6	<b>1</b> 3	94	17	5	
Gross profit margin	9%	60%	60%	48%	13%	59%	60%	52%	14%	48%	58%	70%	<b>▲</b> 19%	<b>▲</b> 16%	<b>▲</b> 28%	19%	7%	4%	
SG&A Mn JPY	149	165	218	186	157	172	244	159	205	171	201	213	230	173	314	488	325	321	
of which R&D expenses Mn JPY	67	62	113	80	85	94	127	58	66	54	76	78	60	77	129	315	153	165	
R&D expense ratio to Sales	127%	91%	107%	57%	82%	67%	76%	15%	109%	38%	59%	8%	167%	183%	278%	64%	57%	124%	

<sup>1:</sup> Figures for the third quarter of the fiscal year ending March 31, 2021 and thereafter are based on consolidated financial statements and figures for earlier quarters are based on non-consolidated financial statements

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