AUTONOMOUS CONTROL SYSTEMS LABORATORY CORPORATE INFORMATION

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Highlights of 3rd quarter

Annual orders for FY2020/03 is on track (over 1 BN JPY at Q3 end).

- ✓ Sales (completed projects) were JPY335MM at Q3 YTD. Highly probable pipelines are 709 MM JPY.
- ✓ "Provide Solutions" (STEP1, 2) and "Mass Production" (STEP3, 4) remained the same level compared to previous year. However, sales for national projects declined (from 65 MM JPY in FY19/03 to JPY18 MM in FY20/03).
- ✓ Demand for "Provide Solutions" remains strong from existing customers, and ongoing large-scale projects. No change to annual forecast.
- ✓ No significant change in cost structure since the forecast
- Deployments of drone solutions are accelerating among existing customers. Steadily developing top-tier new customers
- Strong demand for "Made in Japan" drones due to increasing need for data safety and reliability

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Financial Highlights

Achieved JPY335MM in Q3. Sales declined YoY due to increased seasonality and decline in sales from national projects

[MM JPY]					
	FY20/03 Q2 Q3 (cumulative)		FY19/03 Q3 (cumulative)	FY19/03 Annual	
	Actual	YoY	Actual	Actual	
Sales	335	▲ 19.1%	414	807	
Gross profit	152	▲23.2%	199	403	
Gross margin	45.6%	▲2.5 ppt	48.1%	50.0%	
Operating loss (\blacktriangle)	▲426	_	▲ 374	▲ 330	
Ordinary loss (▲)	▲209	-	▲215	▲ 176	
Net loss (▲)	▲212	-	▲218	▲ 183	

Order status for FY 20/03 at Q3 end

Highly probable pipelines¹ at Q3 is 1.04 BN JPY. Steadily confirming orders in Provide Solutions (STEP1, 2) towards annual sales forecast (1.4 BN JPY)



1 : Highly probable pipelines is the total amount of sales for projects with a purchase order and related documents at the end of December © 2019 ACSL Ltd. All Rights Reserved.

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Sales and Operating Profit by Quarter

Scope of individual orders are getting larger, and sales are booked upon completion, creating increased seasonality with sales realized in Q4.



Sales Recognition and Seasonality

Sales are booked upon acceptance by client (at end of project). Seasonality increases towards 4Q driven by large-scale projects, mainly from existing customers



Large-scale projects and seasonality



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Sales

"Provide Solutions" (STEP 1,2) and "Mass Production" (STEP 3,4) remain the same level YoY. "Others" decreased due to national projects



Provide Solutions Sales

New client development and application expansion by current clients led to an increase in number of deals to 57



Mass Production Trends

Mass Production (STEP3, 4) sales decreased YoY in Q3, but unit price remains the same



Deployment for commercial usage (Sales of mass production model)

- Supply improved customized drones and systems
- Piloting or commercial use at actual sites by clients

*STEP 4 is more than 10 units sales per client in a year. Standard model sales is also included.

"Mass Production" (STEP 3,4) Sales (MM JPY)





Other Sales

Maintenance remained at the same level as last year while sales for national projects decreased from 65 MM JPY to 18 MM JPY



Gross Profit and R&D Expenses

Gross margin decreased on YoY basis. Annual R&D investment volume expected to remain similar to last year



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Forecast for FY2020/03

Continued high sales growth ratio. FY20/03 sales is expected to be 1,418 MM JPY. Operating profit is expected to be 9 MM JPY

[MM JPY]

	FY2020/03 Q3 Annual		FY2019/03 Annual
	Forecast	YoY	Actual
Sales	1,418	76%	807
Gross profit	850	111%	403
Gross margin	60.0%	+10.0 pt	50.0%
Operating income	9	Turn Positive	▲330
Ordinary income	187	Turn Positive	▲ 176
Net income	119	Turn Positive	▲ 183

Sales Forecast

Expected to grow through customer based expansion and transitioning current customers to the mass production phase



KPI by STEP

In FY 20/03, the KPI targets 110 solution deals, and 220 unit sales



Gross Profit and R&D Expenditure

Gross margin is expected to improve due to sales expansion. R&D investment is expected to be kept in the same volume





Profit forecast

An operating profit is expected to be posted in FY2020/03. Ordinary profit is expected to be 187 with subsidies from national projects



Operating Profit

- Expenditure for national projects is counted under R&D
- Subsidies for projects is count as nonoperating income in the following fiscal year
- About 150MM JPY is counted in FY19/03 as subsidy for projects completed in FY18/03
- About 180MM JPY is expected in FY20/03 as subsidy for projects completed in FY19/03

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Major Business Highlights for Q3

In Q3, high media coverage for inspections, disaster prevention and package delivery. Flight demonstrations continued with customers.

Oct	Transported daily necessities and health supplements with drones to 70 people in 40 households in an isolated area after typhoon Hagibis	ANA döcomo
	ACSL initiatives towards disaster prevention were highlighted in "Innovate Japan", a broadcast by CNN International.	CNN
Nov	Supported flight demonstrations of tunnel inspections conducted by Zenrin Datacom and JR Hokkaido	ZENRIN DataCom
	Jointly exhibited at INCHEM TOKYO 2019 with Accenture, and introduced plant maintenance technologies using drones	accenture
Dec	Selected as CIO Advisor's Top 10 APAC Machine Vision Solution Provider	CIO Advisor
	Supported ANA Holdings to conduct second phase demonstration of unmanned logistics with drone between remote islands in Goto City, Nagasaki Prefecture	ANA
Jan	Released Mini, a "Made in Japan" small industrial drone that can be used both indoors and outdoors	

Strong customer base in key applications

Steady expansion of customer base among major companies. About 80 core clients are looking to deploy customized drones for operation

Application	Drone utilization	Examples of major customers (only disclosed base)		
	 Substitution of existing visual inspection, reduction of high-site work risk 	२२ 株式会社 NJS	ま来を創る現場力	
Inspection	 Close inspection of a high-site/closed environment that have not been inspected 	döcomo 4	IDEMITSU	
Logistics	 Substitution of existing distribution network, cost improvement, productivity improvement 	TAISEI	ANA	Rakuten
Disaster prevention	 Surveying locations that inaccessible or at high risks 	疑察総務省消防庁 Fire and Disaster Management Agency	建設電気技術協会 AETELI	



From testing to implementation phase

NJS, collaborating since 2016, has been conducting inspections and surveys of hydroelectric power plants in addition to drainage inspection

Developed drainage pipe inspection drones

- Developed drainage inspection drones with NJS in 2016
- Compared to previous crawler-type screenings costing 2,000 JPY/meter, the technology is expected to reduce costs by ~20%
- Significant market potential with approximately 470,000 kilometers of sewage and drainage pipes nationwide
- Plan to continue developing AirSlider™ improvements

Applied to Hydroelectric Power Plant Inspections

- In 2018, NJS jointly developed customized drones together with Kansai Electric Power Co. and Kankyo Technos to inspect the inside of hydraulic iron pipes at hydroelectric power plants
- Aiming for significant cost reduction by replacing current scaffolding-based inspection with drone inspection

Source: NJS Drone for hydraulic iron pipe inspection



Transportation of Goods by Drone to Isolated Area

Used drones to transport daily necessities and medical supplies to an area that was isolated by typhoon damage to surrounding infrastructure



Governor Koike receiving explanation in front of drone

Emergency supplies transport

- Used drones to transport daily necessities and medical supplies to 70 people in 40 isolated households
- ACSL provided drone aircraft, and ANA Holdings and NTT DoCoMo assisted flight operations flight
- The drone flew beyond visual line-ofsight (Level 3) for 2.5 km and 5 minutes using LTE communication.
- While a normal flight requires prior application to the government, this flight was performed under special permission, as granted under Japanese regulations for disaster response

Covered on CNN Innovate Japan

ACSL's initiatives towards disaster prevention were covered by CNN Innovate Japan.

CNN Innovate Japan

- A special feature program offered by CNN International that broadcasts with a central theme for each program
- ACSL drones for disasters prevention were covered as a Japanese initiative of "cutting-edge disaster prevention technologies"

Chris Raabe, ACSL CTO, commented on human detection technology using cutting-edge AI and the possibility of using drones at time of disaster.



Supported Zenrin Datacom and JR Hokkaido

ACSL provided drones for JR Hokkaido and Zenrin Datacom to conduct autonomous flight demonstration in tunnels, a non-GPS environment

- JR Hokkaido is considering drones to supplement inspections conducted manually by eye
- Using photographs taken by drones, they aim to improve maintenance efficiency and management of facilities in sight of future labor shortages, and to improve the safety of operations
- For stable flight in non-GPS environments, laser sensors and computer vision technologies were used to recognize the cross-sectional shape of the tunnel in real-time and to calculate position of the drone relative to the tunnel



Source: Zenrin Datacom Press Release © 2019 ACSL Ltd. All Rights Reserved.

Plant Maintenance Technologies with Accenture

Jointly exhibited at INCHEM TOKYO 2019 with Accenture, to promote plant maintenance technologies using drones

INCHEM TOKYO 2019

- INCHEM TOKYO 2019 is a exhibition held every 2 years, with total of ~20,000 visitors over 3days
- Jointly exhibited with Accenture, and introduced plant maintenance technologies using drones



Exhibited rust pipes and drones

Accenture articles online

- Accenture's website released "The world's first practical application of automating plant maintenance using Al x drones"
- The article featured partnership between ACSL and Accenture



Source: Accenture HP



Increasing Demand for "Made in Japan" Drones

Increasing demand for "Made in Japan" drones in pursuit of data safety and reliability, a tailwind for ASCL

Support for "Made in Japan" drones

- In December 2019, the Ministry of Economy, Trade and Industry posted a supplementary budget of JPY1.61 BN. The budget is allocated towards development and production of drones for government procurement, titled "Development of Foundational Technologies for Safe and Secure Drones"
- In December 2019, news was reported that the Japan Coast Guard has decided not to procure Chinese drones used for rescue photography, warning and surveillance



Source: Outline of the draft amended budget for 2019 by the Ministry of Economics and Industries.

Released a Small "Made in Japan" Drone: Mini

Released a "Made in Japan", affordable small-size drone in January 2020 in response to increasing demand for small-size drones

Key features of small drone "Mini"

- Control technologies developed fully in-house and quality control that meets ISO9001
- Designed to mount camera on top of the body for applications such as bridge inspections
- 6-direction sensor, and additional stereo camera in the front for collision avoidance

Top-of-the-class flight time with 48 minutes



Small-sized domestic drone "Mini"

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About ACSL

- Name Autonomous Control Systems Laboratory Ltd.
- Office WBG Marive West 32F, 2-6-1 Nakase, Mihama-ku, Chiba-city, Chiba
- Established 2013 November
- Capital 2,988 MM JPY
- #of Employee 47(As of 2019 December)
- Business Manufacturing and providing industrial drone and providing

solution service for automation with autonomous technology

Management team



President 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 COO from July 2016 and became President from March 2018.



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СТО

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.



CFO/CAO 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.



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
External Director	Shinichi Suzukawa

Audit & Supervisory member	Akira Ninomiya
Audit & Supervisory member	Hideki Shimada
Audit & Supervisory member	Takeshi Ohnogi



Mission, Corporate value

Mission

Liberate Humanity through Technology

Corporate value

Pursue world-class autonomous technology and accomplish social implementation, to automate and unman human tasks and promote evolution of humanity

Business overview

Unmanned IoT platform for industrial applications using drones



Why autonomy – ACSL realizes unmanned IoT systems

ACSL provides an integrated, autonomous, unmanned IoT drone systems to supplement human labor in inspection, delivery, disaster and surveys



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Core technology – Drone's brain and system development

Propriety "drone's brain" – environmental recognition and controls – enables ACSL to meet a wide range of customer demands



Core technology – Cutting edge non-GPS based controls

Image processing based localization and mapping (i.e., Visual SLAM) enables drones to fly in GPS-denied environment

Visual SLAM does not use air pressure sensor, magnetic compass or GPS/GNSS for autonomous flight



Visual SLAM cameras



Extraction of feature points

Core technology – GPS-denied flight for inventory management



Core technology – Edge computing

NVIDIA's embedded PC module Jetson TX2 is installed. Realizing highly reliable processing in real time with software that meets various needs



Visual SLAM



AI detecting safe landing spot



Software is installed in embedded PC module mounted on drone



- Real-time and reliable data processing by edge computing
- ✓ Differentiate flight performance with image processing and AI
- Add safety features such as collision avoidance in combination with stereo cameras and LiDAR

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Core technology – Embed system (Core API)

By opening APIs of in-house ground control stations, drone operation functions can be installed and extended to customer's systems



Core API

- \checkmark API to communicate with ACSI drone
- ✓ Ground control station functions required for flight operations such as route plan creation and flight monitoring



- \checkmark Optimize integration with customer's operations in system
- \checkmark For example, integration into dedicated systems such as equipment inspection, logistics, and disasters ACSL

Core technology – Customization capability

Realize custom response by adding options based on drone for various needs such as delivery, inspection, surveying, etc.

4-eye high-speed camera for measurement surveying



Catcher that automatically opens and closes for delivery



Core technology – Customized parachute for safety

ACSL provides customized parachutes to reduce 90% of falling energy, closely integrated to controls for autonomous performance





*1: Physical energy of 8kg drone dropped from 150m height

Growth model – Step-wise Proof-of-Concept approach



STEP 1

Proof of Concept (Detail out drone usage)

- Verification of concept for drone usage is feasible or not
- · Closed trials
- Use of ACSL
 platform drones



STEP 2

Custom development (Design and develop entire system)

- Detail test designs
- Development of customized drones and systems
- Testing at low risk
 environment

Deployment for commercial usage (Sales of mass production model)

STEP 3 / STEP 4

- Supply improved customized drones and systems
- Piloting or commercial use at actual sites by clients

Lower entry barrier for clients and verify economic impact through PoCs

Enhance relationship and continuity with clients supported by customized systems

Growth model – Example of end-to-end drone systems

Rakuten Drone



Rakuten drone "Tenku"

Rakuten promotes delivery drone systems to tackle lastone-mile issues across Japan

- Customized drone
- CoreAPI for software development

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エアスライダー Air Slider



NJS "Air Slider"

NJS rationalizes inspection of closed-loop environment (e.g, sewages) through this drone system

- Custom small drone
- Custom software designed for userexperience





MORITA "Rei-Humming"

MORITA revolutionaries fire fighting by embedding aerial survey drone as part of the fire trucks

- Custom fire-fighter drone
- Switch between wired charging and battery

Growth model – Effective R&D cycle centering on client needs

Themes are defined based on client needs, developed as platform technology, and tested as STEP1 (PoC) for successful transition to STEP 2



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Potential market - Potential market for drone applications

ACSL's main market



Source: Inspection (MLIT; "インフラメンテナンスを取り巻く状況") Delivery (MLIT; "平成28年度 宅配便等取扱個数の調査及び集計方法") Disaster reconnaissance (Sankei News; 2017/12/22; "公共事業では防災・老朽化対応に重点") Aerial survey (MLIT; "建設関連業 登録業者数調査") Aerial photography (MLIT; "改正航空法の運用状況") Agriculture (MAFF; "農業労働力に関する統計")

Potential market - From "Testing" to "social implementation"

Illustrative examples

Inspection		Delivery		Disaster reconnaissance	
	Budget invested in infrastructure in FY18 : 2 trillion JPY		Delivered package by Japan Post in FY 18 : 40 Billion		FY18 budget for disaster prevention by local governments : 1 trillion JPY
Evaluation of drones is in the "Inspection Support Technology Performance Catalog" compiled by the Ministry of Land, Infrastructure, Transport and Tourism	İmpa Juma Bita, ale, and, and, and Impa Juma Bita, ale, and, and Impa Max.Wate Max.Wate Max.Wate Max.Wate </td <td>Japan Post carries out inter-post office transportation of for half a year</td> <td>5</td> <td>ANA and ACSL use special exceptions to transport goods to isolated villages after typhoon</td> <td></td>	Japan Post carries out inter-post office transportation of for half a year	5	ANA and ACSL use special exceptions to transport goods to isolated villages after typhoon	
METI establishes Guidelines for	プッン・にまけるドローンが今年7月前次の 1 NJ をダイトライン	Rakuten conducts		A drone was	

paid transportation

service of food for

one month

used to

investigate a

distressed girl

Safe Operation of Drones in Plants

ありますメ 石油マンビンートな力量が広いな道路会談 2015年20月1日、日本分布は、石道電子の1

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Potential market - Drone in social implementation phase

In social implementation phase, industrial drones are required to have customized specifications adapted for each application

	Flare stack inspection	Tunnel / sewage pipe inspection	Logistics in remote islands
Application	Visual inspection of the top of the flare stack of an oil and chemical plant Inspection only on sunny days Obtain visible light images during the daytime in an environment with GPS	Highway company road tunnels and power company drainage tunnels Regular inspections, conducted in all weather Visible light imaging in dark environment with non-GPS	Drone transport as an alternative to boat transport between remote islands Conducted in all weather (excluding typhoons)
Required functions/ specifications	Outdoor wind resistance (resistance in all directions) Combination of camera and gimbal to acquire high- resolution images without approaching equipment Minimize damage to petroleum and chemical plant equipment (explosion proof, absorption materials, etc.)	Autonomous flight technology under non-GPS environment (use of lidar sensor, etc.) Combination of flash, camera and gimbal for high-resolution shooting in dark environments IP certification such as dust resistance and waterproofness Flight stability against turbulence caused by a closed	Due to the directivity of flight (the direction of travel is fixed), lift and wind resistance utilizing directivity Risk control for third parties Flight stability in response to weight changes of luggage

For industrial applications, drones needs optimized for application , not "One fits all"

Illustrative examples

Inspection Case – Autonomous flight at chemical plant

ACSL provides autonomous systems where drone takes images of chemical pipelines, automated analytics by AI and issue inspection report



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Inspection Case – Inspection of sewage pipelines

ACSL aims to supplement current sewage pipeline screening inspection with drone systems to reduce cost from 2,000 to 800 JPY/meter



Delivery Case – Japan post started long distance delivery

Japan Post initiated 9km inter-post office flight with ACSL drones after receiving the first permit as Level 3 Flight (BVLOS in unmanned areas)



ACSL realized drone delivery

- Japan Post began automation of luggage delivery in Minamisoma City and Namie Town, Fukushima Prefecture from November 2018
- ACSL offers the first fully autonomous control drone that can handle "BVLOS and non-assistant flight" for the first time after the revision of the Aviation Law Guidelines
 - As a result, automatic delivery of approximately 15 minutes over distances that would have taken approximately 25 minutes with conventional trucks



Drone leaving post office

Disaster Reconnaissance Case – Survey after rain disaster

ACSL conducted large area survey of 6km distance at 50km/h flight speed on behalf of the fire department, after receiving special permit from MLIT





Disaster Reconnaissance Case – Survey after rain disaster

Quad-lens camera enabled 8 global shutters per second at 70km/h autonomous flight, realizing 2cm pixel image taken from 100m height



Potential market – Potential application to UGVs and Space



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Potential market – Similar demand seen overseas



Balance sheet

[MM JPY]

	FY20/03 Q3		FY19/03 Q3	FY19/03 Q4
	Actual	YoY	Actual	Actual
Current Assets	4,246	▲ 10%	4,732	4,858
Cash	3,808	▲ 15%	4,460	4,465
Fixed Assets	400	+602%	57	68
Total Assets	4,647	▲3%	4,789	4,926
Current Liability	109	▲23%	141	225
Fixed Liability	0	-	0	0
Total Liability	109	▲23%	141	225
Net Asset	4,538	▲2%	4,647	4,701
Total Asset	4,647	▲3%	4,789	4,926

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