



Financial Results Briefing Material

FY2021 Q2 (ended Jun 30th, 2021)

Neural Pocket Inc.
Aug 13th, 2021



- **Business Overview**
- FY2021 Q2 Business Progress
- Performance Highlights and Growth Strategy

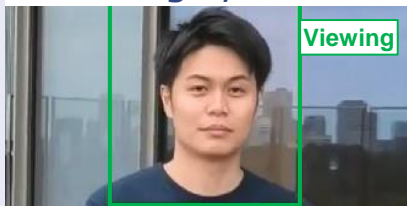
We develop proprietary AI-enabled image recognition technology

Marketing

Age, gender



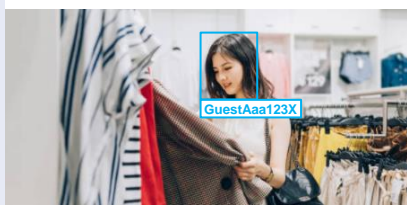
Line of sight, view rate



Group analysis

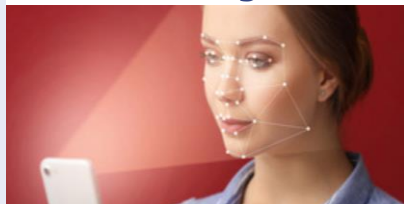


Guest revisits



Security

Facial recognition



Intruder detection



Safety monitoring



Pedestrian flow, count



Mobility

Vehicles, road signs



Parking lot occupancy



License plate detection



Traffic analysis



Operations

Object detection



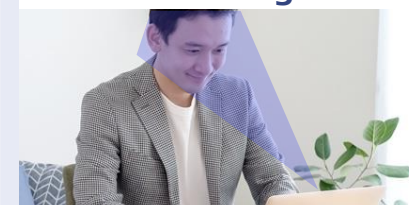
Space visualization



Fashion, equipment



Emotion recognition



We are applying proprietary AI libraries to enable Smart Cities

Neural Pocket provides digital services for physical spaces to enhance real world experiences through introducing intelligent AI cameras

“AI Smart City Revolution”



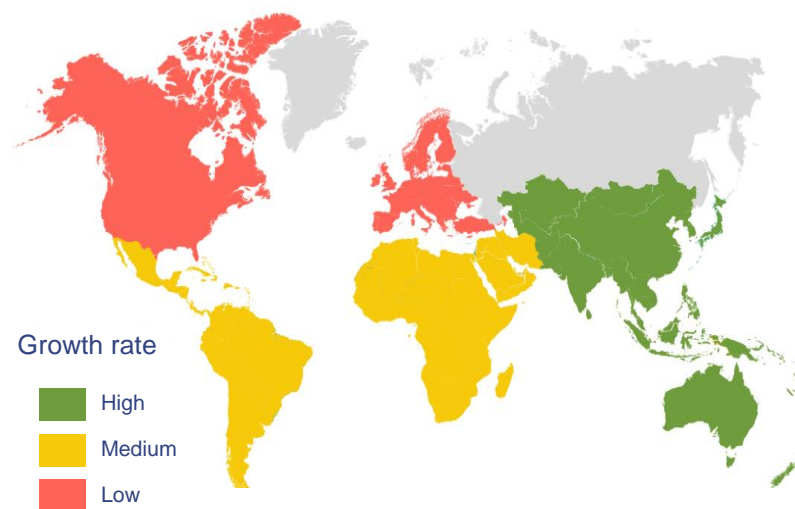
A vast, entirely new Smart City market is being created

Global Smart City market size is approx. \$1-2 trillion USD

Asia is the source of growth for smart cities

Research Company / Report Name	Global Market Size
Allied Market Research Smart Cities Market by Functional Area : Global Opportunity Analysis and Industry Forecast, 2018 – 2025	In 2025 2.4T USD
Mordor Intelligence Smart Cities Market - Growth, Trends, and Forecast (2020 - 2025)	In 2025 1.7T USD
IMARC Smart Cities Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2020-2025	In 2025 1.0T USD
Markets And Markets Smart Cities Market by Smart Transportation, Smart Buildings, Smart Utilities, Smart Citizen Services - Global Forecast to 2023	In 2023 0.7T USD

Smart City Market Growth Rate by Region (2019-2024)

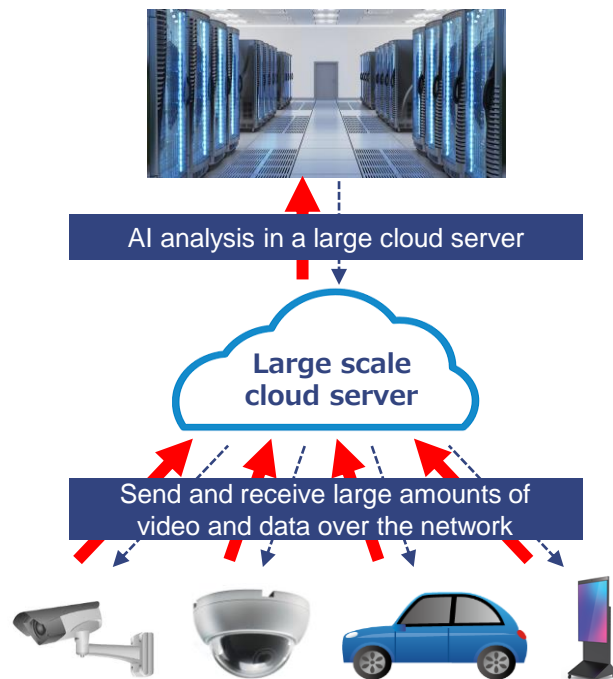


Source: Mordor Intelligence

Edge AI is a technology that overcomes many of the problems traditional Cloud AI faces

Cloud AI

Conventional approach

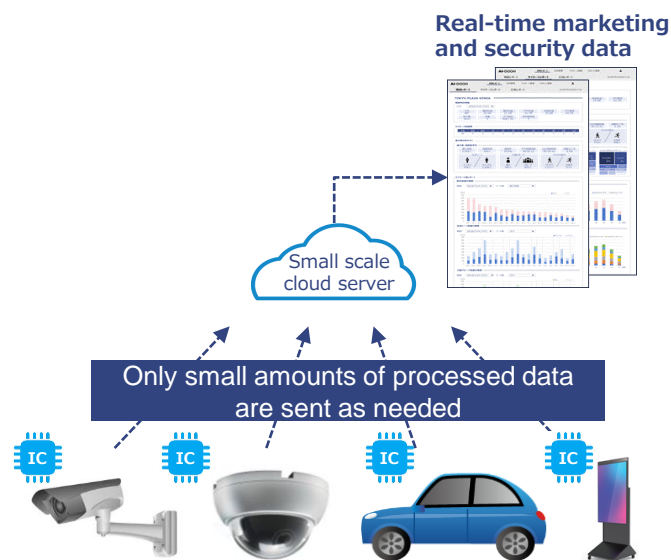


- **High costs** (Communication and maintenance)
- **High latency** (High network load)
- **High electricity consumption**

Edge AI

Our approach

- Original data (video, etc.) before AI analysis
- - - - - Metadata after AI analysis (text data)

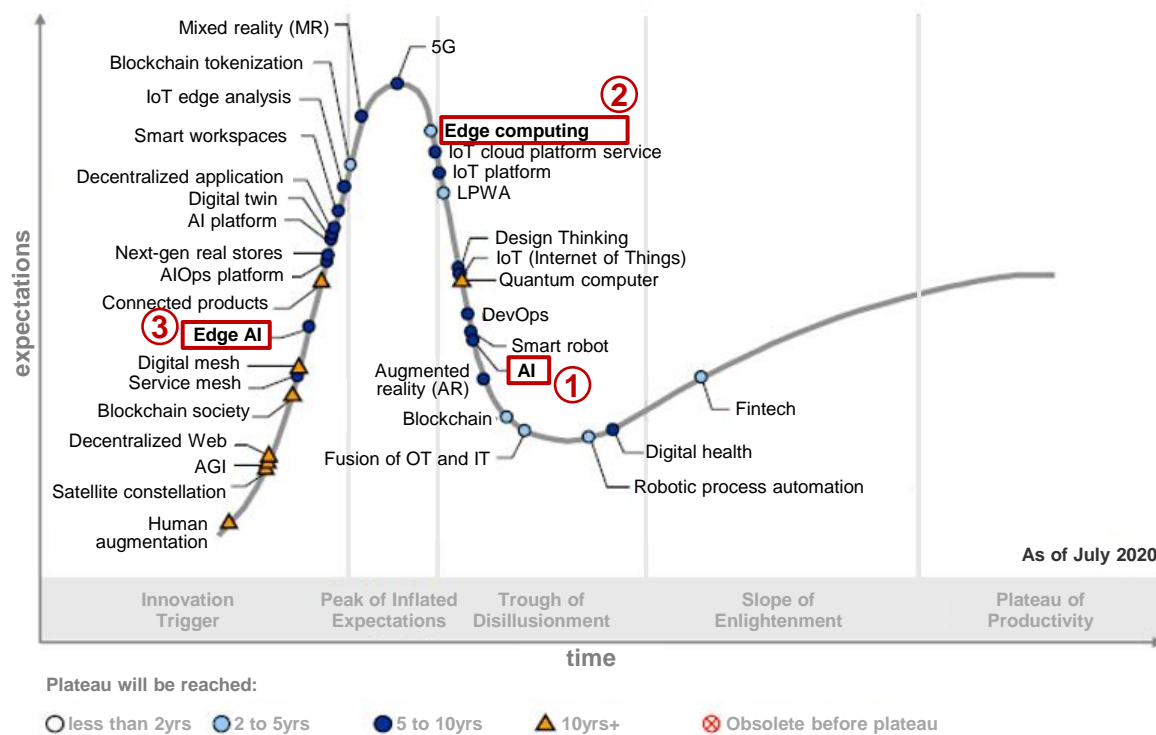


- **Low costs**
- **Low latency**
- **Green/ low electricity consumption**

Also greatly contributes to privacy protection

Technological evolution of AI and the positioning of “Edge AI”

Technology trend by Gartner^{*1}



AI technology evolution and the implications for Neural Pocket

- ① Since the development of deep learning in 2012, AI has continued to evolve and the **evolution of the technology has eased**
- ② The **generalization of edge computing** has progressed through technological innovation by NVIDIA and other edge device manufacturers
- ③ On the other hand, there are only a few companies globally that have the ability to develop **compact, high-quality AI** that can be installed on edge devices, making **“Edge AI” an area ripe for innovation where first-mover advantage can still be captured**

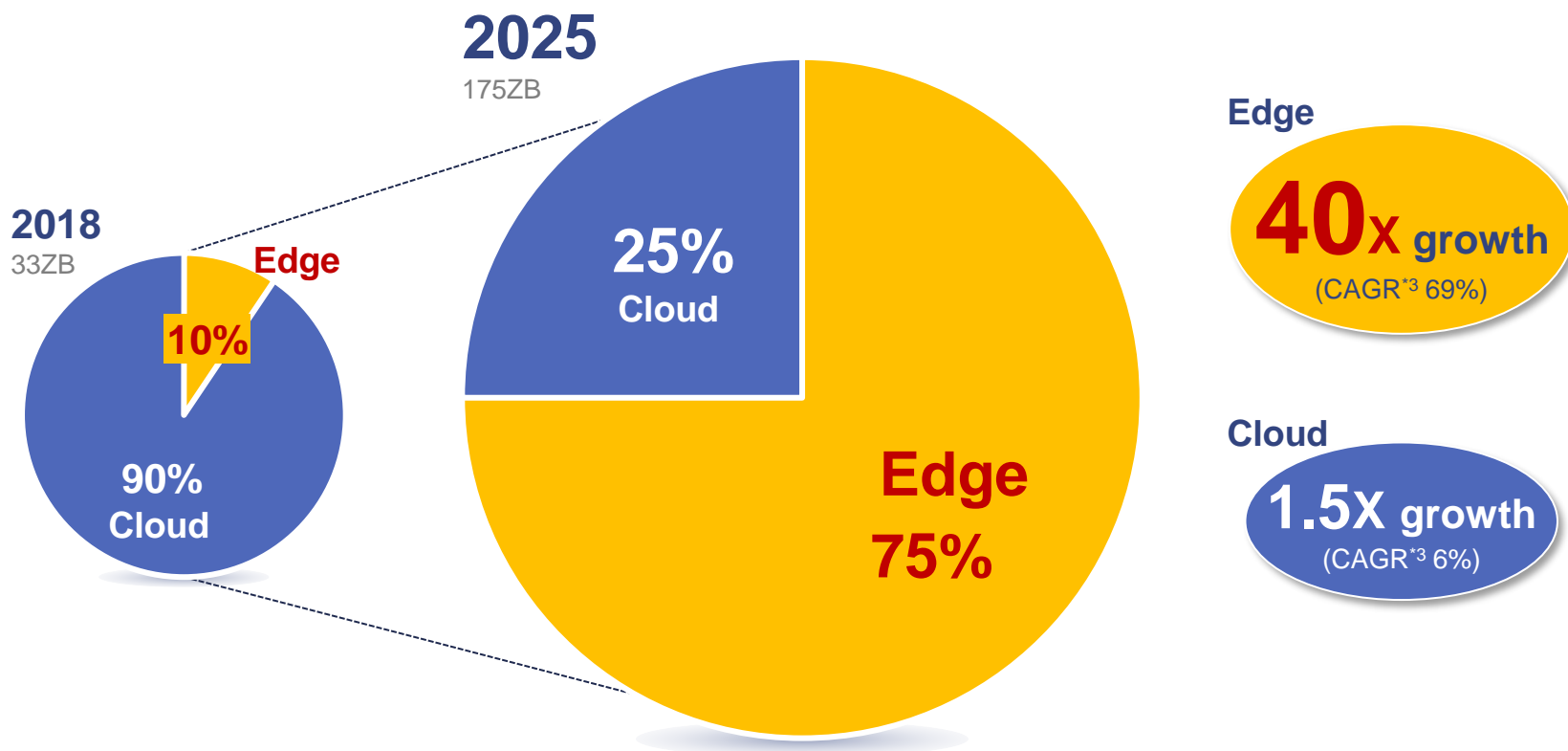
*1 Gartner regularly publishes the above emerging technology hype cycle schematic. Web URL: <https://www.gartner.co.jp/ja/newsroom/press-releases/pr-20200910>

A major macro transition from the Cloud to the Edge is in progress

Edge vs Cloud share forecast ^{*1*2}

Growth forecast

(2018→2025)



- As data volumes explode, processing data in the cloud becomes more and more inefficient
- In response, computer power is being rapidly pushed from the Cloud onto the Edge

*1 Source for Edge share: What Edge Computing Means for Infrastructure and Operations Leaders, Gartner (Oct 2018).

*2 Source for amount of data: Data Age 2025 Whitepaper, IDC (Nov 2018), accounts for all data created, captured, and replicated globally

*3 Compound annual growth rate`

Neural Pocket's unique strengths in the Edge AI space



Develop and possess ultra-lightweight AI that is 1/10th the size of general AI through the usage of proprietary AI logic

(A single edge device can be equipped with multiple AI programs)



Involved in defining requirements for domestic and international edge AI devices

(Utilize specialized equipment with optimal specs to run our edge AI)

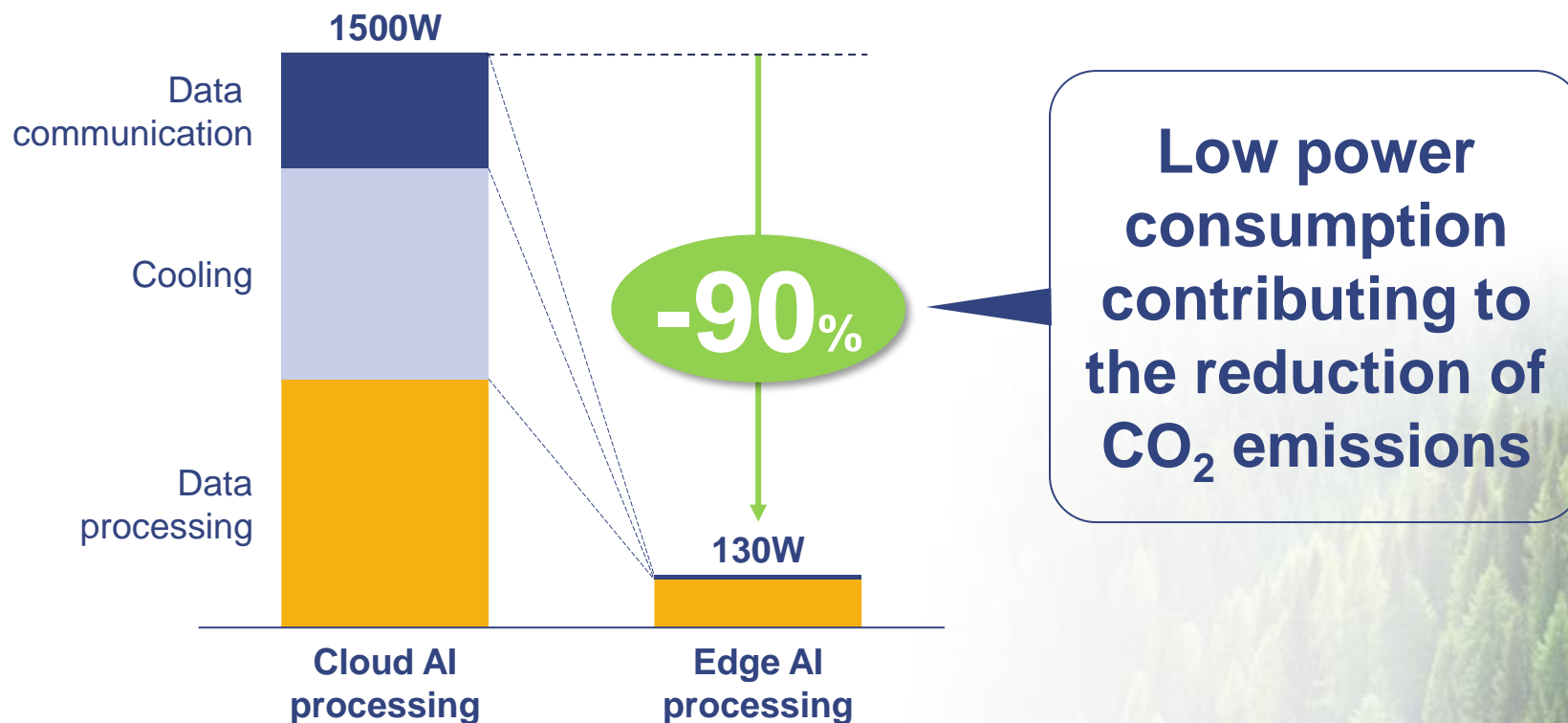


Possess abundant and diverse training data of people, cars, etc. enabling high AI quality

(Can provide proprietary packaged solutions vs conducting a demonstration experiment using customer data)

Edge AI technology also contributes to carbon neutrality and SDGs

Power consumption for AI processing per 100 cameras*1



Comparison of power consumption when AI processing (object detection) for 100 cameras is performed in a cloud vs edge system, respectively. Company research.

Cloud AI : Object detection at 4FPS on NVIDIA V100 (112 TFLOPS, 8 GPUs), parallel processing 679 cameras, which is the theoretical limit calculated assuming a 20% GPU utilization efficiency. Video data transfer rate per camera is assumed to be 450MB per hour.

Edge AI : Object detection at 4FPS with NVIDIA JetsonTX2, parallel processing 12 cameras, which is the theoretical limit calculated assuming a 20% GPU utilization efficiency. Metadata transfer per camera is assumed to be 3.6MB per hour.

Total power consumption is converted to a value per 100 cameras to compare the two methods.

We provide 5 unique packaged smart city-related AI services that capture large cross-industry general needs

People flow, crime prevention
 **DigiFlow**



Parking and Mobility*1
 **DigiPark**



Signage Advertisements
SIGN DIGI



WFH security
RemoDesk



Fashion Analysis
AIMD



*1 3D City Map related services such as "Smart-kun" are included within Parking and Mobility

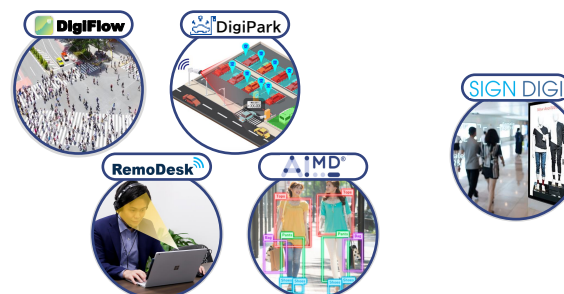
Our business model

Business model description



Our services

-



Value provided by AI companies

As a result, the durability and scale of sales



- Business Overview
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Business highlights for the FY2021 Q2

1. Released commercial packaged offerings as planned

- **RemoDesk** SaaS version launched to allow for the usage by smaller accounts, whilst new functions were developed
- **DigiPark** In addition to the monitoring of occupancy of flat parking lots, new functions such as indoor parking and license plate recognition were released
- **SIGNDIGI** Offering a unique standalone device that can be installed immediately from a single device

2. Progress towards unit-based sales with expansion of services across commercial customers and governments

- Further deepened relationships with major developers, logistics companies, SoftBank Corp., METI*¹, and MIC*².
- Scheduled to appear in SoftBank World 2021, and activities for further external communication are underway.

3. Improved hardware and software packaging and testing environment for commercial scaling

- **“Cataloged” products capturing cross-industry general-purpose needs:** Previously, services were typically installed individually depending on customer/ location requirements. Now, AI services are being catalogued, allowing for simplified installation and reduction in lead time and costs.
- **“Packaging” services with improved quality assurance:** Rigorous selection of cameras, edge boxes, and software libraries has optimized cost and performance of AI implementation and can now be offered as a packaged service. In addition, in order to conduct comprehensive quality control of such services, "AI Test Field," has been established to conduct quality verification with integrated hardware and software.

4. Although sales are expected to be concentrated in Q4, the business is progressing in line with the business plan for FY2021. Packaging of services is progressing.



RemoDesk SaaS version launched

RemoDesk

Protecting information security and employee privacy with a single tool

Neural Pocket

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Service Overview

RemoDesk is software that allows both companies and employees to **work remotely with confidence**

検知する 通知・蓄積する 保護できる

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Service Overview

Privacy Protection

Protects user privacy by NOT recording footage

Working 	AI diagnosis 	No error 	No data recording 	Text data only 着席中 問題なし
Working 	AI diagnosis 	Error detection 	Image stored 	Alert with image のぞきこみ

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System Selection

There are three types of offerings to adopt RemoDesk

On premise

お客様側のオンプレサーバーにリモデスクを構築・実装 (カスタマイズ対応)

SaaS Version

管理画面を含めたUI/システムをSaaS形式で提供; サブスクでご利用可

API Version

お客様側で使用されるシステムにAPI連携; AI検知機能のみをご提供

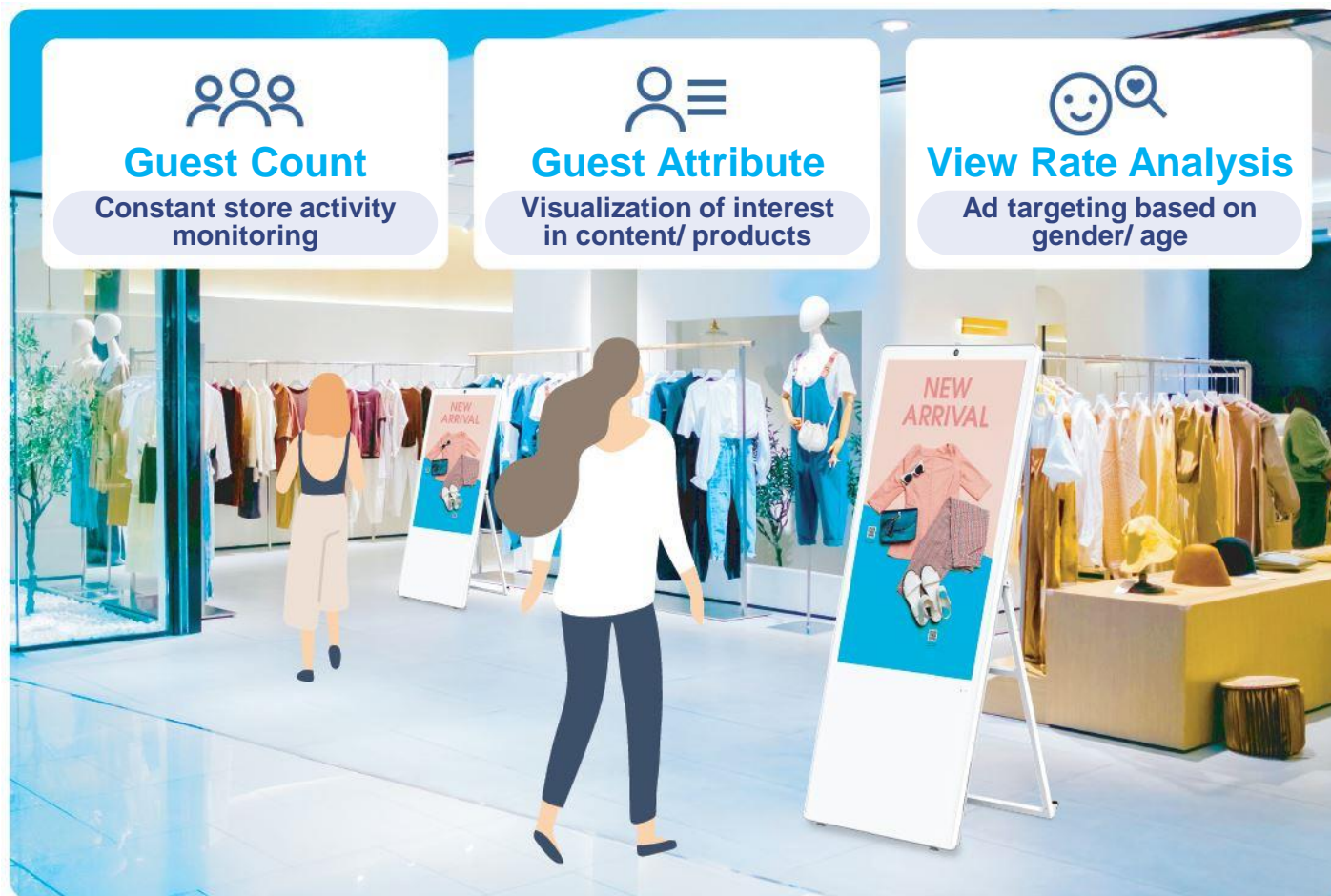
Can be installed according to the customer's usage environment

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SaaS version launched, enabling adoption from small # of user customers

Immediate visitor analysis enabled with simple installation

SIGN DIGI



Providing unique standalone digital signages that can be installed from a single device in stores and commercial buildings

DigiPark new feature releases



“DigiPark” to improve convenience and operational efficiency for parking lot management

Edge AI enabled
Parking Solution DigiPark

DigiPark

- 1 Easy installation, cost optimization
- 2 Workload reduction for operators
- 3 Improve convenience of parking lot management

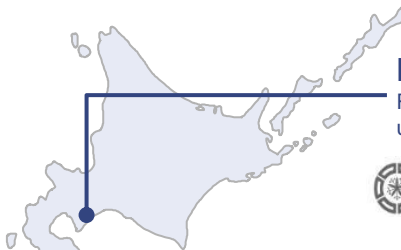


Domestic and overseas smart city-related engagements

Domestic



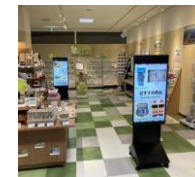
Tawara-motocho, Nara Pref.
Tourism promotion through visualization of usage of tourism facilities



Muroan City
Regional revitalization through AI-based urban planning and tourism



Ministry of Land, Infrastructure and Transport and Tourism



Osaka City Umekita 2nd Phase Development
Outdoor people flow, attributes, and behavior detection

Congestion visualization in government operated large venue halls

New

Joined All Nippon Michi-no-Eki Network as Specific Supporting Member



Michi-no-Eki

Ministry of Land, Infrastructure and Transport and Tourism



Optimization of facility operations at roadside station by identifying parking space availability and analyzing vehicle data

New SENDAI CITY

City revitalization by analyzing human flow in shopping arcade

Enabling smart city through city block/ mobility interlinking with edge AI

Local development and regional revitalization through ICT smart city initiative

Sugamo District
Industry-university collaboration for the advancement of education and digitalization in surrounding area



Automation and optimization of boarding surveys on public buses

Smart compact city through AI-based security and monitoring system

Urban redevelopment through transportation visualization

Smart building and smart city development in central Tokyo

Kamakura City
Preventing over-tourism and overcrowding by visualizing congestion and traffic



Kamakura



New
Ministry of Internal Affairs and Communications, JAPAN
MIC

Participation in MICs' Digital Overseas Development Platform



Collecting people flow data with Sendai City in city center



- Signed agreement with “Sendai City” and “Andex Corporation (local IT developer)”
- Visualization of people flow in shopping arcade to compile base data to address local challenges and inform future solutions
- Not limited to Sendai City, we will continue to collaborate with local governments and companies to promote regional revitalization and regional development with the help of AI technology



*1 Sendai City URL regarding above activities. <https://www.city.sendai.jp/system/shise/security/johoka/data01.html>

Service development domestic and overseas through deepening cooperation with various government agencies



Ministry of Internal Affairs and Communications, JAPAN

Japan Platform for Driving Digital Development: JPD3



Ministry of Land, Infrastructure, Transport and Tourism



Michi-no-Eki

- **The Ministry of Internal Affairs and Communications (MIC) established the “JPD3**1”** as a framework for public-private cooperation **promoting overseas projects**
- As an initial member of JPD3, we will **accelerate overseas development**, mainly in Southeast Asia, through **public-private partnerships in collaboration with the government**



- There are **1,154 roadside stations nationwide** (cumulatively +200 million annual visitors) under the jurisdiction of the Ministry of LITT
- We have been contributing to **regional revitalization by introducing the latest AI technology** to roadside stations
- With our **new participation as a specific supporting member**, we will continue to contribute to "regional revitalization" and "enhancement of disaster countermeasures"



*1 Japan Platform for Driving Digital Development: JPD3 webpage: <https://jpd3.jp/about/>

Expanding the scope of cooperation and accelerating collaboration through participation in SoftBank 5G Consortium*1

SoftBank 5G Consortium

"SoftBank 5G Consortium" established in June 2021 as an organization where 5G communication device, cloud/ edge computing/ IoT device providers and other partners will conduct open demonstration experiments on themes across industries.

The 5 areas of focus are manufacturing, transportation, construction, medical care, and smart cities.

Working group members	Suppliers
<ul style="list-style-type: none"> ○ Manufacturing <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 5px;"> </div> ○ Transportation <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 5px;"> </div> ○ Construction <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 5px;"> </div> ○ Medical <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 5px;"> </div> ○ Smart City <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 5px;"> </div> 	<div style="display: flex; flex-wrap: wrap; justify-content: space-around; padding: 10px;"> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center; border: 2px solid red;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> <div style="width: 15%; text-align: center;"></div> </div>

*1 For details regarding SoftBank 5G Consortium - <https://5gc.itc.softbank.jp/s/>

Schedule to appear in SoftBank World 2021 (Sep 15th)

SoftBank World 2021

DXの今を知る。明日のビジョンが見えてくる。



タイムテーブル / TimeTable

Day1 9.15 (水)

Power of DX テクノロジーで変える、今と未来

13:30 - 13:55

What is the future realized by AI-based video analysis?

Neural Pocket Inc.
CEO
Roi Shigematsu



SoftBank Corp.
Digital Automation Business
Management Dep. #1, Director
Takashi Yuge

Session Outline

The number of video analysis services that have been increasing in recent years, but what will become possible in the future as video analysis continues to evolve? In this presentation, we will invite Neural Pocket Corporation, an AI analysis service provider, to talk about video analysis using edge AI and what the future will bring by combining edge AI with solutions provided by Softbank.

Launched new location "AI Test Field" as an AI research facility



Kasumigaseki building

AI Test Field Concept

2 Prototyping

Verify developed prototype software

4 Quality assessment and safe operations

Quality evaluation and operation monitoring to ensure stable operations

1 Algorithm dev. & data learning

Algorithms developed from scratch. In-house annotation team for high quality training data and high AI accuracy

3 Product Development Testing

Experiment with AI software from multiple perspectives. Develop commercially viable AI models for usage across various environments



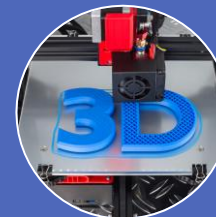
Environment to enable integrated AI dev.



AI learning data photo studio



AI experiment lab



3D printer for prop. hardware dev.



AI robot test course



Quality, durability testing facility

Name: Neural Pocket Inc. AI Test Field
Location: Kasumigaseki Building 17F, 3-2-5, Kasumigaseki, Chiyoda-ku, Tokyo, Japan

Progress in apparel business and efforts towards SDGs

Featured in Nikkei Cross Trend Our efforts reducing apparel disposals*1

技術・データ

ディープラーニング活用最前線 第43回 Forefront of deep learning applications #43

在庫激減でアパレルの救世主に！ SNS画像から流行を解析するAI Savior for apparel via drastic inventory reduction

2021年06月30日 読了時間：10分 (Jun 30, 2021)

👍 7

📌 📷 📄 🗨️ 📎 📧

岩元 直久 ITジャーナリスト、ライター

Neural Pocket has been providing AI-MD from 2018 and was awarded...

ニューラルポケットは、ファッショントレンド解析サービス「AI-MD」を2018年末から提供している。このAI-MDは、日経クロストrendと日経クロステックが主催した「第2回ディープラーニングビジネス活用アワード」でファッション部門賞を獲得した。アパレル企業による衣料品の在庫廃棄や常態化した値引き販売への課題など「SDGs（持続可能な開発目標）の実現を考えるうえで重要な取り組み」であることが評価されたためだ。

「今年はこの服がはやっているね」「この夏はこの色が流行しているようだ」ファッションには様々なトレンドがあり、流行に乗った服は売れ行きが佳

⋮

Study Group on Sustainability in the Textile Industry*2 held by METI*3

- Our COO presented as guest speaker at study meeting organized by METI*3
- Study group is promoting the use of digital technology to enhance production and sales efficiency in the apparel industry and to improve the way people work



Neural Pocket

資料 4

需要予測サービス「AI MD」のコンセプト

AI:MD®

アパレル業界でのデジタル化の促進に向けた取り組みのご紹介

2021年5月18日

ファッションサイトのデータからトレンドをAIで分析し、従来はMD担当者が経験則で行っていた把握・商品企画・マークダウン判断等の業務のデジタル化をサポート

Neural Pocket presentation material from the 5th Study Group on Sustainability in the Textile Industry (publicly disclosed)

Promoting the realization of the SDGs in the apparel industry with AIMD

*1 Article URL <https://xtrend.nikkei.com/atcl/contents/18/00049/00047/>

*2 Presentation material and other details can be viewed from the following webpage. https://www.meti.go.jp/shingikai/mono_info_service/textile_industry/005.html

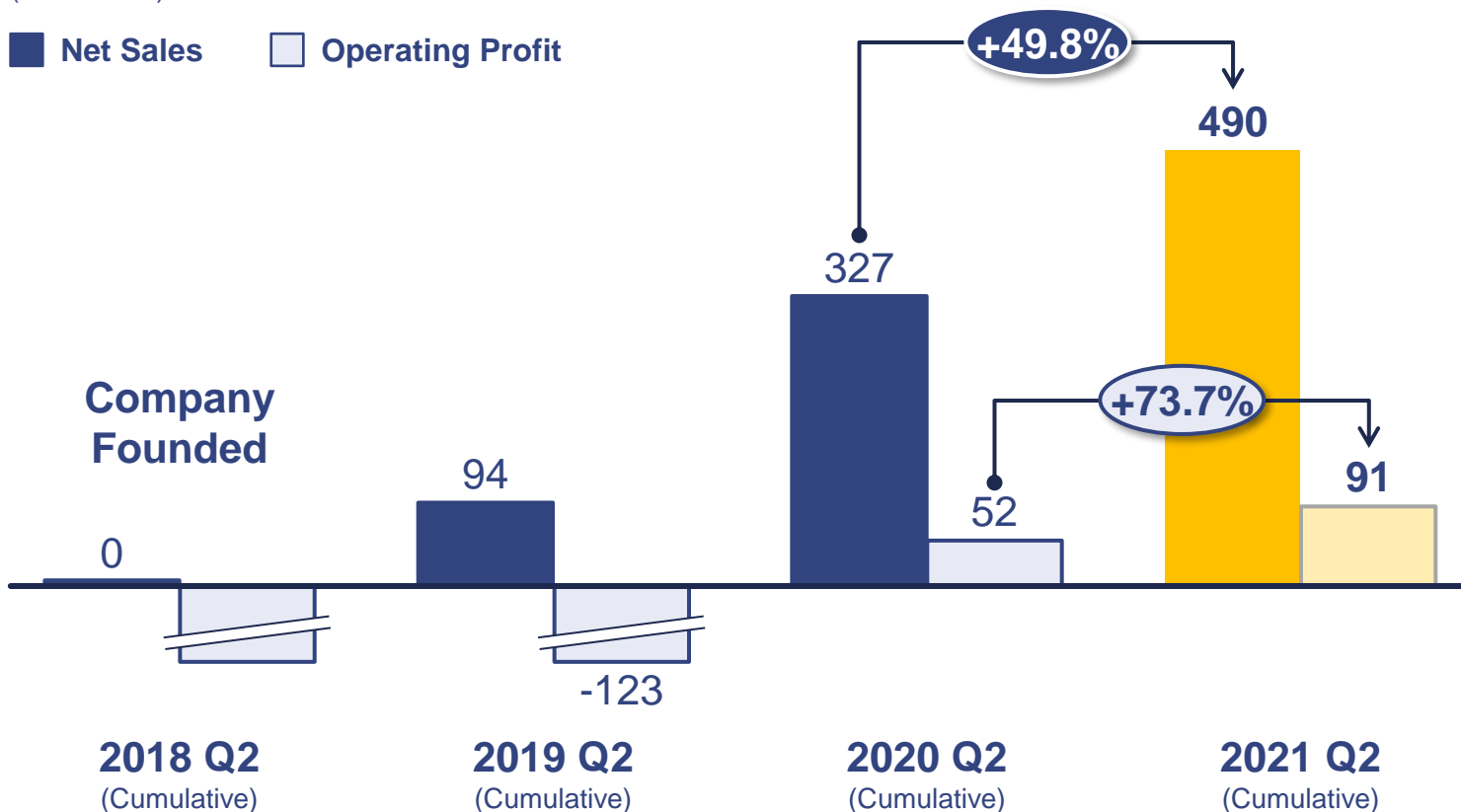
*3 Ministry of Economy, Trade and Industry

- Business Overview
- FY2021 Q2 Business Progress
- **Performance Highlights and Growth Strategy**

FY2021 Q2 ended performance trajectory

- Steady business growth in FY2021 Q2
- Business progress in line with the annual forecast
- Sales and operating profits are expected to be concentrated in fourth quarter

(million JPY)



FY2021 Q2 ended Jun. Statement of Income

(million JPY)	FY2020 Q2 ended Jun. <small>(cumulative)</small>	FY2021 Q2 ended Jun. <small>(cumulative)</small>	Increase amount	Increase percentage
Net Sales	327	490	+163	+49.8%
Operating profit <small>% of net sales</small>	52 <small>16.0%</small>	91 <small>18.6%</small>	+38	+73.7%
Ordinary profit <small>% of net sales</small>	45 <small>13.8%</small>	88 <small>18.1%</small>	+43	+97.2%
Net profit <small>% of net sales</small>	44 <small>13.7%</small>	87 <small>17.9%</small>	+42	+95.3%

FY2021 Q2 ended Jun. Balance Sheet

(million JPY)	FY2020 Q4 ended Dec.	FY2021 Q2 ended Jun.	Increase amount
Total current assets	1,673	1,803	+129
<i>Cash and cash deposits</i>	<i>1,424</i>	<i>1,482</i>	<i>+57</i>
Total non-current assets	247	367	+120
Total assets	1,920	2,171	+250
Total liabilities	714	799	+85
<i>Interest bearing debt</i>	<i>564</i>	<i>662</i>	<i>+98</i>
Total net assets	1,206	1,371	+164

FY2021 Q2 ended Jun. Cash Flows

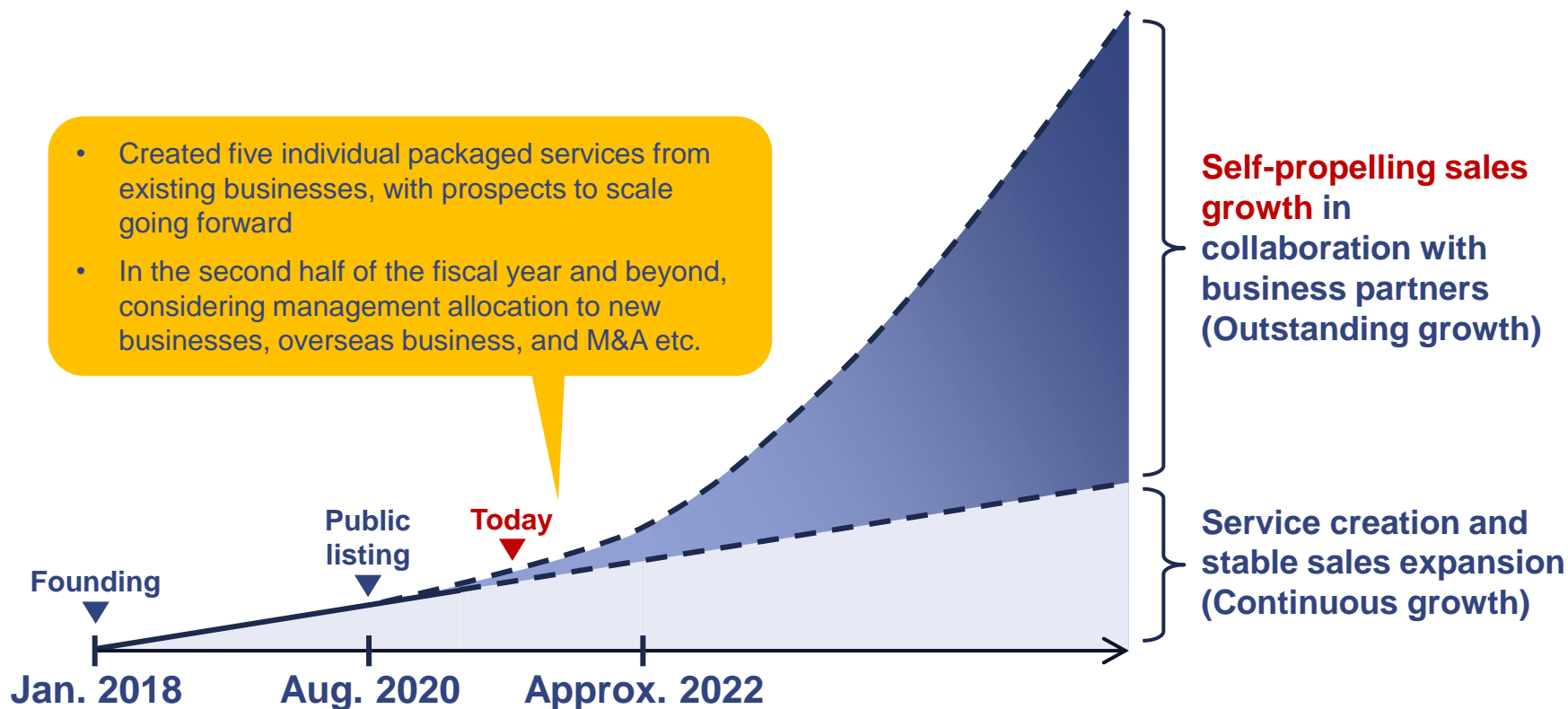
(million JPY)	FY2020 Q2 ended Jun. (cumulative)	FY2021 Q2 ended Jun. (cumulative)
Cash flows from operating activities	19	1
Cash flows from investing activities	-50	-118
Cash flows from financing activities	184	174
Increase of cash and cash equivalents	+153	+57
Cash and cash equivalents at the end of period	979	1,482

FY2021 full-year ending Dec. forecast

(million JPY)	FY2021 Q2 ended Jun. results <small>(cumulative)</small>	FY2021 Q4 ending Dec. forecast <small>(cumulative)</small>	Progress percentage
Net sales	490	1,256	39.0%
Operating profit <small>% of net sales</small>	91 <small>18.6%</small>	380 <small>30.3%</small>	23.9%
Ordinary profit <small>% of net sales</small>	88 <small>18.1%</small>	370 <small>29.5%</small>	24.0%
Net profit <small>% of net sales</small>	87 <small>17.9%</small>	280 <small>22.3%</small>	31.3%

No change to full-year forecast

Future growth strategy (Illustration of business growth)



- Created five individual packaged services from existing businesses, with prospects to scale going forward
- In the second half of the fiscal year and beyond, considering management allocation to new businesses, overseas business, and M&A etc.

Business Creation

- Build corporate platform
- Identify value proposition
- Develop services

Deepening of Business Model

- Commercialize services
- Extend business partnerships
- Define business segments and KPIs

Business Expansion with Scale

- Announce mid-long term management plan
- Disclose business segments and start monitoring KPIs

Management policy for FY2021

From fee-based to unit-based sales

In addition to expansion through individual contracts with companies/ governments, we aim to accelerate self-propelling sales from generalized services

【Theme 1】 Expansion of co-creation partners

Expand required elements such as sales, maintenance and support, and bidding rights for government through partnerships or mergers and acquisitions as needed.

【Theme 2】 Towards easy-to-use AI services

Pursue ease-of-use of services designed around customer needs.
Aim to achieve 10,000-unit service system, with high AI service quality and operational stability.

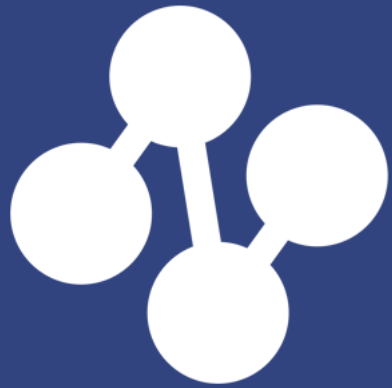
【Theme 3】 Commitment to AI technology dev.

Collect and accumulate the industry's leading level of data.
Continue to invest in the dev. of optimal AI logics using proprietary learning technologies, including CG.

Disclaimer

Handling of the material

This document contains forward-looking statements. These statements are based solely on the information available at the time the statements were made. Furthermore, such statements are not guarantees of future results and are subject to risks and uncertainties. Actual results may differ materially from those projected in the future due to changes in the environment and other factors. Factors that may affect the actual results described above include, but are not limited to, domestic and international economic conditions and trends in relevant industries. We are under no obligation to update or revise any of the future information contained in these materials in the event that new information comes to light or future events occur. The information contained in these materials relating to matters other than the Neural Pocket is quoted from public information and Neural Pocket has not verified and does not guarantee the accuracy or appropriateness of such information.



Neural Pocket