



# **Future** Monodzukuri **International EXPO 2023** **POST SHOW REPORT**

We are pleased to inform you that thanks to your supports, Future Monodzukuri International EXPO 2023 came to an end with great success. We would like to express our deep gratitude to all the exhibitors, related authorities, organizations and associations as this achievement would not be made if it were not for your warm support.

The contents and the brief report on Future Monodzukuri International EXPO 2023 are shown in the following pages for your reference.

Thank you very much again, and we sincerely appreciate your continued supports.

Future Monodzukuri International EXPO Executive Committee

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# Show Overview

**Name** : Future Monodzukuri International EXPO 2023 (FMIEXPO)

**Organizer** : Future Monodzukuri International EXPO Executive Committee

(MONODZUKURI.Nihon.Conference / Osaka Convention & Tourism Bureau / Osaka Cross-industry Council / Osaka City Industrial Management Association / SKC International Corporate Development Organization / Association for Rational Administration (Osaka) Incorporation / Japan Robot Association / Fine Bubble Industries Association / The Institute of Global Safety Promotion / 3S Activity Promotion Association / THE NIKKAN KOGYO SHIMBUN, LTD.)

**Co-Organizers** : MONODZUKURI.Nihon.Conference /

THE NIKKAN KOGYO SHIMBUN (TEAM EXPO 2025 Programme / Co-creation Partner)

**Supporting Organization** : Japan Association for the 2025 World Exposition

**Cooperating Organizations** : Ministry of Economy, Trade and Industry / Ministry of Foreign Affairs of Japan / Ministry of Education, Culture, Sports, Science and Technology / Ministry of the Environment Government of Japan / Ministry of Land, Infrastructure, Transport and Tourism / Ministry of Internal Affairs and Communications / Osaka Convention & Tourism Bureau / Advanced Science, Technology & Management Research Institute of KYOTO / Osaka Cross-industry Council / Osaka City Industrial Management Association / SKC International Corporate Development Organization / ASSOCIATION FOR RATIONAL ADMINISTRATION (Osaka) INC. / Japan Robot Association / Fine Bubble Industries Association / The Institute of Global Safety Promotion / 3S ActivityPromotion Association etc.

\*In no particular order \* Legal personality abbreviation

**Concurrent Exhibitions** : Well-being Tech International 2023

## ONSITE

**Date & Time** : May 10(Wed.) ~12(Fri.), 2023 10:00~17:00 \*12th (Fri.) until 16:00

**Venue** : INTEX OSAKA Hall 1, 2 (1-5-102, Nanko-Kita, Suminoe-Ku, Osaka, JAPAN)

**Admission** : JPY 1,000 (tax included) \*Free for Registrants, Invitation holders, Under 16 years old

**Scale of Exhibition** : 187 exhibitors / 368 booths \*The Special Events Zone Included

**Number of Visitors** :

Date	Weather	Number of visitors
May 10 (Wed.)	☀️	3,559
May 11 (Thu.)	☀️	4,421
May 12 (Fri.)	☀️	5,230
<b>Total</b>		<b>13,210</b>

\*Even if one person comes for multiple days counted as one person.

## ONLINE

**Date & Time** : Apr.26(Wed.) ~ May.19(Fri.), 2023 \*until 17:00 on the 19th (Fri.)

**Admission** : Free (Registration Required)

**Number of Exhibitors** : 31exhibitors

**Number of Visitors** : 24,223

### ■ Number of visitors during the online exhibition



### ■ Number of page views during the online exhibition (Total during the exhibition period :114,459PV)



# Exhibitor List①

Alphabetical Order ※Co-exhibitor  
☆Participating in Well-being Tech International

A	"a"Institute of Environment
	100nen Keiei no Kai
	3S Activity Promotion Association
	Aero G Lab
	Agency Assist
	AREUSE
	※AREUSE HORKOS Corp.
	ARRK
	ASAHI TEKKO
	ASIOT
	ASSOCIATION FOR RATIONAL ADMINISTRATION (OSAKA) INCORPORATION
	Association for the Promotion of Electric Vehicles
	Aubo (Beijing)Robotics Technology
	Automatic Industrial
	※Takashima Clinic
	※TOKIWA SEIKO
D	DAIFUKU ☆
	Daiwa House Industry ☆
	Disaster Risk Reduction Industry Conference of Japan
E	Eicoh
	Embassy of Switzerland in Japan
F	FANUC
	Fine Bubble Industries Association
	※HATANO SEISAKUSHO
	※HITOWA Life Partner
	※IDEC
	※ISO/TC 281 Booth
	※Maruyama Mfg.
	※MTG
	※NITTOSEIKO
	※OK ENGINEERING
	※Science
	※shibata
	※West Nippon Expressway Engineering Kansai
	※YBM
	First Automation
	Fujikin
Fundación Internacional ORP ☆	
G	GERMAN SOCIAL ACCIDENT INSURANCE ☆
	GLOBAL PARTS
	G-NET
H	Harmonic Drive Systems
	HCI
	HILLTOP
	HIRAOKA HYPER TOOLS
	※nextscience
	HOKUYO AUTOMATIC
	HUMAN HOUSE ☆
	I
IES	
IGSAP Construction Committee ☆	
※ENZAN KOUBOU ☆	
※Hitachi Construction Machinery ☆	
※KAJIMA ☆	
※NISHIO T&M ☆	
※OBAYASH ☆	
※SHIMIZU ☆	
INFICON	

J	Institute of Agricultural Machinery, NARO ☆
	Institution of Occupational Safety and Health ☆
	Intermedia Laboratory
	※KEISUUGIKEN
	International Labour Organization ☆
	International Association of Labour Inspection ☆
	INTERNATIONAL SOCIAL SECURITY ASSOCIATION ☆
	Japan 3D PRINTER
	Japan Association for the 2025 World Exposition
	JAPAN CERTIFICATION
	Japan Industrial Safety and Health Association ☆
	Japan Medical Beauty Therapist Association
	Japan Ready-made Meal Association
	Japan Robot System Integrator Association
	Japanese Society of Additive Manufacturing
	※IFUKU SEIMITSU
※APPLIED TECHNOLOGY	
※J・3D	
※JBM Engineering	
※MORIMURA BROS	
※ODEC	
※Osaka Yakin Kogyo	
※TACHIBANA ELETECH	
Japanese Standards Association ☆	
JGC ☆	
JGC JAPAN	
※Brownreverse	
K	KAWAMURA GISHI
	Kochi industrial promotion center
	※GIKEN
	※InfraManagement
	※Mirocrea
	※MIROKU Machine Tool
	※MIROKU TECHNO WOOD
	※NIPPON KODOSHI
	※TOMINAGA
	※UJIDEN CHEMICAL INDUSTRY /KOCHI UNIVERSITY OF TECHNOLOGY
	Kyoung Do Industry
L	LAUREL BANK MACHINE ☆
	Lock
M	MaibornWolff ☆
	MAIKON NO KOHARA
	MARUICHI CUTTING TOOLS
	MARUYASU
	MD PRESS KOGYO
	Micro Manufacturing Association
	※Azumi Techno
	※CASTEM
	※Iwata Tool
	※MATSUDA
	※Mitsuikokuin
	※Roku-Roku Sangyo
	※Saito Seisakusho
	Ministry of Economy, Trade and Industry
	MITEC
	Mitsubishi Electric
MITSUBISHI ELECTRIC ENGINEERING ☆	

# Exhibitor List ②

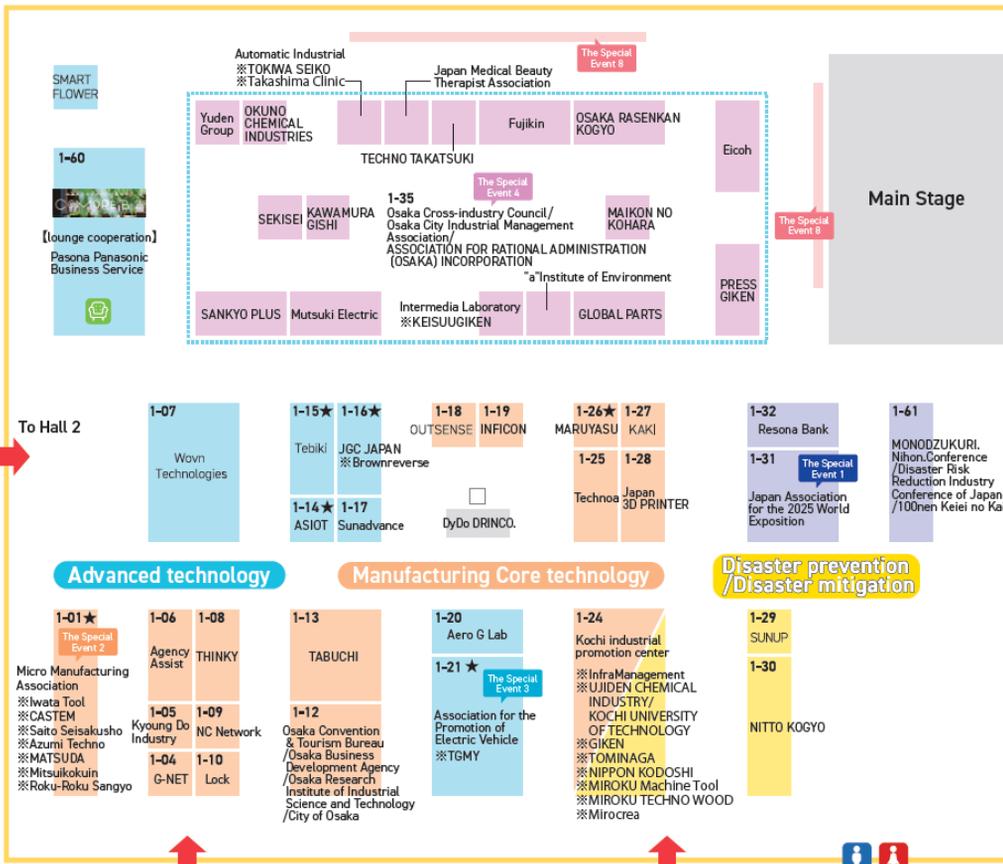
Alphabetical Order ※Co-exhibitor  
☆Participating in Well-being Tech International

Miyako Printing Ink
Mobile Industrial Robots
MONODZUKURI.Nihon.Conference
Moxa Japan
MUSCLE ☆
Mutsuki Electric
<b>N</b>
NABELL CORPORATION
National Institute of Advanced Industrial Science and Technology ☆
NC Network
Nikon Corporation
NITTO KOGYO
NTN Technical Service
<b>O</b>
Occupational Safety and Health Council ☆
OKUNO CHEMICAL INDUSTRIES
Osaka City Industrial Management Association
<small>Osaka Convention &amp; Tourism Bureau/Osaka Business Development Agency/Osaka Research Institute of Industrial Science and Technology/City of Osaka</small>
Osaka Cross-industry Council
OSAKA RASENKAN KOGYO
OSG
OUTSENSE
<b>P</b>
Panasonic Production Engineering ☆
Pasona Panasonic Business Service
PRESS GIKEN
<b>R</b>
Railsolutions ☆
Resona Bank
Robot Friendly Asset Promotion Association
RT.WORKS
<b>S</b>
S.K.H
SANKYO PLUS
SCHUNK Intec Japan
SEKISEI
SGK
SHIMIZU
SHIMIZU ☆
SKC International Corporate Development Organization
SME Support
SOMEITEC
SquareDog Robotics ☆
SSO Malaysia ☆
Sunadvance
SUNUP
<b>T</b>
TABUCHI
Tebiki
TECHNO TAKATSUKI
Technoa
The 10th Robot Award
THINKY
THK
TOYOTA MOTOR ☆
<b>U</b>
Universal Robots
<b>V</b>
VANTECH
<b>W</b>
Waas Co-creation Consortium
Wovn Technologies
<b>Y</b>
Yamada Manufacturing
YUASA NEOTEC
Yuden Group

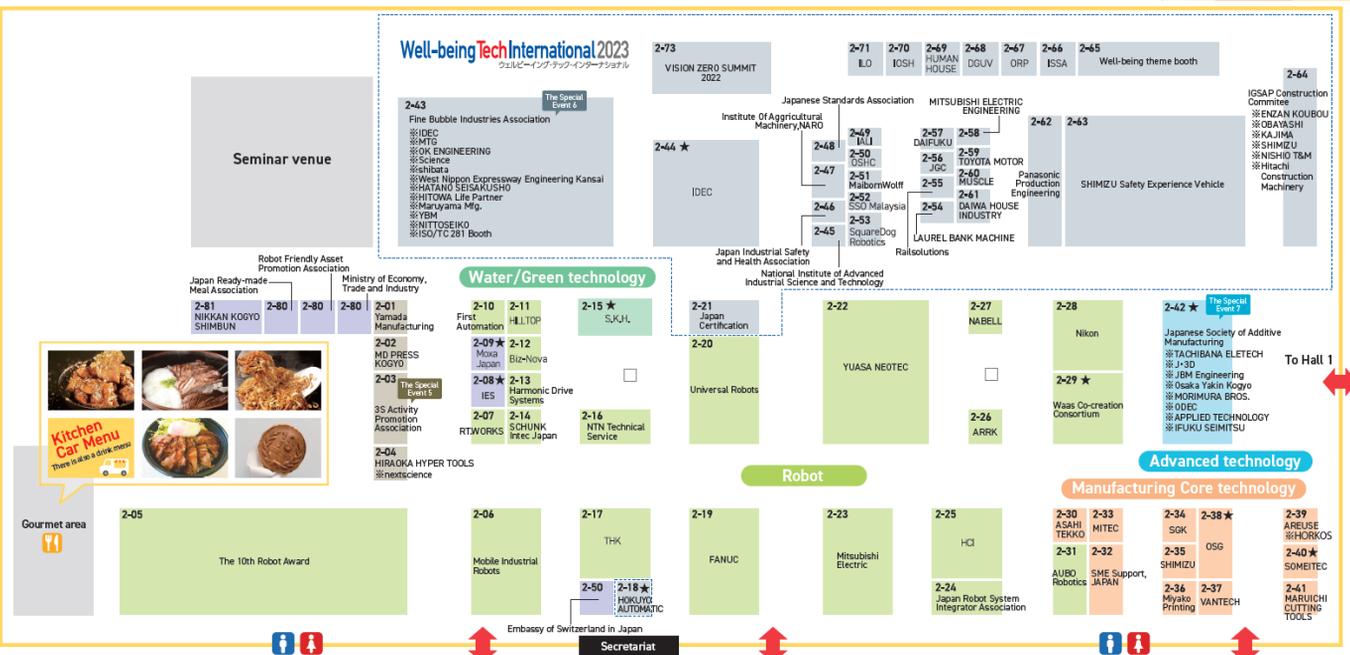
ONLINE Exhibitors	
<b>A</b>	ASIOT
	Association for the Promotion of Electric Vehicles
<b>H</b>	HOKUYO AUTOMATIC ☆
<b>I</b>	IDEC ☆
	International Research Institute
<b>J</b>	Japanese Society of Additive Manufacturing
	※APPLIED TECHNOLOGY
	※IFUKU SEIMITSU
	※J・3D
	※JBM Engineering
	※MORIMURA BROS.
	※ODEC
	※Osaka Yakin Kogyo
	※TACHIBANA ELETECH
	JGC JAPAN
	Jinzaikaihatsu Management
<b>M</b>	MARUYASU
	Micro Manufacturing Association
	※Azumi Techno
	※CASTEM
	※Iwata Tool
	※MATSUDA
	※Mitsuikokuin
	※Roku-Roku Sangyo
	※Saito Seisakusho
	Moxa Japan
<b>O</b>	OSG
<b>S</b>	S.K.H.
	SOMEITEC
<b>T</b>	Tebiki
<b>W</b>	WaaS Co-creation Consortium

# Hall Map

## Hall 1



## Hall 2



# Opening Ceremony / Ribbon Cutting Ceremony

**Date & Time :** May 10 (Wed.), 2023 9:30~10:00

**Venue :** INTEX Plaza, INTEX OSAKA

## **Program of the Ceremony :**

### **1. Opening Remarks by the Representative of the Organizers**

Haruhiro Imizu, President, THE NIKKAN KOGYO SHIMBUN, LTD. / Chairman, Monodzukuri Nihon Conference

### **2. Congratulatory Speeches by Distinguished Guests**

Mr. Yoshimasa Sakai,

Section Director General (Small and medium-sized companies and Regional Cooperation),  
Japan Association for the 2025 World Exposition

Mr. Atsushi Yasuda, Director, Robotic Policy Office, Director, Industrial Machinery Division,  
Manufacturing Industries Bureau, Ministry of Economy, Trade and Industry

Mr. Masatoshi Baba, Director, Small and Medium Enterprise Support Office,  
Department of Commerce, Industry and Labor, Osaka Prefectural Government

Mr. Hans-Horst Konkolewsky, President, International Foundation for Occupational Risk Prevention

### **3. Ribbon-Cutting Ceremony**

Mr. Yoshimasa Sakai,

Section Director General (Small and medium-sized companies and Regional Cooperation),  
Japan Association for the 2025 World Exposition

Mr. Atsushi Yasuda, Director, Robotic Policy Office, Director, Industrial Machinery Division,  
Manufacturing Industries Bureau, Ministry of Economy, Trade and Industry

Mr. Masatoshi Baba, Director, Small and Medium Enterprise Support Office,  
Department of Commerce, Industry and Labor, Osaka Prefectural Government

Mr. Hideki Kawabuchi,

General manager, Industrial Promotion Division, Economic Strategy Bureau, Osaka City

Mr. Hans-Horst Konkolewsky, President, International Foundation for Occupational Risk Prevention

Dr. Ivan Ivanov, Head of Occupational and Workplace Health, WORLD HEALTH ORGANIZATION

Mr. Shinichi Takasaki, Director, ILO Office for Japan, International Labour Organization

Mr. Hiroshi Mizohata, President, Osaka Convention & Tourism Bureau

Mr. Shinsaku Okada, Chairman, Osaka Cross-industry Council /  
Chairman, Osaka City Industrial Management Association

Mr. Hiroshi Ogawa, Special Adviser, Osaka Cross-industry Council

Mr. Tatsuto Hiraoka, Chairman, SKC International Corporate Development Organization

Mr. Kei Kawamura, Chairman, Association for Rational Administration (Osaka) Incorporation

Mr. Kenji Yamaguchi, Chairman, Japan Robot Association

Dr. Hiroshi Kasai, Executive Director, Fine Bubble Industries Association

Mr. Toshihiro Fujita, Director, The Institute of Global Safety Promotion

Mr. Shigeru Yamada, Chairman, 3S Activity Promotion Association

Haruhiro Imizu, President, THE NIKKAN KOGYO SHIMBUN, LTD. / Chairman, Monodzukuri Nihon Conference

“MYAKU-MYAKU”, Official character of the 2025 World Exposition



## Main Stage (Hall 1)

Archived Distribution is conducted.

**Date & Time** : May 11 (Thu.), 2023 10:10~16:40

**Title** : Well-being Tech Forum

**Organized by** : Well-being Tech International Planning and Promotion Committee



### 【Morning Program (10:10~12:25)】

『What is Vision Zero, the global trend to promote safety, health and well-being, and the well-being technologies that support it?』

Toshihiro Fujita, Director, IGSAP



Toshihiro Fujita

### < 1st Session >

『Well-being in the Work Environment

- Challenges and Strategic Solutions - Reports and

Discussion on Vision Zero Practices from Leading Global Institutions』

### ■Roundtable(A)

- Ivan Ivanov, Head of Occupational and Workplace Health, WORLD HEALTH ORGANIZATION (WHO)
- Mohammed Azman bin Aziz Mohammed, President, INTERNATIONAL SOCIAL SECURITY ASSOCIATION (ISSA) / CEO and Director General, Social Security Organization of Malaysia
- Stuart Hughes, President-elect, INSTITUTION OF OCCUPATIONAL SAFETY AND HEALTH (IOSH)
- Hans-Horst Konkolewsky, President, INTERNATIONAL ORP FOUNDATION (FIORP)



Ivan Ivanov



Mohammed Azman bin Aziz Mohammed



Stuart Hughes



Hans-Horst Konkolewsky

### ■Roundtable(B)

- Yuka Ujita, Senior Specialist, Occupational Safety and Health, DWT/CO-Bangkok, ILO
- Siong Hin Ho, President, International Association of Labour Inspection (IALI)/ Senior Director (International WSH) at Ministry of Manpower, Singapore
- Sven Timm, Director of Central Prevention Division, GERMAN SOCIAL ACCIDENT INSURANCE (DGUV)
- Bonnie Yau, Executive Director, OCCUPATIONAL SAFETY AND HEALTH COUNCIL (OSHC)



Yuka Ujita



Siong Hin Ho



Sven Timm



Bonnie Yau

# [ONSITE] Forum

## 【Afternoon Program (13:00~16:40)】

『The Mukaidono Safety Award Ceremony』

### Special Keynote

『Applying the principles of Vision Zero :  
Creating a healthy and safe high performance environment.』

Stuart Hughes,  
Head of Health & Safety at Mercedes-AMG Petronas Formula One Team



Award  
Ceremony



Stuart Hughes

## <2nd Session>

『Technological and Organizational Solutions to Improve well-being in the Work Environment

- Reports and Discussions from Companies and Organizations in Japan and overseas.』

### ■Roundtable(C)

- Masao Mukaidono, Chairman, IGSAP
- Hideo Kamaishi, Director, Labour Standards Bureau, Industrial Safety and Health Dept., Safety Div., Ministry of Health, labour and Welfare (MHLW) of Japan
- Tatsuo Takeshige, Director, International Electrotechnology Standardization Div., Ministry of Economy, Trade and Industry (METI) of Japan
- Andresa Hernandes, Vice President Occupational Safety, Siemens AG
- Hiroki Fujimoto, Senior Executive Officer/ General Manager of Next Business Planning Dept., Sumitomo Life Insurance Company



Masao Mukaidono



Hideo Kamaishi



Tatsuo Takeshige



Andresa Hernandes



Hiroki Fujimoto

### ■Roundtable(D)

- Takashi Kawata, Advisor, Shimizu Corporation (Director, IGSAP)
- Winson Yeung, Principal Consultant, OCCUPATIONAL SAFETY AND HEALTH COUNCIL (OSHC)
- Tamio Tanikawa, deputy Director, Research Center Team Leader, AIST
- Magdalena Wachnicka-Witzke, Secretary General, ISSA Agriculture Section Director of the Communication and International Cooperation Bureau, Kasa Rolniczego Ubezpieczenia Społecznego/Agricultural Social Insurance Fund
- Jillian Hamilton, Managing Director, Manage Damage



Takashi Kawata



Winson Yeung



Tamio Tanikawa



Magdalena  
Wachnicka-Witzke



Jillian Hamilton

# [ONSITE] The Special Events

## 1 Expo 2025 Osaka Kansai PR Booth

Hall1:1-31

Two years remain until Expo 2025 Osaka Kansai. With the theme, "Designing Future Society for our Lives" the expo will focus on actions to achieve SDGs, and creation of a sustainable society through demonstration and implementation of cutting-edge technology.



Cooperation: Japan Association for the 2025 World Exposition

## 2 Exhibition of Winning Entries from the Expert Bisai Creators Contest

Hall1:1-01

The Expert Bisai Creators Contest (organized by the Micro Manufacturing Association) aims to promote the surprising world of extremely small things that are also art. The winning entries will be displayed here. Come and see these works of art that surprise the world with their playful spirit, made with immeasurable artistic sense, using micro manufacturing technology.



Cooperation: Micro Manufacturing Association

## 3 Transformed into EV: Classic Car Special Exhibition

Hall1:1-21

A British-made Jaguar MkII 340 built in 1967 was converted to an electric vehicle and registered in May2022. What had been a 3400cc engine 3-number ordinary passenger car was registered as a 5-number small passenger car, as determined by the size of the vehicle.



Our goal is to contribute to measures to stop global warming through using natural energy to charge vehicles as much as possible.

Cooperation: Association for the Promotion of Electric Vehicles

## 4 Different Industries Working Together in Preparation for Expo!

Hall1:1-35

The different industries of the host city of Osaka are working together in preparation for Expo 2025 Osaka Kansai. Their unifying theme is the "reboot" of the merchant's capital, Osaka. The exhibit will consist of a collection of new proposals from various companies presenting their visions of the near future.



Cooperation: ORK

## 5 3S Activity Promotion Association "From the Osaka 3S Summit to the World"

Hall2:2-03

What started in 2010 with the Osaka 3S Summit will be held for the 13th time this year on Saturday, November 25. The exhibition will look back on our history, and provide information about summits scheduled for this year and 3S open factory days of member companies around Japan.



Cooperation: 3S Activity Promotion Association

## 6 Fine Bubble Technology - Product Showcase Booth

Hall2:2-43

Companies achieving commercialization with fine bubble technology promoted by the FBIA will be showcasing fine bubble products and services such as generators, shower heads, nozzles, and more. In addition, members from overseas will hold a demonstration and exhibition about ISO/TC 281 (fine bubble technology) certification.



Cooperation: Fine Bubble Industries Association

## 7 How AM (Additive Manufacturing) will Change the Future of Manufacturing

Hall2:2-42

AM has continued to be in the spotlight for the past ten years, and while it is not easy to achieve a big change in manufacturing, this moment is steadily approaching. The association members' activities in working to achieve big change in manufacturing with AM will be showcased here.



Cooperation: Japan Society of Additive Manufacturing

## 8 ~Nature drawn by Yuuji Mitani, painter of the sun~

Hall1

We will exhibit spring cherry blossom scenes from a 270-meter-long gigantic painting of nature that Mr. Mitani put his soul into and completed over a long period of time.



Cooperation: Atelier MITANI

# Media Exposures / PR & Advertising

## ■ Invitation flyer (Japanese / English)

The collage displays various promotional materials for the Future Monozukuri International EXPO 2023. Key elements include:

- Main Invitation (Japanese/English):** Features the event title, dates (5.10-12 and 4.26-5.19), and the location (Intex Osaka, Japan).
- Program Schedule:** A detailed list of sessions, including keynote speeches, panel discussions, and workshops, with dates and times.
- Venue Map:** A map showing the location of Intex Osaka and the expo site, along with nearby transportation options.
- Speakers and Sponsors:** A list of participating organizations and individuals, such as the Japanese Association for the 2025 World Exposition and various industry leaders.

## ■ Poster (Japanese / English)

The poster displays the event's branding and key information in both Japanese and English:

- Japanese Version:** 未来モノづくり国際EXPO 2023. Dates: 5.10-12 (10:00-17:00) and 4.26-5.19 (10:00-17:00).
- English Version:** Future Monozukuri International EXPO 2023. Dates: 5.10-12 (10:00-17:00) and 4.26-5.19 (10:00-17:00).

## ■ Original Package “Umaibo”



## ▼ Digital Signage



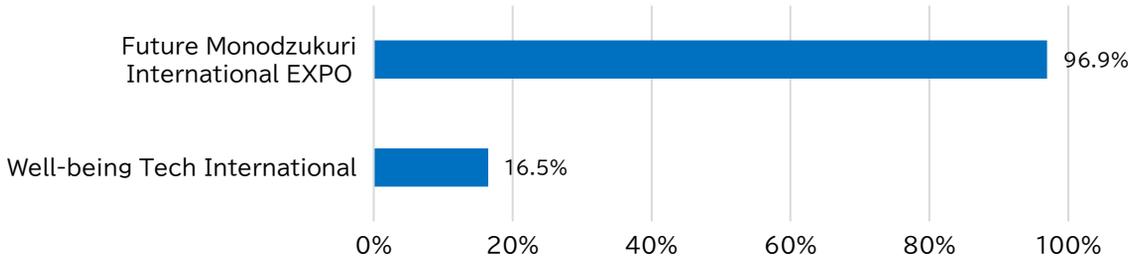
## PR Activities

Poster		August, 2022~
THE NIKKAN KOGYO SHIMBUN	Newspaper Advertisement	April 24, 2023
	Articles	June 6, 2022~
Electronic Device Industry News		April 24, 2023~
News Release		July 7, 2022~
DM		April 27, 2023~
Website		Early April, 2023~
E-mail Distribution		June, 2022~
Google Advertising		March, 2023~
Digital Signage in Osaka Underground Mall		April 24 ~ May 11, 2023
		May 8 ~ 12, 2023

## Google Advertising

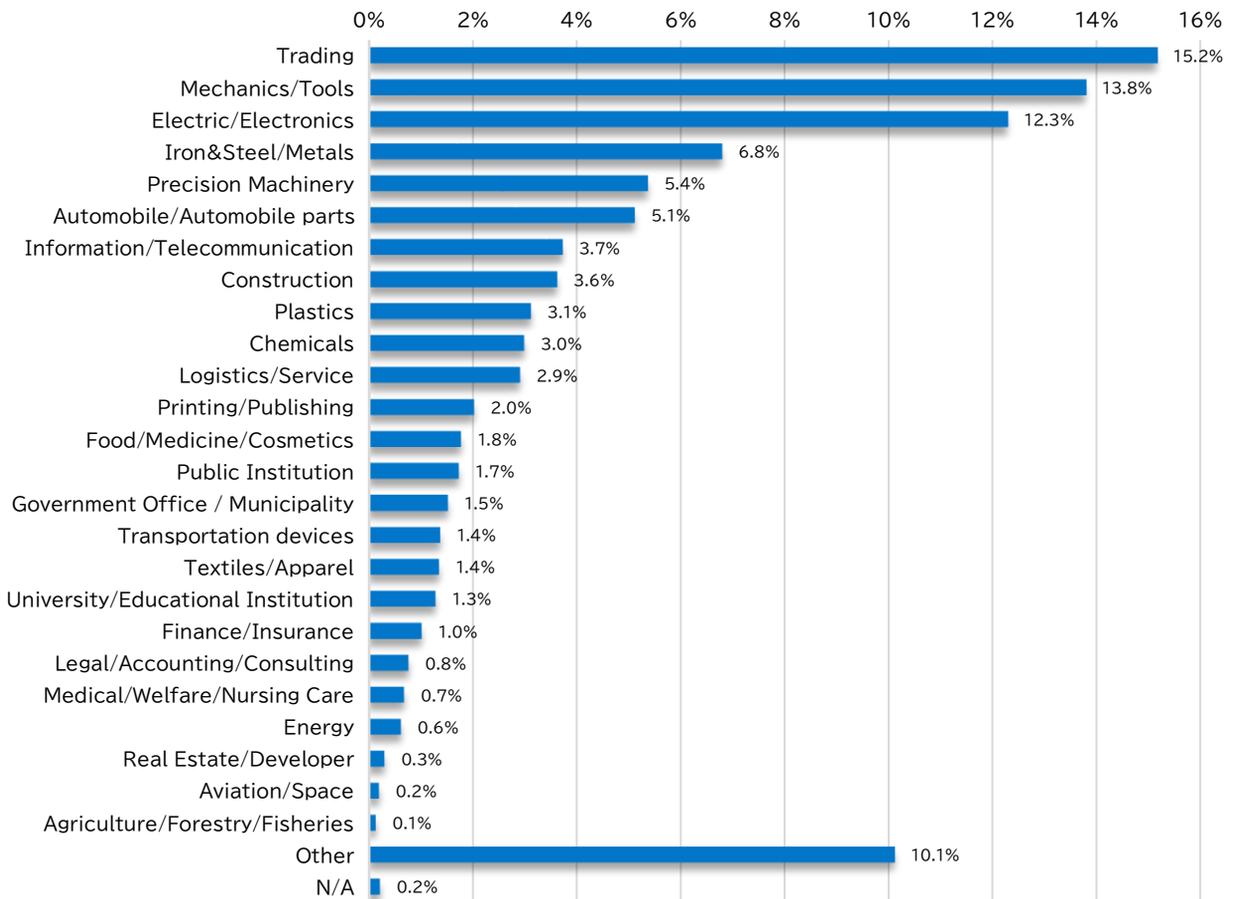
# [ONSITE] Visitor Statistics①

## ①Which exhibition are you interested in? ※multiple answers allowed



\* The sum of percentages does not be 100% because multiple answers are allowed.

## ②Which industry are you involved in?

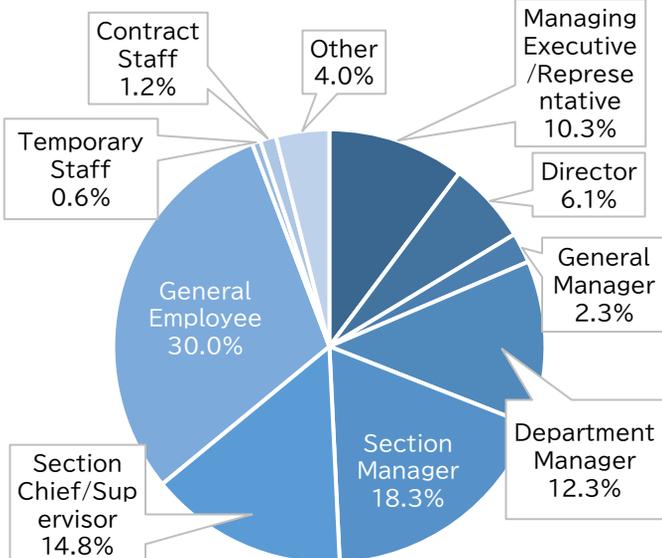


# [ONSITE] Visitor Statistics②

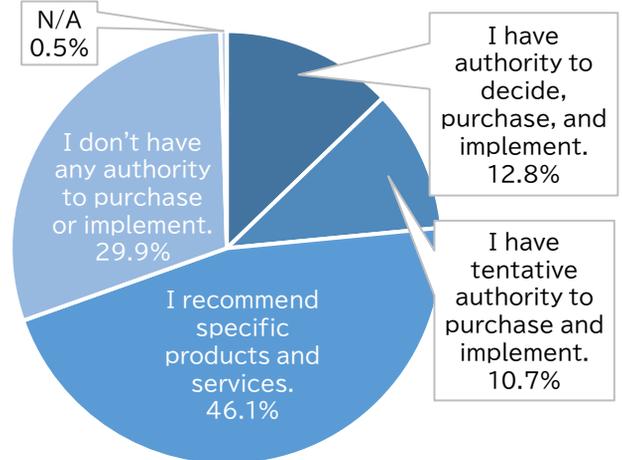
## ③What is your occupation?



## ④ What is your job title?

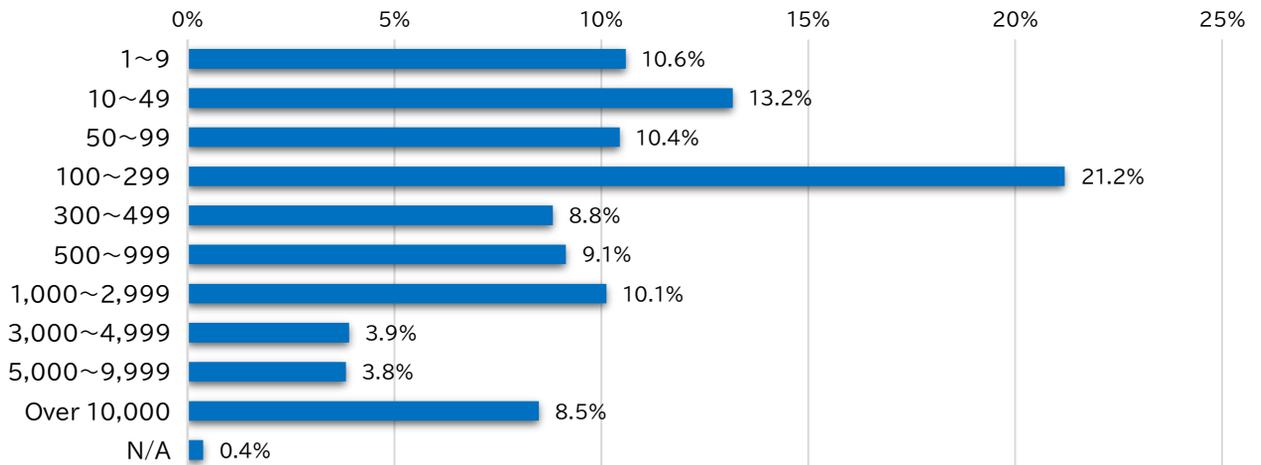


## ⑤ How involved are you in purchasing and implementing products/services?



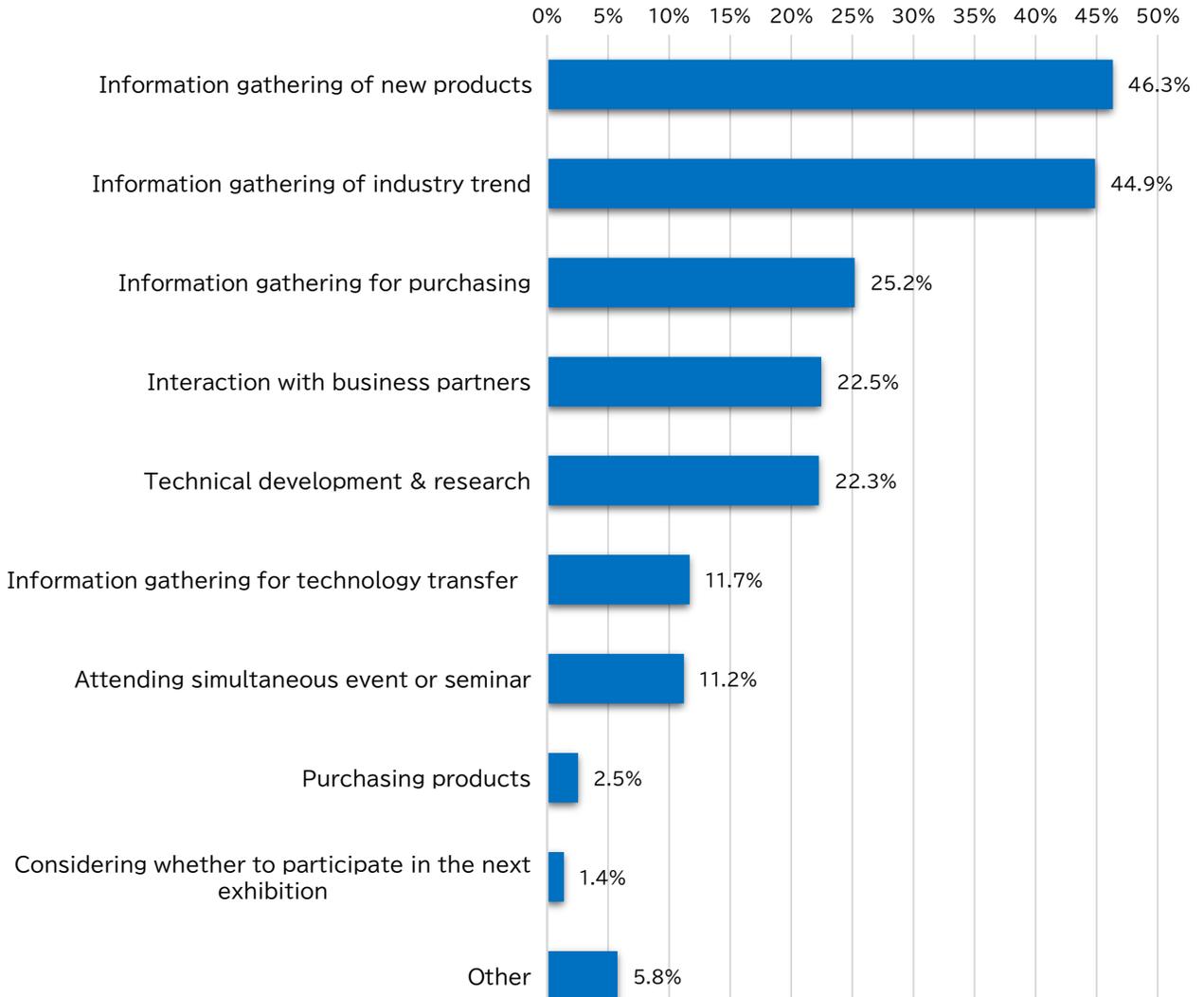
# 【ONSITE】 Visitor Statistics ③

## ⑥ How many employees does your company/organization have?



## ⑦ What is the purpose of your visit to this exhibition?

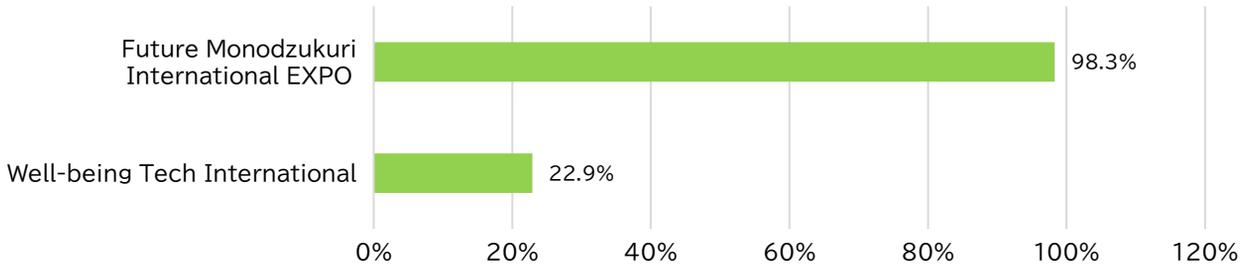
※multiple answers allowed



\* The sum of percentages does not be 100% because multiple answers are allowed.

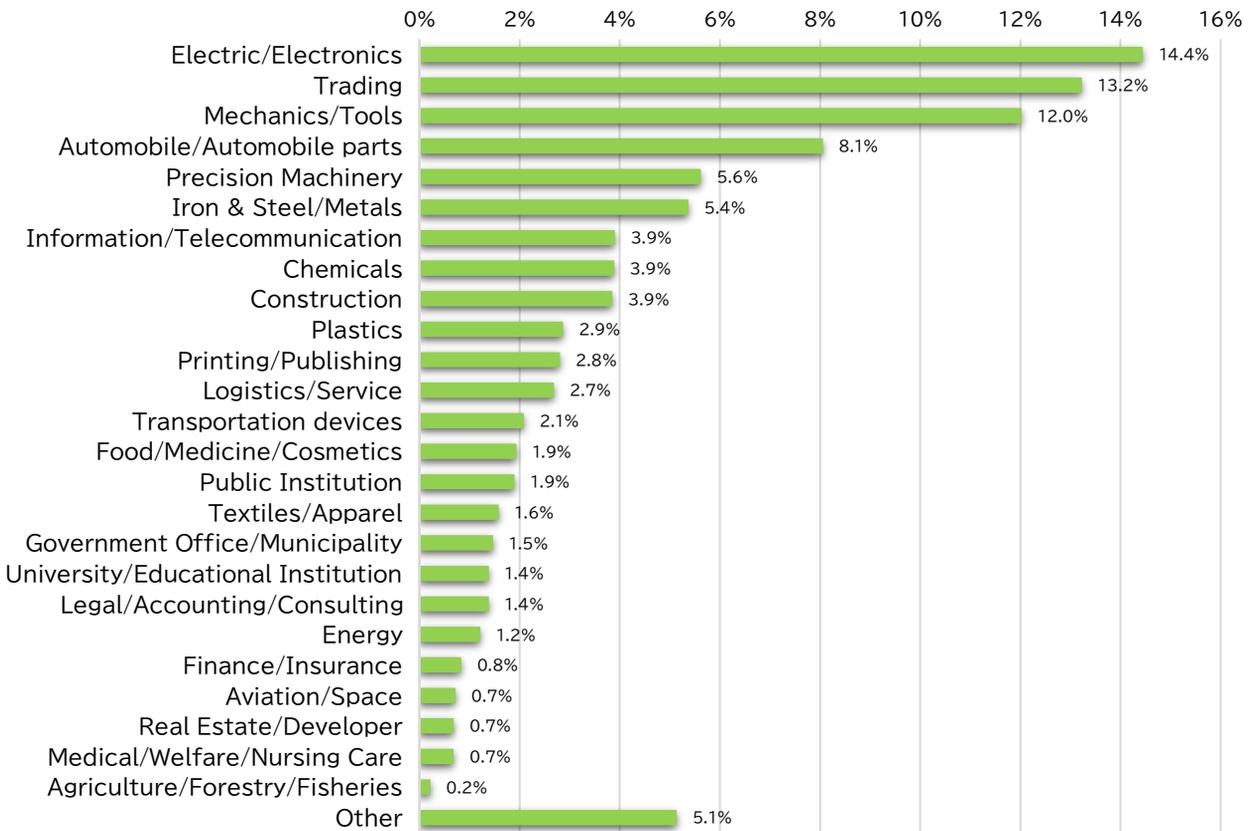
# [ONLINE] Visitor Statistics①

## ① Which exhibition are you interested in? ※multiple answers allowed



\* The sum of percentages does not be 100% because multiple answers are allowed.

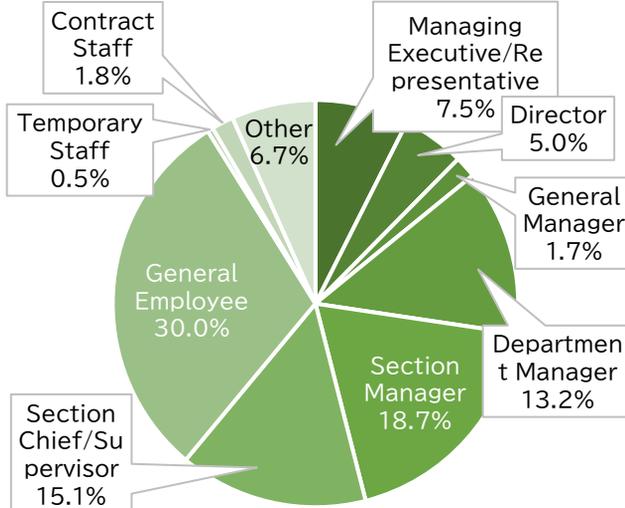
## ② Which industry are you involved in?



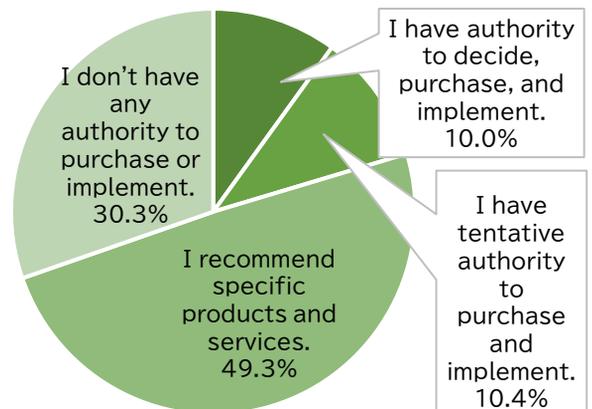
## ③What is your occupation?



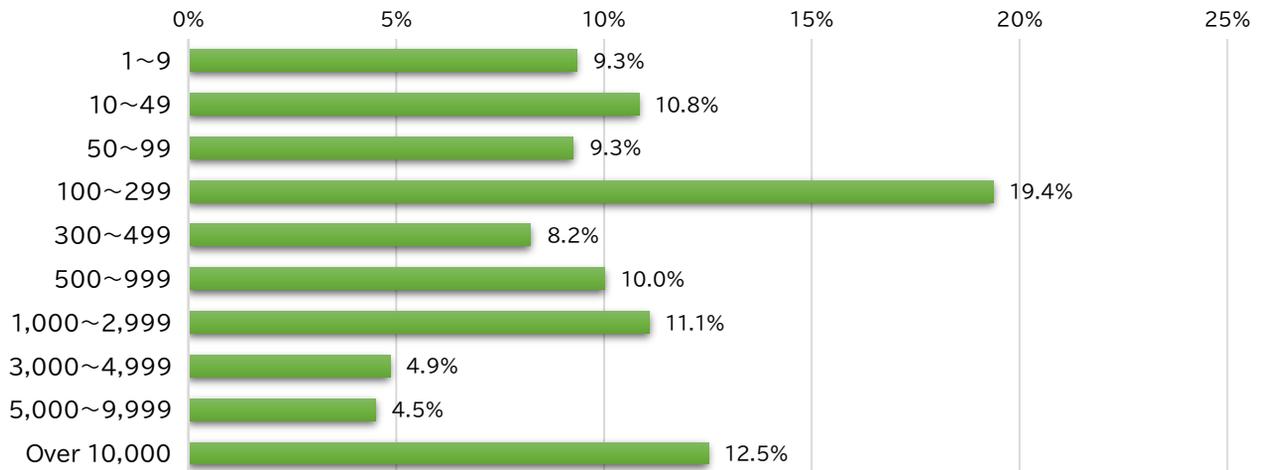
## ④What is your job title?



## ⑤How involved are you in purchasing and implementing products/services?

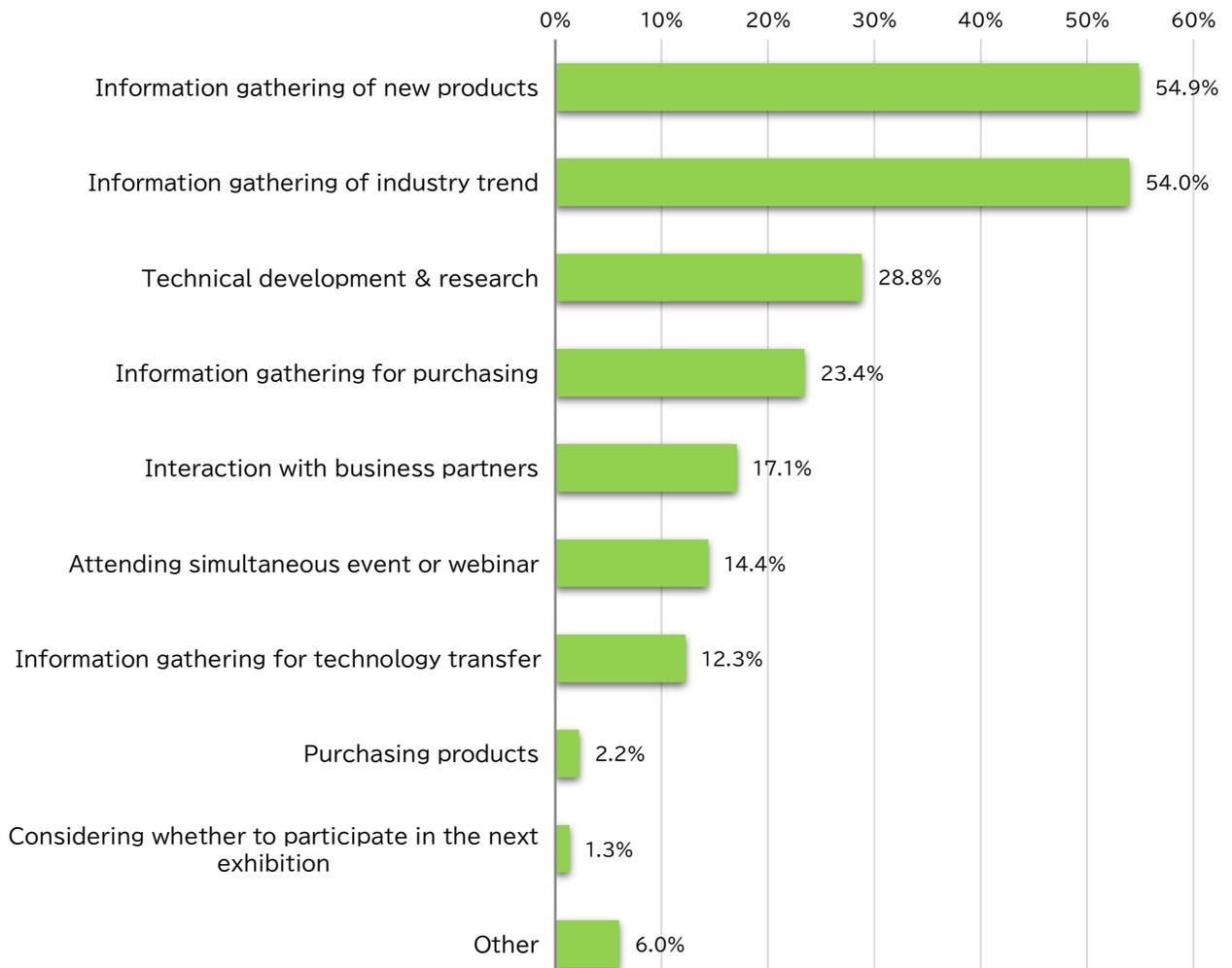


## ⑥How many employees does your company/organization have?



## ⑦What is the purpose of your visit to this exhibition?

※multiple answers allowed



\* The sum of percentages does not be 100% because multiple answers are allowed.

未来モノづくり国際EXPO開催 来年5月

未来モノづくり国際EXPO実行委員会（日刊工業新聞社などで構成）は、2023年5月10-12日にインテックス大阪（大阪市住之江区）で「未来モノづくり国際EXPO2023」を開催する。「2025年日本国際博覧会協会」などの協力により初開催されるイベント。25年の大阪・関西万博の機運醸成につなげるとともに、日本の優れた産業の情報を国内外に向けて発信する。同イベントは大阪・関西万博の参加型プログラム「TEAM EXPO 2025」に参画する企業・団体向けに、特別価格での出展料を設定している。問い合わせは同展事務局（03-5644-7221）へ。

June 6, 2022

未来モノづくり国際EXPO 2023

2023年日本国際博覧会協会が協力し、初開催する国際展示会「未来モノづくり国際EXPO2023」がインテックス大阪（大阪市住之江区）で10日開幕する。主催は日刊工業新聞社（以下）で

未来モノづくり国際EXPO 大阪できょう開幕

構成する同EXPO実行委員会、25年の大阪・関西万博の機運醸成を狙い、未発表に向けて産業課題を解決する製品・技術を発表する。会期は11日まで。同展はロボットやモノづくり基盤技術、水・グリーン技術などの分野から出展される。ウエルビーイング（心身の健康）技術に焦点を当てた展示も、ウェアラブル・テクノロジー・インターナショナル（セーフティ・ヘルプ）も同EXPO内で開く。2展で計807社・団体が参加する。初日はファンクの山口賢治社長が白の講演も行う。入場料1000円で事前登録者や中学生以下は無料。

May 10, 2023

未来モノづくり国際EXPO 2023

紙上プレビュー①

未来モノづくり国際EXPO実行委員会（日刊工業新聞社などで構成）は5月10-12日にインテックス大阪（大阪市住之江区）で「未来モノづくり国際EXPO2023」を開く。2025年日本国際博覧会協会などの協力により初開催するイベント。25年の大阪・関西万博の機運醸成につなげるとともに、日本の優れた産業の情報を国内外に向けて発信する。また4月26日-5月19日の期間、オンライン展示会を開催。主な出展者を紹介する。

既存カート 電動アシスト化

IDECは「Electric Power Wheel 150/300シリーズ」を紹介する。インホイール構造によるシンプルな構成で、既存のカートを簡単に電動アシスト化することができ、重量物搬送時にカートを押す力をサポートする。自動車業界、工業、物流業界など用途に合わせた豊富なバリエーションを用意する。



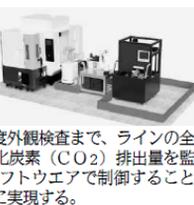
油圧オーリングポート対応

丸一切削工具（大阪府東大阪市）は従来ソリッドタイプやロウ付けの成形品でなければ対応できなかった油圧オーリングポート加工用工具を、スローアウェー式工具で開発に成功した。国内外で採用実績があり、製品の品質向上・コスト削減を提案する。専用の検査ゲージも用意し、加工から検査まで一貫したサービスを提供する。



アルミ加工ライン 完全自動化

ユアサネオテック（東京都千代田区）は「人と環境に優しい完全自動のアルミ加工ライン」を紹介する。ワーク脱着から、自律走行ロボットと協働ロボットの連携による工程間の運搬、AIによる高精度外観検査まで、ラインの全てを自動化。稼働状況や二酸化炭素（CO2）排出量を監視し、加工機のポンプ類をソフトウェアで制御することで、省エネ・脱炭素化も同時に実現する。



生産性・CO2排出量 見える化

旭鉄工（愛知県碧南市）は多彩な工法（熱間鍛造、ダイカスト、切削、溶接、熱処理、組付など）で、幅広い品目について80年間トヨタ自動車の品質・コスト要求に応えた実績がある。最近ではチタンやステンレスの鍛造に注力。生産性とCO2排出量の両方を見える化するIoTシステムと改善ノウハウ提供を関係会社と一体となって取り組んでいる。



April 24, 2023

未来モノづくり国際EXPO 2023

紙上プレビュー②

新コンセプトの部品供給機

NTNテクニカルサービス（大阪府西区）は、「ピッキングロボット用フィッターTRINITTE（トリニッテ）」を出展する。汎用性や生産の高稼働率を追求した商品で、産業ロボットと組み合わせることを前提とした新コンセプトの部品供給機。展示会では各社産業ロボットと組み合わせたデモンストレーションを行い、課題解決を提案する。



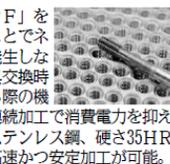
SiC・サファイア加工容易に

アリユース（東京都東久留米市）は、炭化ケイ素（SiC）やサファイア加工をより容易にする技術を提供する。超音波振動を援用して微細なワークを破砕させ、加工効率を上げチップングや欠けを抑制。既存のマシニングセンターに簡単に装着できる超音波加工ユニット（写真）は、導入後すぐ脆（ぜい）性材加工が始められ、工具寿命や加工効率などSiC向け推奨工具も展示する。



切りくず出ない転造タップ

OSGは転造タップ「A-XPF」を紹介する。材料を塑性変形することでネジ山を形成するため切りくずが発生しない。切りくずトラップによる工具交換時間、堆積した切りくずを除去する際の機械停止時間を削減し、安定した連続加工で消費電力を抑える。非鉄合金、軟鋼、炭素鋼、ステンレス鋼、硬さ35HRCの調質鋼まで幅広い被削材で高速かつ安定加工が可能。



クラウド生産管理システム

テクノア（岐阜市）は、クラウド対応型「TECHS-S-NOA」が登場した中小製造業向け生産管理システム「TECHSシリーズ」250万円から導入可能な多品種少量生産対応の生産スケジューラ「Seiryu」に加え、AI画像認識による工場の見える化システム「A-Eyeカメラ」、平面図専用「AI類似図面検索」などのソリューションも展示する。



多言語サイト自動翻訳

WOVN（ウォーヴン、東京都港区）は、ウェブサイトを多言語化する「WOVN.io」を紹介する。ローコードで多言語化開発を可能とし、最新のAIを活用した技術で多言語サイトの翻訳・運用の完全自動化を支援。流ちょうかつ正確な翻訳を手助けし、AI時代の新しい人翻訳を提供する。43言語（地域言語としては77言語）に対応。



April 25, 2023

未来モノづくり国際EXPO 2023

紙上プレビュー④

顧客ニーズ 一歩先捉える

三菱電機は金属3Dプリンター、ソフトウェア（3Dシミュレーター）、ロボット関連製品など、世界のモノづくりを支えている最新のソリューション・製品を紹介する。最先端のモノづくりを目指すとともに、顧客の一歩先のニーズを捉え、最適な技術・製品・サービスを提供する。



「最先端の自動化」実現

THKは、直動部品で培った技術とノウハウを基に開発した各種ロボットやサービスを展示する。複雑形状のワークを安定して吸着・把持可能なロボットハンド「TNH」など実機のデモを多数実施する。製造業向けIoTサービス「OMNIEdge」では、切削工具の課題解決に寄与する新サービス「工具監視AIソリューション」を紹介。「最先端の自動化」実現に貢献する。



ドローン飛行 長時間・長距離に

エアロジーラボ（大阪府箕面市）が展示するAeroRangeQuadは、エンジンジェネレーターを搭載し140分飛行できる。ドローンが飛行可能な空域が開放されていく中、長時間、長距離化のニーズに対応。機体下部のスペースを使ってさまざまなデバイスを搭載でき、点検測量、警備や監視、防災、物流などバリエーションを広げられる。



協働ロボの自動化作業実演

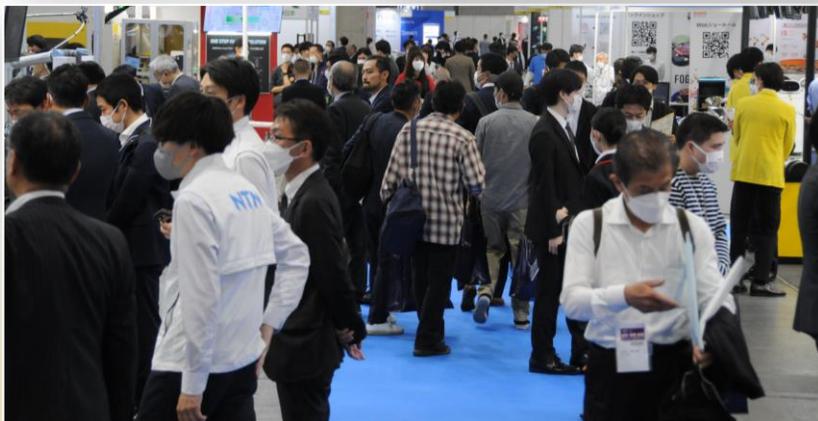
デンマークのユニバーサルロボットは、協働ロボットを使った自動化のデモンストレーションを行う。可搬重量20kgの協働ロボット「UR20」を用いたパライティングや、安定した高品質溶接が可能な溶接支援パッケージのほか、加工機へのワーク脱着においてロボット内蔵力覚センサーを用いて高精度な位置補正などが可能な点を訴求する。



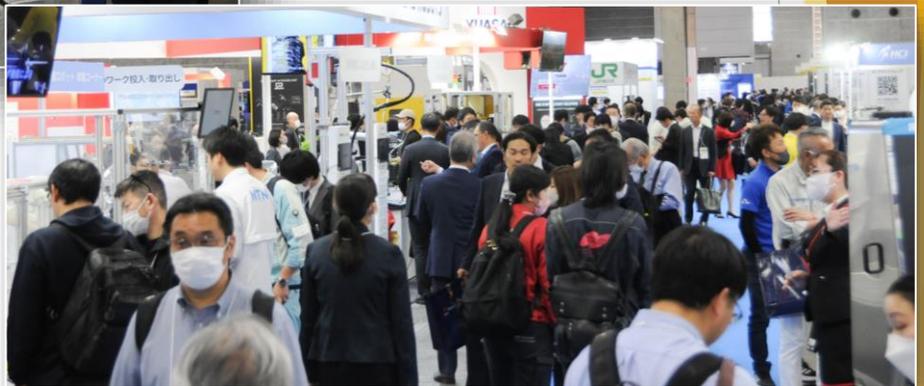
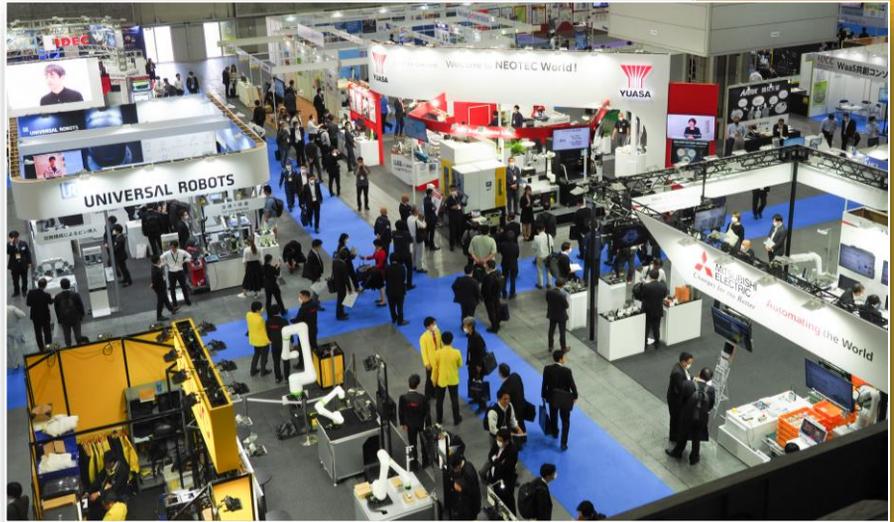
April 27, 2023



# Venue Photos ①



# Venue Photos ②



# **Future Monodzukuri International EXPO**

— Next Show Schedule —

Date: November 13 (Wed.) – 15 (Fri.), 2024  
Venue: INTEX OSAKA

Future Monodzukuri International EXPO Secretariat  
(The Nikkan Kogyo Shimbun)

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