

人とくるまのテクノロジー展 2024 NAGOYA  
Automotive Engineering Exposition 2024 NAGOYA

# RESULT REPORT

## Co-Create!

未来をともに創りだそう

7/17<sup>WED</sup> 18<sup>THU</sup> 19<sup>FRI</sup>

Aichi Sky Expo

ONLINE STAGE 2 7/10<sup>WED</sup> - 7/31<sup>WED</sup>

## Introduction

The 8th JSAE Automotive Engineering Exposition 2024 NAGOYA took place for three days

From Wednesday, July 17 to Friday, July 19, 2024.

This year, 392 companies exhibited in 859 booths,

We were pleased to have 29,852 visitors over the three-day period.

This report describes the results of the exposition based on the answers to questionnaires  
by visitors and exhibitors.

These results will be used to make subsequent expositions even more successful.

Thank you for supporting the Automotive Engineering Exposition,  
and we look forward to your continued support in the future.

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# SUMMARY REPORT

|                      |   |
|----------------------|---|
| Exhibition Name      | AUTOMOTIVE ENGINEERING EXPOSITION 2024 NAGOYA   |
| Dates                | Wednesday, July 17, through Friday, July 18, 2024<br>Three days: 10:00 - 17:00  |
| Venue                | Aichi Sky Expo (Aichi International Exhibition Center) Hall D/E/F   |
| Organizer            | Society of Automotive Engineers of Japan, Inc. (JSAE)   |
| Under the Auspice of | METI Chubu, Aichi Prefecture, Tokoname-City   |
| Supported by         | Automobile Business Association of Japan / Flat Glass Manufacturers Association of Japan / Information Processing Society of Japan / Japan Aluminium Association / Japan Auto-Body Industries Association Inc. / Japan Auto Parts Industries Association / Japan Automobile Manufacturers Association, Inc. / Japan Automobile Research Institute / Japan Automobile Transport Technology Association / Japan Automotive Machinery and Tool Manufacturers Association / Japan Automotive Service Equipment Association / Japan Automotive Software Platform and Architecture / Japan Internal Combustion Engine Federation / Japan Lubricating Oil Societies / Petroleum Association of Japan / The Institute of Electrical Engineers of Japan / The Iron and Steel Institute of Japan / The Japan Automobile Tyre Manufacturers Association, Inc. / The Japan Federation of Engineering Societies / The Japan Institute of Light Metals / The Japan Magnesium Association / The Japan Petroleum Institute / The Japanese Society for Artificial Intelligence / The Japan Society of Mechanical Engineers / The Society of Instrument and Control Engineers / The Society of Materials Science, Japan |
| Attendees            | Attendees consist of engineers, researchers, from the automobile, electronic, test & measurement equipment, information & software, logistics & transportation industries as well as educational & research institutes.   |




## Exhibition Scale

|                      |            |            |
|----------------------|------------|------------|
| Number of Exhibitors | <b>392</b> | 313 (2023) |
| Number of Booths     | <b>859</b> | 644 (2023) |

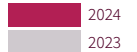
## Registrations

**29,852**  
25,497 (2023)

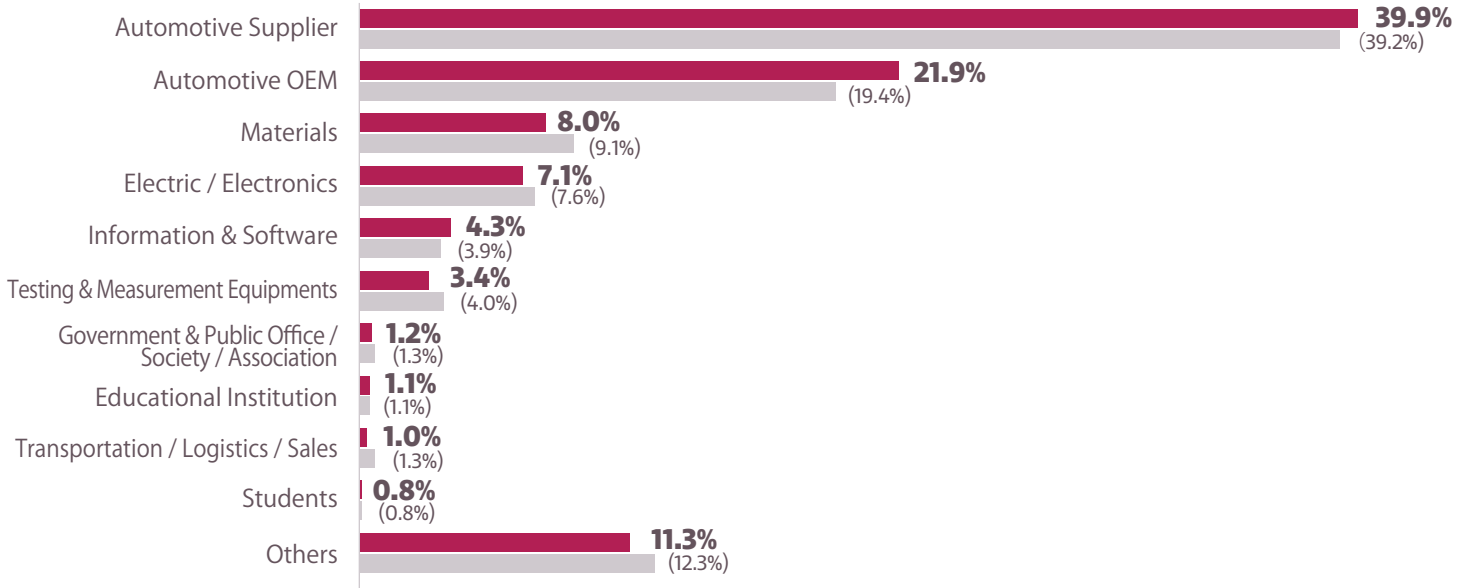
## Breakdown of Visitors by Date

| Date               | Weather   | Registrations | Registrations (2023) |
|--------------------|---|---------------|----------------------|
| Wednesday, July 17 |  | <b>8,162</b>  | 7,355                |
| Thursday, July 18  |  | <b>9,931</b>  | 8,248                |
| Friday, July 19    |  | <b>11,759</b> | 9,894                |
| Total              |   | <b>29,852</b> | 25,497               |

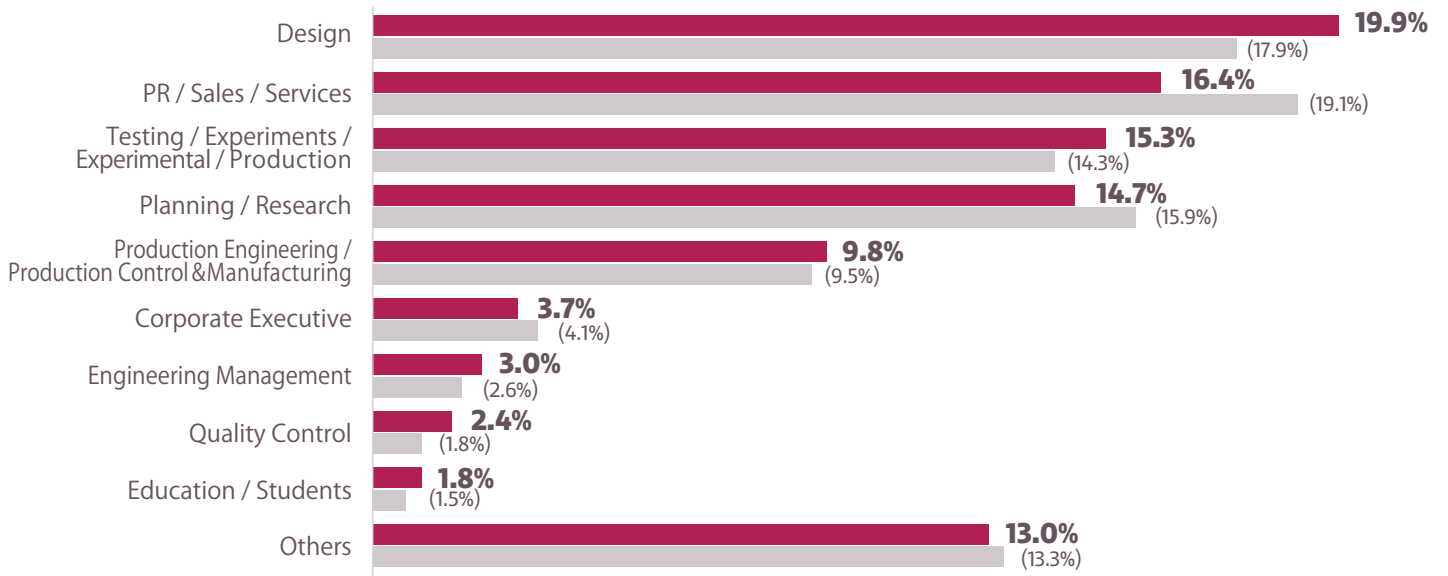
\* ( ) figures for 2023



### Business Category



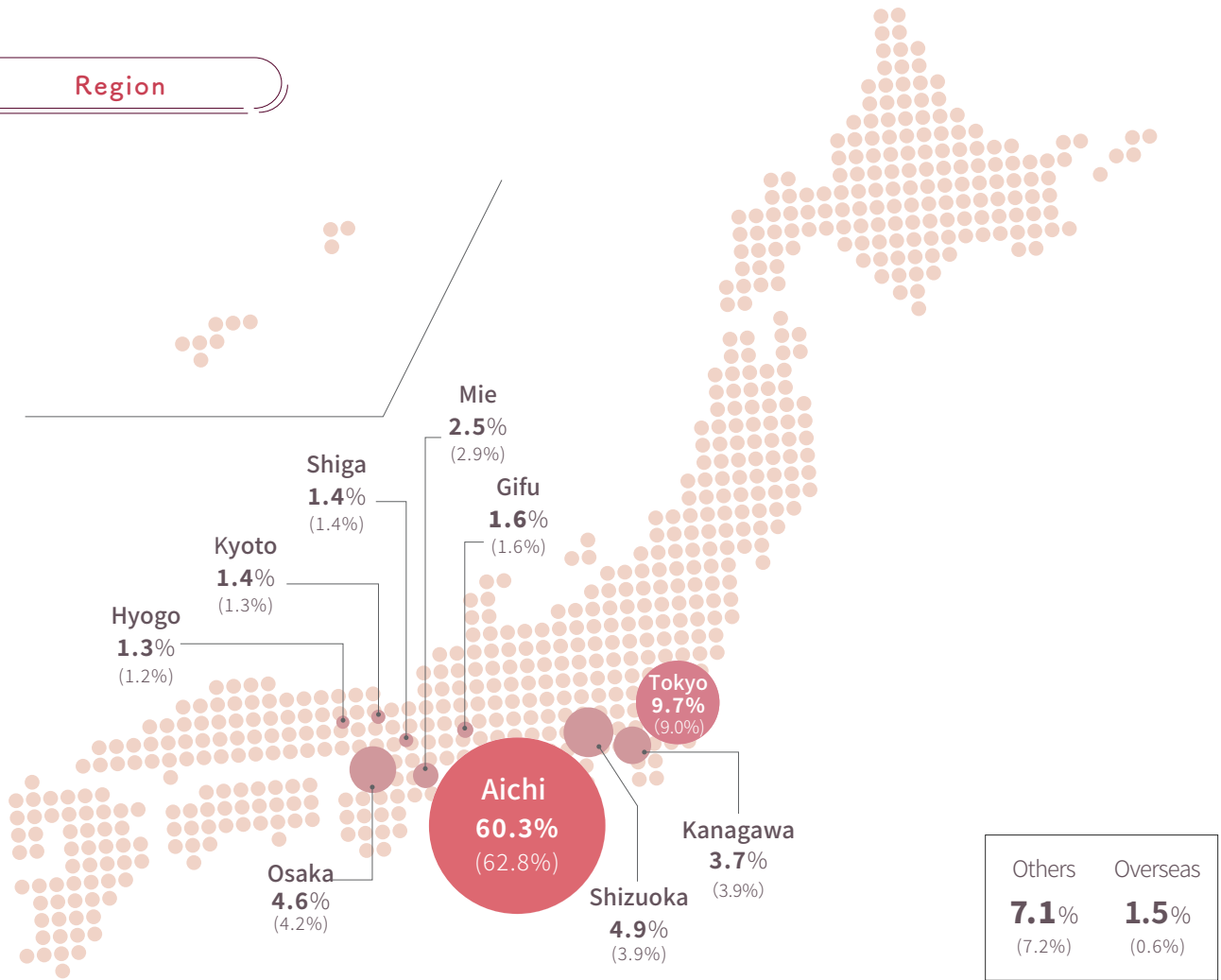
### Job Category



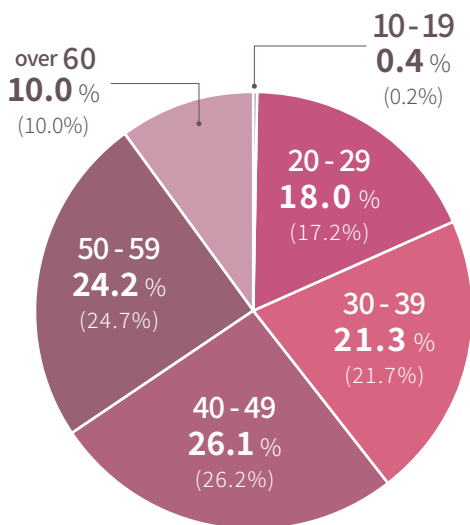


\*() figures for 2023

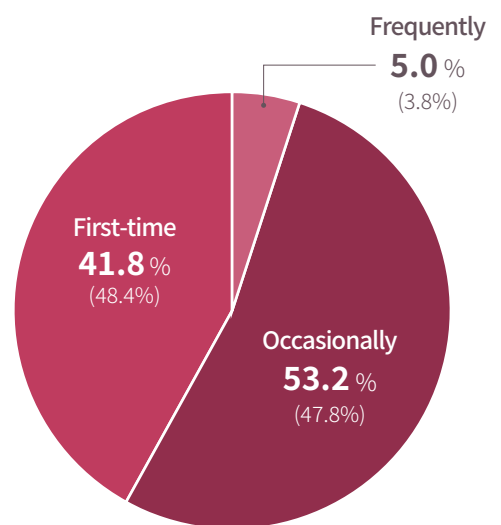
Region



Age



Frequency of Visits



# VISITORS' VOICE

## Questionnaire Results

1,042 people answered the survey.

## Likelihood of attending the next exposition



Positive comments were received from many visitors.



## VISITORS' VOICE

It was good to have locally oriented special events and exhibitions different from the contents of the exhibitions at the Yokohama exposition.

Since many companies only exhibited at the Nagoya exposition, it was good to see different exhibits from those at Yokohama. This exposition was an excellent opportunity to obtain an overall view of what initiatives different companies are pursuing.



Every year, I am really surprised at the scale and density of the exposition. This exposition communicates the individuality and future direction of the exhibitors. It was a real learning experience.

Maybe it was the proximity to Centrair airport, but there seemed to be many exhibits from non-Japanese companies. This was a good opportunity to learn about the trends of non-Japanese companies as well as just the Japanese automotive industry.

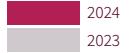


Since the scale of this year's exposition was larger than previous events in Nagoya, I studied the venue in advance using the pre-released web map to narrow down where I wanted to visit. This preparation helped me tour the exposition efficiently and gave me the time to see some of the special events as well as the exhibition booths. The content was extensive and worth seeing.

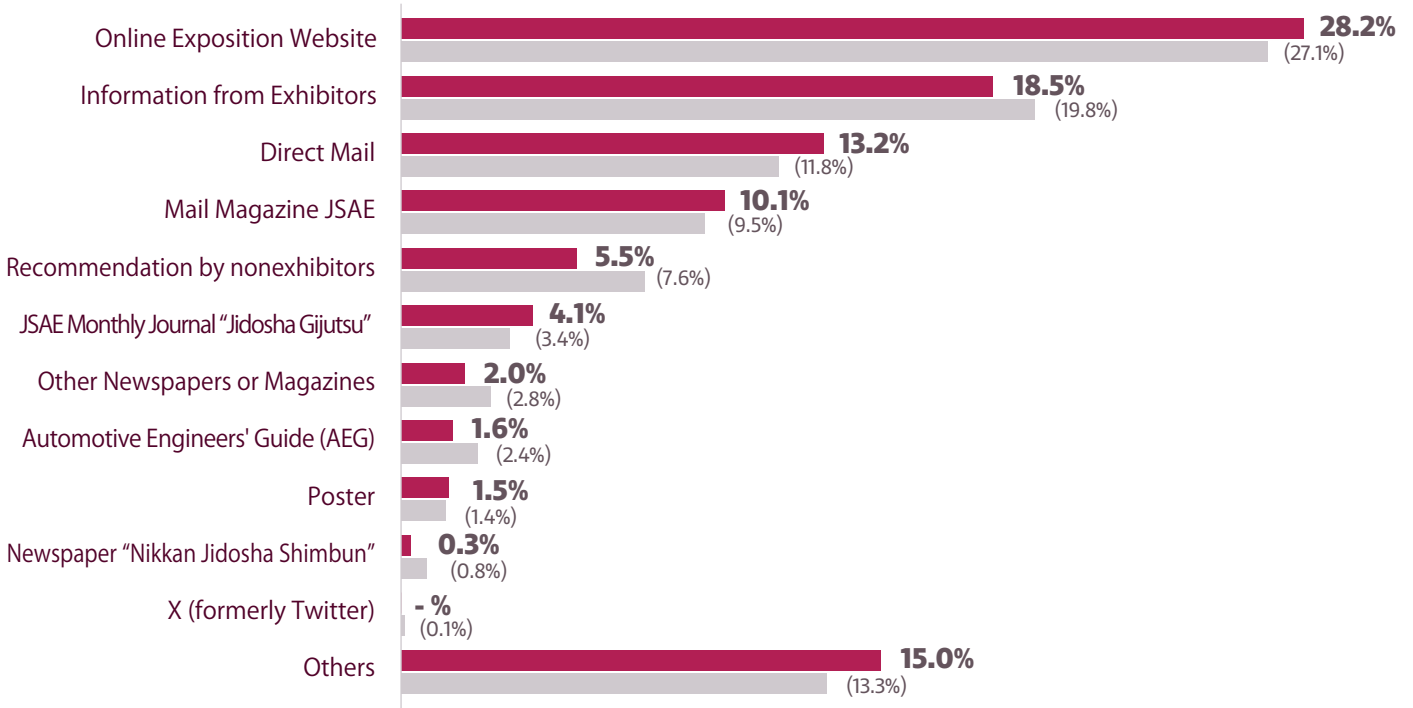
I also had the chance to see the start-up company exhibits and attend the presentation stage and exhibitor seminars.



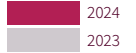
\* ( ) figures for 2023



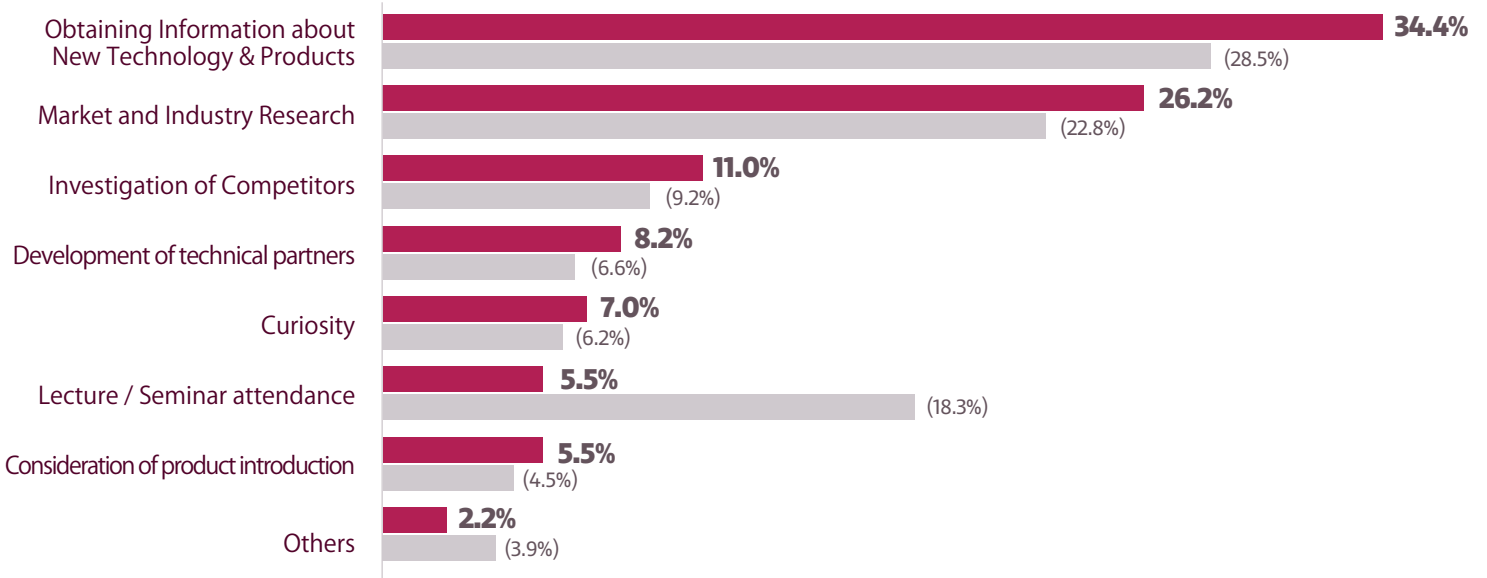
### How Visitors Knew about the Exposition



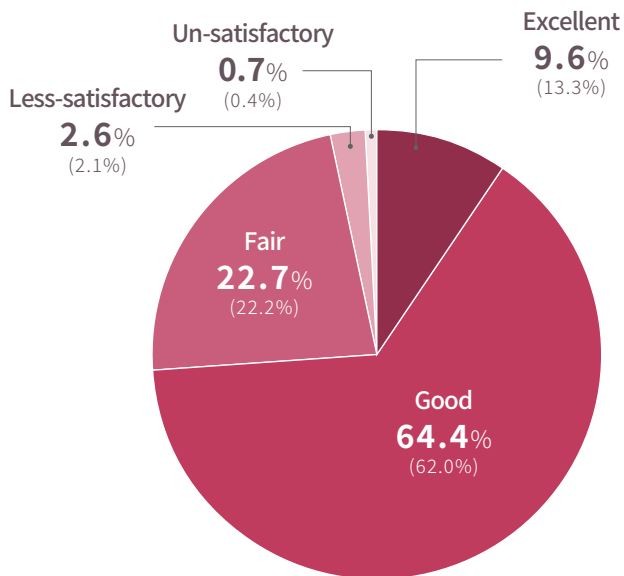
\* ( ) figures for 2023



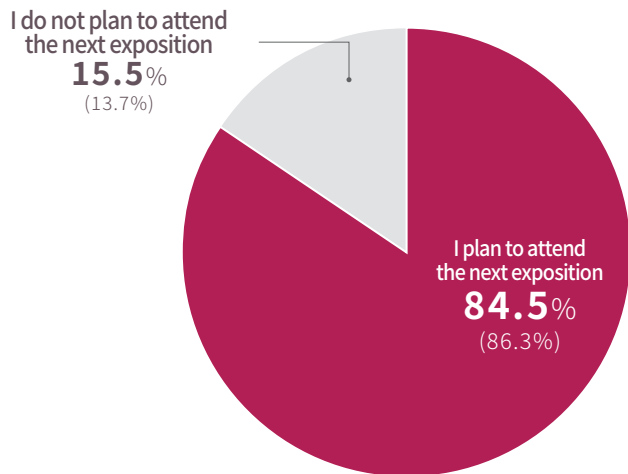
### Purpose of Visit



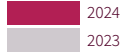
### Satisfaction with Visit



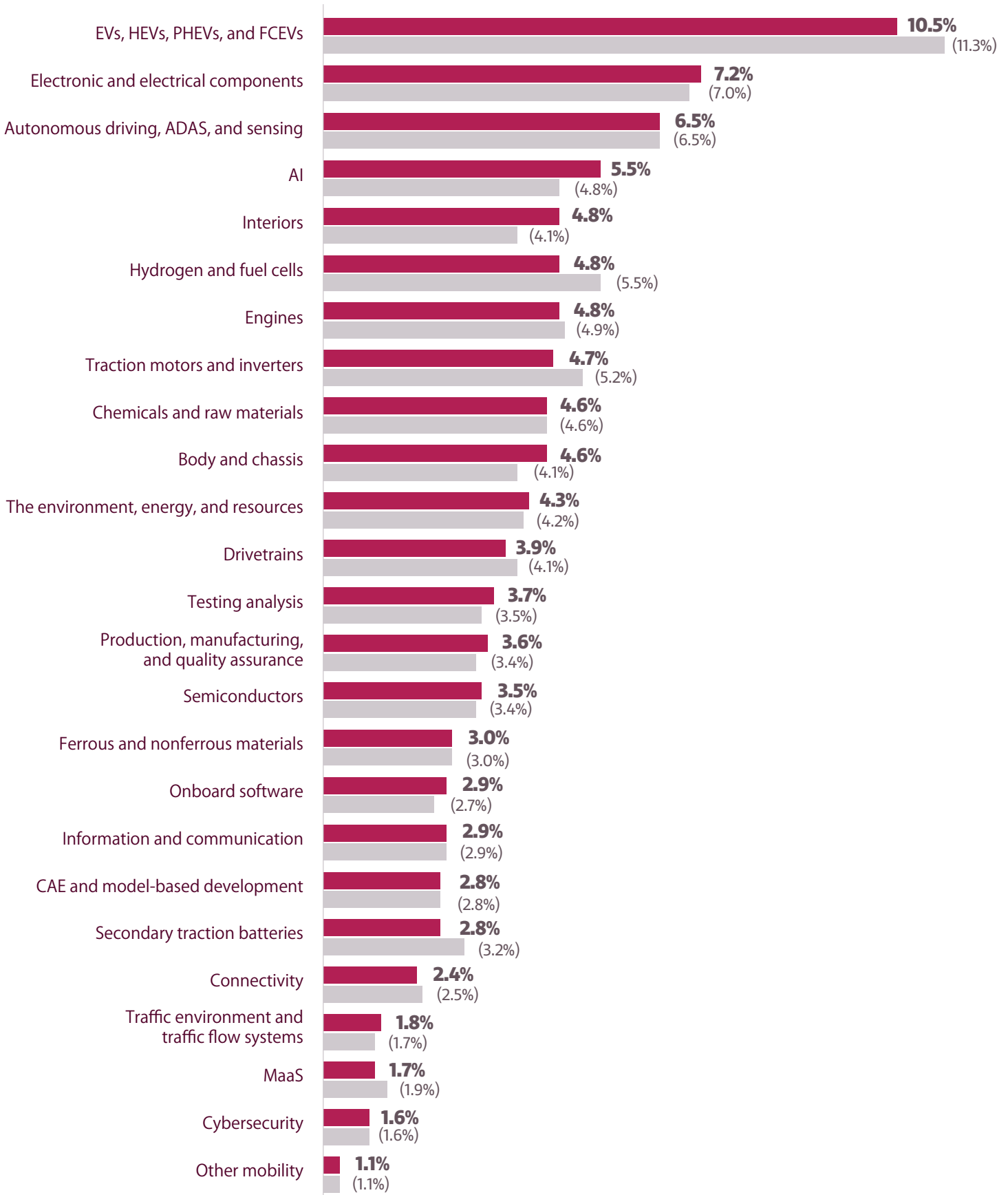
### Likelihood of attending the next exposition



\*() figures for 2023



Exhibition Categories of Interest

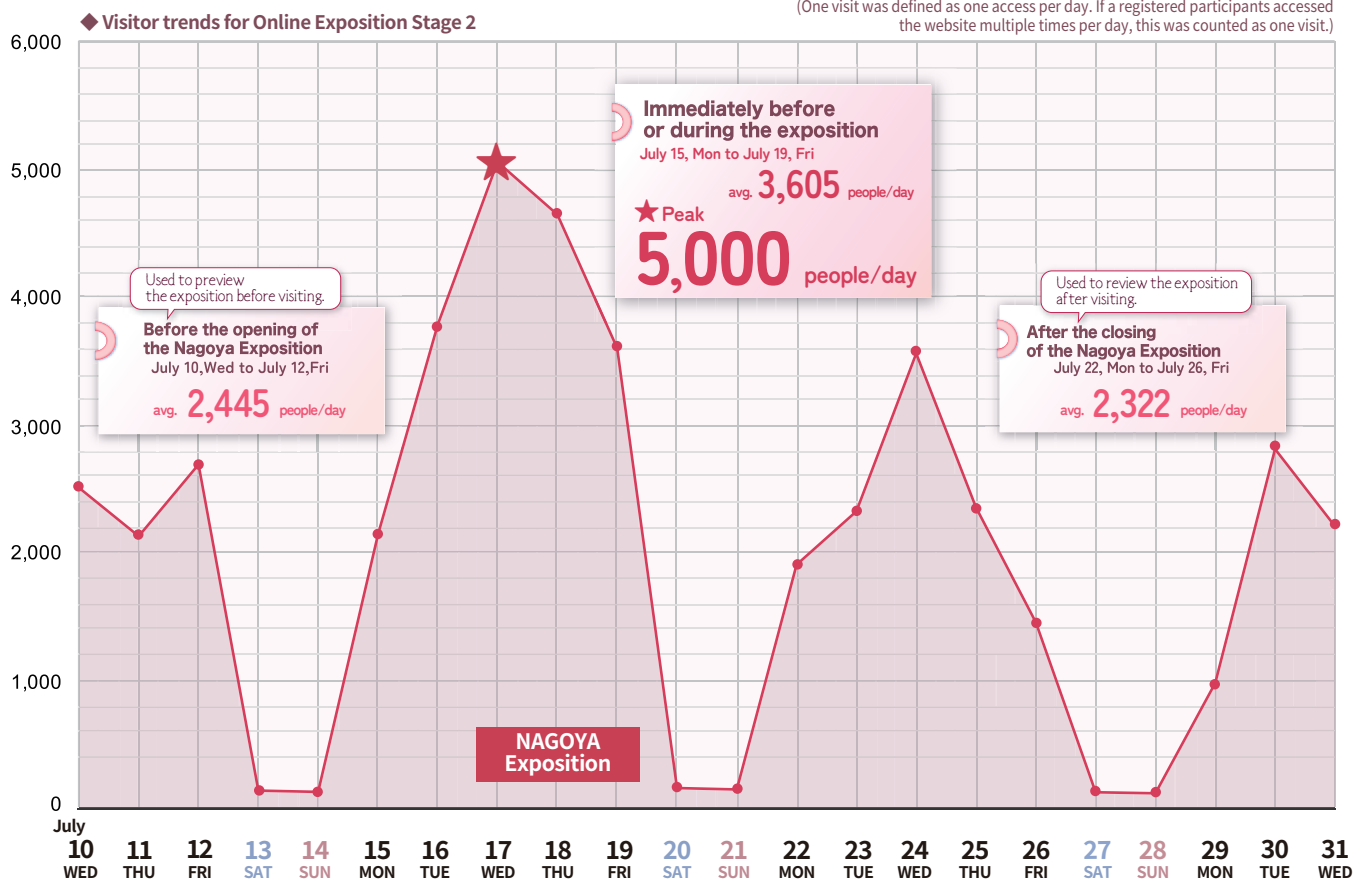




## Status of utilization regarding online exhibitions

Visitors to the Nagoya exhibition used online exhibits for preliminary research before attending and for follow-up checks after attending.

\* The number of visitors refers to the number of times registered participants accessed the online exposition website. (One visit was defined as one access per day. If a registered participant accessed the website multiple times per day, this was counted as one visit.)



## Visitor's Review Visitor comments using online exhibition and digital map



I felt that there was more information disclosed than last year. This year, I confirmed the exhibition contents in advance online and used the actual exposition to talk with the exhibitors. I hope that more companies will enhance their online content in the future.



I'm glad that I grasped the outline of the exposition to some extent before coming. I was able to prepare what I wanted to ask before reaching the venue and make efficient use of my time. I intend to do the same before coming next year as well.



The digital map registration method was easy to understand. It was useful to have an efficient route to all my target exhibits that I could study in advance. Companies that introduced the details of their exhibits in the online exposition were easy to select as candidates for an in-person visit.



The function to add items to the visit list was convenient. The tool made it easy to create a list of interesting companies. Being able to make and create a list of visit notes at the venue helped me prepare and create my report faster because I could paste these notes straight into Excel.



I used a digital map to navigate the exhibition hall. Additionally, since some exhibits couldn't be fully viewed in detail on-site, it was great to be able to check the missed information online later.



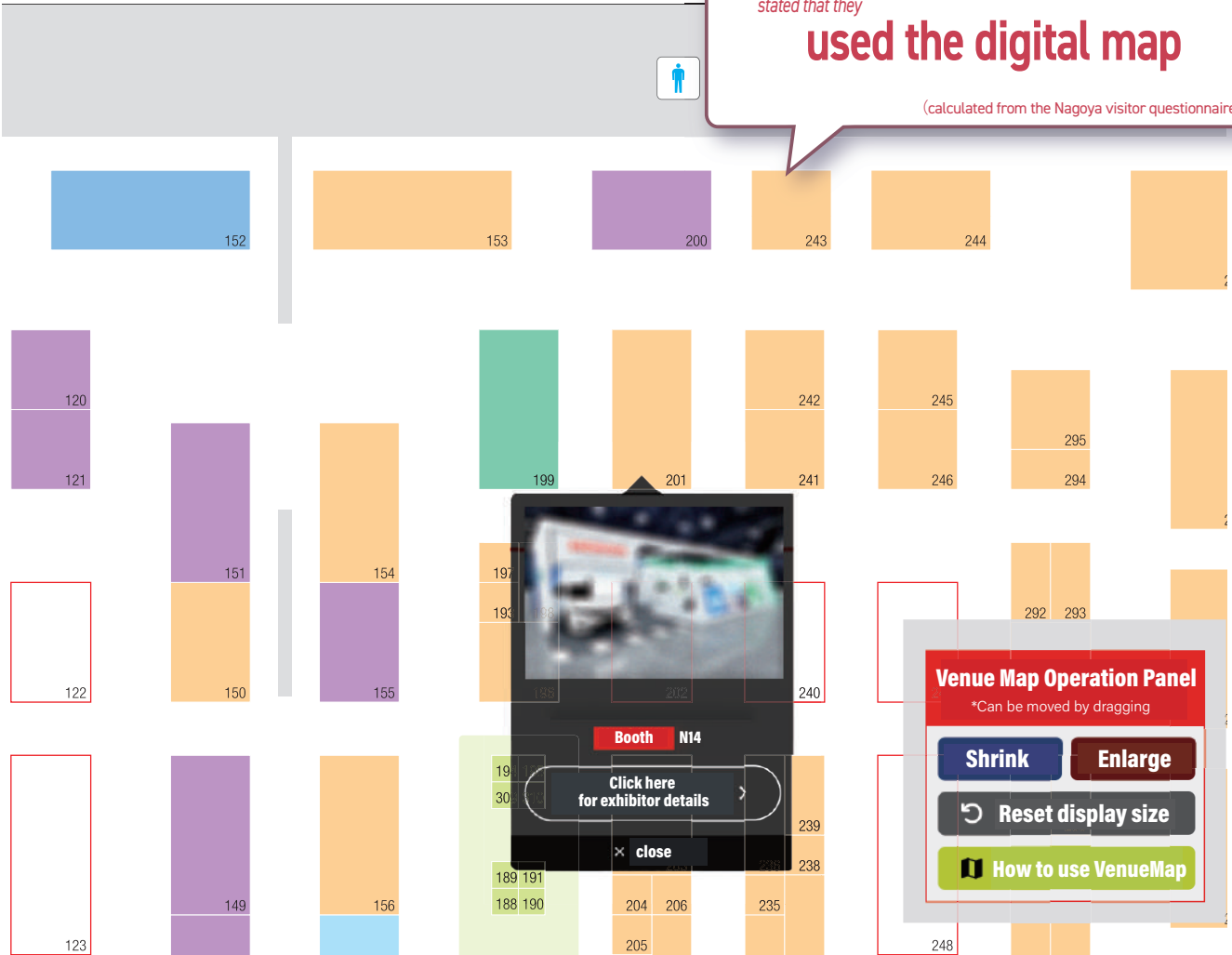
I used the online exposition to see if I had missed any exhibits when I visited the venue. In addition, it was very useful to be able to make notes about my conversations with people in the booth that could be pasted straight into my company report.

Status of Utilization: Digital Map

Digital map function

Approximately **one in three** visitors stated that they **used the digital map**

(calculated from the Nagoya visitor questionnaire.)



A large proportion of visitors used this function.  

Percentage of pinned exhibition booths:

**95.2%** of total

(total exhibitor accounts: 611 companies)

Average number of pinned booths:

**267** pins per exhibitor  
**10** pins per user

Which exhibits left the best impression in the general exhibits?

*Answer Ranking*

|             |                                 |
|-------------|---------------------------------|
| <b>No.1</b> | <b>FCVs</b>                     |
| <b>No.2</b> | <b>Next-generation mobility</b> |
| <b>No.3</b> | <b>Decorative films</b>         |
| <b>No.4</b> | <b>BEVs</b>                     |
| <b>No.5</b> | <b>Recycled Products</b>        |

|                                 |                                  |
|---------------------------------|----------------------------------|
| 3D printers                     | Magnetic flux measuring devices  |
| 3D scanners                     | Massage seats                    |
| Analysis software               | Metallic nanoparticles           |
| Autonomous driving technologies | Metering pumps                   |
| Biofuels                        | Motors                           |
| Carbon neutrality               | Nap boxes                        |
| Coating transfer sheets         | On-board Ethernet transmission   |
| Connectors                      | On-board lens units              |
| Cooling plates                  | PHEVs                            |
| Cut models                      | Plant-derived material products  |
| Disc brakes                     | Portable coolers                 |
| Easy-peeling tape               | Power semiconductors             |
| eAxle                           | Refrigerant flow control         |
| Electrostatic brushes           | Remote Sensing                   |
| Expansion-suppression bands     | Simulation system                |
| Fatigue mitigation systems      | Static mixers                    |
| Gaze-following systems          | Test dummies                     |
| Gigacasting                     | Thermostat case                  |
| Haptic transmission units       | Urethane-free technologies       |
| Heat dissipation plates         | Vehicle Exhibits                 |
| In-wheel motors                 | VR technology                    |
| Interior skin materials         | Workplace digital transformation |
| Laser welding                   |                                  |



Which themes and products would visitors like exhibitors to show in future exhibitions?

*Answer Ranking*

- No.1** Carbon neutrality
- No.2** BEVs
- No.3** Circular Economy
- No.4** Autonomous driving technologies
- No.5** Electrification Technology

Actual vehicle cut models  
 Aerospace development  
 Agile development  
 AI  
 Assistance devices  
 Biodegradable plastics  
 Biofuels  
 Bodyframe  
 Booths with hands-on exhibits  
 Busbar  
 CAE support tools  
 Charging technologies  
 Digital transformation-related technologies  
 Display circuits  
 Driving simulators  
 Electromagnetic control  
 Energy  
 Environmentally friendly products  
 eVTOL  
 FCV  
 Gigacasting  
 Heat management  
 Hydrogen production

Hydrogen-electricity conversion technologies  
 Instrument panels  
 internal combustion engines  
 Logistics solutions  
 Model-based development technologies  
 Next-generation sensors  
 Non-Japanese BEV manufacturers  
 On-board electronic components  
 Optical communication  
 Passive safety  
 PHEVs  
 Recycling technologies  
 Remote sensing  
 SDGs  
 SDV  
 Solar cells  
 Storage batteries  
 Task automation  
 Testing tools  
 Truck EV technologies  
 Weight reduction technologies  
 Whitebody

\*in alphabetical order

# EXHIBITORS' VOICE

## Questionnaire Results

134 company answered the survey below.

Likelihood of exhibiting at the next exposition



Positive comments were received from many exhibitors.



## EXHIBITORS' VOICE

I got the impression that more visitors came with a pre-determined purpose than in Yokohama. Many front-line engineers came, as well as many people with a clear understanding of the issues. For those reasons, people tended to stay in our booth for longer. Many people visited our booth after using the online information to study where to go in advance. I felt that the information presented at the online exposition was quite effective.



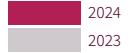
We exhibited at both the Yokohama and Nagoya expositions. Although it is difficult to change the exhibits since the expositions are close together, we selected exhibits aimed to people from the Chubu region. Visitors reacted differently from the Yokohama exposition, and we understood the benefit of coming here. If the characteristics of both expositions can be further differentiated in terms of exhibits, special events, visitors, and the like, I think it will become even easier to exhibit here. We are looking forward to next year.



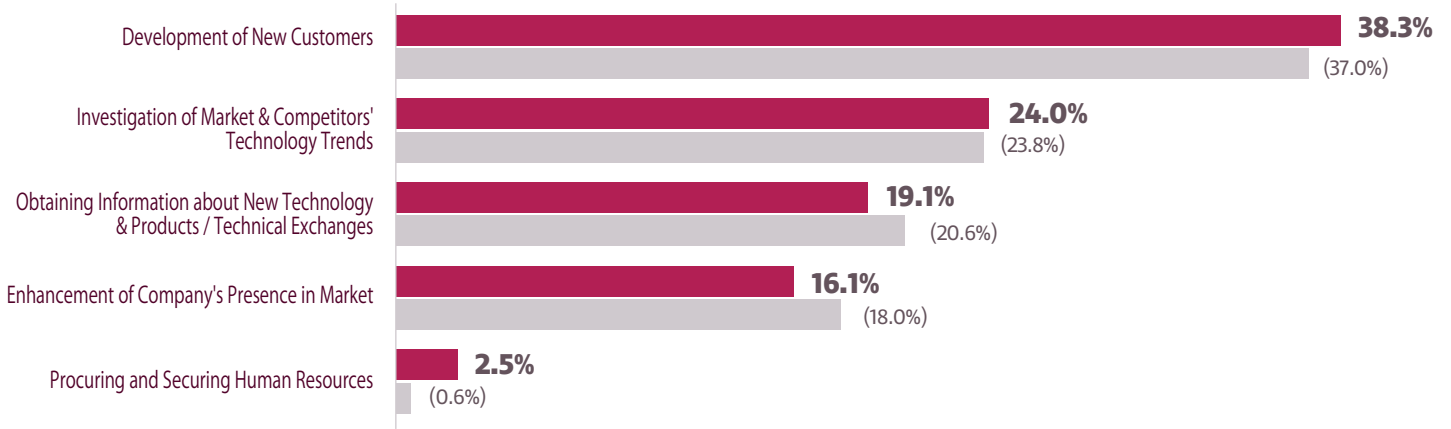
Although we exhibited in the start-up company area, many visitors came with a specific purpose. We were also pleased by the results of the presentation stage. After making our presentation, we were able to talk with members of the audience in our booth, so we appreciated the benefit of including a seminar in our plan. We felt that this was a valuable opportunity to showcase our products and the like to visitors from the Chubu area.



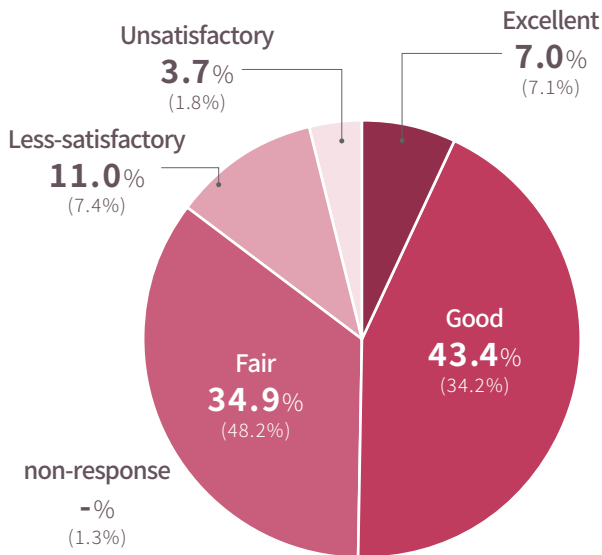
\*() figures for 2023



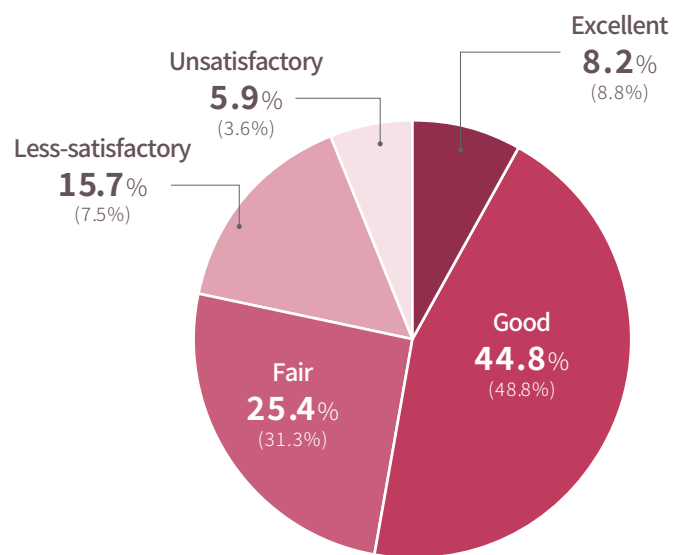
## Purpose of Visit



## Satisfaction with Exhibit

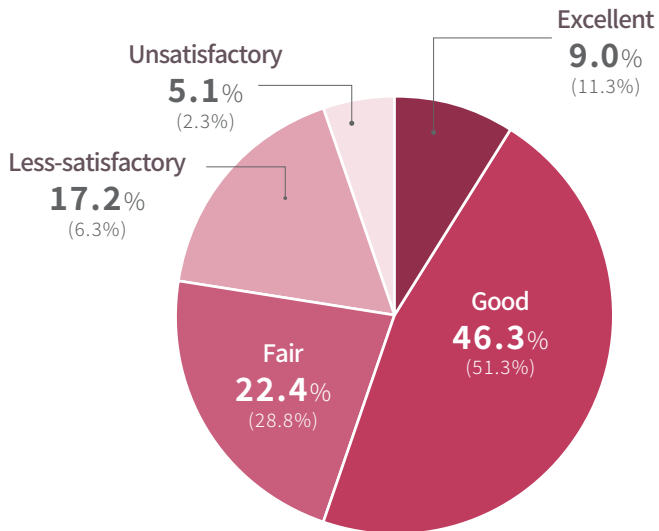


## Impression of Visitors

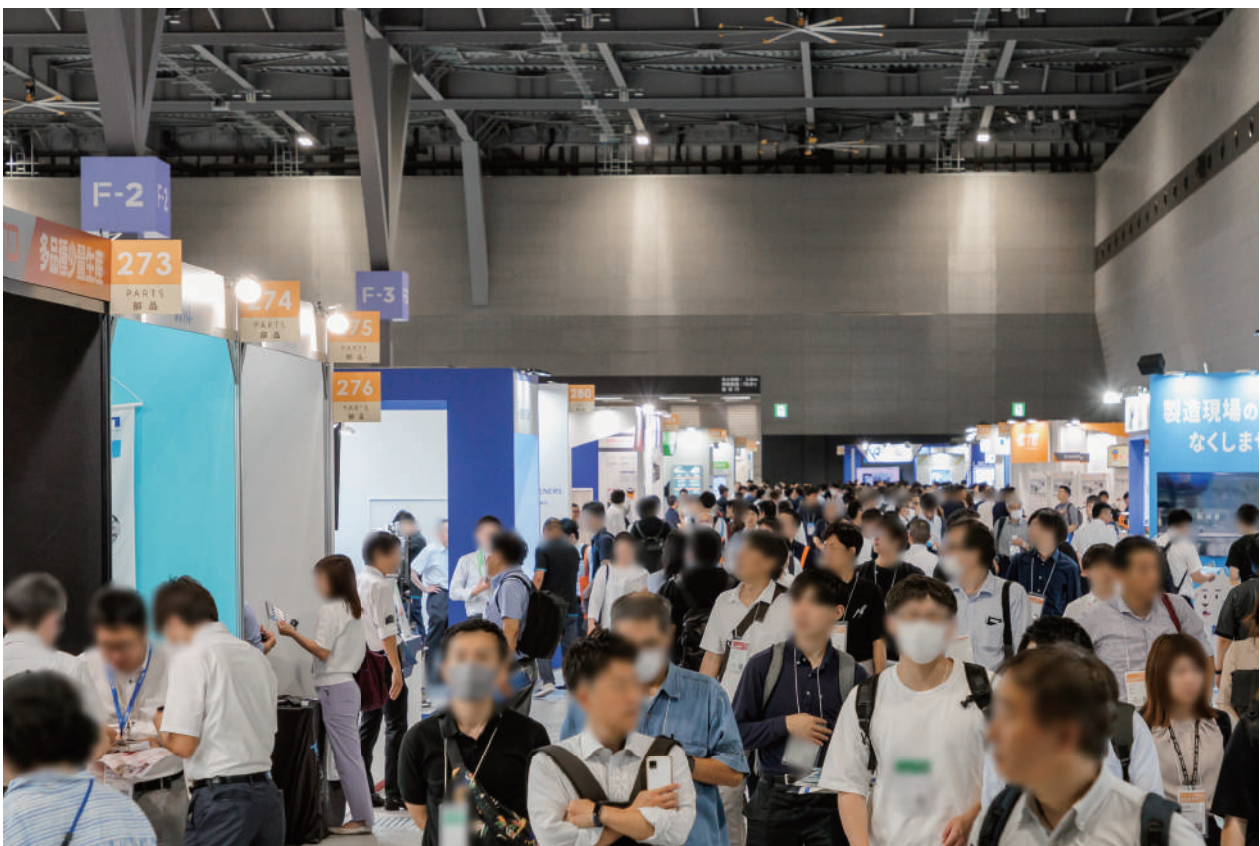
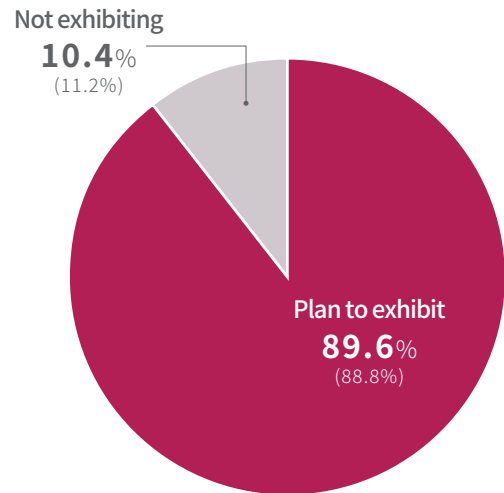


\*() figures for 2023

Comprehensive Evaluation



Likelihood of exhibiting the next exposition



# JSAE NAGOYA BEST 30

The visitors selected the exhibitors that made the biggest impression.

**3,177** votes were received from the visitors. 2,942(2023)

|    |                             |    |                                     |
|----|-----------------------------|----|-------------------------------------|
| 1  | Toyota Motor Corporation    | 16 | Mitsubishi Chemical Corp.           |
| 2  | Honda Motor Co., Ltd.       | 17 | Aica Kogyo Co., Ltd.                |
| 3  | DENSO Corp.                 | 18 | Mitsui Chemicals, Inc.              |
| 4  | AISIN CORPORATION           | 19 | AGC Inc.                            |
| 5  | TOYOTA AUTO BODY Co., Ltd.  | 20 | Tebiki Inc.                         |
| 6  | TOPPAN Co., Ltd.            | 21 | Sumitomo Electric Industries Ltd.   |
| 7  | Nissan Motor Co., Ltd.      | 22 | SOLIZE Corporation                  |
| 8  | SEKISUI CHEMICAL Co., Ltd.  | 23 | MEIJI ELECTRIC INDUSTRIES Co., Ltd. |
| 9  | Mitsubishi Motors Co., Ltd. | 24 | KOBELCO GROUP                       |
| 10 | Toray Industries, Inc.      | 25 | DAD Co., Ltd.                       |
| 11 | Suzuki Motor Corp.          | 26 | FURUKAWA ELECTRIC Co., Ltd.         |
| 12 | Mazda Motor Corporation     | 27 | Murata Manufacturing Co., Ltd.      |
| 13 | Hino Motors Ltd.            | 28 | ANALOG DEVICES K.K.                 |
| 14 | ISUZU MOTORS LIMITED        | 29 | SUBARU Co., Ltd.                    |
| 15 | Sumitomo Chemical Co., Ltd. | 30 | YAMAHA MOTOR Co., Ltd.              |

## Other Exhibitors of Interest

ACHILLES Corp.  
Nippon Light Metal Group  
GeoTechnologies Inc.  
Texas Instruments Japan Ltd.  
ONO SOKKI Co., Ltd.  
Toyota Technical Development Co., Ltd.  
FT TECHNO Co., Ltd.  
A2Mac1 Japan Ltd.  
MAC SYSTEMS Corp.  
MEIDENSHA Corp.





# EXHIBITOR AWARDS FOR OUTSTANDING CONTRIBUTION

As a token of its deep gratitude, the JSAE awarded certificates of thanks to exhibitors who have made a valuable contribution to the successful running of the exposition.

List of Winners of Outstanding Contribution Award at the Automotive Engineering Exposition 2024 Nagoya



JFE TECHNO-RESEARCH Corp.



Murata Manufacturing Co., Ltd.



TAKASAGO, Ltd.

\*in alphabetical order

Awarding  
Criteria

Exhibitors who have participated in the exposition 15 times, or have exhibited across a total of 50 booths.

# SPECIAL AREA

## Start-ups and Academia

The start-ups and academia area featured exhibitions and presentations from the start-up companies that will lead the industry in the future and academic institutions aiming to implement the results of their research in society. (1 presentation per day for each company over the three days on application).

### ◆ Exhibitors who used the presentation stage for start-ups and academia

(Exhibitors listed in Japanese alphabetical order.)

|                                     |  |
|-------------------------------------|--|
| SiB Co., Ltd.                       | Utilizing Eye Tracking Technology for Visible Improvement in Manufacturing Industry and the Future of Manufacturing [Achieving Reduction in Training Time in Factory DXI]  |
| Elephantech Inc.                    | Flexible boards for low-cost and low-environmental impact battery voltage monitoring wiring: Achieve flexibility through a unique method using metallic inkjet printing technology   |
| CARBON FLY Inc.                     | Toward the social implementation of nanocarbon materials   |
| KognicAB                            | Cloud-based software capable of managing components and materials in the supply chain at the optimum volumes   |
| PatSnap Pte. Ltd                    | Function upgrade from 2023 (reading patents using AI so you can focus purely on the technology) to 2024 (using AI to formulate patent reports and find your eureka moment! AI is transforming the innovation process: Learn about these functions. |
| Xenoma Inc.                         | Introduction of human-based measurement in the automotive industry using smart apparel   |
| AIHARA Lab. Hosei University        | Development of highly efficient self-locking gear for low reduction gear ratios  |
| Motion Lib, Inc.                    | Real haptic touch-based control technology: Creating the future of people and machines   |
| LEAN PATH Inc.                      | Cloud-based software capable of managing components and materials in the supply chain at the optimum volumes   |
| RENATA MECHATRONICS PRIVATE LIMITED | ~ Launch of automotive plastic insert molded parts from India to the world! ~<br>(1) Precision insert moldings produced in India (2) Monozukuri with precision mold technologies from Japan (3) Introduction of automation systems from Germany    |



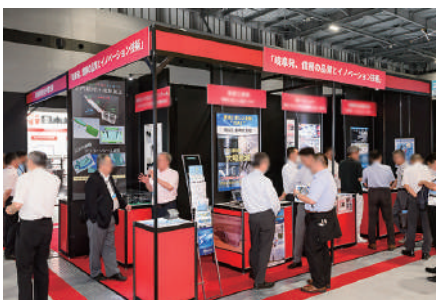
## The Chubu Branch of the JSAE

Starting this year, the exposition featured a new area hosted by the Chubu Branch of the JSAE showcasing companies active in the central Chubu area of Japan.

### ◆ Exhibitors

Nishio city, Aichi Prefecture/Air Water Inc./Gifu Prefecture/Fukuju Industry Co., Ltd./Yokoi HD

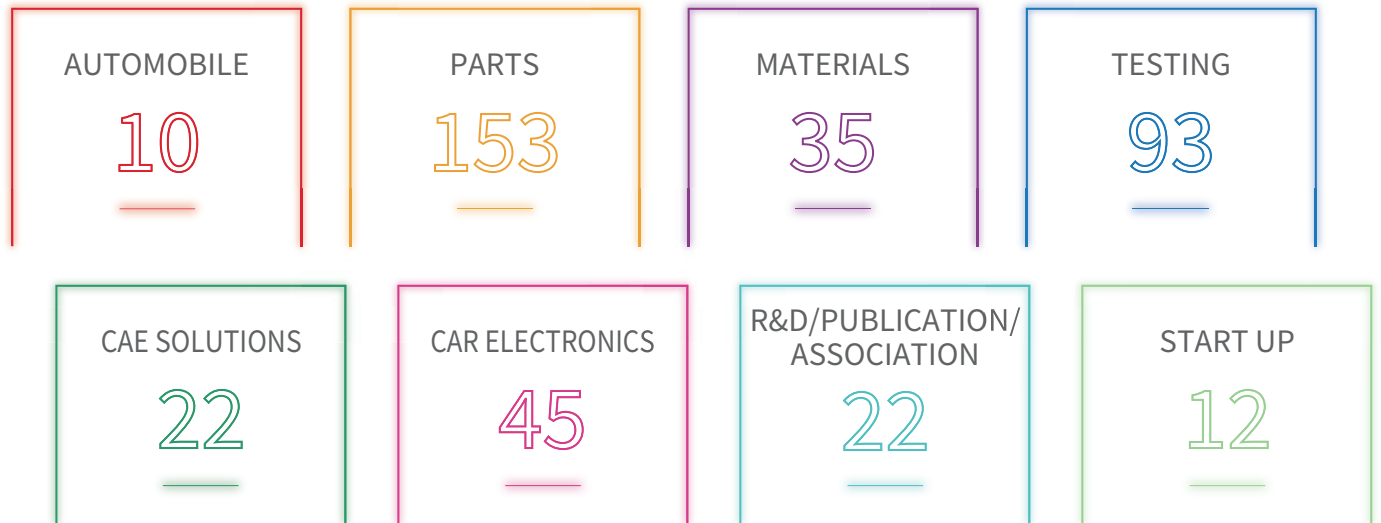
(Exhibitors listed in Japanese alphabetical order.)



# EXHIBITORS LIST ≡

THE NUMBER OF EXHIBITORS / **392 exhibitors**

THE NUMBER OF EXHIBIT BOOTHS / **859 booths**



\*Alphabetical order in each category.  
\* The "" mark indicates a joint exhibitor or a group exhibitor.

| AUTOMOBILE                           |   |
|--------------------------------------|---|
| Hino Motors, Ltd.                    | DIAMET CORPORATION                      |
| Honda Motor Co., Ltd.                | FALTEC Co., Ltd.                        |
| ISUZU MOTORS LIMITED                 | Fiem Industries Limited                 |
| Mazda Motor Corporation              | FTS Co., Ltd.                           |
| Mitsubishi Motors Co., Ltd.          | FUJISOFT Inc.                           |
| Nissan Motor Co., Ltd.               | FUKUJU INDUSTRY CO.,LTD                 |
| SUBARU Corp.                         | FURUKAWA ELECTRIC Co., Ltd.             |
| Suzuki Motor Corp.                   | GLOBETECH Inc.                          |
| TOYOTA AUTO BODY Co., Ltd.           | Harxon Corporation                      |
| Toyota Motor Corp.                   | HASHIBA INTERNATIONAL Inc.              |
|                                      | HEISHIN Ltd.                            |
| PARTS                                |   |
| A2Mac1 Japan Ltd.                    | HIROSE ELECTRIC Co., Ltd.               |
| AikoSpring Co., Ltd.                 | HONDA TSUSHIN KOGYO Co., Ltd.           |
| AISIN Corporation                    | HORI GLASS Co., Ltd.                    |
| ALTIA Co., Ltd.                      | HOTTY POLYMER Co., Ltd.                 |
| Biko Industry Co., Ltd.              | Hyundai Pavilion                        |
| Caillau Ltd.                         | ● KUM HO INDUSTRIAL                     |
| Correns Corporation (WAFIOS/PST/L+R) | ● DAE YOUNG MACHINERY                   |
| CPE ELECTRONICS Co., Ltd.            | ● NS WORLD                              |
| CWB Electronics Japan Co., Ltd.      | ● BIOLIGHT                              |
| Daidometal Co., Ltd.                 | ● HMG OFFICE                            |
| DAIICHI JITSUGYO Co., Ltd.           | ● ENA INDUSTRY                          |
| Daitron Co., Ltd.                    | ● DAS                                   |
| Dana Japan, Ltd.                     | ● SANYANG RUBBER                        |
| DENSHIJIKI INDUSTRY Co., Ltd.        | ● TESK                                  |
| DENSO Corp.                          | ● SJF                                   |
|                                      | ● KOREA LOST-WAX                        |
|                                      | ● G-Max                                 |
|                                      | ● SENSORTEC                             |
|                                      | ● DAEYANG TECH                          |
|                                      | ● AFS                                   |
|                                      | ● DKS                                   |
|                                      | ● DAOU PRECISION IND.                   |
|                                      | ● BONG IL METAL                         |
|                                      | ● GWANG SHIN GEAR                       |
|                                      | ● HYUNDAI POLYTECH                      |
|                                      | ● HYLIUM INDUSTRIES                     |
|                                      | Hyundai Polytech                        |
|                                      | ● Dongil Machinery                      |
|                                      | igus K.K.                               |
|                                      | illumination Co., Ltd.                  |
|                                      | indie Semiconductor Japan K.K.          |
|                                      | Institute for Information Industry(III) |
|                                      | IRISO Electronics Co., Ltd.             |
|                                      | JOMESA Japan K.K.                       |
|                                      | Kaminashi Inc.                          |
|                                      | KASAI KOGYO Co., Ltd.                   |
|                                      | KATO SEISAKUSHO Co., Ltd.               |
|                                      | Kawasaki Industrial Co., Ltd.           |
|                                      | KEEPER Co., Ltd.                        |
|                                      | KEL Corp.                               |
|                                      | Kimura Foundry Co., Ltd.                |
|                                      | ● Laubinger + Rickmann                  |
|                                      | KITAGAWA INDUSTRIES Co., Ltd.           |



# EXHIBITORS LIST ☰

|  |   |  |
|--|---|--|
| Knorr-Bremse Commercial Vehicle Systems Japan Ltd. | ● ASAHI TEKKO CO.,LTD.                              | Aica Kogyo Co., Ltd.                               |
| Knowles Electronics Japan K.K.                     | Nissin Manufacturing Co., Ltd.                      | ARKEMA   |
| KOIWAI Co., Ltd.                                   | NITTOSEIKO Co., Ltd.                                | ATG Hand Care (Pvt) Ltd.                           |
| Komine Musen Denki Co., Ltd.                       | NIX, Inc.   | Chemicals Evaluation and Research Institute, Japan |
| Kurashiki Kako Co., Ltd.                           | OGAWA INDUSTRY Corp.                                | Covestro Japan Ltd.                                |
| Kurimoto Co., Ltd.                                 | Okazaki Manufacturing Company Co., Ltd.             | DJK Corp.  |
| KYOWA KOGYO Co., Ltd.                              | Osaka Forming Co., Ltd.                             | DuPont Japan K.K.                                  |
| LCA Plus-Mitsui & Co.,LTD.                         | QMS Co., Ltd.                                       | Envalior Japan K.K.                                |
| Leaner Technologies Inc.                           | Resonac Corporation                                 | FUJIMORI Kogyo Co.,Ltd.                            |
| Manufacturing Support Center Shimosuwa             | RHYTHM Co., Ltd.                                    | GUNZE LIMITED                                      |
| ● CERIOTEC CO.,LTD                                 | Saint-Gobain K.K.                                   | Hangzhou Magnet Power Technology Co., Ltd.         |
| ● Yamato Denki Ind Co.,Ltd                         | SANEI Industries Co., Ltd.                          | Henkel Japan Ltd.                                  |
| ● INGS SHINANO Co.,Ltd.                            | SANJO MACHINE WORKS, Ltd.                           | KOBELCO GROUP                                      |
| ● NAGANO HIDAKA Co. Ltd.                           | Sanshu Wire-Harness Co., Ltd.                       | KURARAY Co., Ltd.                                  |
| ● ITO PARTS INDUSTRY CO.,LTD.                      | SHENZHEN HOVERBIRD ELECTRONICS TECHNOLOGY Co., Ltd. | KYORITSU ELEX Co., Ltd.                            |
| ● Kyoshin Seiko Co.,Ltd.                           | SHIGERU Co., Ltd.                                   | LINTEC Corp.                                       |
| Martinrea  | ● IBUKI Inc.  | Midori Auto Leather Co., Ltd.                      |
| Maxell, Ltd.                                       | SJM Co., Ltd.                                       | Mitsubishi Chemical Corp.                          |
| MD Electronics                                     | SMT Japan   | Mitsui Chemicals Inc.                              |
| METALART Corp.                                     | Stueken JAPAN                                       | Oji Holdings Corp.                                 |
| Miba Precision Components (China) Co., Ltd.        | Sumitomo Electric Industries Ltd.                   | Pro-pure Incorporation                             |
| MICRO FASTENERS Co., Ltd.                          | SWCC Corp.  | SABIC  |
| MinebeaMitsumi Inc.                                | TACHI-S Co., Ltd.                                   | San Fang Chemical Industry Co., Ltd.               |
| Mitec  | Taiho Kogyo Co., Ltd.                               | SEKISUI CHEMICAL Co., Ltd.                         |
| Mitsuboshi MFG Co., Ltd.                           | TAIYO MANUFACTURING Co., Ltd.                       | Sumitomo Chemical Co., Ltd.                        |
| Mouser Electronics Inc.                            | Takatori Corp.                                      | TATSUTA ELECTRIC WIRE & CABLE CO., LTD.            |
| ● YAGEO Group                                      | Tamachi Industries Co., Ltd.                        | TOPPAN Co., Ltd.                                   |
| ● Nisshinbo microdevice                            | TE Connectivity                                     | Toray Industries, Inc.                             |
| ● Vicor  | TODA RACING Co., Ltd.                               | TOYO DRILUBE Co., Ltd.                             |
| ● Nippon Chemicon                                  | TOKAIKOGYO CO., LTD.                                | TOYO MORTON Co., Ltd.                              |
| ● Bourns Inc                                       | ● Kaseikogyo Co., Ltd.                              | UACJ Corp.   |
| ● Analog Devices, Inc.                             | ● ADO Co.,Ltd.                                      | VisasQ Inc.  |
| Musashi Engineering Inc.                           | TOKIN Corp.   | Zeon Corp.   |
| NHK spring Co., Ltd.                               | TOP Co., Ltd.                                       | <b>TESTING</b>                                     |
| Nippon Cannon Inc.                                 | Topia Co., Ltd.                                     | A&D Co., Ltd.                                      |
| Nippon Donaldson, Ltd.                             | TPR Co., Ltd.                                       | ADVANTEST Corp.                                    |
| Nippon Light Metal Group                           | TRIS Inc.   | Allion Japan Inc.                                  |
| Nippon Tanshi Co., Ltd.                            | Union Gosei Co., Ltd.                               | ATESTEO Japan K.K.                                 |
| Nippon Vinylon Co., Ltd.                           | UNIVANCE Corp.                                      | AutoTechnicJapan Co., Ltd.                         |
| NISHIO CITY  | Witzenmann Japan K.K.                               | Carl Zeiss Co., Ltd.                               |
| ● Ohno Seiko Co.,Ltd.                              | YOKOI HD Co., Ltd.                                  | Chemitox Inc.                                      |
| ● MATIX Co., Ltd.                                  | <b>MATERIALS</b>                                    | CLEARIZE Co., Ltd.                                 |
| ● SEKISO Co.Ltd.                                   | ACHILLES Corp.                                      | DEWE Japan Co., Ltd.                               |
| ● Kanuc Co.Ltd                                     | AGC Inc.  | DIRECT Corp.                                       |

|   |  |   |
|---|--|---|
| Easy-Measure Co., Ltd.                          | Ono Sokki Co., Ltd.                              | BETA CAE Systems Japan Inc.                         |
| Enable Inc.                                     | Oxford Instruments K.K.                          | Dell Technologies Japan Inc.                        |
| EVIDENT Corp.                                   | PHOTRON LIMITED                                  | FORUM8 Co., Ltd.                                    |
| Fime Japan /Zimperium                           | Physix Technology Inc.                           | FOUNDATION FOR COMPUTATIONAL SCIENCE                |
| FT TECHNO Co., Ltd.                             | ● TechnoTeam Bildverarbeitung GmbH               | FsTech Inc.   |
| Fuji Ceramics Corporation                       | Polytec Japan                                    | GENIO Solutions Co., Ltd.                           |
| Fuji Technical Research Inc.                    | Pulstec Industrial Co., Ltd.                     | GeoTechnologies Inc.                                |
| fukuda Co., Ltd.                                | QMAIL  | IDAJ Co., Ltd.                                      |
| GAFS Co., Ltd.                                  | Rigaku Corporation                               | Integral Technology Co., Ltd.                       |
| HORIBA, Ltd.                                    | RION Co., Ltd.                                   | NewtonWorks Corp.                                   |
| Humanetics Innovative Solutions Japan K.K.      | SAGINOMIYA SEISAKUSHO, INC.                      | NTT DATA Automobiligence Research Center Ltd.       |
| IR System Co., Ltd.                             | SANKO Co., Ltd.                                  | Realis Simulation Inc.                              |
| ITK Engineering Japan Inc.                      | ● TUV Rheinland Japan Ltd.                       | rFpro Limited                                       |
| Japan Electric Meters Inspection Corporation    | ● NOISE LABORATORY CO.,LTD.                      | RICOS Co., Ltd.                                     |
| Japan Quality Assurance Organization            | ● FTS., LTD.                                     | Satyam-Venture Engineering Services Private Limited |
| JFE TECHNO-RESEARCH Corp.                       | ● HAKARU PLUS CORPORATION                        | SCSK Corp.  |
| KEYCOM Corp.                                    | ● Software Research Associates, Inc.             | SCTM Engineering Corp.                              |
| KIKUSUI ELECTRONICS Corp.                       | ● aptpod, Inc.                                   | Terrabyte Co., Ltd.                                 |
| KYOWA ELECTRONIC INSTRUMENTS Co., Ltd.          | Sanyo Trading Co., Ltd.                          | <b>CAR ELECTRONICS</b>                              |
| Laser Measurement Corp.                         | SGS Japan Inc.                                   | Advanced Data Controls Corp.                        |
| Leader Electronics Corp.                        | SHIMADZU Corp.                                   | Amphenol Japan Ltd.                                 |
| Loccioni Japan Co., Ltd.                        | ● Shimadzu Techno-Research, Inc.                 | ANALOG DEVICES K.K.                                 |
| Marubeni Information Systems Corp.              | STRINGO Co., Ltd.                                | ASTI Corp.  |
| ● Cybellum Technologies LTD.                    | SYSTEM PLUS Inc.                                 | Audiokinetic K.K.                                   |
| Marubun Corp.                                   | TAKASAGO, Ltd.                                   | Bell Energy K.K.                                    |
| MEIDENSHA Corp.                                 | Tec Gihan Co., Ltd.                              | Canon IT Solutions Inc.                             |
| MEIJI ELECTRIC INDUSTRIES Co., Ltd.             | TECNOS Co., Ltd.                                 | Chroma Japan Corp.                                  |
| ● Aixtal Co.,Ltd.                               | TESCO Corp.                                      | CRI Middleware Co., Ltd.                            |
| ● Anton Paar Japan K.K.                         | TOKYO BOEKI TECHNO-SYSTEM Ltd.                   | DynaComware Corporation                             |
| ● s.t.japan inc.                                | Tokyo Measuring Instruments Laboratory Co., Ltd. | Green Hills Software                                |
| ● ORIX Rentec Corporation                       | TOYO Corp.                                       | Harada Vehicle Design Co., Ltd.                     |
| ● Kawasaki Trading Co., Ltd.                    | Toyota Technical Development Co., Ltd.           | ION TECHNOLOGY CENTER Co., Ltd.                     |
| ● KEN AUTOMATION INC.                           | TSURUGA ELECTRIC CORPORATION                     | Japan Aviation Electronics Industry, Ltd.           |
| ● Comet Technologies Japan K.K                  | UL Japan Inc.                                    | MAC SYSTEMS Corp.                                   |
| ● TANIDA LTD.                                   | UNIPULSE Corp.                                   | ● IWATSU ELECTRIC CO.,LTD.                          |
| ● Yokogawa Test & Measurement Corporation       | VBOX JAPAN Inc.                                  | ● SMFL Rental Company, Limited                      |
| Myway Plus Corp.                                | WINDHILL Technologies Co., Ltd.                  | ● KUSUMOTO CHEMICALS,LTD.                           |
| nac Image Technology Inc.                       | WIZAPPLY Co., Ltd                                | ● SEKISUI CHEMICAL CO., LTD.                        |
| NFC Forum /Fime Japan                           | Yamamoto Scientific Tool Laboratory Co., Ltd.    | ● Daiwa Can Company                                 |
| NIKKO TECNO CO., INC.                           | <b>CAE SOLUTIONS</b>                             | ● DTS INSIGHT CORPORATION                           |
| ● LINNENBRINK TECHNIK WARBURG MASCHINENBAU GMBH | Ansys Japan K.K.                                 | ● TEXIO TECHNOLOGY CORPORATION                      |
| NIPPO CORPORATION                               | Applied Intuition Inc.                           | ● Teledyne LeCroy                                   |
| Nobby Tech. Ltd.                                | ASSIST ENGINEER Co., Ltd.                        | ● Japan Novel Corporation                           |
| OCTEC Inc.                                      | Basemark Oy                                      | ● HIOKI E.E. CORPORATION                            |

# EXHIBITORS LIST ☰

|   |                                     |
|---|-------------------------------------|
| ● YURIDENSHIBUHIHIN CO., LTD.                               | START UP                            |
| ● Rohde & Schwarz Japan                                     | AIHARA Lab. Hosei University        |
| ● AVSimulation  | CARBON FLY Inc.                     |
| ● TOKYO SEIMITSU CO., LTD.                                  | Elephantech Inc.                    |
| Murata Manufacturing Co., Ltd.                              | Kognic AB                           |
| NICHICON Corp.  | LEAN PATH Inc.                      |
| Nihon Synopsys G.K.   | MARK ABILITY CORPORATION            |
| Nippon TV / NTT DATA  | Motion Lib, Inc.                    |
| NRA Dynamics AB   | PatSnap Pte. Ltd.                   |
| Nuvoton Technology Corporation Japan                        | RENATA MECHATRONICS PRIVATE LIMITED |
| Opsoc Ltd.  | SiB Co., Ltd.                       |
| PUES Corp.  | TRANSMIT Co., Ltd.                  |
| Qt Group  | Xenoma Inc.                         |
| SOLIZE Corporation  |                                     |
| TAIYO YUDEN Co., Ltd.                                       |                                     |
| Techno-Accel Networks Corp.                                 |                                     |
| TEN Corporation   |                                     |
| ● Connect Co., Ltd  |                                     |
| Texas Instruments Japan Ltd.                                |                                     |
| Thundersoft Japan Co., Ltd.                                 |                                     |
| <b>R&amp;D/PUBLICATION/ASSOCIATION</b>                      |                                     |
| AIR WATER INC.  |                                     |
| ARCHIVETIPS Inc.  |                                     |
| Correns Corporation (Doss Visual Solution)                  |                                     |
| ● Doss Visual Solution                                      |                                     |
| DAD Co., Ltd.   |                                     |
| DeepL Japan G.K.  |                                     |
| Gifu Prefecture   |                                     |
| ● CENTRAL FINE TOOL CO.,LTD                                 |                                     |
| ● TOBA KOSAN CO.,LTD  |                                     |
| ● NAKAHYO CO.,LTD   |                                     |
| ● MAMIYA KANAGATA CO.,LTD                                   |                                     |
| Hashimotoya Co., Ltd.                                       |                                     |
| HELTEC Co., Ltd.  |                                     |
| JASCO INTERNATIONAL Co., Ltd.                               |                                     |
| Kawamura International Co., Ltd.                            |                                     |
| Misaki Design   |                                     |
| S&P Global Mobility   |                                     |
| Skydisc, Inc.   |                                     |
| Tebiki Inc.   |                                     |
| Tokyo Metropolitan Industrial Technology Research Institute |                                     |
| Uzabase, Inc.   |                                     |
| YOLE GROUP  |                                     |

# JSAE SPECIAL EXHIBITS



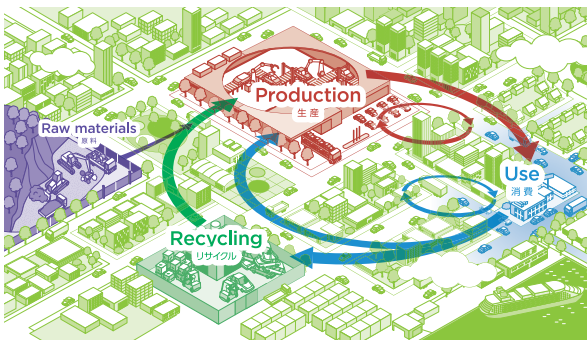
## Gathering the collective wisdom of the automotive industry for carbon neutrality and the recycling-oriented society of the future.

As we face up to “The triple planetary crisis” of climate change, biodiversity loss, and pollution, we have been reminded that the planet is a finite resource. Over the past few years, Japan and many other countries and regions around the world have begun to accelerate their efforts toward achieving carbon neutrality by 2050 and realizing a sustainable economy through changing and improving the nature of society. The keys to these efforts are creative collaboration and the circular economy.

To successfully implement these efforts, we must move on from the conventional linear process of resource exploitation, manufacturing, and disposal, to a socially oriented circular system focused on the 4Rs, which supplements the well-known concept of the 3Rs (reduce, reuse, and recycle) with a fourth “R”: renewable. The realization of a socially oriented circular system is not simply a question of recycling waste. Each and every one of us must shift our value standards toward responsible manufacturing and responsible use. Progress toward decarbonization that focuses on the whole vehicle lifecycle depends on us questioning conventional wisdom, looking at things from new perspectives, and taking on the challenges involved through a process of creative collaboration with new partners.

We must ask ourselves, “What technologies will make people and the world happy?” and work to build new value chains with these partners. We hope that everyone involved in the world of cars can meet at the Automotive Engineering Exposition 2024 and showcase our collective wisdom.

## Using our knowledge, skill, and craftsmanship to realize a circular society across the whole value chain!



The Nagoya exposition showcases the creative collaboration between the automotive industry and a wide range of new partners to help realize a circular society across the whole value chain. Using “circular” as a key word, Nagoya features exhibitions about the calculation of greenhouse gas (GHG) emissions throughout the vehicle life cycle, effective methods of traceability for reducing our carbon footprint and reusing resources, and technologies adopted by various industries to recover and sort resources from end-of-life vehicles. We hope that this will be the ideal forum for the whole industry to come together and consider how we can use our knowledge, skill, and craftsmanship to help achieve a circular society.

### Exhibit collaborators and organizations

DENSO CORPORATION / Honda R&D Co.,Ltd. / JATCO Ltd / Mazda Motor Corporation / MITSUBISHI ELECTRIC CORPORATION / Shizuoka University / SOLIZE Corporation / Suzuki Motor Corporation / TBM Co., Ltd. / Tokoro Laboratory, Waseda University / Toray Industries, Inc. / TOYOTA AUTO BODY CO.,LTD. / Toyota Motor Corporation / TOYOTA TSUSHO CORPORATION / Uchiyama Manufacturing Corp. / ZEPHYR CORPORATION / Zeroboard Inc. (in alphabetical order)



## JSAE Special Presentations

Presentations were held based on the exposition theme set by the JSAE.

|                              |                              |   |
|------------------------------|------------------------------|---|
| <b>Wed.,<br/>July<br/>17</b> | <b>11:00<br/> <br/>12:00</b> | <p><b>The Fifth Basic Circular Society Plan and latest trends in vehicle-related policies</b></p> <p><b>Momoko Yuyama</b><br/>Deputy Director Environment Regeneration and Resource Circulation Bureau Office for Recycling Promotion, Policy and Coordination Division, Ministry of the Environment, Government of Japan</p> |
| <b>Fri.,<br/>July<br/>19</b> | <b>11:00<br/> <br/>12:00</b> | <p><b>Strategy for developing dismantling and separation technologies and processes to support the circular economy</b></p> <p><b>Chiharu Tokoro</b><br/>Professor Faculty of Science and Engineering Faculty of Engineering<br/>Waseda University The University of Tokyo</p>  |

## Autonomous Driving Presentations

Presentations were held on the theme of autonomous and automated driving.

|                              |                              |  |
|------------------------------|------------------------------|--|
| <b>Thu.,<br/>July<br/>18</b> | <b>11:00<br/> <br/>12:00</b> | <p><b>Mobility innovation: social implementation and the future of autonomous driving</b></p> <p><b>Yoshihiro Suda</b><br/>Professor Advanced Mobility Research Center, Institute of Industrial Science (IIS) &amp; Mobility Innovation Collaborative Research Organization (UTmobi)<br/>University of Tokyo</p> |
|                              | <b>13:30<br/> <br/>14:30</b> | <p><b>The impact of autonomous driving on cities</b></p> <p><b>Takayuki Morikawa</b><br/>Designated Professor Global Research Institute for Mobility in Society<br/>Nagoya University</p>  |
|                              | <b>16:00<br/> <br/>17:00</b> | <p><b>The promotion of autonomous driving and the Aichi Digital Island Project</b></p> <p><b>Etsuko Uehara</b><br/>Assistant Director Next Generation Industry Section<br/>Aichi Prefectural Government</p>  |


## JSAE Chubu Branch Special Presentations

Presentations were carried out by the Chubu Branch of the JSAE.

|                              |                              |   |
|------------------------------|------------------------------|---|
| <b>Wed.,<br/>July<br/>17</b> | <b>10:00<br/> <br/>11:00</b> | <p><b>Development of mobility systems to facilitate the more effective use of Evs</b></p> <p><b>Kinya Nakatsu</b><br/>Distinguished Researcher R&amp;D Group<br/>Hitachi, Ltd.</p>                      |
|                              | <b>16:00<br/> <br/>17:00</b> | <p><b>Digitalization of forestry-related information and CO2 absorption amounts</b></p> <p><b>Kazukiyo Yamamoto</b><br/>Professor Graduate School of Bioagricultural Sciences<br/>Nagoya University</p> |

## Special Presentations about Technological Development

Available online only: Special presentations were held in which vehicle developers described the passion and dedication they bring to carmaking.

|   |   |   |
|---|---|---|
| <b>Tue.,<br/>July<br/>16</b><br>10:00 a.m.<br> <br><b>Fri.,<br/>July<br/>19</b><br>23:59 p.m. | <h3>The 16th generation Crown</h3> <ol style="list-style-type: none"> <li>1. History of “Innovation” and “Challenge”</li> <li>2. Development of the 16th Generation CROWN</li> <li>3. Interview with the Developers of CROWN “CROSSOVER”</li> <li>4. Development of CROWN “SPORT”</li> <li>5. Development of CROWN “SEDAN”</li> <li>6. “Company System” and “TNGA”</li> </ol> |  <p><b>Ryotaro Shimizu</b><br/>Chief Engineer<br/>Mid-size Vehicle Company,<br/>Toyota Motor Corporation</p> |
|---|---|---|

### Photographs from the presentations



JSAE Special Presentations / Chiharu Tokoro



Autonomous Driving Presentations / Yoshihiro Suda



JSAE Chubu Branch Special Presentations / Kinya Nakatsu



## JSAE Chubu Branch Research Report Sessions

Research reports were presented primarily presented by engineers belonging to the Chubu Branch of the JSAE.

Thursday, July 18 / Venue1

|  |   |
|--|---|
| <b>Chassis • Body</b><br>10:15-11:25                                   | <b>Research on Broadband Acoustic Control Technology for Interior Noise in Electric Vehicles</b><br>Yuta Oba Toyama Prefectural University              |
|  | <b>Vehicle development using brake CAE</b><br>Kenji Nagura Mitsubishi Motors Corporation  |
|  | <b>Study of state estimation using neural machine translation for semi-active suspension</b><br>Riku Wakita AISIN CORPORATION                           |
| <b>Non section</b><br>11:45-12:55                                      | <b>Dynamic Performance Design Methodology for Automotive</b><br>Sho Kobayashi Toyama Prefectural University   |
|  | <b>The Development of Seat Heaters in Cabin Heat Management Using a Numerical Thermoregulation-Model</b><br>Kenichi Sakamoto TOYOTA BOSHOKU CORPORATION |
|  | <b>Hierarchical structuring the seating comfort of electrically assisted bicycle saddles</b><br>Yasuko Koseki YAMAHA MOTOR CO., LTD                     |
| <b>Production engineering /Core technologies</b><br>13:40-14:50        | <b>High productivity technology for FC separators using carbon resin composite materials</b><br>Takamasa Kanie Toyota Auto Body Co., Ltd.               |
|  | <b>2tone paint process by passing top coat paint once</b><br>Kohei Shikanai Toyota Motor East Japan, Inc.   |
|  | <b>A study on the improvement of fade resistance for brake pads</b><br>Junichi Ujita ADVICS CO.,LTD.  |
| <b>Environment Technology/ Non section /CASE • MaaS</b><br>15:10-16:45 | <b>Consideration Regarding Drag Torque Reduction of Disc Brakes</b><br>Takashi Shimizu ADVICS CO.,LTD.  |
|  | <b>Development of High Impact Resistant Silver Metallic Resin</b><br>Takaomi Endo SUZUKI MOTOR CORPORATION  |
|  | <b>Haptics based collaborative steering framework named "Pairedriver®" for automated driving</b><br>Tomohiro Nakade JTEKT CORPORATION                   |

Thursday, July 18 / Venue2

|  |  |
|--|--|
| <b>Core Technology /Non section</b><br>10:15-11:25   | <b>QoS Evaluation for ATS and CBS over Ethernet-Based In-Vehicle Network with Use Case in IEEE P802.1DG</b><br>Akari Yoshimura Nagoya Institute of Technology  |
|  | <b>Quantitative Evaluation of Effect of Congestion on Accuracy in IEEE 802.1AS Time Synchronization over Ethernet-Based in-vehicle Networks</b><br>Maika Koizumi Nagoya Institute of Technology  |
|  | <b>A Study on Controls by P4 Programming for Implementation of Automotive SDN</b><br>Yuma Sakurai Nagoya Institute of Technology   |
| <b>Electronics /Non section</b><br>11:45-12:55       | <b>Reduction of mechanical vibration by biogenic shaped polymers with hard and soft parts without joints</b><br>Tatsuya Inoue Toyama Prefectural University  |
|  | <b>Research on fast-response gas sensing using MEMS technology and novel nano-gap electrodes</b><br>Tomoki Kondo Niterra Co., Ltd.   |
|  | <b>Development of luminescence/millimeter wave transmission emblems</b><br>Atsushi Kumo TOYODA GOSEI Co., Ltd.   |
| <b>Powertrain</b><br>13:40-14:50                     | <b>Study on Improvement of Mixture Homogeneity of Hydrogen Engine by Jet</b><br>Yasuhiro Sogabe DENSO CORPORATION  |
|  | <b>Challenges in CAE modeling of H2 Engines</b><br>Kishal Saxena Yamaha Motor Company Limited  |
|  | <b>Identification of abnormal noise mechanism in hydraulic system using fluid analysis</b><br>Masaru Shimada Jatco Engineering Ltd.  |
| <b>Powertrain/ Non section Safety</b><br>15:10-16:45 | <b>Combination of dissimilar overlay materials for engine bearing life extension</b><br>Yuma Haneda Daido Metal Co., Ltd.  |
|  | <b>Methods for supporting resident-led community place creation, and the value of the community place for residents-Action research for high-rise housing development residents of Nagoya city-</b><br>Yoko Kumai Toyota Central R&D Labs., Inc. |
|  | <b>Data analysis and efficiency using human-centric measurement and machine learning</b><br>Shotaroh Noguchi Toyota Technical Development Corporation  |
|  | <b>Development of Simulation-Based Method for Estimation of Collision Avoidance Benefit of Automatic Emergency Braking and Lane Departure Warning in Traffic Collisions</b><br>Nana Takeuchi TOYOTA MOTOR CORPORATION                            |

# EVENTS

## Forum NAGOYA

Presentations were held describing the latest trends and future prospects affecting automotive technology, the automotive industry, and related fields.

|                    |                     |   |
|--------------------|---------------------|---|
| <b>7/17</b><br>WED | 13:00<br> <br>17:00 | <b>Thoughts about future mobility: Learning about electrification and decarbonization</b><br>Organized by: Electric Drive Technology Committee/Motor Technology Committee/Energy Storage System Technologies Committee /Automotive Power Electronics Technology Committee |
| <b>7/18</b><br>THU | 13:00<br> <br>17:00 | <b>Sustainable mobility society from the perspective of urban planning</b><br>Organized by: Sustainable Mobility Society Study Committee/Mobility Society Committee   |
| <b>7/19</b><br>FRI | 13:00<br> <br>17:00 | <b>Powertrain strategies and related technological trends</b><br>- Potential of the internal combustion engine for helping to realize carbon neutrality in 2050 -<br>Organized by: Gasoline Engine Committee  |



## 2024 Student Formula Japan PR corner

Cars due to compete in the 2024 Student Formula Japan event in September were exhibited.

### - Exhibiting teams -

- Toyohashi University of Technology (EV)
- Nagoya Institute of Technology (EV)



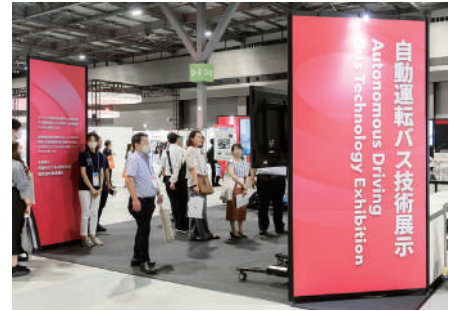


# EVENTS

## Riding Experience on an Autonomous Bus

Test rides on a level 2 autonomous bus driven by the latest technology were made available. This bus incorporated lane keeping controls featuring highly precise positioning technology and object detection functions via multiple sensing technologies.

(Event held with support from) Advanced Smart Mobility Co., Ltd.



## Exhibition of Vehicles Featuring the Latest Technologies

This exhibition showcased a collection of vehicles equipped with the latest technologies as a learning experience for visitors.

### — Exhibited Vehicles —

- |                          |                                     |
|--------------------------|-------------------------------------|
| <b>ISUZU</b>             | GIGA                                |
| <b>HINO</b>              | Fuel cell electric heavy-duty truck |
| <b>HINO</b>              | N-MOBI                              |
| <b>NISSAN</b>            | ARIYA                               |
| <b>TOYOTA</b>            | CROWN “CROSSOVER”                   |
| <b>TOYOTA</b>            | CROWN “SPORT”                       |
| <b>MAZDA</b>             | MX-30 ROTARY-EV                     |
| <b>MITSUBISHI MOTORS</b> | TRITON                              |
| <b>HONDA</b>             | N-VAN e:                            |
| <b>HONDA</b>             | SC e: Concept                       |
| <b>YAMAHA</b>            | ELOVE(AMSAS)                        |
| <b>YAMAHA</b>            | MOTORiD2                            |





# EVENTS

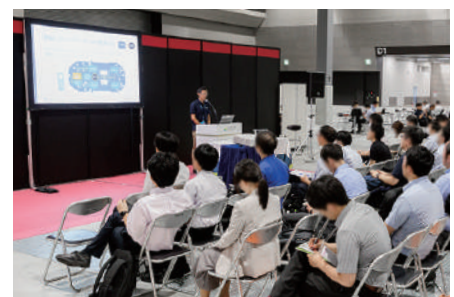
## Exhibitors Seminar

We held an on-site product and technology introduction seminar by exhibitors for the first time in five years.

Exhibitors provided detailed information about their products, technologies, and company/industry through 30-minute presentations.

|                                    |   |
|------------------------------------|---|
| ANALOG DEVICES K.K.                | Vehicle architecture trends and on-board networks   |
| Witzenmann Japan K.K.              | Development of flexible metal hose for R744 (CO2) air conditioning systems compliant with PFAS regulations  |
| A2Mac1 Japan Ltd.                  | Initiative for visualizing software development costs   |
| S&P Global Mobility                | Approach of automotive part manufacturers toward 2030 as electrification progresses   |
| SMT Japan                          | High-speed design process for three-axis EV gear box using the MASTA gear specification optimization tool   |
| SCSK Corp.                         | Utilization of SIGMASOFT plastic molding process simulation software for low cost and quality   |
| SCSK Corp.                         | Sophisticated digital engineering utilizing CAE and AI  |
| SCSK Corp.                         | Data-driven material development for the realization of a circular society: Introduction of optimization methods for recycling and compounding                  |
| SCSK Corp.                         | Introduction of ToffeeX CAE tool for cooling structure design support and example applications by SOLIZE Corporation  |
| OCTEC Inc.                         | OCTEC High Brightness Display Product Lineup for Each Need<br>Introduction of micro sound measurement using low-noise microphone to support the                 |
| Ono Sokki Co., Ltd.                | development of even more comfortable interior sound environments  |
| SANKO Co., Ltd.                    | Latest information about changes in draft UNECE R10.07 from version 06  |
| TOYO Corp.                         | Secure management of data used for regulatory certification or under development:<br>Long-term storage method for data alteration prevention and AI utilization |
| Nihon Synopsys G.K.                | What can the optical products from Synopsys do for onboard applications?  |
| Nippon TV / NTT DATA               | Personal information protection in the utilization of drive recorder and on-board camera images: The BlurOn AI mosaic tool                                      |
| Vicor                              | Power supply architecture for next generation EVs and SDVs constructed using the Vicor module   |
| VisasQ Inc.                        | Bring the knowledge of more than 600,000 people in house! Focusing on the utilization of critical primary information for research and development              |
| HORIBA, Ltd.                       | Next-generation mobile emissions measurement system using IRLAM™ measurement technologies   |
| HORIBA, Ltd.                       | The role of the STARS automation system in helping to realize a multi-pathway strategy  |
| Marubeni Information Systems Corp. | Managing Cyber Risk with Cybellum   |
| Musashi Engineering Inc.           | Dispenser-based heat countermeasure solutions and latest trends   |

(Exhibitors listed in Japanese alphabetical order.)



This exposition was covered in a wide range of media.

Television 

|                                |                 |      |
|--------------------------------|-----------------|------|
| Nagoya Broadcasting Network    | “Dodesuka plus” | 7/17 |
| Japan Broadcasting Corporation | “marutto”       | 7/17 |

WEB 

( in alphabetical order)

|                    |                           |
|--------------------|---------------------------|
| AFP BB News        | Kuruma no News            |
| AUTO MESSE WEB     | livedoor News             |
| BIGLOBE            | Mapion News               |
| Car-nalism         | MEZAMASHI media           |
| Car& Leisure       | MOTA                      |
| carview!           | NHK web                   |
| CREA WEB           | Niconico News             |
| DEMPA PUBLICATIONS | nifty news                |
| DreamNews          | Response                  |
| excite News        | THE MAINICHI NEWSPAPERS   |
| EXHIBITION & MICE  | web                       |
| Gomu times         | THE MID-JAPAN ECONOMIST   |
| goo News           | WEB                       |
| ITS-P21            | THE OWNER DRIVER          |
| iZa                | Tokai NEWS WEB            |
| JIJI.COM           | Tomikawa Yuta's Instagram |

Newspaper / magazine 

|                         |                                |
|-------------------------|--------------------------------|
| Nikkan Kogyo Shimbun    | 6/27、7/17、7/18                 |
| Nikkan Jidosha Shimbun  | 7/2、7/8、7/17、7/18<br>7/19、7/26 |
| THE MID-JAPAN ECONOMIST | 7/17、7/18                      |
| The Chunichi Shimbun    | 7/18                           |
| Service Strategy        | 7/26                           |

There was interest from wide-ranging media sources.

Total **45** \*Including freelancers 34(2023)  
(in alphabetical order)

|   |                                       |   |
|---|---------------------------------------|---|
| Aichi Television Broadcasting Co., Ltd.     | Max Media Lab Inc.                    | Pico Knowledge Inc.                             |
| AlphaBloom                                  | Mediagene Inc.                        | R photo   |
| Automobile Journalists Association of Japan | mediavague Co.,Ltd.                   | Sanei Co., Ltd.                                 |
| BASE BRAIN WORK Inc.                        | Mynavi Corporation                    | Sangyo Shimbunsha Chubu branch                  |
| CARNERU Inc.                                | Nagoya Broadcasting Network Co., Ltd. | Specified Nonprofit Corporation ITS Platform 21 |
| Chububroadmedia Inc.                        | News Digest Publishing Co., Ltd.      | Tech-T Corporation                              |
| Converting Technical Institute              | NHK Nagoya Broadcasting Station       | The Asahi Shimbun Company                       |
| Dempa Publications' Inc. Nagoya branch      | NIKKAN JIDOSHA SHIMBUN,LTD.           | The Chemical Daily Co., Ltd                     |
| Fastening Journal Co., Ltd.                 | NIKKAN KOGYO SHIMBUN Hamamatsu        | The Chunichi Shimbun                            |
| FOURIN, Inc.                                | NIKKAN KOGYO SHIMBUN Hiroshima        | The Chunichi Shimbun Handa branch               |
| IID, Inc.                                   | NIKKAN KOGYO SHIMBUN Nagoya           | THE MID-JAPAN ECONOMIST                         |
| Japan Metal Daily                           | Nikkei Business Publications, Inc.    | The Yomiuri Shimbun                             |
| Jiyudo                                      | Nikkei Inc                            | The Yomiuri Shimbun Chub branch                 |
| LEC, Inc.                                   | Nikkei Inc Nagoya branch              | Tokoname City Office                            |
| MarkLines Co., Ltd.                         | Office BlueMountain                   | Toyota Motor Corporation                        |

## Schedule of next year's expositions

【Organizer】 Society of Automotive Engineering of Japan, Inc. (JSAE)



# 人とくるまのテクノロジー展

*Automotive Engineering Exposition*

**YOKOHAMA** Pacifico Yokohama

**2025 5/21** (Wed.) **22** (Thu.) **23** (Fri.)

**NAGOYA** Aichi Sky Expo

**2025 7/16** (Wed.) **17** (Thu.) **18** (Fri.)

The start of exhibitor applications is scheduled for some time in the autumn.  
Details will be posted on the official site at a later date.

Official web site



Inquiries about the content of the expositions or this report

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## 人とくるまのテクノロジー展 2024 NAGOYA

Automotive Engineering Exposition 2024 NAGOYA

### 【Organizer】

 Society of Automotive Engineers of Japan, Inc. (JSAE)

### 【Exposition Management Coordinator】

Taiseisha Ltd.

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🌐 <https://aee.expo-info.jsae.or.jp/ja/>