



TCT Japan 2023 Show Report

JTB Communication Design, Inc. / TCT Japan

April. 2023

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TCT Japan 2023



Highlight

TCT Japan 2023 Overview



TCT Japan 2023 -The Event for 3D Printing and Additive Manufacturing Intelligence-

Date : February 1st (Wed.) ~ 3rd (Fri.), 2023

Venue : Tokyo Big Sight (East Hall & Online)

| Date | Weather | Number of Visitors |
|---|---------|--------------------|
| February 1 st (Wed.) | | 8,653 |
| February 2 nd (Thu.) | | 10,750 |
| February 3 rd (Fri.) | | 11,734 |
| For 3 days <small>*total numbers of the concurrent exhibitions</small> | | 31,137 |

Concurrent exhibitions



Number of Exhibitors



95

Number of Booths



135

Number of Participants



40,170

*total numbers of the concurrent exhibitions
*Including participants online



Conferences/Seminars



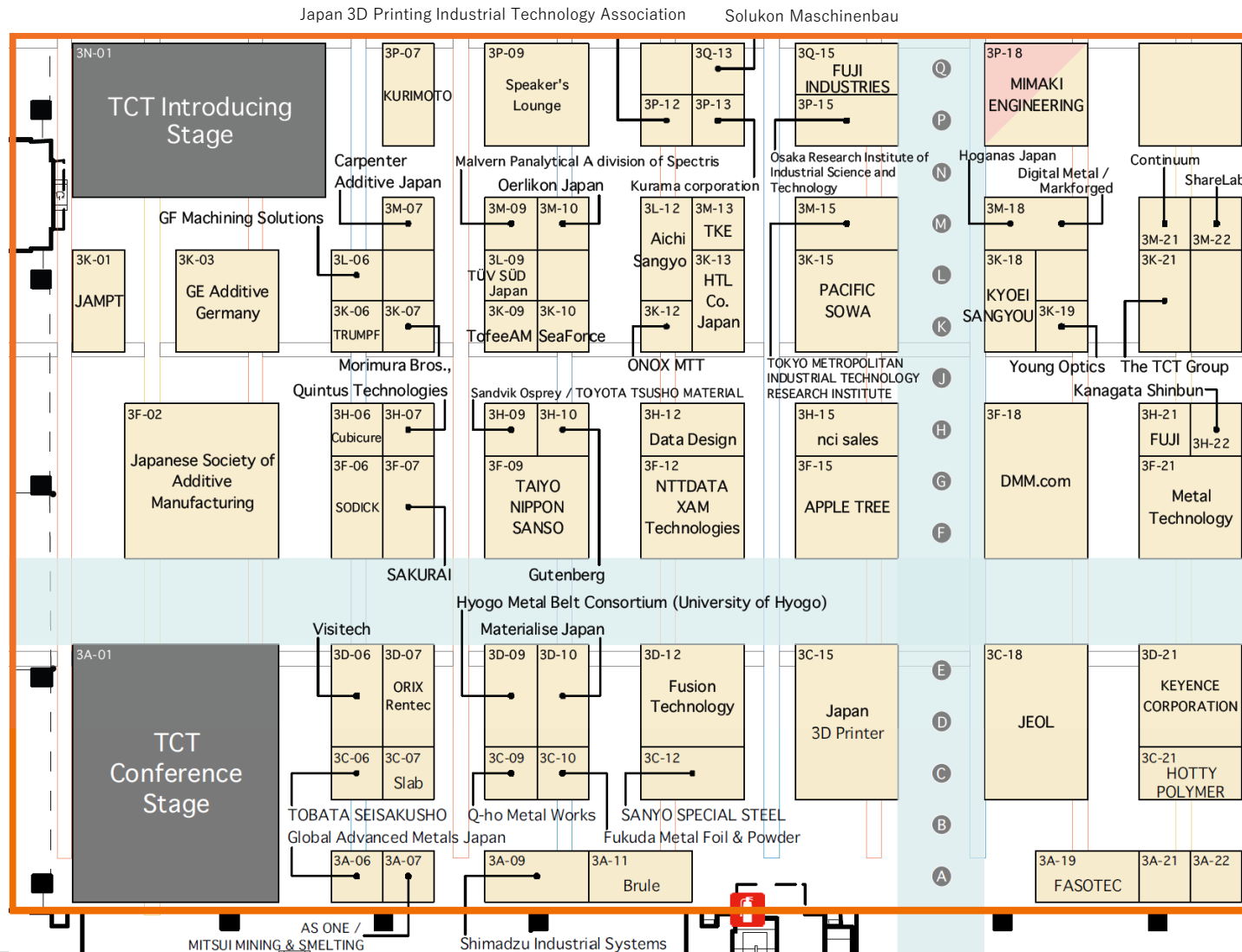
43

*Including Introducing Stage

Exhibitor List

| | | |
|---|---|---|
| Aichi Sangyo | JAMPT | Metal Technology |
| APPLE TREE | Japan 3D Printer | MIMAKI ENGINEERING |
| AS ONE | Japan 3D Printing Industrial Technology Association | Morimura Bros. |
| MITSUI MINING & SMELTING | NAGASE | nci sales |
| Brule | System Inn Nakagomi | NTT DATA XAM Technologies |
| Carpenter Additive Japan | Japanese Society of Additive Manufacturing | Oerlikon Japan |
| Continuum | TACHIBANA ELETECH | ONOX MTT |
| Cubicure | Kyoei Sangyo | ORIX Rentec |
| Data Design | J3D | Osaka Research Institute of Industrial Science and Technology |
| Digital Metal / Markforged | JBm Engineering Corporation. | PACIFIC SOWA |
| DMM.com | Osaka Yakin Kogyo | Q-ho Metal Works |
| FASOTEC | NIDEC MACHINE TOOL | Quintus Technologies |
| FUJI | Mitsubishi Electric Corporation | SAKURAI |
| FUJI INDUSTRIES | Yamaichi Special Steel | Sandvik Osprey / TOYOTA TSUSHO MATERIAL |
| Fukuda Metal Foil & Powder | Yasojima Proceed | SANYO SPECIAL STEEL |
| Fusion Technology | INFINI JAPAN | SeaForce |
| GE Additive Germany | MARUBENI INFORMATION SYSTEMS | ShareLab |
| GF Machining Solutions | IFUKU SEIMITSU | Shimadzu Industrial systems |
| Global Advanced Metals Japan | Fuji Koushuha | Slab |
| Gutenberg | CYFUSE BIOMEDICAL | SODICK |
| Hoganas Japan | Takenaka Corporation | Solukon Maschinenbau GmbH |
| HOTTY POLYMER | Keio University | TAIYO NIPPON SAN SO |
| HTL Co. Japan | YAMAGATA UNIVERSITY | TKE |
| Hyogo Metal Belt Consortium (University of Hyogo) | JEOL | TOBATA SEISAKUSHO |
| Research Center for Advanced Metallic Materials | JFE Engineering  | ToffeeAM |
| Hyogo Prefectural Institute of Technology | Kanagata Shinbun | TOKYO METROPOLITAN INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE |
| Kobe Material Testing Laboratory | KEYENCE CORPORATION | TRUMPF |
| NISSIN GIKEN | Kurama corporation | TÜV SÜD Japan |
| Koshuha | KURIMOTO | Visitech |
| Shinhoukoku Material | KYOEI SANGYOU | Young Optics |
| Niimi Sangyo | Malvern Panalytical A division of Spectris | |
| SK Fine | Materialise Japan |  Digital Exhibitor |

Floor Plan



Conference Day1 -Market Trends-



Opening remark

Rapid News Group
Chief Executive
Mr. Duncan Wood



Global industry overview : Facts, Figures and Future: Sizing and Forecasting the Global 3D Printing Market

CONTEXT
Vice President, Global Analysis
Mr. Chris Connery



AM Market Trend in Japan -2023 is the Year of Steps-

Yano Research Institute
Ms. Hiroko Koyama



Challenges for the next stage of Additive Manufacturing by Digital Transformation

One Additive Inc.
Co-Founder / CEO
Mr. Daisuke Tsuji



Product development and design using 3D printers

YOKOITO INC / NEW CRAFT HOUSE
Mr. Hiroshi Mitachi



The need for Industry Transformation in line with market changes and the use of 3 printing

PwC Consulting Strategy Consulting (Strategy&)
Mr. Yota Akaji

TCT Japan Conference Day 1 [EVALUATION - GLOBAL INDUSTRY OVERVIEW AND BUSINESS CONSIDERATIONS]

Organizer : TCT Japan

Cooperation : Japan 3D Printing Industrial Technology Association

Panel Discussion

Facilitator

ShareLab Editorial Office

Panelist

Gunma AM Platform Mr. Masamichi Ogawa

Japan 3D Printing Industrial Technology Association Mr. Koji Mitsumori

Hyogo Metal Belt Consortium Dr. AKIHIKO YANAGITANI

Japanese Society of Additive Manufacturing Mr. Sawakoshi Toshiyuki

Invited Lecture TCT HALL OF FAME MEMBERS SPEECH



Make a sustainable difference with 3D printing

Materialise NV
Founder and CEO
Mr. Wilfried Vancraen



Conference Day2 -Application-

TCT Japan Conference Day 2 [ADOPTION - APPLICATIONS]

Organizer : TCT Japan

Cooperation : Japan 3D Printing Industrial Technology Association



The Role of Additive Manufacturing in Industry 4.0 and Sustainability

The Boeing Company
Vice President, PhD

Dr. Melissa Orme



Development of high-strength Aluminum alloy by laser-based powder bed fusion

Honda R&D Co.,Ltd

Mr. Watanabe Hiroyuki



AM is welding itself

Mitsubishi Heavy Industries (MHI)

Dr. TAKASHI ISHIDE



Next-generation metal printed orthodontic device applying digital technology

Deutsche Dental & Orthodontic office/
Japanese Association of 3D Printing in Orthodontics

Dr. Shuji Yamaguchi



GE Additive Sponsored Lecture

Development of Die steel-based powder for mold and metal AM application expansion

GE Additive Mr. Tatsuya Hongo
Daido Steel Co.,Ltd Mr. Koichiro Inoue

The future drawn by Additive Manufacturing -to achieve both economic growth and solving social issues-

Organizer : Japan Society of Additive Manufacturing, TCT Japan

Cooperation : METI KANSAI, Kansai DX Implementation Initiative, Kansai-3Dtechnology Project



Greetings

The Kansai Bureau of Economy, Trade and Industry (METI-KANSAI)

Mr. Hiroyoshi KUROKI



3D Food Printers for Solving Problems and Co-Creating New Values

Yamagata University

Prof. Furukawa Hidemitsu



Seeds Paper Pavilion

Takenaka Corporation

Mr. Atsushi Yamazaki



Building a new industry of Bio 3D Printing Technology. Creation of functional 3D organ /tissue for regenerative medicine.

Cyfuse Biomedical K.K. (Japanese corporation)

Ms. AKIEDA Shizuka



Possibility of building a regional resource recycling system with 3D printing

Keio University

Digital Manufacturing and Design Research Center for Emergent Circularity

Mr. Ryohei Yuasa

Conference Day3 -Advanced research and development cases-



3D Printing Architecture: Towards Circularity and Resource Efficiency in Architecture by AM

Singapore University of Technology & Design, Architecture and Sustainable Design, Associate Professor

Prof. Carlos Banon



Anisotropic Custom Design by Metal 3D Printing

Osaka University
Division of Materials and Manufacturing Science, Graduate School of Engineering
Professor

Prof. Hiroyuki Yasuda



Introduction of "The Japanese Institute of Additive Manufacturing"

Osaka University

Mr. Maekawa Atushi



Development of functional transparent silica glass with various shape using 3D laser fabrication method

Global Innovation Center KYUSHU UNIVERSITY

Prof. SHIGERU FUJINO



Frontiers in Topology Optimization

The University of Tokyo
Graduate School of Engineering, Department of Strategic Studies, Institute of Engineering Innovation and Department of Mechanical Engineering
Associate Professor

Prof. Takayuki Yamada

TCT Japan Conference Day 3 【OPTIMIZATION - BREAKTHROUGHS AND FUTURE OPPORTUNITIES】

Organizer : TCT Japan

Cooperation : Japan 3D Printing Industrial Technology Association



Current Status and Future Prospects of Powder Bed Fusion Bonded Metal Fabrication Technology Using Electron Beam

Tohoku University
Institute for Materials Research

Prof. Chiba AKIHIKO



A Practical Guide to 3D Printing

Japan 3D Printing Industrial Technology Association
Researcher

Mr. Kiyoshi Yamaguchi



3D Printing Technical and Business Trend in Europe and US

Japan 3D Printing Industrial Technology Association

Mr. Hideaki Oba



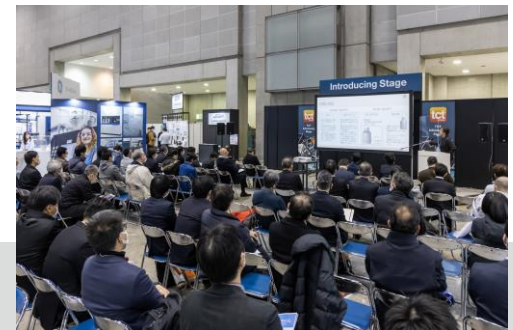
Why is it necessary to form a network with digital manufacturing technology at its core in order to solve recent social issues?

Yamagata University
Open Innovation Platform
General Creative Manager, Professor of Industry Relations

Dr. Sakai Shinri

TCT Introducing Stage

| | | | |
|-----|-------------|---|--|
| 2/1 | 11:20-11:50 | AS ONE / MITSUI MINING & SMELTING | High-quality ceramic 3D printing technology and the entrustment service |
| | 13:00-14:00 | Carpenter Additive Japan | Carpenter powders for rapidly growing AM applications |
| | 14:40-15:10 | Japan 3D Printer / Markforged JAPAN | Introducing Markforged Carbon Fiber 3D Printing AM solutions |
| | 15:45-16:45 | Materialise NV / Materialise Japan | Materialise CO-AM, Enabling the Factory of the Future |
| 2/2 | 10:30-11:00 | Continuum | Recycling: Path to Sustainability |
| | 11:20-11:50 | TAIYO NIPPON SANSO | Application development and Design Innovation by Support-less Additive Manufacturing |
| | 13:00-13:30 | FUJI | Combination of "Metal 3D Printer" and "5 Axis Machining" Makes A Brand New Technology Possible |
| | 13:50-14:20 | Osaka Research Institute of Industrial Science and Technology | Introducing ORIST "Technology Research & Innovation Center for 3D Printing" |
| | 14:40-15:10 | Shimadzu Industrial Systems | Introduction; Vacuum and Sintering Furnace for VHS-CUBE, |
| | 15:30-16:00 | EOS GmbH | Introduction of technology development and innovation projects undertaken by EOS |
| 2/3 | 10:30-11:00 | Oerlikon Japan | Latest Oerlikon AM solution in Germany and USA |
| | 11:20-11:50 | Digital Metal / Markforged | Digital Metal's Fast and Highly Detailed Metal Binder jet 3D printing and its Applications at Production Scale - presented by Markforged |
| | 12:10-12:40 | DataDesign | Realization of cost reduction/ROI improvement by utilizing 3D printers as jig production machines |
| | 13:00-13:30 | TRUMPF | TRUMPF 100 - Celebrating 100 years! The latest laser technologies and applications to Additive Manufacturing |
| | 13:50-14:20 | TÜV SÜD Japan | AM final production processes - Implementation of ISO/ASTM 52920 and Quality assurance |
| | 14:40-15:10 | Japan 3D Printer / ASICS / LUXCREO | ASICS ACTIBREEZE 3D PRINTED SANDAL - COOLEST SANDAL TO HELP A RECOVERING ATHLETE'S BODY AND MIND AFTER PERFORMANCE |



Promotion

Free Invitation letter (JP)



over 70,000 distributed*

Digital ver.

https://www.tctjapan.jp/TCT2023_invitation_jp.html

"TCT Magazine" Japan Edition limited distribution



E-mail Newsletters

over 12,000 Subscribers*



*Directly posted and distributed to previous participants, visit registrants, related exhibition, etc.

Press Releases

PR TIMES

Organizer's interview article

 **ShareLab NEWS**

Advertisement

Banner



Newspaper



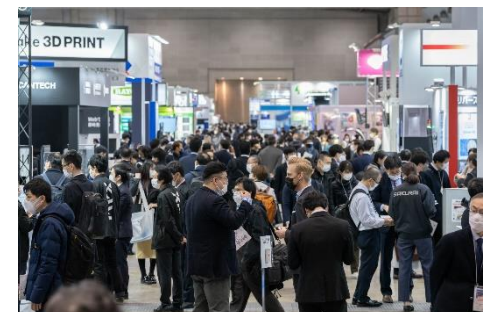
SNS



Official Twitter @TCT Japan
(Introduced exhibitors/seminars)

In addition, we have conducted PR activities in media outlets such as the following.
The Kanagata Shinbun, monodukuri.com, Itmedia(MONOist), i-MAKER, Printing Journal, MarkLines, Google search advertising, etc.

Scenery of the venue

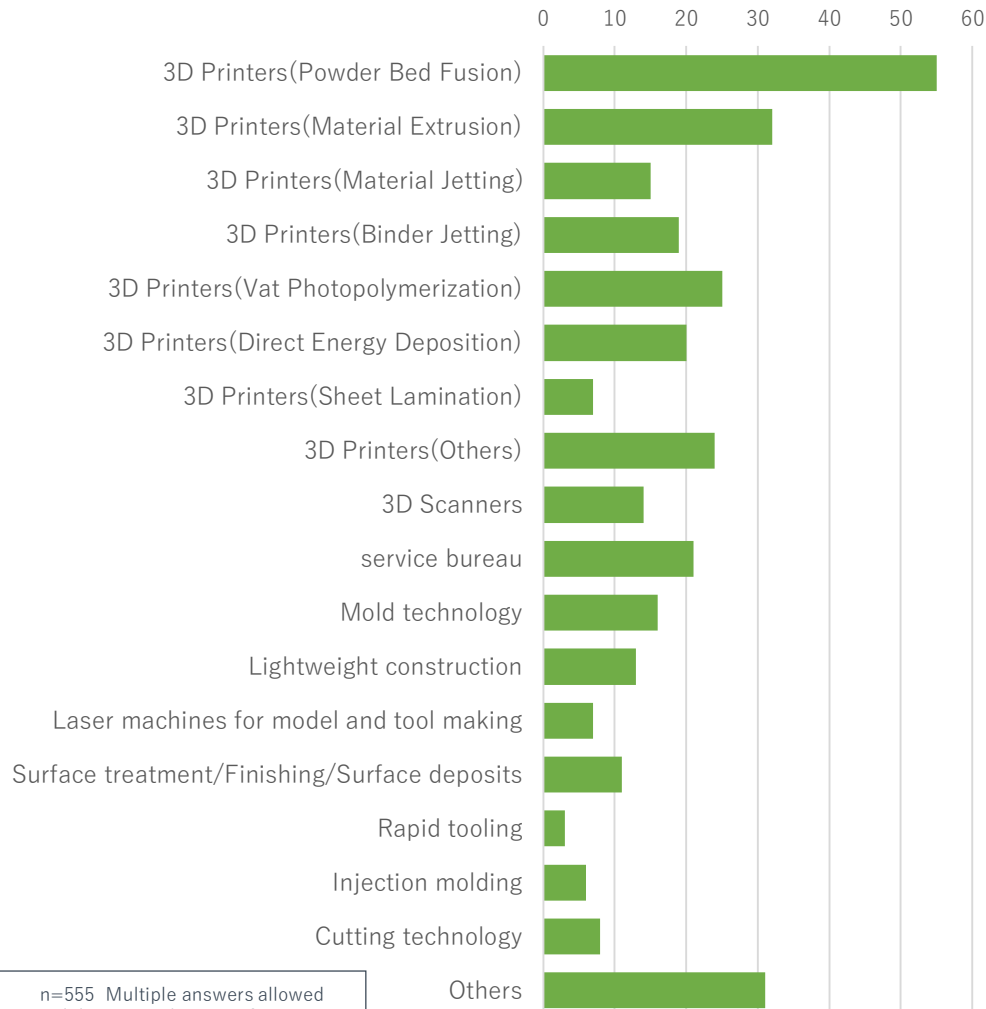




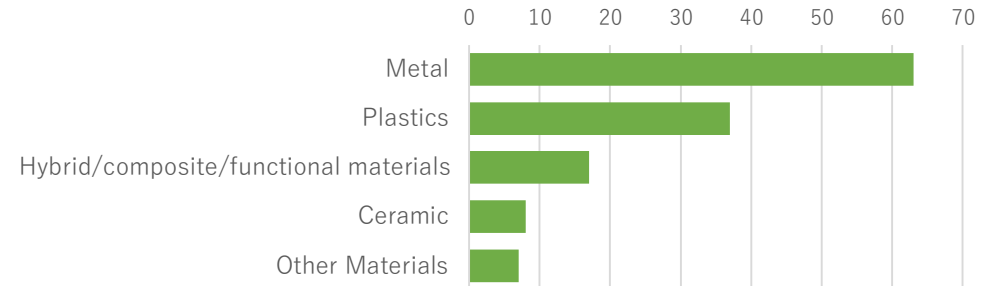
Exhibitor Data

Product/Technology

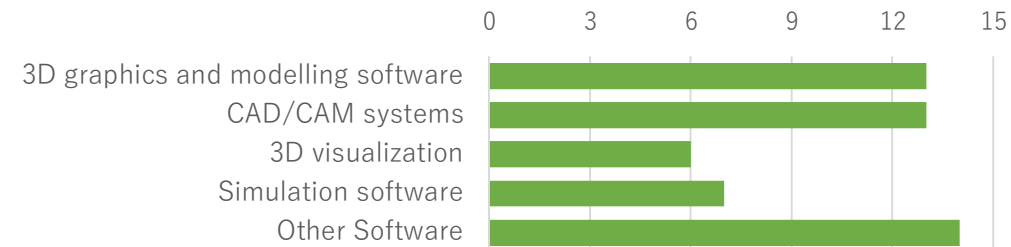
【Machines, equipments, tools, accessories/technologies】



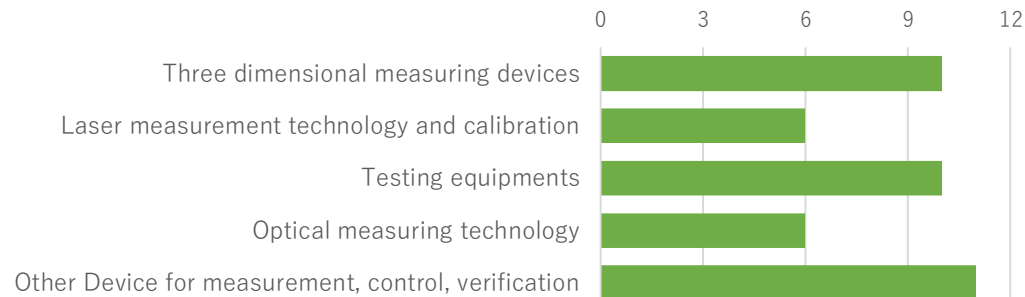
【Materials】



【Software】



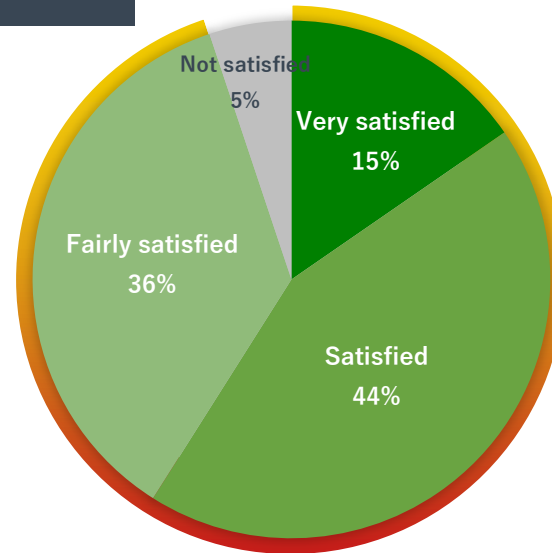
【Device for measurement, control, verification】



n=555 Multiple answers allowed
*Exhibitor search page information

Satisfaction level with exhibition achievements

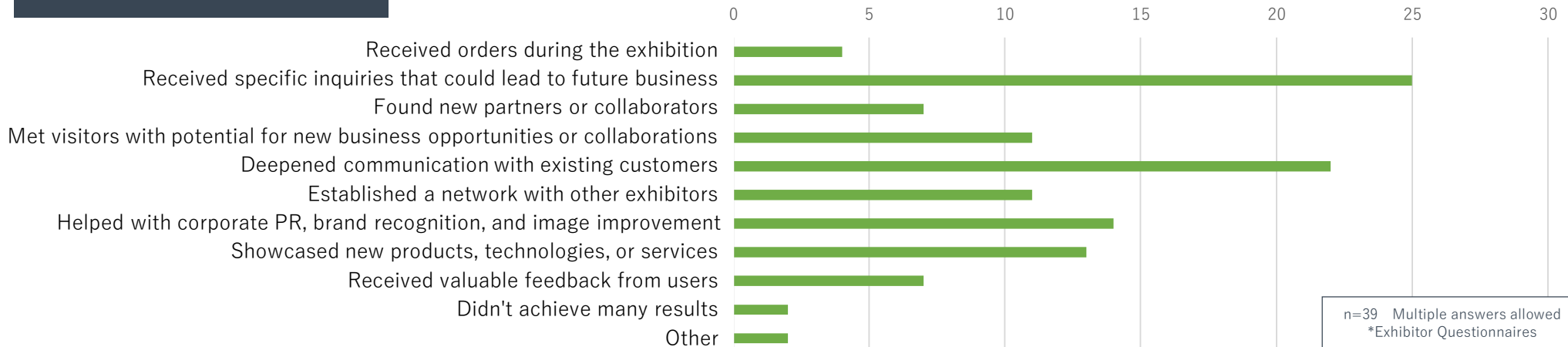
Satisfaction level with exhibition achievements



**95% of Exhibitors
answered “satisfied”**

n=39
*Exhibitor Questionnaires

Achievements of exhibit



n=39 Multiple answers allowed
*Exhibitor Questionnaires

Exhibitors' Feedback

It was great to have the opportunity to speak with people we wouldn't normally encounter and heard their specific needs, such as **major heavy industry manufacturers and aerospace industry professionals**.

Thanks to the size and high profile of the exhibition, we were able to connect with **unexpected industry professionals**.

By demonstrating the machines in action, we were able to **seize opportunities to approach new clients** who could experience the benefits firsthand.

There were several projects that led to meetings **immediately after the exhibition ended**.

We were able to meet a metal AM user whom we had not been in contact with before.

Lots of **visitors with basic knowledge** attended.

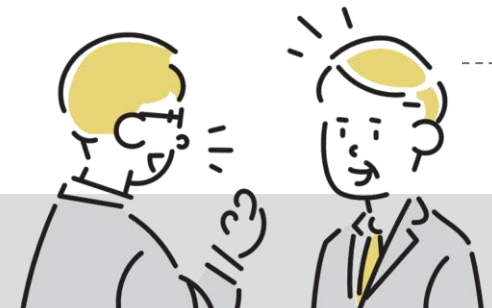
We were satisfied with both **quality and quantity of visitors**.

The information gained at the exhibition seems to be **immediately applicable to our future marketing activities**.

We are **very satisfied** as there were **many visitors from our target market**.

Two **media companies featured us** in their articles, and the resulting impact was significant, **leading to many inquiries and developing into business negotiations**.

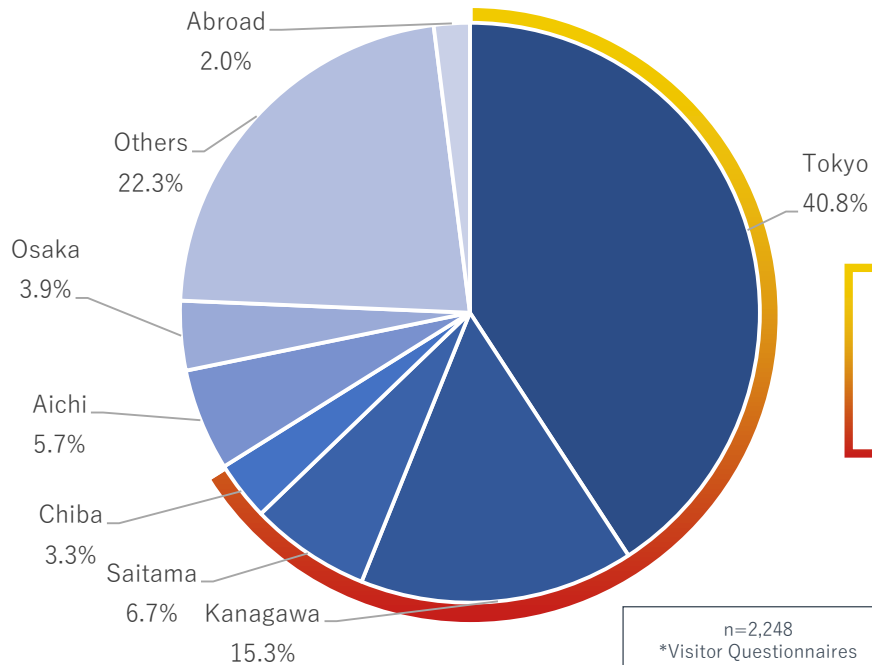
n=39
*Exhibitor Questionnaires





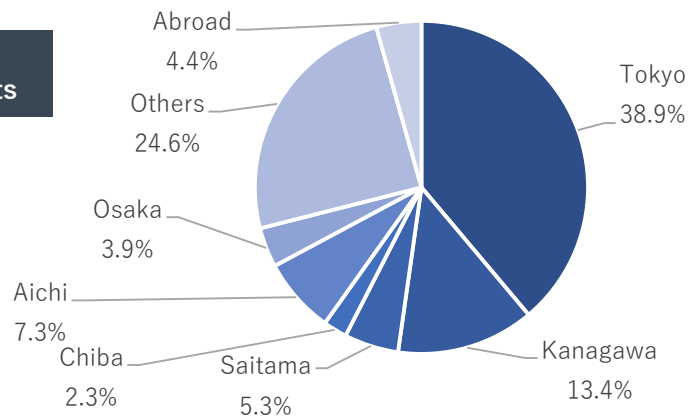
Visitor Data

Regions



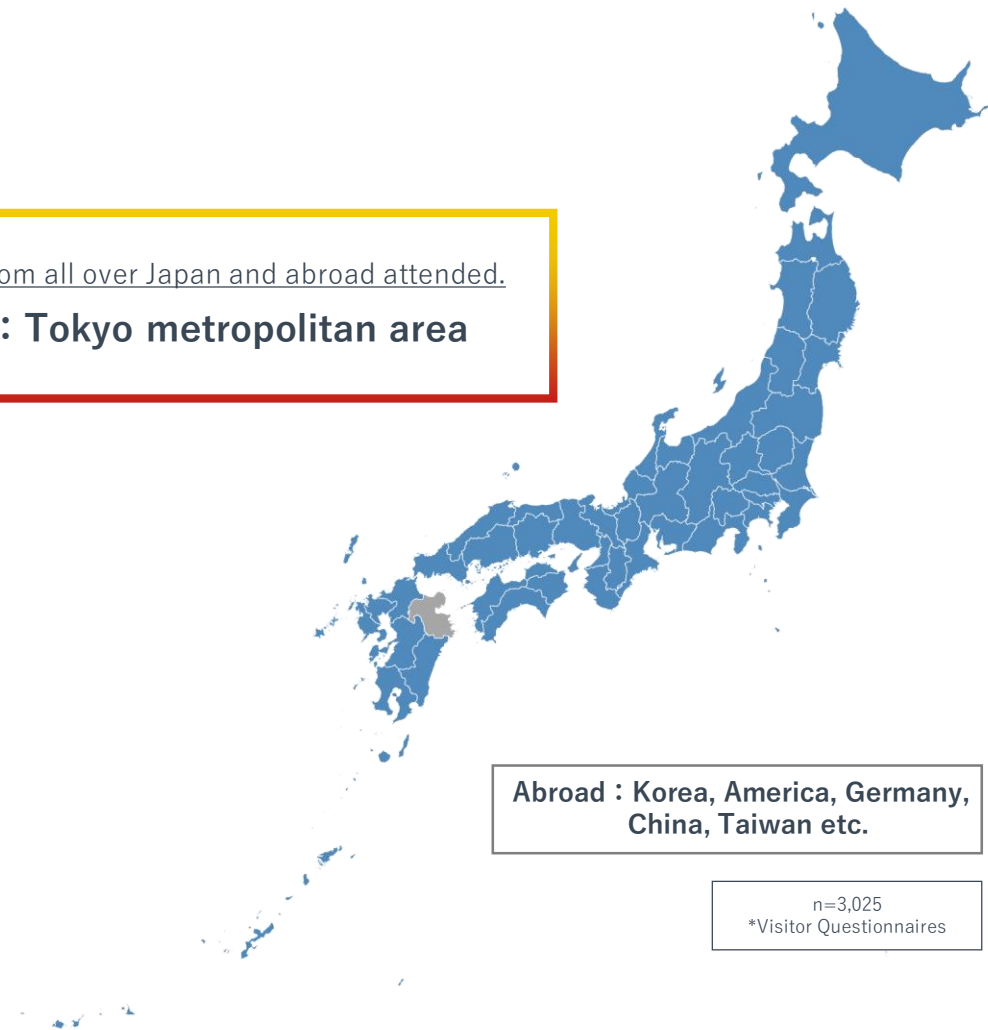
Visitors from all over Japan and abroad attended.
65% : Tokyo metropolitan area

Online participants

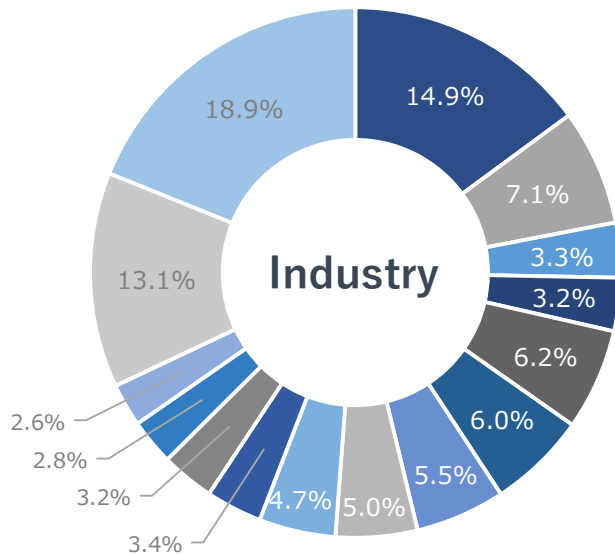


Abroad : Korea, America, Germany, China, Taiwan etc.

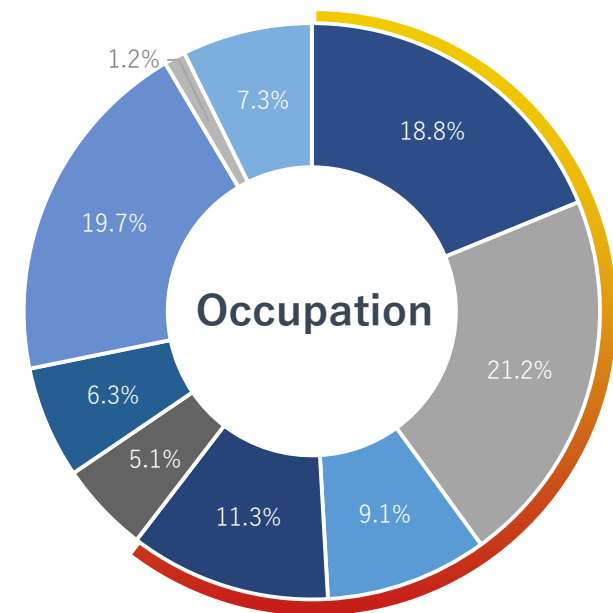
n=3,025
*Visitor Questionnaires



Industry/Occupation



- Precision Equipment / Industrial Machinery / Robotics
- Automobile / Logistics / Transporting
- Aerospace
- Medical Device
- Electronics / Home Appliance
- Organic Material / Chemical
- Iron and Steel / Non-ferrous Metal
- Printing / Converting business, Converting business on commission
- University / Research Organization
- Construction / Real estate
- Electron / Magnetic / Metal / Inorganic Material
- Information / Communication / Networking Service
- Clothing / Grocery
- Trading / Distributor / Retailing
- Others



- Research & Development
- Designing / Producing / Manufacturing
- Production Management / Technology Management
- CEO / CFO / CTO / President / Executive
- Business Development
- Marketing
- Sales/Service
- Student
- Others

n=2,248
*Visitor Questionnaires

— NEXT SHOW —



TCT Japan 2024

-The event for 3D Printing and Additive Manufacturing Intelligence-

Date : January 31st (Wed.) ~ February 3rd (Fri.), 2024

Venue : Tokyo Big Sight (East Hall)

Application is now open via online!



Why Exhibit?



Inquiry about
Booth Application



Click now!



Book Your Stand



Prospectus

Contact

TCT Japan Secretariat

PIC : Madoka Hibi, Yuko Hanaoka, Masaya Yamagata

JTB Communication Design Co., Ltd.
Trade Show Division, Business Promotion Department

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