



# **TCT Japan 2019**

## **Post Show report**

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# Overview –“TCT Japan” first edition –

**"TCT Japan"** held ever growing numbers of industry professionals together in Tokyo to address the challenges of additive manufacturing, 3D printing, design and engineering, driving greater adoption across all industry sectors resulting in a positive impact on the Japanese manufacturing industry.

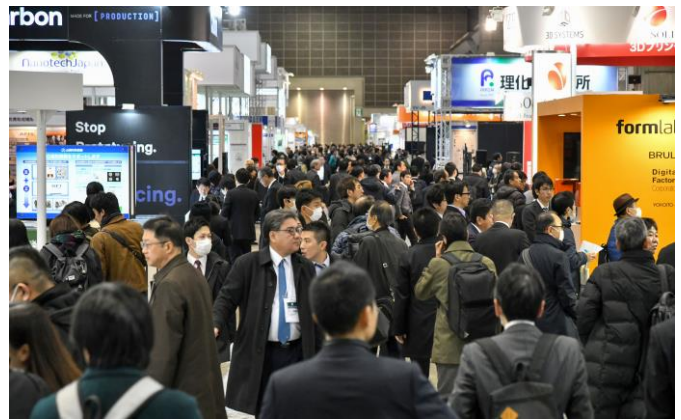
**Organizer** Jtb Communication Design



**Date** 30 January - 1 February, 2019

**Time** 10:00-17:00

**Venue** East Hall 6, Tokyo Big Sight, Japan



**Number of...**



**105**

Exhibitors



**4,734**

Square meter



**43,622**

Attendees

\*Including co-located shows



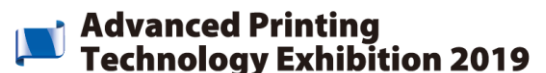
**35**

Conferences/  
Presentations

From **13** Countries and region

(China, France, Germany, Hongkong, Island, Italy, Korea, Mexico, Spain, Switzerland, Taiwan, UK, USA)

## Co-located shows



10th International Water Solution Exhibition

# Promotion

## Free Admission Tickets

Over **100,000** distributed



## E-mail Newsletters

Over **10,000** Subscribers



\*Directly posted to previous participants and distributed in many Additive Manufacturing-related companies, public institutes, and related exhibitions.

## Press Releases • Advertisement

✓ Press Releases



✓ Advertisement



tctmagazine.com, THE NIKKAN KOGYO SIMBUN, THE KANAGATA SHIMBUN, THE NIKKAN JIDOSHA SHIMBUN, google, Yahoo, and more

## Press Conference

About **30** media company attended the Press Conference.



## Over sease

Promoted in other TCT brand Exhibitions and Conference.



# TCT Conference

TCT Conference delivered deep technical know-how and inspirational application studies across the spectrum of Additive Manufacturing and 3D technologies. Over **20** Speakers from JAPAN, Europe and USA delivered a truly global perspective ensuring your time out of the workplace will be of maximum value.

## Session 1 : AM GLOBAL PERSPECTIVES

### 「Welcome and Opening Address」



Mr. Duncan Wood  
Chief Executive Officer  
Rapid News Communications Group

### 「The Japanese 3D printer utilization behind schedule from the world」



Mr. Sawakoshi Toshiyuki  
3D Manufacturing Promotion Association

### 「Current status of AM in Europe」



Mr. Stewart Lane  
Chair of the European  
Additive Manufacturing Working Group  
European Association of the Machine Tool Industries  
CECIMO

### 「Current status of AM in USA」



Mr. Dave Burns  
Founder and Principal  
Global Business Advisory Services

### 「Panel discussion」



Moderator  
Mr. Daniel O'Connor  
Head of Content  
TCT Group

## Session 2 : WORKSHOPS AND APPLICATIONS

### 「Beginners guide to AM」



Mr. Graham Tromans  
Founder and Principal Industry Consultant  
G P Tromans Associates

### 「Case study of 3D printing applications - from prototypes to mass customization -」



Mr. Itsuro Harada  
CEO  
i-maker

## Session 3 : STANDARDIZATION AND IMPLEMENTATION OF AM TECHNOLOGIES

### 「Additive Manufacturing Standardization: Status, Challenges and Opportunities」



Mr. Leonard Morrissey  
Director  
Global Additive Manufacturing Programs  
ASTM INTERNATIONAL

### 「Trend of International Standardization for Additive Manufacturing and Activities of Japanese Committee」



Dr. Kiwamu Ashida  
Director  
Department of Electronics and Manufacturing,  
Research Planning Office  
National Institute of Advanced Industrial  
Science and Technology (AIST)

### 「Navigating the standards landscape to accelerate industrialization of additive manufacturing」



Dr. Khalid Rafi Haludeen Kutty  
Lead Development Engineer  
- Additive Manufacturing  
UL International-Singapore  
UL Ventures

### 「Trend of 3D printers and application to business」



Mr. Masayuki Ichiyama  
Director  
Technology Consulting  
PwC Consulting





# TCT Conference

## Session 4 : Application

### 「Glaze Prosthetics

#### - Revolutionary Prosthetic Arms for Amputees」



Mr. Piotr Sajdak  
Social Media and Community Manager  
Glaze Prosthetics



Mr. Piotr Sajdak  
CEO and co-Founder  
Glaze Prosthetics

### 「AM/3D Printing technique for manufacturing the artificial joint」



Dr. Inoue Takayuki  
Manager  
R&D Dept.  
TEIJIN NAKASHIMA MEDICAL

### 「Needs and concerns from the viewpoint of clinicians toward the use of 3D Printing in healthcare」



Mr. Nao Sukekawa  
Senior Manager  
Medical Device Group  
JMC Corporation

### 「JVCケンウッドにおける3Dプリンタ活用と 少量生産利用に向けた取り組み」



Mr. Naoki Sato  
Deputy Senior Expert(Robot Supervisor)  
Smart factory Management  
Group SCM Dep.  
JVCKENWOOD

### 「AI & AM in digitalization」



Mr. Yoshiki Kotani  
Consultant  
Nomura Research Institute

## Session 5 : DESIGN FOR AM

### 「3D printing works at Kengo Kuma and Associates」



Mr. Tomohiro Matsunaga  
Chief Project Manager  
Kengo Kuma and Associates

### 「CAR Design-3D PRINT」



Mr. Nishikawa Mitsuki  
Creative Design Manager  
CREATIVE BOX

### 「The Additive Manufacturing of Precious Metals」

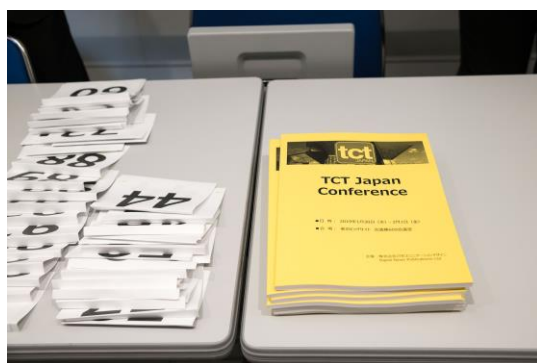


Dr. Cooper Frank  
Associate Head for Industry & Enterprise  
Centre for Digital Design and Manufacturing  
Birmingham City University

### 「Alternative Materials and Methods for Additive Manufacturing and their Application in Design and Architecture」



Prof. Ronald Rael  
Co-Founder  
Emerging Objects



# Exhibitor List

A	6P-23	AddUp(France)
	6L-25	AFIT
	6N-16	Altair Engineering
	6T-22	Autodesk(USA)
B	6E-26	Becker Airtechno
	6N-20	Beijing TierTime Technology(China) / JAPAN 3DPrinter
	6E-25	BRUKER JAPAN
C	6T-13	Carbon
	6X-17	Carl Zeiss
	6S-16	CYBERNET SYSTEMS
	6L-10	Data Design
D	6P-25	Digital Metal / Höganäs Japan
	6C-16	DMG MORI
	6N-17	FASOTEC
F	6J-10	FLASHFORGE / AppleTree
	6V-16	Formlabs Japan
		BRULE
		Digital Factory
G	6Q-26	GUANGDONG SHUNDE ULTRALLINE 3D TECHNOLOGY
	6C-23	Hakudo
H	6S-20	HOTTY POLYMER
	6E-10	HTL
	6A-24	IFUKUSEIMITSU
I	6Y-19	ITOCHU MACHINE TECHNOS
	6J-23	Japan Automotive Interior Designers
J	6G-10	JEOL
	6S-25	Joining and Welding Research Institute Osaka University

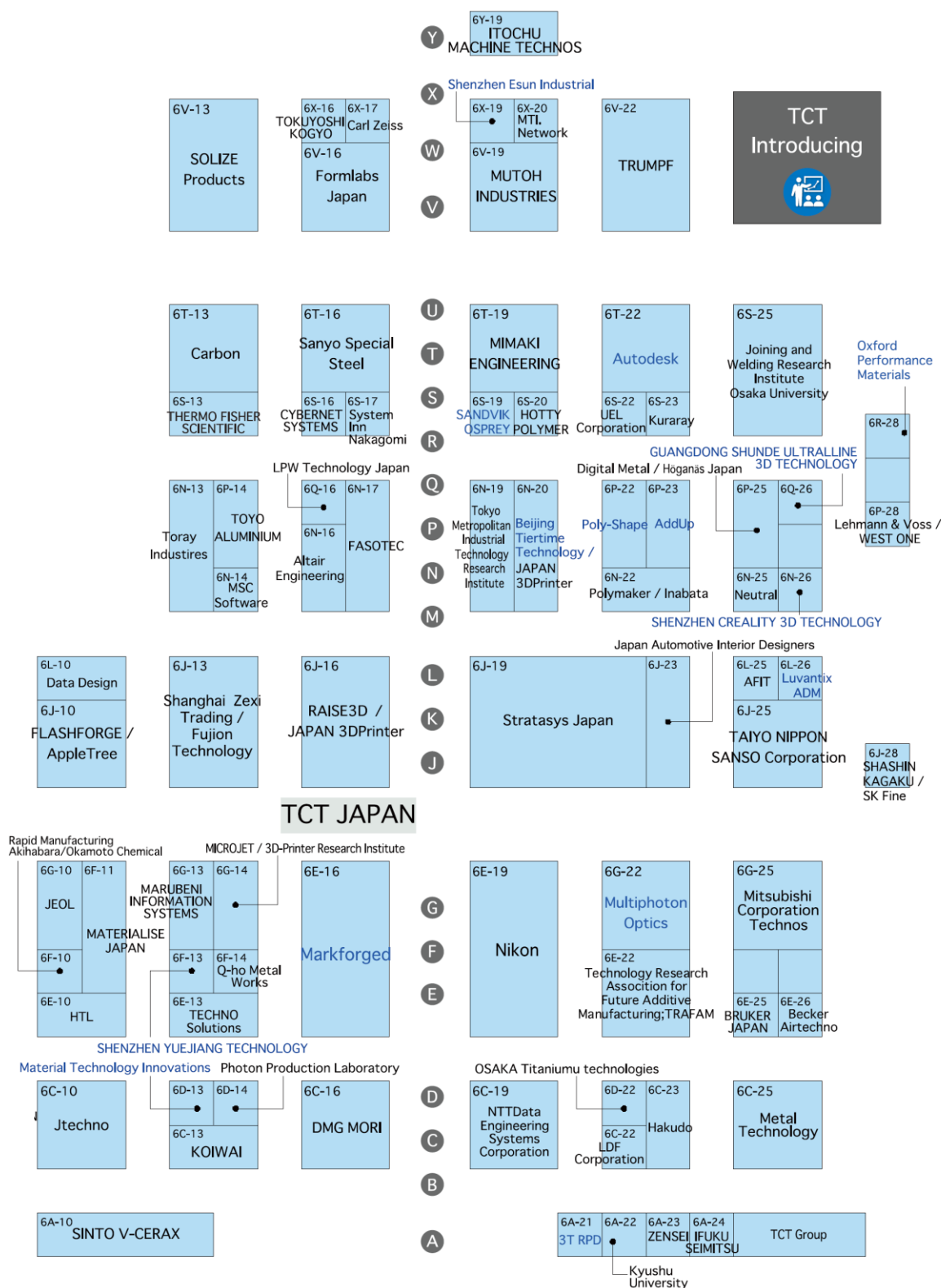
	6C-10	Jtechno
		Dynamical Tools
K	6C-13	KOIWAI
	6S-23	Kuraray
	6A-22	Kyushu University
L	6C-22	LDF Corporation
	6P-28	Lehmann & Voss / WEST ONE
	6Q-16	LPW Technology Japan
	6L-26	Luvantix ADM(Korea)
M	6E-16	Markforged(USA)
	6G-13	MARUBENI INFORMATION SYSTEMS
	6D-13	Material Technology Innovations(China)
	6F-11	MATERIALISE JAPAN
	6C-25	Metal Technology
		Information Services International-Dentsu
		Kobe Material Testing Laboratory
	6G-14	MICROJET / 3D-Printer Research Institute
	6T-19	MIMAKI ENGINEERING
	6G-25	Mitsubishi Corporation Technos
	6N-14	MSC Software
	6X-20	MTI.Network
	6G-22	Multiphoton Optics(Germany)
	6V-19	MUTOH INDUSTRIES
N	6N-25	Neutral
	6E-19	Nikon
		NICON INSTECH
	6C-19	NTTData Engineering Systems Corporation
	6D-22	OSAKA Titanium technologies
O	6R-28	Oxford Performance Materials(USA)
	6D-14	Photon Production Laboratory
P	6N-22	Polymaker / Inabata
	6P-22	Poly-Shape(France)
Q	6F-14	Q-ho Metal Works
R	6J-16	RAISE3D / JAPAN 3DPrinter
	6F-10	Rapid Manufacturing Akihabara/Okamoto Chemical
S	6S-19	SANDVIK OSPREY(UK)
	6T-16	Sanyo Special Steel
	6J-13	Shanghai Zexi Trading(China) / Fujion Technology
	6J-28	SHASHIN KAGAKU / SK Fine
	6N-26	SHENZHEN CREALITY 3D TECHNOLOGY(China)
	6X-19	Shenzhen Esun Industrial(China)
	6F-13	SHENZHEN YUEJIANG TECHNOLOGY(China)
	6A-10	SINTO V-CERAX
	6V-13	SOLIZE Products
	6J-19	Stratasys Japan
	6S-17	System Inn Nakagomi
	6J-25	TAIYO NIPPON SANSO Corporation
	6E-13	TECHNO Solutions
	6E-22	Technology Research Association for Future Additive Manufacturing;TRAFAM
		Daido Steel
T		FUKUDA METAL FOIL & POWDER
		IHI
		Mitsubishi Heavy Industries
		Mitsubishi Heavy Industries Machine Tool
		Sanyo Special Steel
		TADA ELECTRIC
		Toshiba-machine
	6S-13	THERMO FISHER SCIENTIFIC
	6X-16	TOKUYOSHI KOGYO
	6N-19	Tokyo Metropolitan Industrial Technology Research Institute
	6N-13	Toray Industries
		Toray Engineering
		Toray Precision
		Toray Research Center
	6P-14	TOYO ALUMINIUM
	6V-22	TRUMPF
	6S-22	UEL Corporation
U	6A-23	ZENSEI
Z	6A-21	3T RPD(UK)





# Floor Plan

## East hall 6



# TCT Introducing Stage

30 Jan.

11:25 ~ 12:10  
TBA

Mitsubishi Corporation Technos

12:20 ~ 13:05  
TBA

Formlabs Japan

13:15 ~ 14:00

Advantage and application tips of Additive Manufacturing Solution by 3D printing solution provider who has experience in the market 30years+ and the largest customer base.

Mr. Takehiro Koyama  
Stratasys Japan

14:10 ~ 14:55

Imaging Solutions for Additive Manufacturing: Evaluating Parts Quality with microCT and Fast Powder Analysis with SEM/EDX

Mr. Hideyo Tsurusawa  
Thermo Fisher Scientific

15:05 ~ 15:55

**CERAMAKER: 3D Printer for High Density Ceramics**

Mr. Koji Kajita  
Assistant Manager, Development Division Development Group  
SINTOKOGIO

16:00 ~ 16:45

**Accelerating Industrial Additive Manufacturing towards Productivity Leadership**

Bart Leferink 氏  
Director Global Channel Sales, Additive Industries

1 Feb.

11:25 ~ 12:10

**Proposal Using Simulation for Additive Manufacturing by ANSYS**

Mr. Osawa Yoshinori  
CAE Business Unit, Mechanical CAE Division,  
Mechanical Technical Department,  
CYBERNET SYSTEMS

13:15 ~ 14:00

**Advancing the 3D Printing Business with Autodesk Netfabb**

Data Design

14:10 ~ 14:55

Digital Metal® metal 3D printer Outline, Development Trend and Utilization Technology and Future Development

Höganäs Japan

31 Jan.

11:25 ~ 12:10

**The Quiet Transition to Additive Manufacturing in Series Production**

Mr. Pierra Pascal  
Director of Sales Asia Pacific, OPTOMECH

12:20 ~ 13:05

**Introducing the Metal X 3D Printing System**

Dr. Mike Caine  
Director  
Hardware Engineering  
Markforged

13:15 ~ 14:00

**Advanced Manufacturing Using A Vertically Integrated Approach**

Ms. Christina Kurth  
Manager, Sales Engineering  
Sintavia

14:10 ~ 14:55

what is the latest 3D printing technology trend ? The introduction of Pol-Shape, one of top bureau in Europe, and latest examples of its use.

Mr. Stephane Abed  
CEO, Poly-Shape

15:05 ~ 15:55

**Leveraging the power of Additive Manufacturing - Role of Software**

Mr. Peter Rogers  
Additive Manufacturing Specialist, Digital Manufacturing Sales,  
Autodesk Ltd. Japan

16:00 ~ 16:45

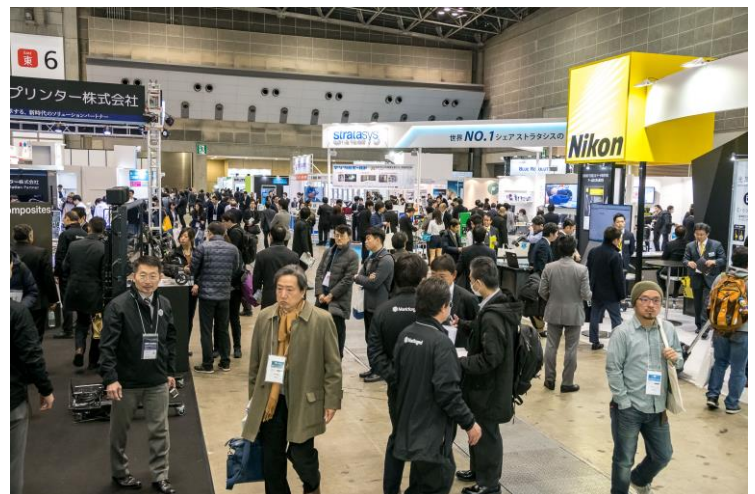
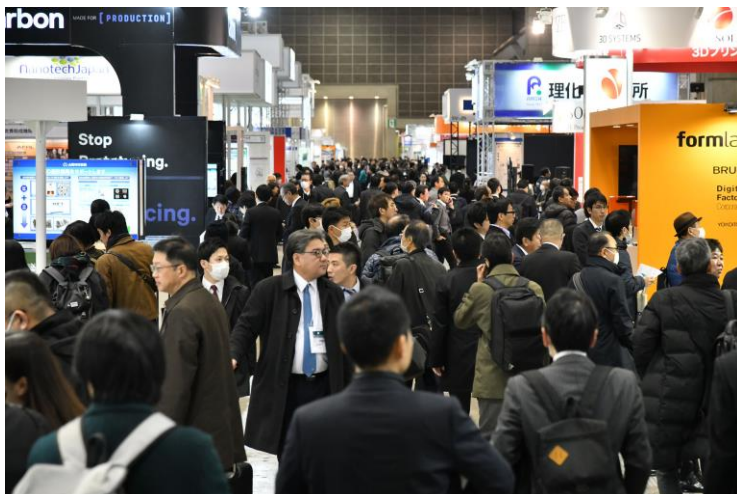
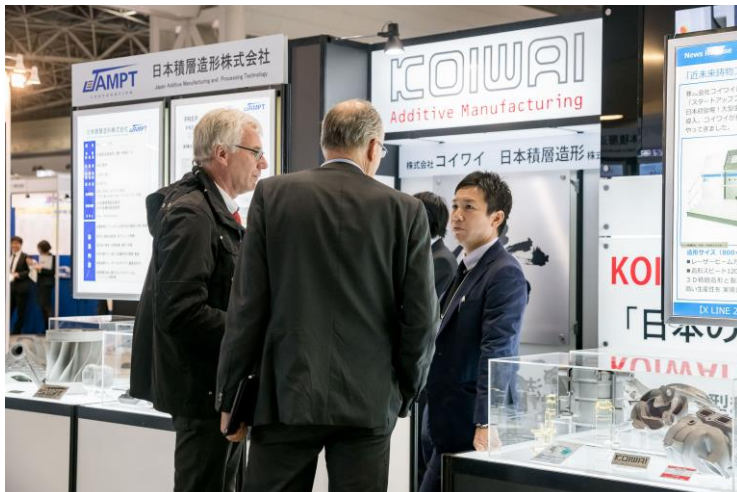
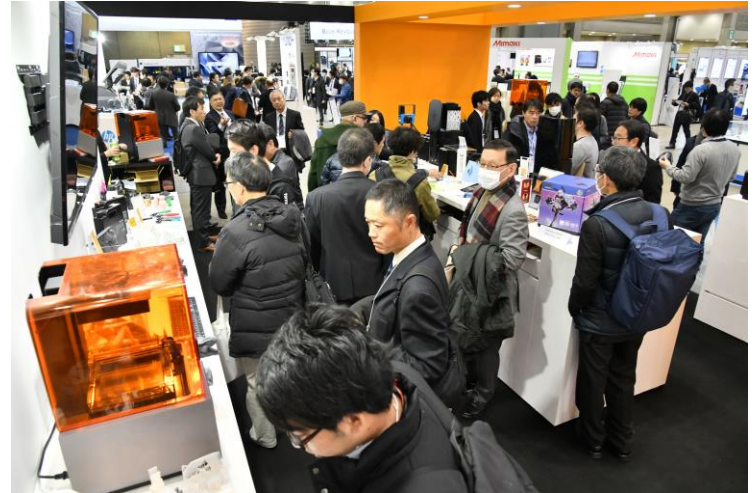
**Latest application cases -Direct Digital Manufacturing for End-Use-Parts and Jigs&Fixture with Stratasys 3D printers**

Mr. Maruoka Hiroyuki  
Specialist, Application Development Sec. Modeling  
Solutions Technical Dept., Manufacturing Solutions Div.  
MARUBENI INFORMATION SYSTEMS



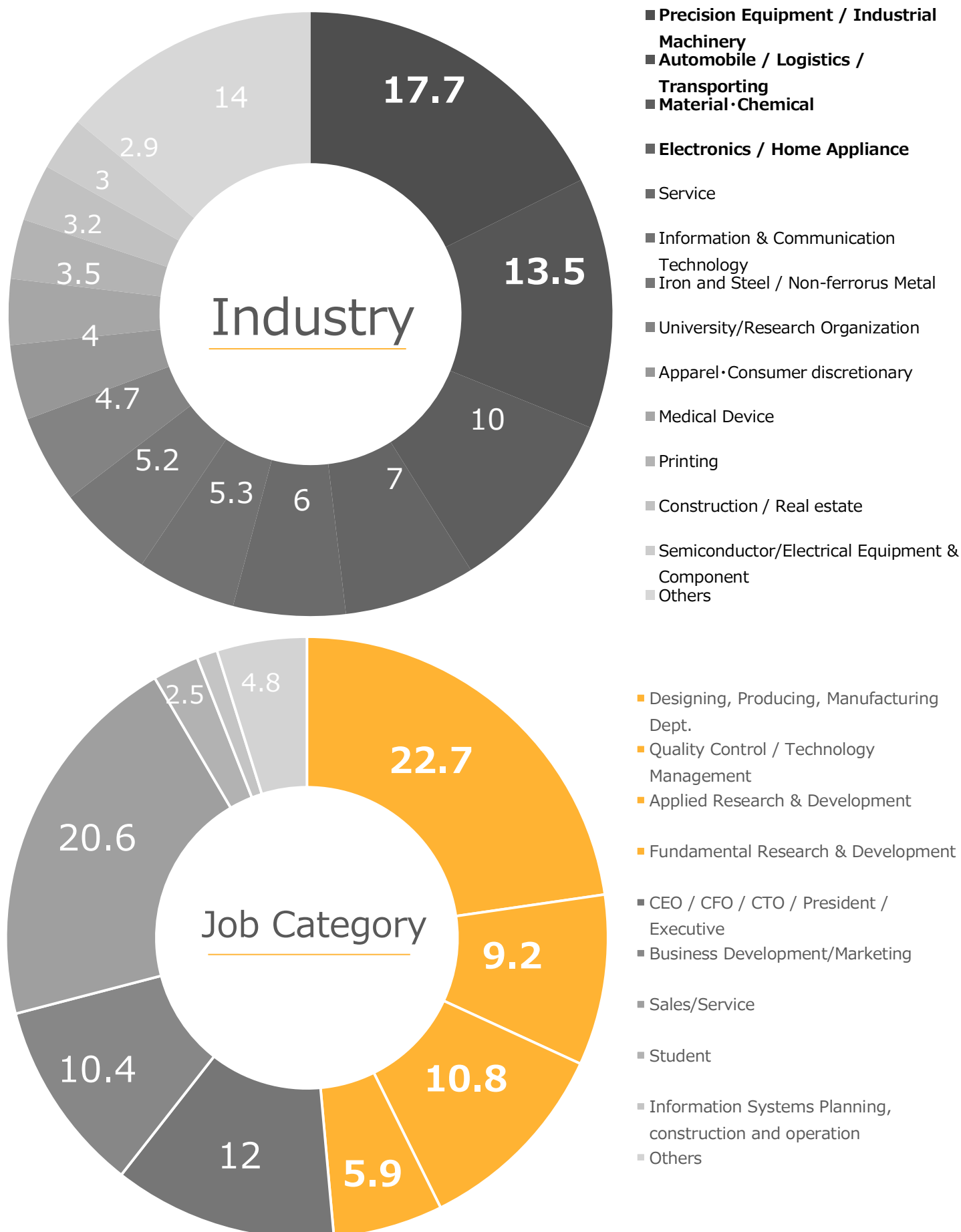


# Show Gallery



# Visitor Profile

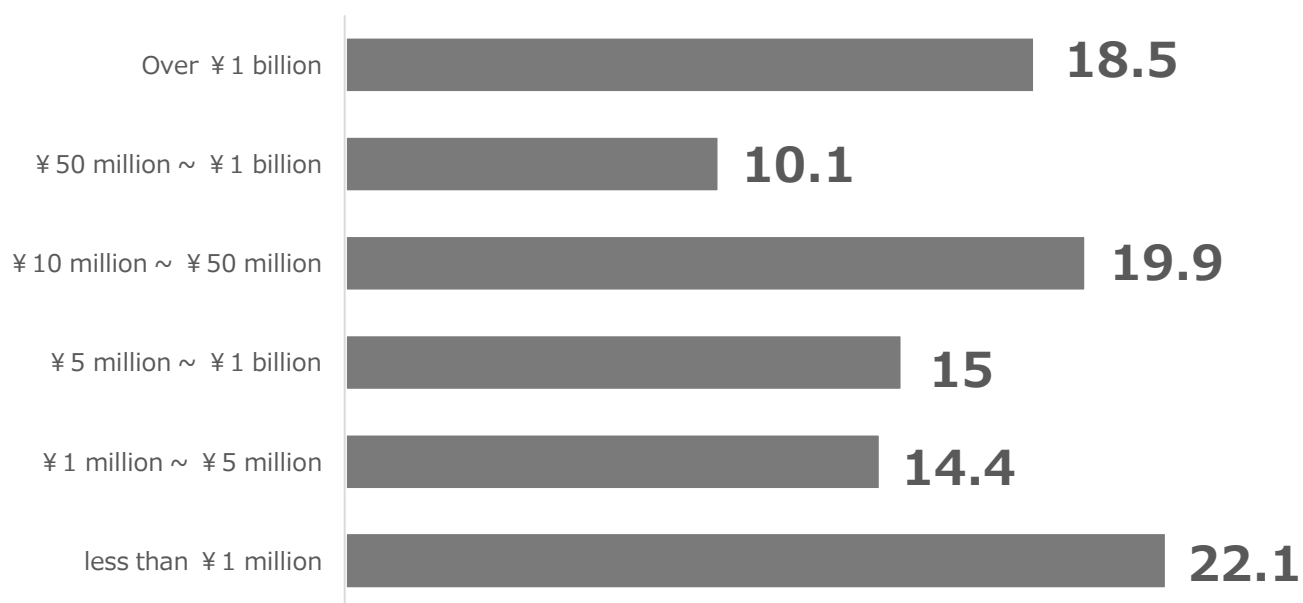
**50%** of visitor from designing, producing, and R&D dept.





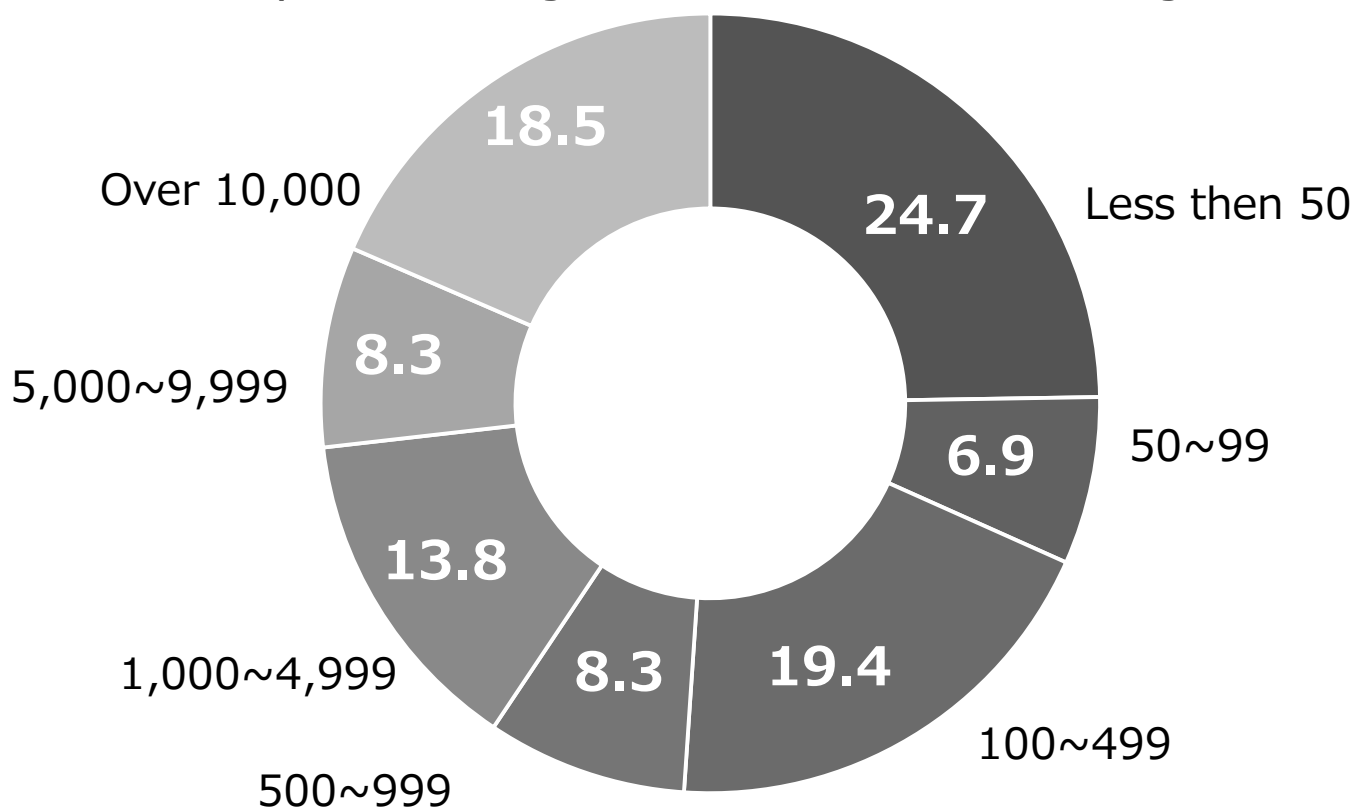
## Visitor purchase budget. (%)

Around **50** % of TCT Japan attendees had budgets that exceeded over ¥10 million.



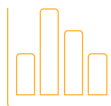
## Company Size

Various of companies are looking to invest to the Additive Manufacturing market.





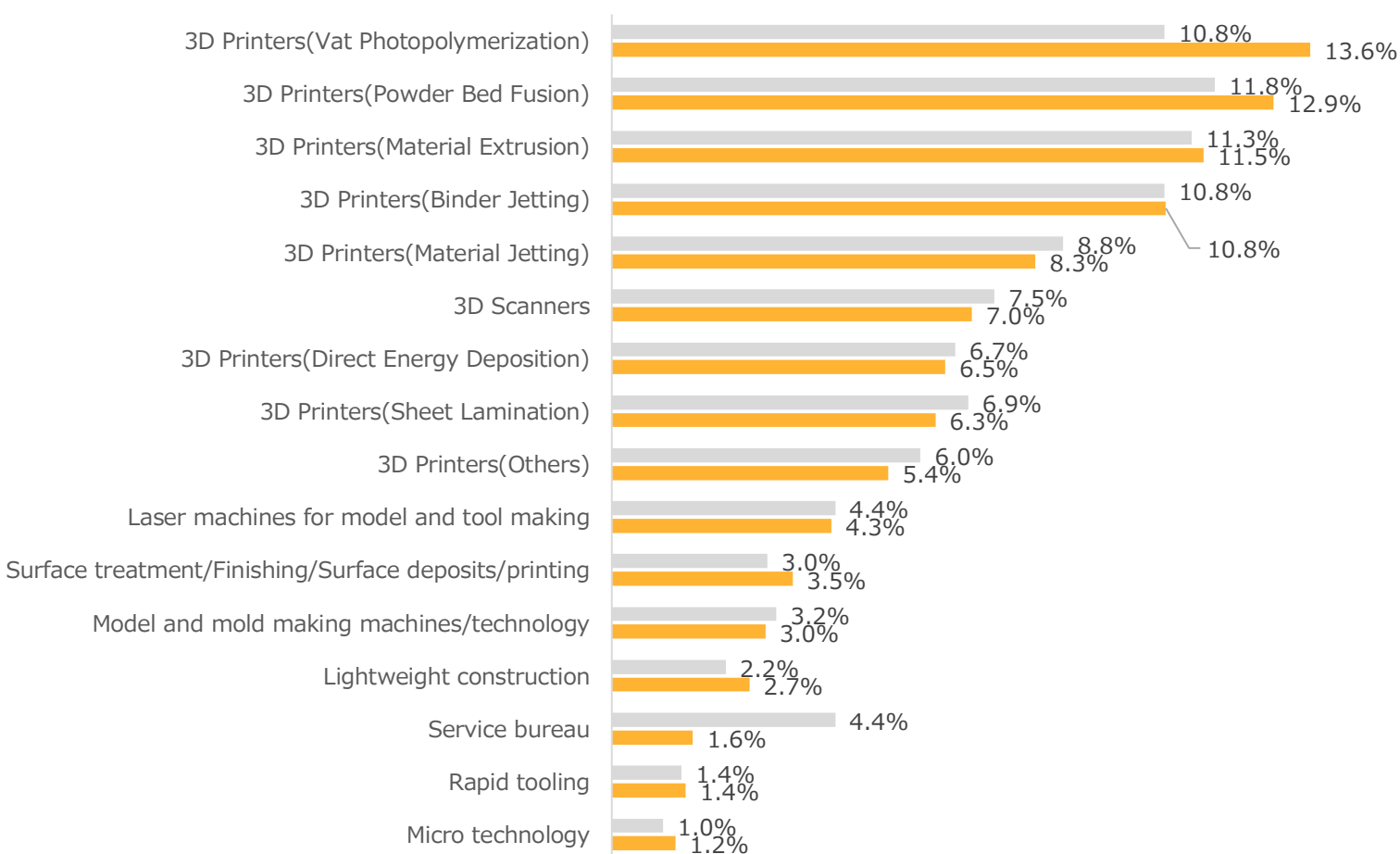
# Visitor profile



## TECHNOLOGIES EVALUATED ※multiple responses

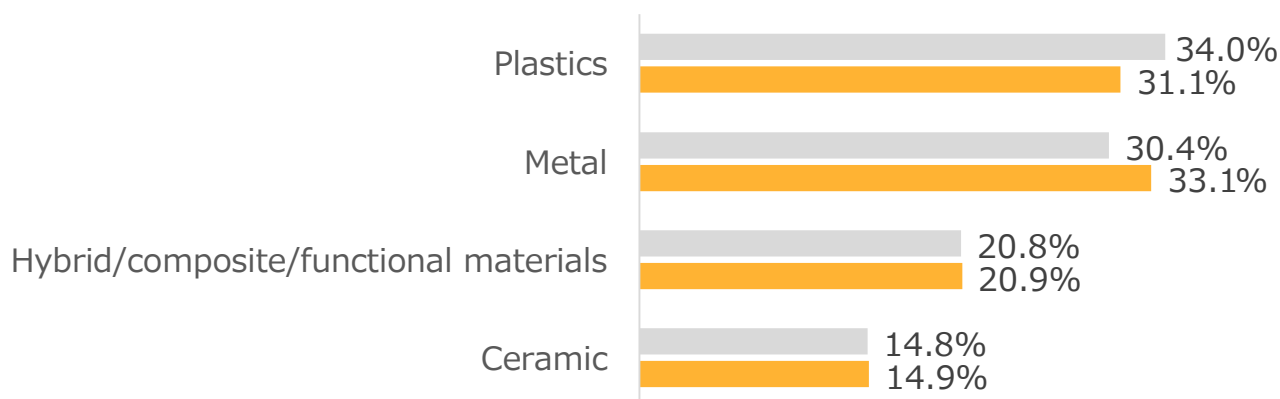
### Machines, Equipment, Tools and tecnology

■ 2018 ■ 2019



### Materials

■ 2018 ■ 2019



# Visitor profile

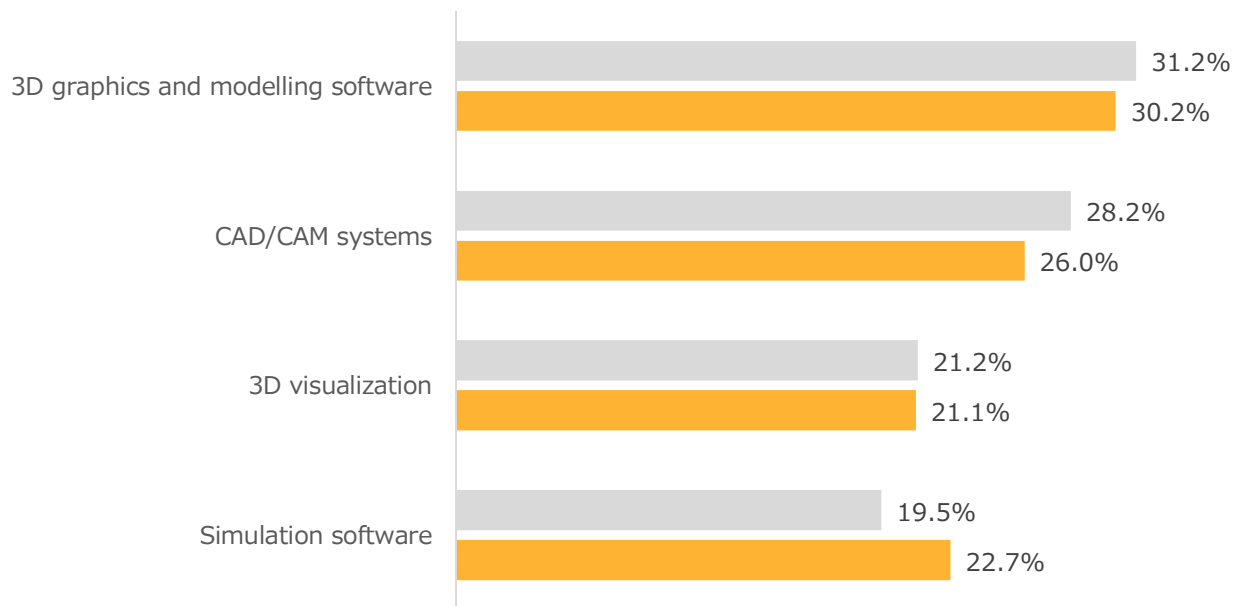


## TECHNOLOGIES EVALUATED

※multiple responses

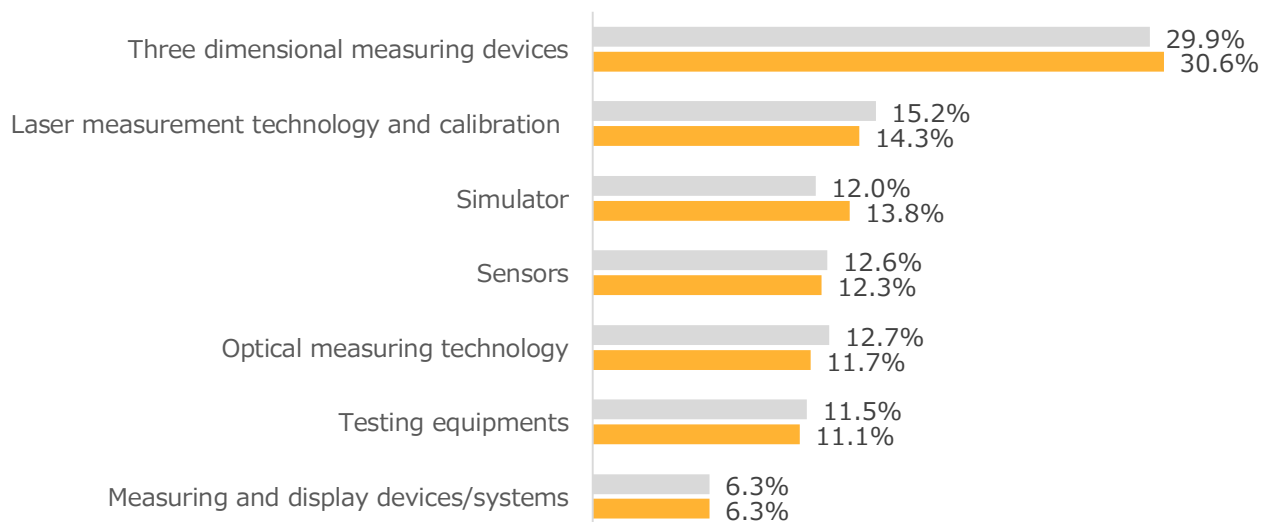
### Software

■ 2018 ■ 2019



### Device for measurement, control, verification

■ 2018 ■ 2019



# Visitor profile



## Top Attendee

### Automobile / Logistics / Transporting

AISIN SEIKI  
 AISIN AW  
 AKEBONO BRAKE INDUSTRY  
 BRIDGESTINE  
 DENSO  
 HINO MOTORS  
 HONDA  
 ISUZU  
 KOMATSU  
 MITSUBISHI HEAVY INDUSTRIES  
 NABTESCO  
 NISSAN MOTOR  
 SUBARU  
 SUZUKI  
 TOYOTA  
 YAMAHA MOTOR

### Precision Equipment / Industrial Machinery

AMADA  
 BROTHER  
 CANON  
 DIC  
 HITACHI  
 IHI  
 KOMATSU  
 KONICA MINOLTA  
 NIKON  
 OLYMPUS  
 PANASONIC  
 RICOH  
 SEIKO EPSON  
 SHIMADZU  
 SODICK  
 TOPPAN  
 TOSHIBA

### Electronic / Home Appliance

CASIO  
 EPSON  
 FUJITSU  
 JVC KENWOOD  
 LENOVO JAPAN  
 MITSUBISHI ELECTRIC  
 OMRON  
 PANASONIC  
 SONY

### Sports / Apparel / Consumer Product

AMAZON JAPAN  
 BANDAI  
 EPOCH  
 JINS  
 MIZUNO  
 ORIENTAL LAND  
 PILOT  
 SEGA  
 TAKARA TOMY  
 YAMAHA  
 YKK

### University/Research Organization Public Agency

ACQUISITION, TECHNOLOGY & LOGISTICS AGENCY  
 ECONOMIC AFFAIRS BUREAU, CITY OF YOKOHAMA  
 INDUSTRIAL RESEARCH INSTITUTE OF NIIGATA PREFECTURE  
 JAPAN AEROSPACE EXPLORATION AGENCY  
 KAWAGOE JUVENILE PRISON  
 KOBE DESIGN UNIVERSITY  
 MINISTRY OF DEFENSE  
 MINISTRY OF ECONOMY, TRADE AND INDUSTRY  
 THE UNIVERSITY OF TOKYO  
 TOKYO DENTAL COLLEGE  
 TOKYO INSTITUTE OF TECHNOLOGY  
 TOKYO METROPOLITAN GOVERNMENT  
 UNITED STATES DEPARTMENT OF DEFENSE  
 YOKOSUKA U.S. NAVAL BASE

# TCT Japan 2020 -Overview-

**Organizer** Jtb Communication Design

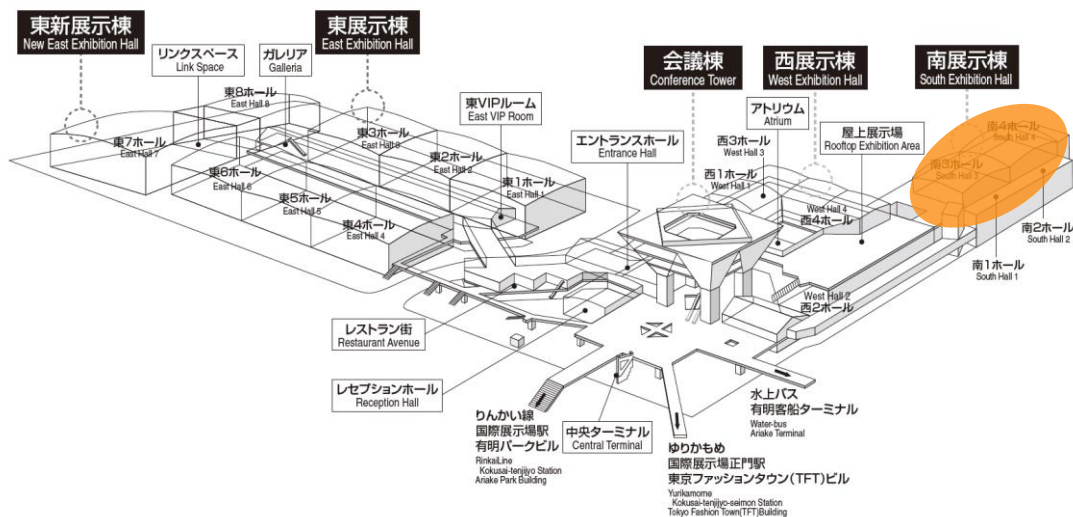


**D a t e** 29 - 31 February, 2020

**T i m e** 10:00-17:00

**V e n u e** WEST Hall, Tokyo Big Sight,  
Japan

**V i s i t o r** 50,000(Included co-located shows)



Co-located shows :



# TCT Japan 2020 -Overview-

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Atten: Masaya Yamagata

Secretariat of TCT Japan  
c/o JTB Communication Design, Inc.  
Celestine Shiba Mitsui Building, 3-23-1, Shiba, Minato-ku, Tokyo,  
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TCT Japan [https://www.tctjapan.jp/index\\_en.html](https://www.tctjapan.jp/index_en.html)



**APPLY NOW! 2020出展申込受付中!**

3Dプリンティング & AM技術の総合展

# THE EVENT FOR 3D PRINTING & ADDITIVE MANUFACTURING



For more detail  
[WWW.TCTJAPAN.JP](http://WWW.TCTJAPAN.JP)

2020 **1.29-1.31** **Wed. Fri.** Tokyo Big Sight  
東京ビッグサイト

JTB Communication Design / Rapid News Publications Ltd