

# Exhibition Report

---

## ■ Onsite Exhibition

Date : **09** DECEMBER - **11** DECEMBER 2020

Venue : Tokyo Big Sight, Japan  
West Exhibition Hall 1, Atrium & Conference Tower

## ■ Online Exhibition

26 OCTOBER 2020 – 15 JANUARY 2021

Organized by : nano tech executive committee / JTB Communication Design, Inc.



**nano tech**  
**2021**

International Nanotechnology  
Exhibition & Conference

# OVERVIEW

**Name** nano tech 2021  
The20th International Nanotechnology Exhibition & Conference

**Date & Time** Onsite : Wednesday 09 to Friday 11 DECEMBER, 2020 10 : 00 - 17 : 00  
Online : Monday 26 OCTOBER 2020 – Friday 15 JANUARY 2021

**Venue** West Exhibition Hall 1, Atrium & Conference Tower, Tokyo Big Sight, Japan

**Online** <https://www.nanotechexpo.jp/main/>

## Concurrent Events



## FACTS & FIGURES

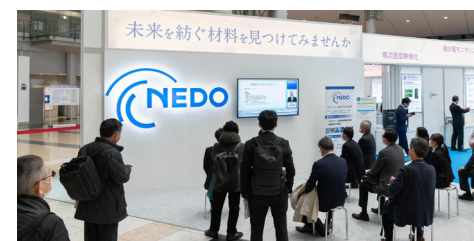
**Number of Visitors**  
(Includes the concurrent exhibitions)

\* Included Online Exhibition

# 22,704

## \* Number of Visitors (Tokyo Big Sight)

Date	Weather	Visitors
Dec. <b>9</b> (Wed.)		<b>3,649</b>
Dec. <b>10</b> (Thu.)		<b>3,375</b>
Dec. <b>11</b> (Fri.)		<b>3,591</b>
<b>Total</b>		<b>10,615</b>



**Number of Exhibitors**

**209** Domestic: 169  
Overseas: 40

**Onsite Booth Exhibitors**

**177** Domestic: 149  
Overseas: 28

**Online Exhibitors**

**32** Domestic: 20  
Overseas: 12

**Booth Numbers**

**218** Domestic: 209  
Overseas: 9

**Overseas Exhibitors**

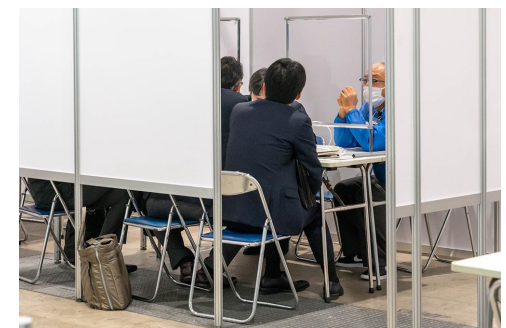
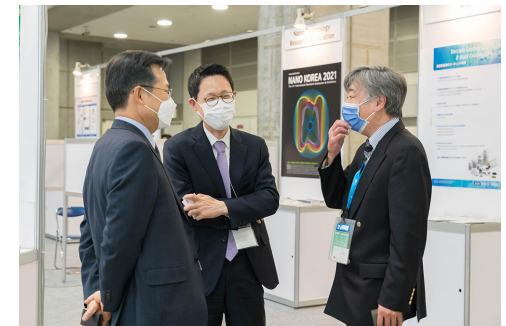
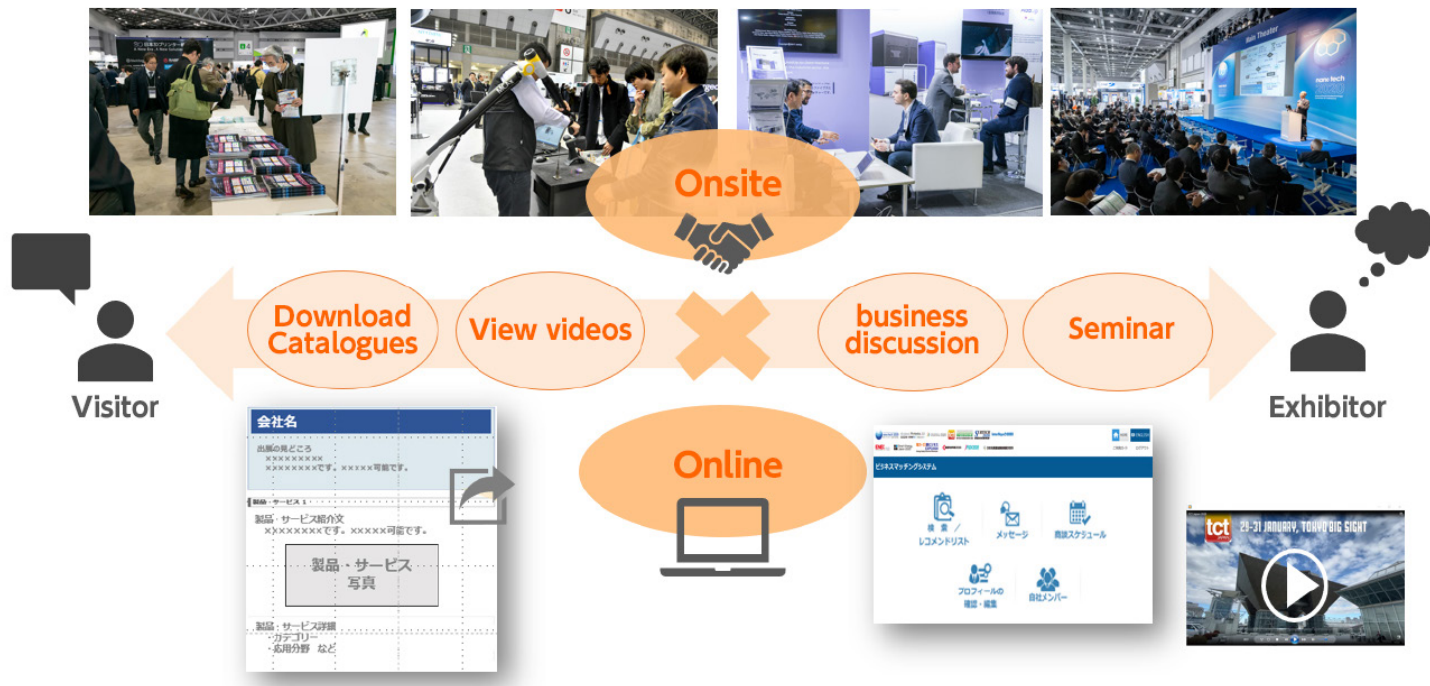
**9** Countries / Regions

Canada (online), Denmark, France, Germany,  
Korea (online), Netherlands, Poland, Spain, USA (online)



# ONLINE EXHIBITION

nano tech 2021 was held as onsite-online hybrid exhibition to create business opportunities even in the difficult situation of COVID'19.



## ■ Onsite-Online Hybrid exhibition -Features of online services-

### 01. Set business appointments in advance



You can make appointments with exhibitors you are looking for. After making appointments, you can have business meetings at the booth or online(Cisco webex) during the exhibition.

### 02. You can download catalogues and view videos



-To make efficient business meeting, you can download catalogues and videos related to exhibits in exhibitor search in advance.







### 03. Register for seminars








-The organizer seminar can be registered by visitors portal. You can view online seminars during the exhibition. Seminar archives are accessible for a separate fee(Jan.13-15)

# ORGANIZER PROGRAMS - SPECIAL SYMPOSIUM

Special symposium was held during exhibition under the main theme of nano tech 2021 “Nanotechnology with New Social [\*\*\*]”. Lectures on latest research reports and market trends by leading specialists and researchers attracted many visitors.

Nanotechnology and infectious diseases <span>Dec. 09 (Wed.)</span>	
Chairman : Kazumi Nishijima, Fellow, Clinical Development Planning and Management, Mochida Pharmaceutical Co., Ltd. / Auditor, Japan Society for the Promotion of Science / Visiting Professor, Tohoku University / Visiting Professor, Yokohama City University	
Development of Practical Delivery Systems for mRNA-based Vaccines	Preventing the severity of COVID-19 by nanotechnology and AI
 Prof. Kazunori Kataoka Director General, Kawasaki Institute of Industrial Promotion/ Project Professor, The University of Tokyo Innovation Center of NanoMedicine/Institute for Future Initiatives	 Prof. Keisuke Goda Professor, University of Tokyo / Adjunct Professor, University of California, Los Angeles / Adjunct Professor, Wuhan University
Highly pathogenic virus detection using high sensitive graphene FET	Diagnostic system of infection diseases based on nanopores
 Prof. Kazuhiko Matsumoto Institute of Scientific and Industrial Research	 Prof. Masateru Taniguchi Professor, The Institute of Scientific and Industrial Research, Osaka University
Current status and issues for pharmaceutical companies to tackle the infectious diseases	Antibacterial/ Antiviral etc
 Dr. Yoshinori Yamano Chief scientific officer for infectious diseases, Pharmaceutical Research Division Shionogi & Co., Ltd.	 Mr. Yui Muguruma Zenius Ltd.

5G <span>Dec. 10 (Thu.)</span>	
Chairman : Tadashi Ito, Chief Research Scientist, Head of Special Project Research & Development Management Headquarters, FUJIFILM Corporation, Part-time Lecturer Faculty of Engineering, The University of Tokyo, Graduate School of Science and Engineering, Chiba University	
Development of Low Dk/Df Material for 5G Application	Properties and transmission loss evaluations of low dielectric polyimides adhesives for high frequency flexible printed circuit boards
 Mr. Naoyuki Kawashima JSR Corporation	 Mr. Takashi Tasaki ARAKAWA CHEMICAL INDUSTRIES, LTD.
Surface Functionalization and Control of Functional Interface by Surface Photochemical Modification and Nanocoating Technology - Application to Advanced Dissimilar Joint for 5G FPC Materials -	
 Dr. Takako Nakamura Team Leader, Advanced Coating Technology Research Center, Photo-Assisted Coating Team, National Institute of Advanced Industrial Science and Technology	

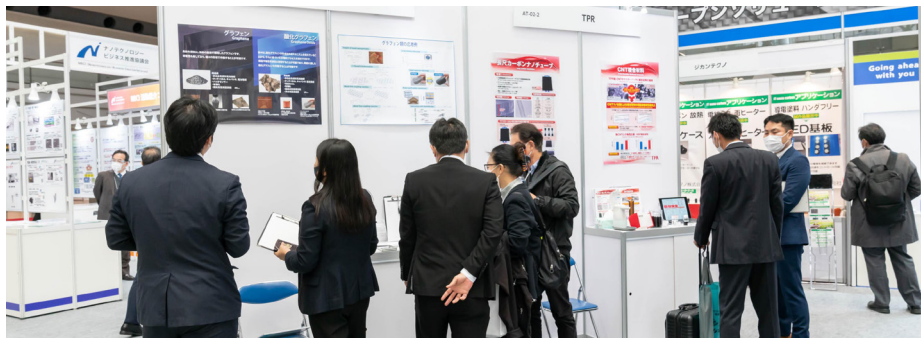
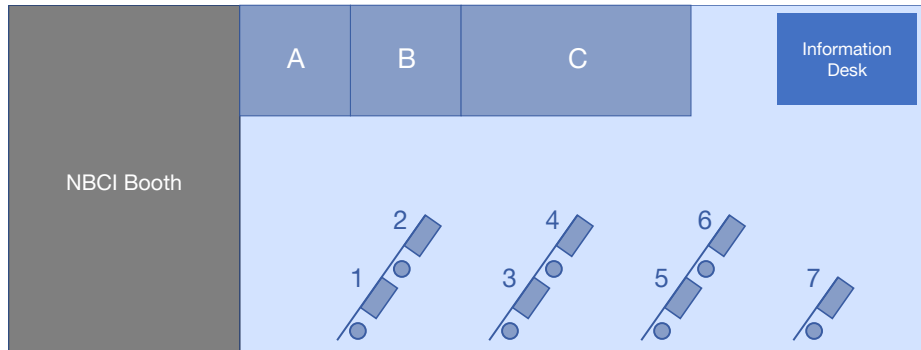
Measurement Informatics <span>Dec. 10 (Thu.)</span>	
Chairman : Satoshi Itoh, Chief Coordinator, Foundation for Computational Science	
Integration of olfactory sensor "MSS" and machine learning toward artificial olfaction	Optimized experiment and automated data analysis for material science
 Dr. Genki Yoshikawa Group Leader, Olfactory Sensors Group, Center for Functional Sensor & Actuator (CFSN), Research Center for Functional Materials, National Institute for Materials Science (NIMS)	 Prof. Kanta Ono High Energy Accelerator Research Organization (KEK)
Informatics for EELS/XAFS ~Innovation in spectrum analysis by machine learning~	Expectations and efforts for advanced analysis by measurement informatics
 Prof. Teruyasu Mizoguchi Professor, Institute of Industrial Science, The University of Tokyo	 Dr. Hideto Imai Technical Director, NISSAN ARC Ltd.

Biodegradable Plastics Technology <span>Dec. 11 (Fri.)</span>	
Chairman : Tadashi Ito, Chief Research Scientist, Head of Special Project Research & Development Management Headquarters, FUJIFILM Corporation, Part-time Lecturer Faculty of Engineering, The University of Tokyo, Graduate School of Science and Engineering, Chiba University	
To realize KAITEKI: Sustainable Materials and our Activities for Circular Economy	Development of KANEKA Biodegradable Polymer PHBH
 Ms. Yumiko Saeki Manager, Advanced Polymers Planning Domain, Mitsubishi Chemical Corporation	 Dr. Ryuji Fukuda Regulatory Affairs Manager, Green Planet Project Global Planning & Marketing, KANEKA CORPORATION

Nanotechnology with New Social Pioneer of a New Era <span>Dec. 11 (Fri.)</span>	
Chairman : Takashi Kurokawa, Professor, Division of Basic Science and Technology, College of Engineering, Chubu University / Visiting Professor, Tokyo City University	
Revolutional synthesis of peptides	Hidden power of abundant elements
 Prof. Hisashi Yamamoto Professor and Director, Chubu University, Frontea Research Center	 Prof. Hideo Hosono Director, Institute Professor, Materials Research Center for Element Strategy, Tokyo Institute of Technology
Can we visualize electron behaviours by electrons? ~Challenges of electron microscopy~	[Panel discussion] Three guest speakers in the panel discussion which took place in the second half of the symposium.
 Prof. Naoya Shibata The University of Tokyo	 [Moderator] Prof. Takashi Kurokawa Professor, Division of Basic Science and Technology, College of Engineering, Chubu University / Visiting Professor, Tokyo City University

# ORGANIZER PROGRAMS – NANO CARBON OPEN SOLUTION FAIR

The 2nd Nano Carbon Open Solution Fair offered opportunities for exchange of information and business matching, leading application development of nano carbon.



Booth No.	Company name
AT-02-A	GSI Creos
AT-02-B	Jikantechno
AT-02-C	Nitta
AT-02-1	NiSiNa materials
AT-02-2	TPR
AT-02-3	SANYO TRADING
AT-02-4	HORIBA
AT-02-5, AT-02-6	Zeon Corporation
AT-02-7	SUNARROW
ONLINE	Research Initiative for Supra-Materials Shinshu University
ONLINE	New Metals and Chemicals Corporation
ONLINE	Zeon Corporation

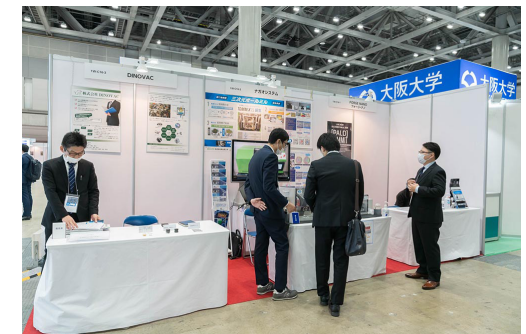
## ACADEMIA POSTER PRESENTATION

nano tech supports university researchers and promotes business-academia collaboration.



## START-UP PAVILION

nano tech offers opportunities for business collaboration of start-up companies and visitors.



**来場案内配布**

100,000 部 以上



## 事務局メールマガジン

62,000 名  
(過去ご来場有効データ)



特に、ご登録いただいた**出展製品のクローズアップ企画**及び**主催者による取材特集記事**が好評でした。

プレスリリース配信

国内有数のプレスリリース配信会社「PR Times」を活用しメディアへのプレスリリース配信を実施しました。



## 出展者取材特集 Nano Insight Japan

新規出展や注目の出展アイテムについて  
取材し多くの方に事前告知をいたしました。



2020年11月11日 日刊工業新聞



2020年11月29日掲載 産経新聞(大坂)



2020年12月8日 日経産業新聞



2020年12月8日 中日新聞(愛知・岐阜・三重・静岡)



2021年1月6日 中日新聞(愛知・岐阜・三重・静岡)



2020年12月2日から8日 日刊工業  
新聞トップページ上にて レクタン  
グルバナー



ナノテクノロジービジネス推進協議  
会や協賛団体などのホームページ  
上で来場促進 レクタングルバナー

日経産業新聞  
日刊工業新聞  
化学工業日報  
科学新聞  
等（一部抜粋）

# AGAINST COVID-19

The organizer took the following measures to prevent the spread of COVID-19 infection.



Temperature measurement for all participants and staffs



Disinfection of fingers at the hall entrance



Sign for keeping social distancing



Announcement for the infection prevention



Taking a distance at symposium and seminar



Ventilation and frequent disinfection in the hall

# FLOOR MAP

West hall  
1,2

Booth Numbers

2W-A03

Hall Row Column  
number number

12.9~11.2020  
TOKYO BIG SIGHT  
West hall 1,2

West hall 1

nano tech 2021

All about Photonics 2021

MEMS SENSING &  
NETWORK SYSTEM 2021

Surface Technology Creates New Business  
ASTEC2021

SURTECH  
2021

tct  
2021

West hall 2

Converttech  
JAPAN 2021

neo functional  
material 2021

FLEX2021

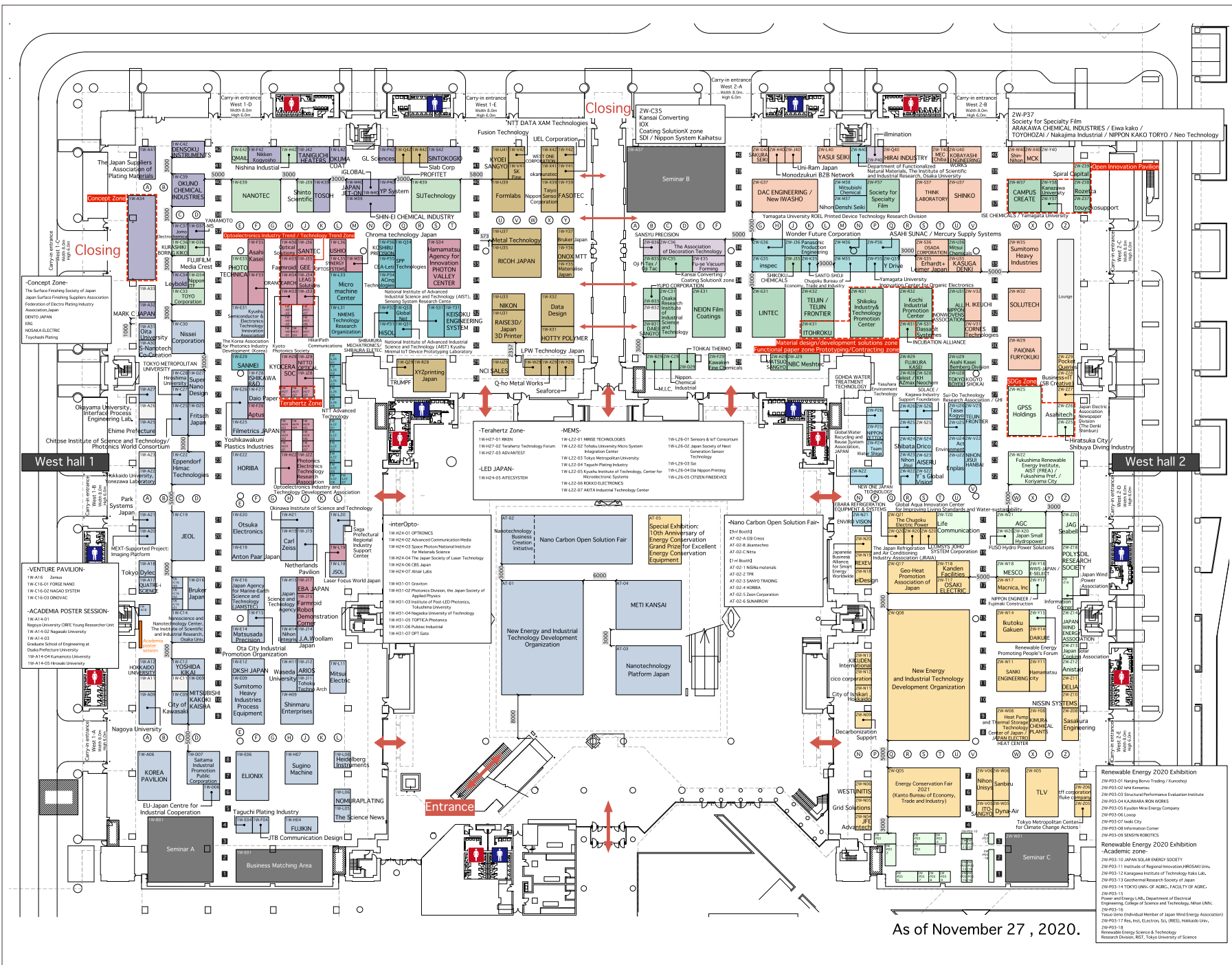
3DECO tech  
2021

ENEX 2021  
Energy and Environment Exhibition

DER Japan  
2021

RENEWABLE ENERGY 2020

InterAqua O 2021



As of November 27, 2020.

# EXHIBITORS

ADEKA
Altech.Co.,Ltd
Anton Paar Japan
ARIOS
Beckman Coulter
Bruker Japan
BUSS JAPAN
Carl Zeiss
Chitose Institute of Science and Technology/Photonics World Consortium
City of Kawasaki
DAIKIN INDUSTRIES,
Daio Paper
DINOVAC
DKSH JAPAN
Ehime Prefecture
ELIONIX
Eppendorf Hima Technologies
EU-Japan Centre for Industrial Cooperation
EUROTEC
Filmetrics JAPAN
FORGE NANO
Fritsch Japan
FUJIKIN
Graduate School of Engineering at Osaka Prefecture University
GSI Creos
Heidelberg Instruments KK
Hirosaki University
Hiroshima University
HOKKAIDO UNIVERSITY
Hokkaido University, Yonezawa Laboratory
HORIBA
HORIBA
ISHIKAWA R&D
J.A.Woollam Japan
Japan Agency for Marine-Earth Science and Technology (JAMSTEC)

Japan Aviation Electronics Industry
Japan Science and Technology Agency
JEOL
Jikantech
JSOL
KOREA PAVILION
Kumamoto University
Kyushu Semiconductor & Electronics Technology Innovation Association
Matsusada Precision
METI KANSAI
MEXT-Supported Project: Imaging Platform
MITSUBISHI KAKOKI KAISHA
MitsuiElectric
NAGAO SYSTEM
Nagasaki University
Nagoya University
Nagoya University CIRFE Young Researcher Unit
nano tech
NanoCanada
Nanoscience and Nanotechnology Center, The Institute of Scientific and Industrial Research, Osaka Univ.
Nanotech Energy
Nanotechnology Business Creation Initiative(NBCI)
Nanotechnology Platform Japan
Netherlands Pavilion
New Energy and Industrial Technology Development Organization(NEDO)
New Metals and Chemicals Corporation
Nihon Entegris
NiSiNa materials
Nissei Corporation
Nitta
NOMURAPLATING
Oita University
Okayama University, Interface Process Engineering Lab.

Okinawa Institute of Science and Technology
Ota City Industrial Promotion Organization
Otsuka Electronics
Park Systems Japan
QUATRE-i SCIENCE
Research Initiative for Supra-Materials Shinshu University
RICOH
Saga Prefectural Regional Industry Support Center
Saitama Industrial Promotion Public Corporation
SANYO TRADING
Satake Chemical Equipment Mfg.,
Shinmaru Enterprises Corporation
Shinshu TLO
Shinshu University
Shinshu University
S-Nanotech Co-Creation
Sugino Machine Limited
Sumitomo Heavy Industries Process Equipment
Sumitomo Metal Mining
SUNARROW
Super Nano Design
Taguchi Plating Industry
TAIYO KAGAKU
The Science News
Tohoku Techno Arch
Tokyo Dylec
TOKYO METROPOLITAN UNIVERSITY
TPR
Waseda University
Xigo Nanotools
YOSHIDA KIKAI
Yoshikawakuni Plastics Industries
Zenius
Zeon Corporation
Zeon Corporation
Zeon Nano Technology

# SURVEY – VISITOR'S VOICE

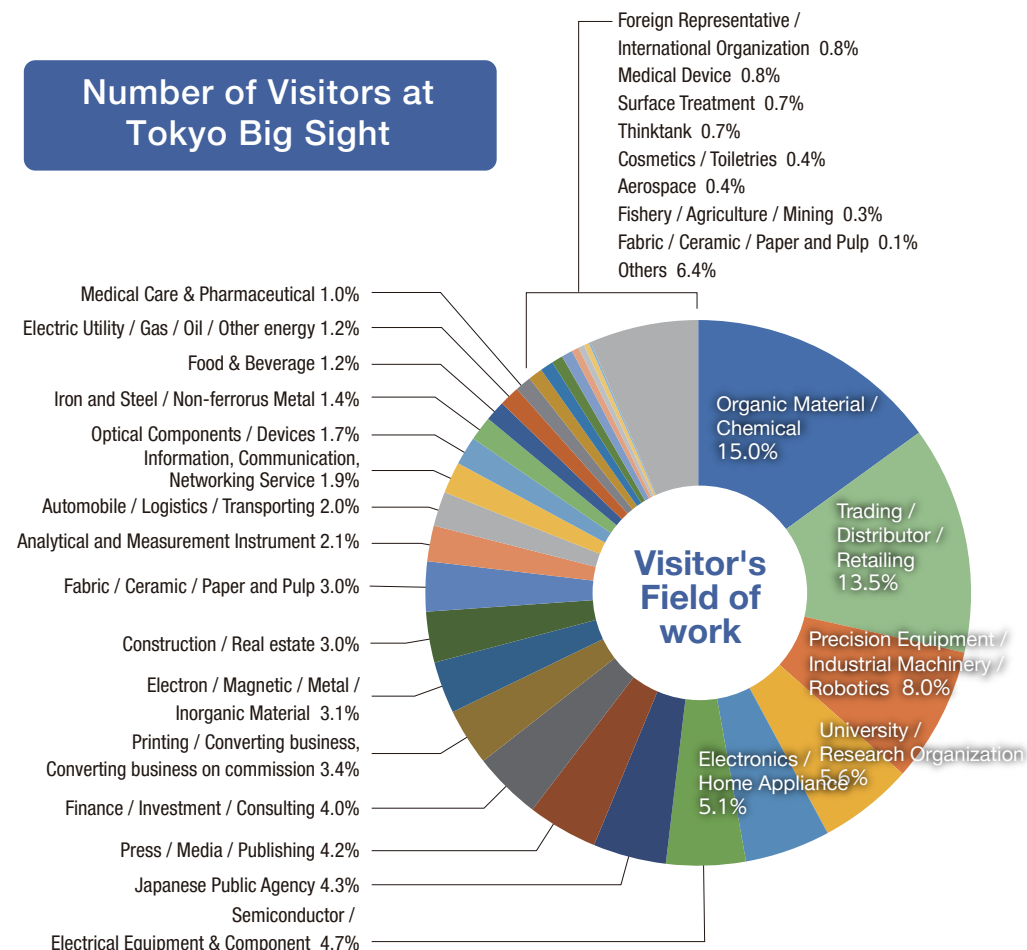
nano tech KEY FEATURE : Attendees from various industries participated.

\*This result comes from nano tech visitors

## Overall Number of Visitors (Online & Offline)



## Number of Visitors at Tokyo Big Sight

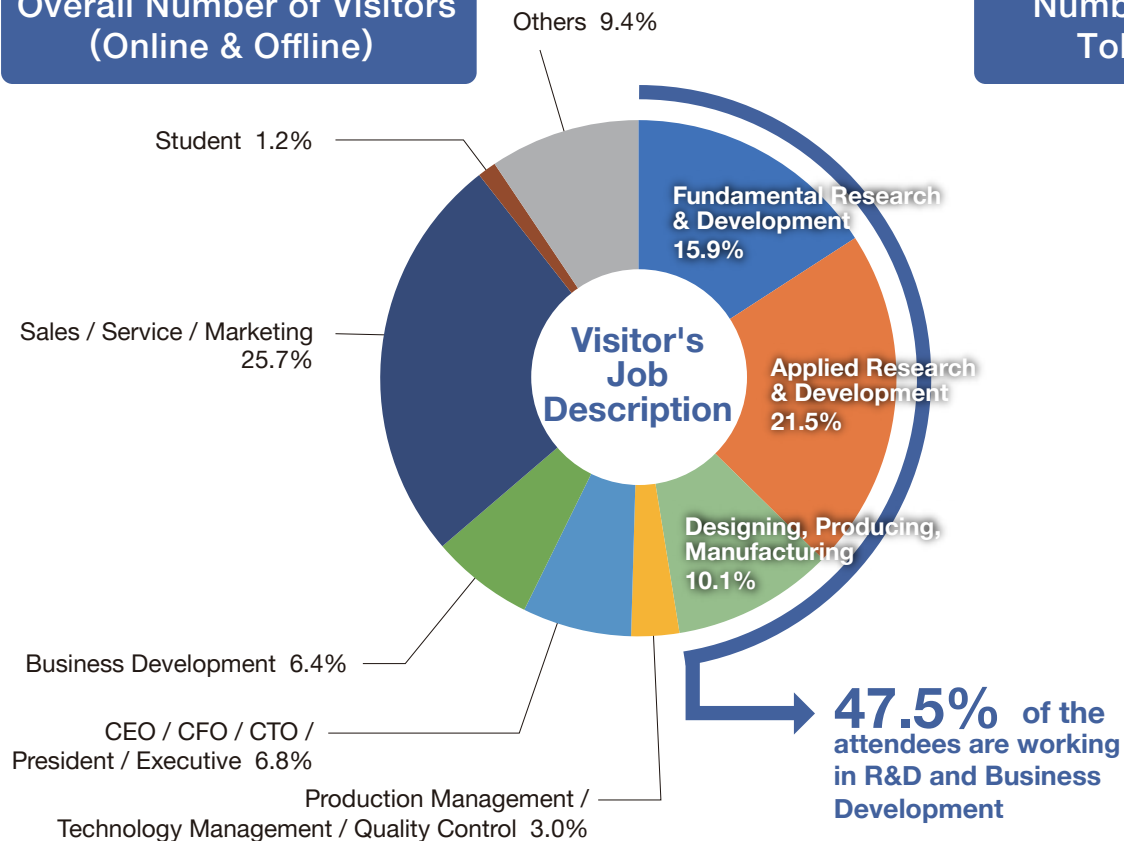


# SURVEYS – VISITOR

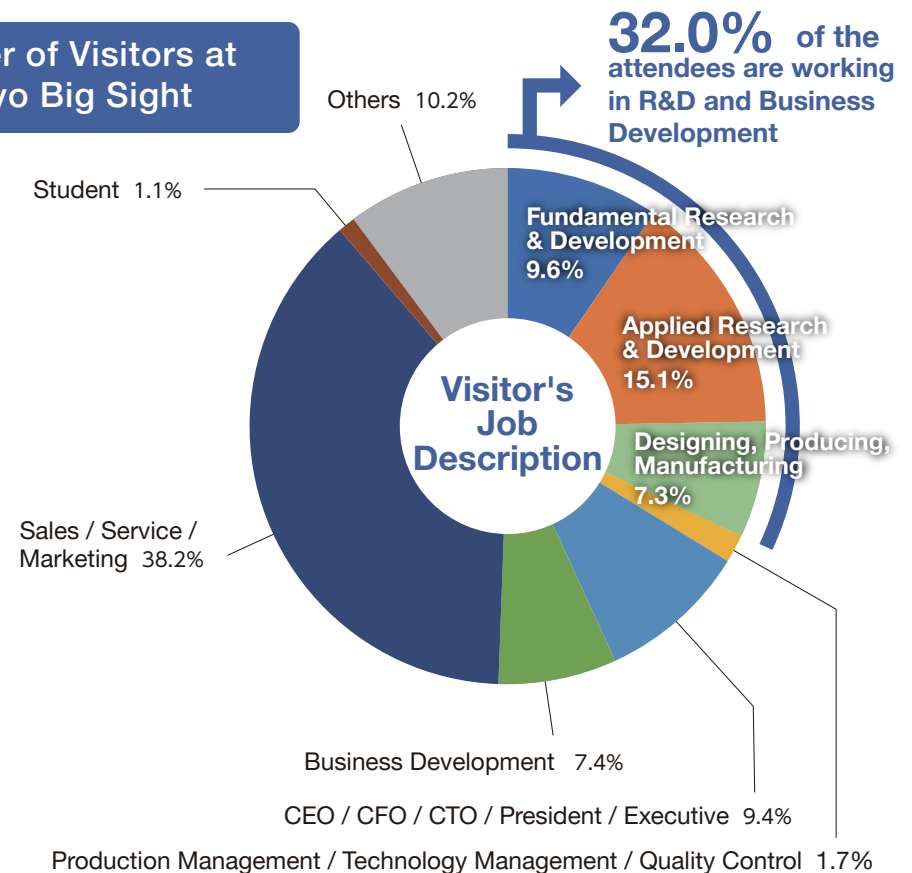
nano tech KEY FEATURE : Approx. 50% of the attendees are working in R&D and Business Development.

\*This result comes from nano tech visitors

Overall Number of Visitors  
(Online & Offline)



Number of Visitors at  
Tokyo Big Sight

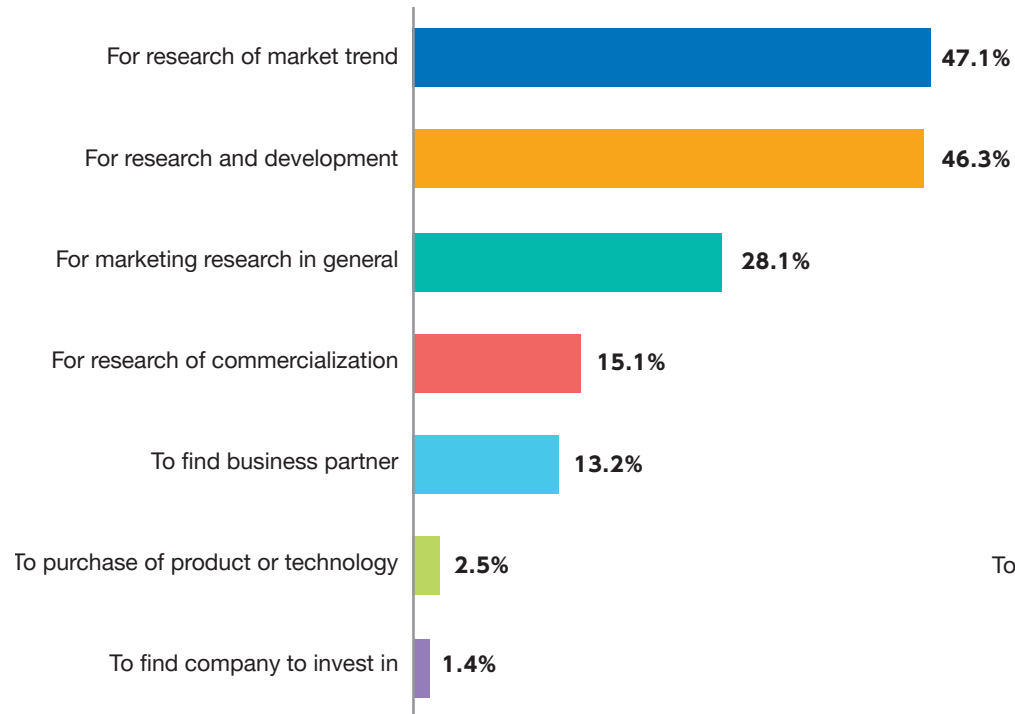


# SURVEY – VISITOR'S VOICE

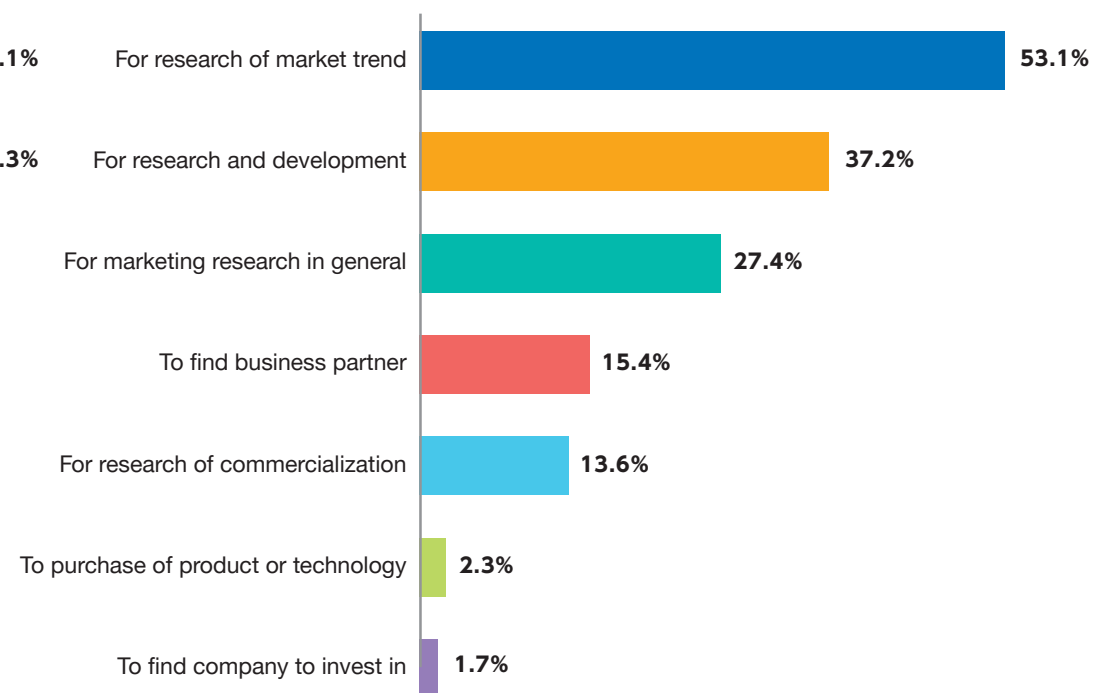
Visitor's main reason for participation is to seek new business chances for the next generation of development.

\*This result comes from nano tech visitor questionnaire (multiple answers)

## Overall Number of Visitors (Online & Offline)



## Number of Visitors at Tokyo Big Sight



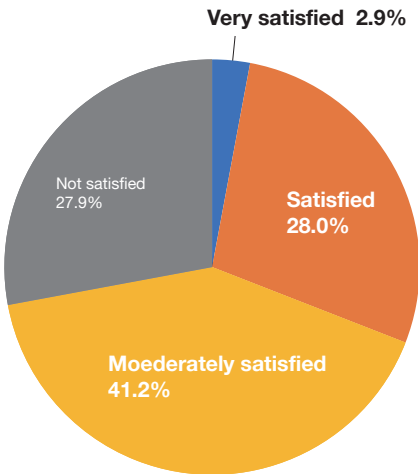
# SURVEY – EXHIBITORS VOICE

nano tech KEY FEATURE :  
Exhibitors were satisfied with the level of traffic and quality of visitors at their booth.

\*This result comes from nano tech exhibitor questionnaire

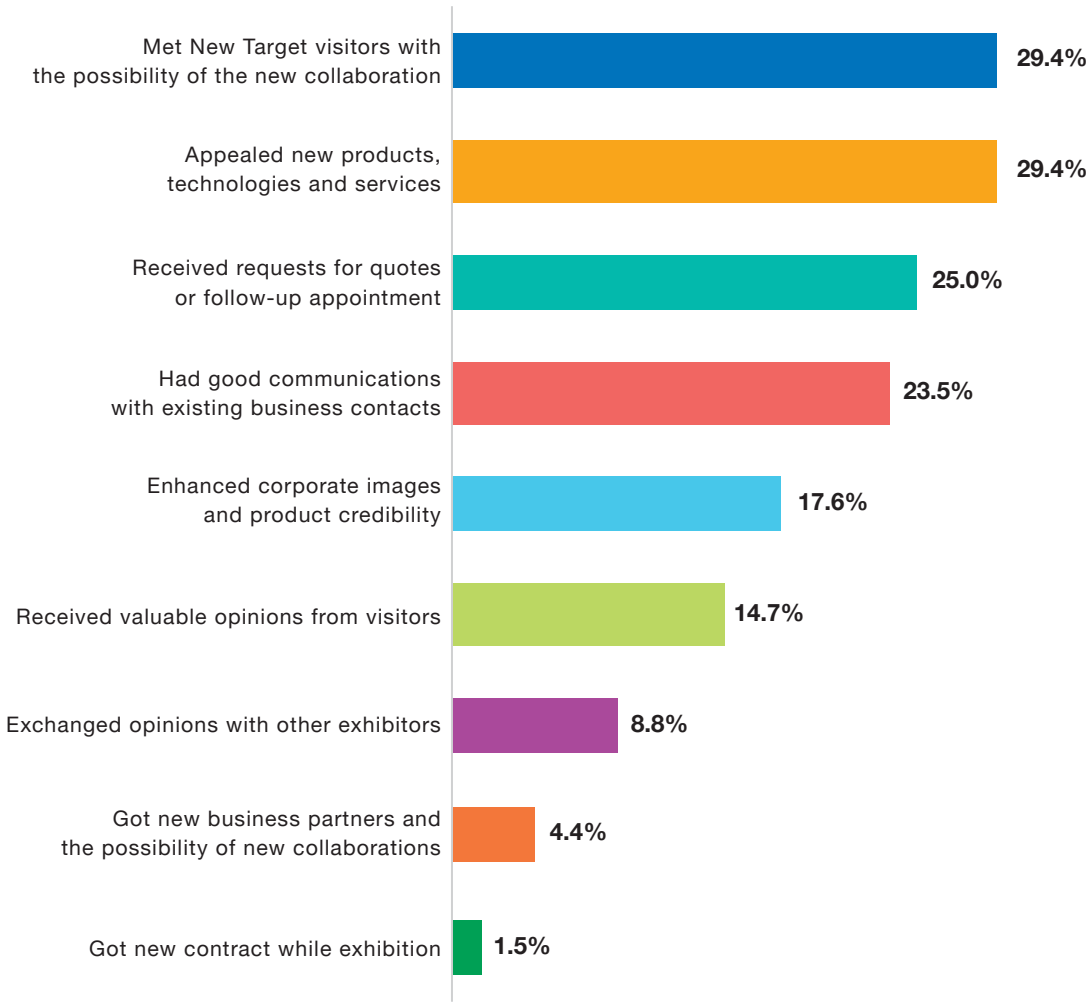


nano tech KEY FEATURE :  
Virtually most of attendees report that visiting at the nano tech is valuable to their company.



nano tech KEY FEATURE :  
Exhibitors found the show resulted in quality leads.

\*This result comes from nano tech exhibitor questionnaire (multiple answers)



# nano tech EXECUTIVE COMMITTEE

## Organized by

### nano tech Executive Committee

As of 03 March, 2021

Chairman	Tomoji Kawai, Professor, The Institute of Scientific and Industrial Research, Osaka University / Fellow, Technology Strategy Center, NEDO / Specially Appointed Fellow, CRDS, JST / Distinguished Professor, Tokyo City University
Vice-chairman	Yoshinobu Baba, Professor, Department of Biomolecular Engineering, Graduate School of Engineering / Director, Institute of Nano-Life-Systems, Institutes of Innovation for Future Society / Director, Institute of Quantum Life Science, National Institutes for Quantum and Radiological Science and Technology
Members	<p>Kohei Arakawa, Executive Technical Supervisor, ZEON CORPORATION</p> <p>Kazuo Furuya, Emeritus Scientist, National Institute for Materials Science (NIMS) / Vice-President, International Federation of Societies for Microscopy (IFSM)</p> <p>Masahiko Hara, Professor, School of Materials and Chemical Technology, Department of Chemical Science and Engineering, Tokyo Institute of Technology / Senior Visiting Scientist, RIKEN</p> <p>Shigeki Hara, Director, Nanomaterials Research Institute, AIST</p> <p>Keijiro Hirahara, Fellow, SIP-Structural Materials for Innovation, Japan Science and Technology Agency</p> <p>Yoshiyuki Hisada, Corporate International Standardization Promotion Dept. Engineering Development Promotion Div, DENSO CORPORATION</p> <p>Toshiya Imada, Director General of Materials Technology and Nanotechnology Dept, New Energy and Industrial Technology Development Organization (NEDO)</p> <p>Tadashi Ito, Chief Research Scientist, Head of Special Project Research &amp; Development Management Headquarters, FUJIFILM Corporation, Part-time Lecturer Faculty of Engineering, The University of Tokyo, Graduate School of Science and Engineering, Chiba University</p> <p>Satoshi Itoh, Chief Coordinator, Foundation for Computational Science</p> <p>Shinichi Kamei, General Manager, Research Center for Policy and Economy, Mitsubishi Research Institute, Inc.</p> <p>Naoto Kobayashi, Associate Director, Professor, Center for Research Strategy, Waseda University</p> <p>Takashi Kurokawa, Professor, Division of Basic Science and Technology, College of Engineering, Chubu University / Visiting Professor, Tokyo City University</p> <p>Yoshio Matsuda, General Manager on Special Assignment, Technology Center Planning Dept. / General Manager on Special Assignment, Investor Relations Dept., Toray Industries, Inc.</p> <p>Kazumi Nishijima, Fellow, Clinical Development Planning and Management, Mochida Pharmaceutical Co., Ltd. / Auditor, Japan Society for the Promotion of Science / Visiting Professor, Tohoku University / Visiting Professor, Yokohama City University</p> <p>Noboru Sasa, Manager, Material and Advanced Technology Development Center, Innovation/R&amp;D Division, RICOH COMPANY, LTD.</p> <p>Masahiro Takemura, SIP Director, Department of Innovaion Platform, Japan Science and Technolgy Agncy</p> <p>Naoya Wada, Director General, Advanced ICT Research Institute, National Institute of Information and Communications Technology</p> <p>Kiyoshi Yase, Assistant Managing Director, Research Association of High-Throughput Design and Development for Advanced Functional Materials (ADMAT)</p> <p>Makoto Yokota, Secretary General, Nanotechnology Business Creation Initiative (NBCI)</p> <p>Shinichi Yorozu, Coordinator, Center for Emergent Matter Science, RIKEN</p> <p>Takahiro Matsui, Senior Fellow, JTB Communication Design, Inc.</p>

Secretary  
General

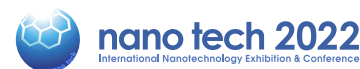
## Supported by

Cabinet Office Government of Japan / Ministry of Internal Affairs and Communications / Ministry of Education, Culture, Sports, Science & Technology / Ministry of Economy, Trade & Industry / Embassy of the Kingdom of the Netherlands / EU-Japan Centre for Industrial Cooperation / National Institute of Information and Communications Technology (NICT) / National Institute for Materials Science (NIMS) / Japan Science and Technology Agency (JST) / National Institute of Advanced Industrial Science and Technology (AIST) / New Energy and Industrial Technology Development Organization (NEDO) / Nanotechnology Business Creation Initiative (NBCI) \*Tentative

## In cooperation with

The Japan Society of Applied Physics (JSAP) / The Chemical Society of Japan / Japanese Society for Biomaterials / The Japan Society for Analytical Chemistry / The Society of Nano Science and Technology / The Japanese Society of Microscopy / The Ceramic Society of Japan / The Physical Society of Japan / The Society of Polymer Science, Japan / \*Tentative

## Next Show nano tech 2022 26-28 JANUARY, 2022 at Tokyo Big Sight See you there!



### CONTACT

Secretariat of nano tech executive committee  
c/o JTB Communication Design, Inc.  
Celestine Shiba Mitsui Building, 3-23-1, Shiba, Minato-ku,  
Tokyo, Japan 105-8335  
Phone: +81-3-5657-0760 Fax: +81-3-5657-0645  
E-mail: nanotech@jtbcom.co.jp

Jtb  
Communication  
Design

