

Here you will find
more information



<http://eng.tman.tokyo.jp>

TokyoTokyo Old meets New





To all visiting guests



First of all, I would like to thank all the people related to this event as well as the organizers for our participating in the aerospace industry exhibitions.

In the Tokyo metropolitan area, we have many excellent world-class manufacturing industries that are active by making full use of state-of-the-art technology and craftsmanship, and they are the source of industrial power for our country.

In Tokyo, in order to meet a wide range of requirements from home and abroad, including aircraft parts manufacturing, we launched the Tokyo Metropolitan Aviation Network (TMAN) in the fall of 2015.

TMAN is a completely new consortium that has originated from Tokyo, aiming at integrated production services to build a trusting relationship between “creators” and “users”. It is composed of the Tokyo Metropolitan Industrial Technology Research Institute, small and medium-sized enterprises in the Tokyo metropolitan area that boast the world’s highest technology and performance.

These companies are active in fields such as material testing, metal materials, machining, nameplates-placards, non-destructive inspection, surface enhancement, additive manufacturing & MRO, etc., and I hope they will become your good partners.

Last but not least, “Tokyo 2020 Olympic and Paralympic Games” will be held in Tokyo. It will also be a big chance for various industrial fields to showcase Tokyo’s possibilities to the world. The Tokyo Metropolitan Government will proceed with preparations intensively for less than three years. And continuous support from all of you is indispensable.

Thank you.

February 2018
Yuriko Koike, Governor of Tokyo

A handwritten signature in black ink, which appears to be "Yuriko Koike".



***Stronger together,
joining through diversity***

TOKYO Metropolitan Aviation Network

***Stronger together,
joining through diversity***

Welcome to an introduction of the TMAN (Tokyo Metropolitan Aviation Network). The TMAN provides a platform for mutual exchange, learning, and development as a high-level performance manufacturer towards the global aviation industry. Please refer to the contents of this booklet for details.



Cluster Description

Facts and Figures

Number of members: 57, Mostly SMEs (small and medium sized enterprises)
Number of employees: 5,400 (as of November, 2017)
Number of research institutes: 1
Number of airports: Two (2) Metropolitan International Airports (Haneda and Narita)

Cluster Management

Organizational form: Associated network operated by TMG (Tokyo Metropolitan Government) and its secretariat
Financing: TMG's annual budget

Main Actors (Core Members)

Main industry actors : Member companies, located in Tokyo and its vicinity, are working in different fields of aviation industry including civil and defense aircraft/engine parts manufacturing and MROs. They have been working with major Heavy Industries in Japan which are Tier-1 and Tier-2 manufacturers to aircraft and engine OEMs.

Main research institutes : TIRI (Tokyo Metropolitan Industrial Technology Research Institute)

The mission of TIRI is to promote the development of small and medium-sized enterprises through industrial technology by research, consulting and testing, and thus to contribute the quality of life for the citizens in Tokyo. TIRI has been enhancing its support in aviation industry support laboratory for testing, R & D, and supporting for technical verification on preproduction parts for aviation industry cluster TMAN.

Our Vision (Ambitions)

To contribute to the TMAN member companies for more business opportunities in the industry.
To contribute to the Japanese aviation industry for more competitiveness in the global market.

Cluster Competences and Strategy

Strength and Competencies

Tokyo is the capital city of Japan, and a center of Japanese culture and industry. In this advantageous location, the TMAN can provide a large variety of processes, and this diversity enhances a competitiveness of member companies in the industry. The TMAN members are well provided with Quality certifications including JIS Q 9100, equivalent to AS/EN, and a Nadcap for special processes using TMG's intensive supports over the years. As the result, the network provides an opportunity for integrated production with mutual engagement.

Our support

- **For core members:** Strategic support in obtaining business opportunities
- **For developing members:** Organization of seminars, networking events, Nadcap and QMS accreditation subsidization. Business matching coordination by experienced advisors.

International Aerospace Exhibition

The TMAN members have been accumulating their experiences of global aviation business through participation and networking in major Aerospace exhibitions, such as ILA Berlin, Singapore Air Show, Paris Air Show, Aviation Forum Hamburg, Japan International Aerospace Exhibition, and Aeromart Nagoya.

Main Challenges

Competition: The TMAN has been providing intensive strategic supports to the members towards global competitiveness and business expansion. We expect that those competencies can lead member companies to become competitive players in the industry.

Regional Strategy: Tokyo has a fluency to whole domestic industry and a potential to lead the Japanese aviation industry. We expect that the TMAN can propel the industry development by cooperating with colleagues and related authorities.

Contact: info@tman.tokyo.jp

Tokyo Metropolitan Aviation Network (TMAN)

Member Companies

As of November 2017

No.	Firms	Industry ENTERED	SEGMENT					CERTIFICATE					PROCESS											WEB Site URL									
			AIRFRAME	ENGINE	COMPONENT, APPLIANCE	CABIN INTERIOR, SYSTEMS	DEFENSE	SPACE	ISO 9001	ISO 14001 or Equiv.	ISO 17025	ISO 27001	JIS Q 9100 or ASI/EN9100	Nadcap	UL Standards	Customer's Certificate	MACHINING	NON-METALLIC or COMPOSITE	SHEET METAL, PRESS	FORGING	CASTING, DIE-CAST	NDI	SURFACE TREAT & PLATING		HEAT TREATMENT	WELDING & BONDING	SURFACE ENHANCEMENT	Misc. SPECIAL PROCESSES	ASSEMBLY	PAINTING	Electrics & Electronics	TOOL, FIXTURE	INSPECTION, MEASUREMENT
1	Asahi Engineering Co., Ltd.	✈						✓	✓	✓																							http://www.asahi-engineering.co.jp/english/index.html
2	Daishin Seiki Corporation	✈		✓				✓	✓	✓																							http://www.disn.co.jp/index-en.html
3	Denkahimakukougyou Co., Ltd. 【AMATERAS】	✈			✓			✓	✓	✓																							http://www.dhk.co.jp/en/index.html
4	DenshiKagakukougyou	✈			✓			✓	✓	✓																							http://www.denshikagaku.co.jp
5	Dowa Forging Co., Ltd.	✈						✓	✓	✓																							http://www.dowa-forging.co.jp/en/index.html
6	Fuji Manufacturing Co., Ltd.	✈	✓	✓	✓			✓	✓	✓																							http://www.fujimfg.co.jp/english
7	Hachiyoo Inc.	✈						✓	✓	✓																							http://hachiyoo.com/english
8	Hamano Products Co., Ltd.	✈						✓	✓	✓																							http://hamano-products.co.jp
9	Hakudo	✈						✓	✓	✓																							http://www.hakudo.co.jp/en
10	HAT Co., Ltd. 【AMATERAS】	✈		✓	✓			✓	✓	✓																							http://www.japan-company.jp/h-a-t/index.html
11	Hoei Industries, Ltd.	✈						✓	✓	✓																							http://www.hoeikogyo.co.jp/
12	Japan Aerospace Corporation	✈	✓	✓	✓	✓	✓	✓	✓	✓																							http://www.j-aero.co.jp/en
13	Kamata & Co.	✈						✓	✓	✓																							http://www.kamata.tv/press-sou.shtml
14	Kamijima Heat Treatment Co., Ltd. 【AMATERAS】	✈		✓	✓			✓	✓	✓																							http://www.kamijima.co.jp/eng/index.html
15	Kanamori Seisakusho	✈						✓	✓	✓																							http://www.kanamori-gr.co.jp
16	Kawamura Manufacturing Co., Ltd.	✈				✓		✓	✓	✓																							Not Available
17	Kiguchi Technics Inc.	✈	✓	✓				✓	✓	✓																							http://www.kiguchitech.co.jp/english/index.html
18	kobayashi Kogyosho	✈						✓	✓	✓																							Not Available
19	Kobayashi Precision Industry Co., Ltd.	✈			✓	✓		✓	✓	✓																							http://www.kobasei.com/

☑ : Under Accreditation

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20	Maeda Corporation	✈	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	○							○											http://www.maedash.co.jp/en	
21	MARKTEC Corporation	✈	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	○							○											http://www.marktec.co.jp/en/tabid/272/Default.aspx	
22	Mega Works Corporation		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	○																		http://www.megaworks.co.jp	
23	Metal Technology Co., Ltd.	✈	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	○		○					○	○										http://www.kinzoku.co.jp/english/index.html?lid=1	
24	Mimasu Industries Co., Ltd. 【AMATERAS】	✈	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	○							○	○										http://mmsk.co.jp/english/index.html	
25	Misashi Co., Ltd.	✈		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	○																		http://misashi.co.jp/eng	
26	Mitsuya Co., Ltd.	✈		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								○												http://www.mitsuya-plating.com
27	Nagao Industry Co., Ltd.			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	○		○																http://www.nagao-inck.co.jp	
28	Nagase Co., Ltd. 【AMATERAS】	✈		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			○																http://www.japan-company.jp/nagase-shibori	
29	Natori Seisakusho Co., Ltd.			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	○		○					○											http://www.natori-mnf.co.jp	
30	Nicchu Co., Ltd.	✈	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓										○									http://www.blast.co.jp/english/index.php/top	
31	Nippon Precision Casting Corporation	✈	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					○			○	○										http://www.npc-c.co.jp/about/index.html	
32	Nishihara Rikoh Corporation			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								○											http://www.nishihararikoh.co.jp/en.html	
33	Ogino Industrial Co., Ltd.	✈		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	○		○					○	○										http://www.ogino-net.co.jp/en/index.html	
34	OK Print Corporation	✈		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								○											http://www.okpjp/english/index.html	
35	O-KEI Resin Co., Ltd.	✈	✓								☑		✓	✓	○											○							http://www.ok-jyushi.co.jp	
36	Sanno Techno-Arts Co., Ltd.	✈	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	○											○							http://www.sanno-ta.jp	
37	Shiono Precision Co., Ltd. 【AMATERAS】	✈	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	○																		http://www.shiono-precision.com/english	
38	Shoji Works Co., Ltd.			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	○																		http://www.shoji-ss.jp/pc	

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As of November 2017

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39	Showa Precision Sheet Metal Co., Ltd.	✈				✓																											http://www.showa-3d.com/en
40	Sugasawa Seiki Co., Ltd.	✈		✓	✓																												http://www.sugasawa.com/e_top
41	T&E Co., Ltd.	✈	✓	✓	✓																												http://www.tandecold.com
42	Taiyo Kinzoku Industry Co., Ltd.																																http://taiyo.cc/pg473.html
43	Taiyo Stainless Spring Co., Ltd.																																http://taiyo-sp.co.jp/en
44	Tamayakin Co., Ltd. [AMATERAS]	✈	✓	✓	✓																												http://tamayakin.co.jp/english/index.html
45	Tech Strake	✈	✓	✓	✓																												http://t-strake.moon.bindcloud.jp
46	The Japan Cee-Bee Chemical Co., Ltd.	✈	✓	✓	✓																												http://www.jcbchem.co.jp/english/company.html
47	The MOT Company, Ltd.	✈	✓																														http://www.mot-company.com/index_en.html
48	TKY-Products Corporation	✈			✓																												http://www.tky-products.co.jp/english.html
49	Tokyo Decal Industry Ltd.	✈			✓										✓																		http://www.tdicorp.co.jp/en
50	Tomitarashi Co., Ltd.	✈																															http://www.tomita-rashi.com
51	Tosei Electrobeam Co., Ltd.	✈		✓	✓																												http://www.tosei.co.jp
52	Toyotanko Co., Ltd.																																http://www.toyotanko.co.jp
53	Urano Co., Ltd.	✈	✓	✓	✓																												http://kk-urano.com
54	Yamato Gokin Co., Ltd.	✈			✓																												http://www.yamatogokin.com/english/index-e.html
55	Yoshimasu Seisakusho Co., Ltd. [AMATERAS]	✈	✓	✓																													http://www.yoshimasu.com/index-e/index.html
56	Yoshino Denka Kogyo Inc.	✈																															http://www.yoshinodenka.com/en
57	Yuki Precision Co., Ltd.	✈	✓	✓	✓																												http://www.yuki-precision.fr

☑ : Under Accreditation



Maintenance, Repair & Overhaul

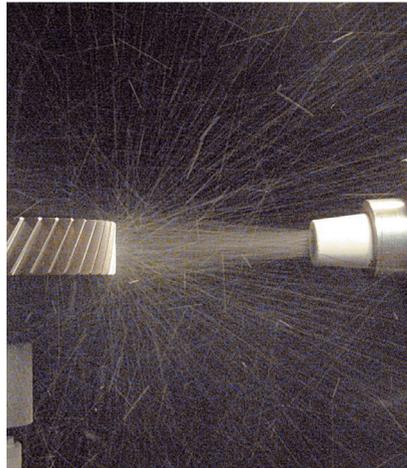


Fuji Manufacturing Co., Ltd.

Core Competencies

We, Fuji Manufacturing, are a Japanese company specialized in building air-blasting machines and are also an exclusive distributor in the Southeast Asia region of the special abrasive named 'Enviro-Strip series', which are used for paint removal in **MRO** field in U.S.A. In the course of maintenance of aircraft, these abrasives are regarded as the most proper ones for both CFRP materials and Aluminum base materials in place of chemical treatment, and we can provide abrasives, machines and technologies all together on target. In addition, these series of media also comply with MIL specification or Boeing specification.

Besides, we have so much knowledge and enormous experiences in the peening applications used for improvement of fatigue life and durability of metal parts, and we are proud that we have delivered over 30,000 machines (some are used in the process of aerospace industries).



Certs

Contact

sales engineering
info@fujimfg.co.jp

Website

<http://www.fujimfg.co.jp/english>



Material Testing



Kiguchi Technics Inc.

Core Competencies

Kiguchi Technics is an independent material testing laboratory. We machine the materials into specimens, perform inspection and testing. Those processes are all performed in house. We have many accreditations needed for material testing in the aircraft industry.



Certs

JIS Q 9100
ISO/JIS Q 14001
ISO/IEC 17025
Nadcap:Materials Testing

Contact

takeshita_k@kiguchitech.co.jp

Website

<http://www.kiguchitech.co.jp/english>



Surface Enhancement



Nicchu Co., Ltd.

Core Competencies

For nearly 60 years since the foundation, we have manufactured and supplied more than 22,000 units of shot/air peening machines and blast machines. About 1,000 units among them have been delivered to the customers in the overseas markets.

In addition, based on JIS Q 9100 accreditation, we are providing the consigned service to perform the peening process for various parts and components such as turbine blades, exploration equipment and drilling equipment.

Design of peening equipment for dedicated purpose and measurement by the X-ray residual stress measurement machine are also part of our services.

We have the Cerajet as well, which is unique & patented product, and more than 10,000 sets have been used for safe operation of Shin-kansen (bullet trains) and other trains.



Certs

JIS Q 9100

Contact

Yasuhiro Kishinami
y-kishinami@blast.co.jp

Website

<http://www.blast.co.jp/english/index.php/top>



Decal-Interior/Exterior



SANNO TECHNO ARTS CO.,LTD.

Sanno Techno-Arts Co., Ltd.

Core Competencies

SANNO Techno-Arts produces placards, decals, markings and other printed signs that have excellent visibility, elasticity, and flame-retardant function for aircraft. Our products are widely accepted and highly appreciated by airlines and manufacturers in aviation industry. Our quality ensures not only the highest visibility with beautiful and clean appearance, but also the highest durability without causing any peeling-off or fading-out of color. Last year (Nov. 2017) we were acquired EN9100 (equivalent to JIS Q/AS9100) by Quality Austria, the world-leading Certificate Authority.



Certs

EN 9100
ISO 9001
ISO 27001
MSJ 4000
GREEN PRINTING

Contact

Hiroshi Iji
iji@sanno-ta.co.jp

Website

<http://www.sanno-ta.jp>



Sugasawa Seiki Co., Ltd.

Core Competencies

Sugasawa Seiki is a manufacturing company specializing in precision machining and assembly of machined parts. They are used for fuel injection system and hydraulic control valves of diesel engines. We also provide parts for various hydraulic control valves of aircraft systems. We have capability to produce parts with integrated process within our company including NDT, mating-pair parts assembly, and performance test (e.g. Hydraulic Pressure Test and Flow Rate Test).



Certs

EN 9100
Nadcap:Non Destructive Testing (MT)
ISO 22301 (Business Continuity Management System)

Contact

Nobuhiro Hasegawa
hasegawa_nobu@sugasawa.com

Website

http://www.sugasawa.com/e_top



TAMAYAKIN

Tamayakin Co., Ltd.

Core Competencies

Tamayakin is a commercial heat treater, having more than 65 years experience of wide variety of heat treating processes, such as hardening of steels, carburizing, nitriding, and heat treating of non-ferrous metals (aluminum alloy, titanium alloy, nickel based alloy). We have been Nadcap certified for Heat Treating since 2012 and have been compliant with JIS Q 9100 standard (equivalent to JIS Q/AS9100) since 2009.



Certs

JIS Q 9100
Nadcap:Heat Treating

Contact

Naohisa Saito
saito@tamayakin.co.jp

Website

<http://tamayakin.co.jp/english>

Core Competencies

Tokyo Decal Industry has approximately 60 years of experience of manufacturing and sales of placard and identification labels which has superior characteristics of heat resistance and weathrerability. They are used for space rocket, fighter aircraft, helicopter and missile, etc. As a next step, we intend to manufacture and merchandize sensors and switches which printing circuit technologies are applied.



Certs

ISO 9001
ISO 14001
MIL-STD
UL

Contact

Overseas Planning Dept.
Yoko Kojima
kojima_yoko@tdicorp.co.jp

Website

<http://www.tdicorp.co.jp/en>

Core Competencies

Starting from parts for Boeing 757, Urano has been accumulated more than 30 years experience of parts manufacturing for aviation industry. We specialize in hard-to machine materials such as Inconel and Titanium for aircraft and engine. For aircraft parts, we manufacture large shape titanium fitting of structural parts used for B777s, B787s, B747-800, Embraer ERJs, Airbus A350s, Bombardier Global Express G7000 and MRJs. Recently, Urano has successfully entered into engine parts market for GE Passport Engine and Pratt & Whitney PW1100G. We have about 70 machining centers (mainly 5 axis machine) and offer delivery dates with 24 hour/ 359 days operation. We have established an integrated production system within our company including procurement process of materials.



Certs

JIS Q 9100
ISO 14001

Contact

Shinzo Mino
u2511@beige.ocn.ne.jp

Website

<http://kk-urano.com>



Yamato Gokin Co., Ltd.

Core Competencies

Yamato Gokin is specializing in manufacturing plates, bars, and discs of special copper alloys including chrome copper, beryllium copper, and special aluminum bronze alloy. We have accumulated orders of materials for aircraft landing gear and actuator bushing/bearing from domestic and oversea MROs (including AMECO and SAFRAN), tier-1 manufactures (including SHIMADZU and NABTESCO) and landing gear OEMs (including SAFRAN and LIEBHERR).

We produce more than 100 types of various copper alloys to satisfy customers' needs, even in small amount of materials with short delivery time.



Certs

JIS Q 9100
ISO 9001

Contact

Reiichi Endo
reiichi.endo@yamatogokin.com

Website

<http://www.yamatogokin.com/english/index-e.html>



Yoshimasu Seisakusho Co., Ltd.

Core Competencies

Yoshimasu Seisakusho specializes in press forming for super alloys such as titanium, cobalt and nickel alloys, which are commonly used for aircraft engines and space applications, and require higher techniques and skills to produce parts. Our company offers those kinds of products, with our 50 year experience.

We own Nadcap international accreditation in four commodities; Non-Conventional Machining, Welding, NDT and Heat Treating as well as ISO/ISMS, etc.

One of our strengths, "In-house all processes", will contribute to our customers for their efficiency. A newly developed technique of hot-forming titanium alloy makes processing time much shorter. The new technique has already been applied to aircraft and engine parts fabrication, resulted in short delivery time and low cost.



Certs

Acquired Nadcap following skills.

- Laser/Wire processing
- Welding
- Heat Treating
- Fluorescent penetrant inspection

Contact

Hisao Suganuma
h-suganuma@yoshimasu.com

Website

<http://www.yoshimasu.com/index-e>

Business Guide

Our mission is to promote the development of small-and medium-sized enterprises through industrial technology by research, consulting and testing, and thus to contribute the quality of life for the citizens in Tokyo.

Testing service

We perform tests, measurements, and analysis to meet the needs of customers. We can offer technical advice based on these results.

For examples,

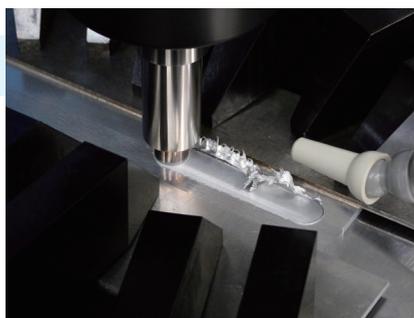
- Nondestructive testing
- Vibration testing, Shock testing

Research and Development

Basic research refers to the research which TIRI plans and implements independently for the purpose of developing new technology or for coming up with solutions for issues confronting many SMEs.

For examples,

- Dissimilar Metal Joining by Friction Stir Welding
- Press Forming of Titanium Alloy sheets



Certs

ISO/IEC 17025

Contact

Mechanical Technology Group
tiri-aviation@iri-tokyo.jp

Website

<http://www.iri-tokyo.jp/site/kikai/aviation.html>

TIRI has been providing technical assistance to newcomers and established enterprises to the aviation industry, mainly aviation industry clusters "TMAN" and "AMATERAS" established by Tokyo Metropolitan Government.



Aviation Industry Support Laboratory

TIRI established "Aviation Industry Support Laboratory" on 13 Dec. 2017, to enhance technical support for aviation industry, for example: specialized testing service for aviation standards, advice for technical verification on preproduction parts, etc.

Support Contents

Specialized testing service for aviation standards (paid services)

The acceptance of specialized testing services for aviation standards are starting on 20 Dec. 2017.

Start accepted from 20 Dec. 2017

- Standard Test Methods for Determining Average Grain Size (ASTM E112)
- Standard Test Methods for the inclusion Content of steel (ASTM E45 Method A)
- Standard Test Methods for Rockwell Hardness of Metallic Materials (ASTM E18)
- Standard Test Method for Knoop and Vickers Hardness of Materials (ASTM E384)

Scheduled for start accepting in April

- Salt spray test (ASTM B117)
- Flammability test (FAR 25.853)
- Vibration Test (UN 3480)

Support for technical verification on preproduction parts (For aviation industry cluster "TMAN")

TIRI provides the support for technical verification on preproduction parts mainly for aviation industry clusters TMAN.

JAPAN INTERNATIONAL AEROSPACE EXHIBITION 2018 TOKYO

November 28 (Wed.) to 30 (Fri.) 2018

Venue : Tokyo Big Sight(Tokyo International Exhibition Center)

Organizers :  The Society of Japanese Aerospace Companies(SJAC)

 Tokyo Big Sight Inc.

Special Cooperation :  TOKYO METROPOLITAN GOVERNMENT

Welcome to TOKYO

- the city developing
towards 2020

Tokyo is a city where a lot of information, culture and entertainment get together. Tokyo has many different types of area; from streets preserving the historic atmosphere to downtown crowded with skyscrapers.



- Japan is the second largest economic country in Asia.
- good transportation from all over the world
- a variety of hotels
- entertainment; traditional live performance (Kabuki, Noh), museum and amusement parks
- coexistence of modern and old culture
- food culture; Washoku, Sushi and many restaurants with international reputations



TOKYO BIG SIGHT

(Tokyo International Exhibition Center)

3-11-1 Ariake, Koto-ku, Tokyo, 135-0063, Japan
www.bigsight.jp

- the biggest Exhibition center in Japan (95,420㎡)
- placed in the heart of Tokyo
- good transportation; trains, monorail and waterbus
- in 2016, the number of events was 304, and the number of visitors was 14.7million.
- Tokyo Big Sight Inc. is both venue owner and exhibition organizer.