

TOYO Corporation

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CORPORATE  
PROFILE  
2022

[www.toyo.co.jp/english/](http://www.toyo.co.jp/english/)

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# The World's Most Advanced Solutions

## Our Vision Helps Shape the Future

Overcome any challenge with our  
technological expertise and experience

We believe measurement technologies fuel the growth of the world's leading companies and industries. As a leader in measurement technologies, TOYO Corporation provides the world's most advanced solutions.

The company is comprised of eight diverse business segments. They align with key growth area trends in information technology, communications, networking, automotive, 5G, cyber security, and medical science.

Today we take another giant step into the future to seize the moment that awaits us.

Will you take this journey with us?

### Our 8 Business Segments



**ICT**  
Provide reliable, accurate, and secure operations for communications



**Ocean / Defense & Security**  
Market solutions to characterize the world's oceans



**Mechatronics / Noise & Vibration / Sensors**  
Support the automobile, railway, and industrial machinery industries



**Software Quality & Productivity**  
Support improvements in software development



**Physics / Energies**  
Support the creation of new and renewable energy infrastructure



**Life Science / Materials**  
Offer solutions in the life and materials science fields



**EMC & Antenna Systems**  
Provide solutions for electromagnetic environments



**Security & Lab Company**  
Apply measurement technologies to cybersecurity products and services

For more details, refer to pages 14 to 17 ▶





## MESSAGE FROM CEO

### Creating the Future with "Measurement Technologies" Cutting-edge Measurement Solutions Support Technology Innovations

As a leading provider of "measurement" solutions, TOYO Corporation has been contributing to technology innovations in diverse industries. Through our variety of business segments - ICT (Information and Communication Technologies), Automobiles, Environment and Energy, EMC (Electromagnetic Compatibility), Ocean Defense and Security, Software Development, Life Science, and Information Security, we provide solutions in Japan and international markets.

Moving onto the next stage, we are on a mission to promote growth strategies by developing high-value-added original products and solutions, focusing on high potential markets in both domestic and overseas, and making strategic investments.

As TOYO's diverse business segments directly contribute to achieving SDGs and making the sustainable society, we remain committed to solve social challenges and enhance corporate value.

Toshiya Kohno  
President & CEO

## Corporate Philosophy

### Creating the Future with Measurement Technologies

As a leading company in measurement technologies, contribute to enriching society, and realizing human and earth friendly environments.

### Technology Interface

Accelerate and support technology innovation by providing the most advanced measurement solutions to the global industrial arena.

### Enhance Corporate Value

Ensure the success and well-being of employees and stakeholders by continuously creating measurement systems, products, and services.

## Action Guidelines

### Be Professional

Take on tasks with integrity and maintain a high degree of dignity and capabilities.

### Be Innovative

Venture into new businesses and technologies with a flexible mindset.

### Medium-Term Management Plan "TY2024"

TOYO formulated new growth strategies based on three pillars, "business strategy", "financial and capital strategy" and "strengthening our management foundation". As a leading provider of measurement solutions contributing to creating a sustainable society, we enhance corporate value and shareholder returns.

[https://www.toyo.co.jp/TY2024\\_EN](https://www.toyo.co.jp/TY2024_EN)







# Our Approach to Sustainability

TOYO Corporation practices its Corporate Philosophy in creating a sustainable future, and strives to continuously enhance corporate value.

## Five Materiality Themes

For more information, visit Sustainability page on our website



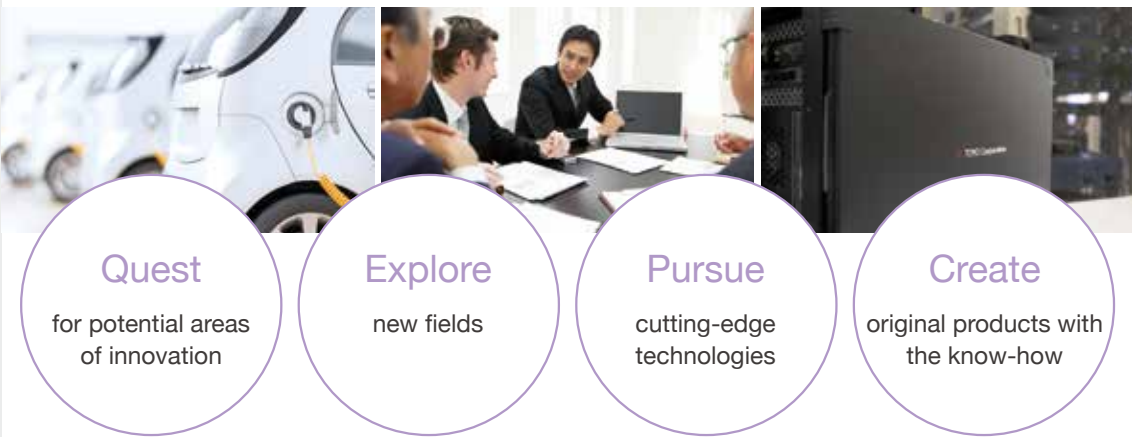
	Materiality	Activity Targets	Our Vision	Related SDGs
Solving Social Issues Through Our Business	<div>01</div> <div>Contribute to Innovation and Industrial Growth</div>	<ul style="list-style-type: none"><li>Assist Development for Next-Generation Mobility and Telecommunication</li><li>Accelerate Open Innovation</li><li>Encourage Leading-edge Technology</li><li>Reinforce High-quality and High-performance Organization</li></ul>	In order to realize the society where people live more comfortable life and all social issues are solved, as stated in "Society 5.0", technology innovation and industry development are essential. In a number of technical fields and industries, we continue to support global technology innovation and industry development by providing companies and research institutions with complete solutions based on "measurement" technologies. In addition, through collaborative work with various global partners, we contribute to innovation by generating unconventional ideas.	
	<div>02</div> <div>Promote Environmental Conservation</div>	<ul style="list-style-type: none"><li>Pursue a Carbon-free Society</li><li>Achieve a Recycle-oriented Society</li><li>Restore Ocean Health</li></ul>	Environmental problems such as climate change and ocean pollution are global challenges, and to sustainably develop our society and businesses, we must preserve our planet's environment. We will contribute to promoting environmental conservation by providing solutions such as support for new energy development to reduce environmental impact and carefully reducing the effects on the environment caused by our business activities.	
	<div>03</div> <div>Actualize Safe, Secure, and Fulfilling Lives</div>	<ul style="list-style-type: none"><li>Enable Safe and Secure Telecommunication Environment</li><li>Promote Disaster Management</li><li>Establish a Safe Mobile Society</li><li>Contribute to Health Improvement</li></ul>	Safety and security are essential for us to live in a prosperous society. To achieve this we need a strong and advanced infrastructure, and the technologies to support it. The solutions we provide for next-generation mobility development, disaster preparedness, telecommunication infrastructure security, and medical care, contribute to a safe, secure, and fulfilling lives.	
Management Base	<div>04</div> <div>Foster Diverse and Competitive Talents</div>	<ul style="list-style-type: none"><li>Pursue Diversity and Human Rights</li><li>Pursue Sustainable Skill Development</li><li>Enhance Comfortable Working Environment</li></ul>	As a company committed to technology innovation, securing and developing human resources with highly professional expertise and flexible perspectives are fundamental to its sustainable business activities. Responding to the changes flexibly in human resource environment and enhancing the personnel system will support workers with various backgrounds, experiences, and skills, and will create a workplace where all workers can exercise their full potential in jobs suited to their abilities.	
	<div>05</div> <div>Establish a Strong and Sound Management Base</div>	<ul style="list-style-type: none"><li>Maintain and Enhance a Strong and Sound Corporate Governance Structure</li><li>Develop and Reinforce Risk Management System</li><li>Ensure Compliance</li></ul>	For a company to enhance its corporate value in a mid-long-term context, and to sustain its growth, it needs to establish a strong and sound management base. Our company, in accordance with our corporate philosophy and action guidelines, in the long run, will maintain and strengthen a fair and successful relationship with various stakeholders, and will construct a strong and sound governance system that incorporates appropriate monitoring and supervisory functions.	



# Measurement Solutions Provider

As a "Measurement Solutions Provider", each engineer specialized in sales, development and technical support works together and solves customers' challenges. Leveraging advanced knowledge and know-how of the technologies, we cooperate with partners all over the world and develop original in-house products actively.

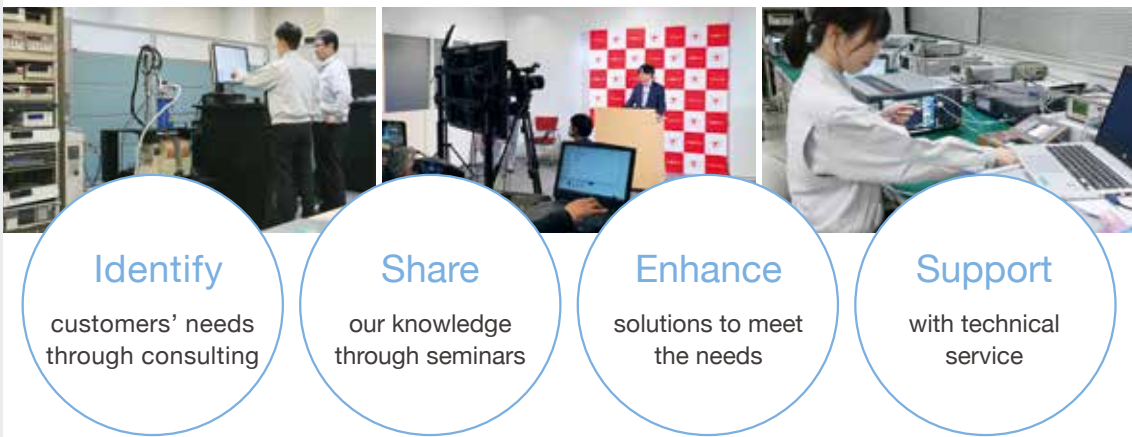
## Be Aware of the Market **Needs** and Create Our **Original Products**



### With partners all over the world ——

Making partnerships with more than 150 companies in the world, TOYO provides cutting-edge measurement technologies. In the changing markets, we keep questing for new technologies in emerging fields and developing our original in-house products. Utilizing our 70 years' experience and skills, we provide new solutions created with our partners.

## Solve the Challenges with Our **Total Solutions**



### With customers whenever necessary ——

We have committed to providing training and consulting supports and highly qualified repair and calibration services, along with delivering products that meet customers' needs. TOYO continues to support our customers as a value-adding partner and solve challenges together.

### Facilities that support TOYO's solutions



**Technical Research Laboratory**  
Adopt new technologies and develop original products



**Keio-TOYO Nano Imaging Center**  
Office for Industry-Academia Collaboration between TOYO and Keio University Central Service Facilities for Research



**Kasai Service Center**  
Operate as a logistics, incoming system inspection, and calibration facility



**Calibration Laboratory**  
Provide calibration services as an accredited ISO/IEC 17025 facility

**Provide**  
best solutions

to meet  
customers'  
expectations  
as a value-adding  
partner

# In-house Development to Create Measurement Solutions

TOYO develops original or customized products to create optimal solutions that would fit customers’ needs. "One Technologies Company", an in-house company, actively works on development of highly valued and qualified original products, cooperating with partners and utilizing our technology seeds.

## Highly Valued and Qualified In-house Products

We develop original products and integrated system that incorporates several measurement equipment for various fields, leveraging our advanced technologies and many years of experience.



High Frequency Impedance Measurement System



Emissions Measurements & Analysis Software (EPX/RE & EPX/CE)



Packet Capture/Analysis System (SYNESIS)



Network Monitoring System (NetEyez)

### Products Developed/Customized by TOYO

- |   |  |  |
|---|--|--|
| ■ High Frequency Impedance Measurement System     | ■ 3-D Impedance Analysis Software              | ■ EMI Mitigation Assistance Software   |
| ■ LC Material Characteristics Measurement System  | ■ Automatic Motor Torque Measurement System    | ■ Packet Capture/Analysis System       |
| ■ Hall Effect Measurement System                  | ■ DDoS Mitigation System                       | ■ Network Monitoring System            |
| ■ Ferroelectric Substance Evaluation System       | ■ Automatic EMI Measurement System             | ■ Autonomous Vehicle Testing Ecosystem |
| ■ Fuel Cell Test System                           | ■ Automatic Immunity Measurement System        |  |
| ■ Multi-Channel Self Discharge Measurement System | ■ Emissions Measurements and Analysis Software |  |

## "One Technologies Company" with an Eye on the World

One Technologies Company is an in-house company that develops and commercializes products built on TOYO's Intellectual Property. The company develops unique, innovative, high-value, and high-quality proprietary products. As a technology innovator in the measurement technologies space, we aim to provide products and solutions that are "Only One" and "Number One" in the world.

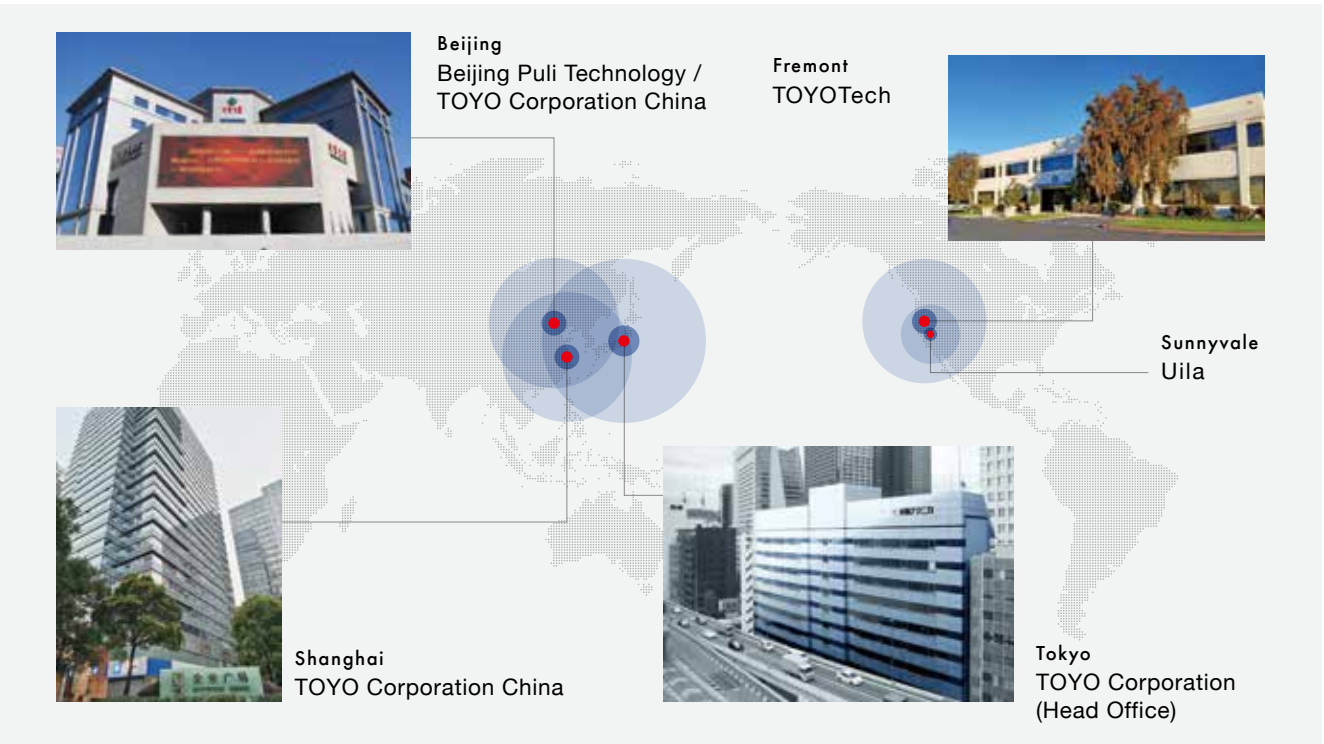


# Advanced Measurement Solutions for the Global Market

TOYO exports its original products to large markets in the world, aiming to expand its sales network. Operating subsidiaries in the US and China, we expand our sales areas to Asia and Europe. We focus on developing products and services especially for emerging fields and exporting them to the world.

## Business Operations Extending Around the World

We operate business locations in the US, where R&D on autonomous driving is in progress, and in China, where R&D investments are expanding.



## Aggressive Entry into New and Emerging Technology Fields

TOYO focuses on new and emerging measurement technologies such as 5G (5G mobile communications system) and CASE (connected, autonomous driving, sharing, and electrification), and develops solutions sought out by customers.





# TOYO IN SOCIETY

## TOYO's Connection with Society

TOYO's solutions contribute to creating a better society.  
Although you may not see them or sense us, they are there; we are there.  
Here are just a few examples.



For more information, visit  
"TOYO in SOCIETY" page on our website

### Education

Supporting the development of teaching materials for engaging science classes

— Innovation in school with IoT (Internet of Things) teaching materials



### Environment

Supporting the Nobel Prize-winning development of blue LEDs

— Advanced measurement technology behind the prize

### Science

Supporting preliminary stone material analysis of the "Hayabusa2"

— Analyzing the sample of Asteroid Ryugu



### Disaster Prevention & Recovery

Disaster prediction by observing radio waves from space

— Observing the Earth with radio telescopes



### Medical

Imaging technologies supporting diagnostic imaging at medical sites

— Improving the accuracy and efficiency of cancer diagnosis



### Medical

"KG-walk" measures walking movements to prevent pre-symptomatic state

— Supporting "Karuzawa Health Checkup" aiming to extend healthy life expectancy



### Culture & Sports

"KG-wear" analyzes human movements

— KG-wear improves personal health



### Culture & Sports

TOYO's ocean measurement technology contributed to the Relics excavations

— Ertuğrul, the cornerstone of the bonds between Japan and Turkey



### Disaster Prevention & Recovery

Recovery efforts in the areas affected by the Great East Japan Earthquake

— What could we do then?

### Environment

Participation in the 61st Japanese Antarctic Research Expedition

— Contributing to the seafloor topographic survey by SHIRASE







Provide reliable, accurate, and secure operations for communications

Information and communication technology (ICT) is used not only for communication between people and organizations, but also for social infrastructure support and connected cars, among many other things. To ensure high quality, reliable, and secure communications, we provide a wide range of advanced solutions that meet the latest technological standards, including test systems and analysis/monitoring systems.



- Products
- Ultra High Speed IP Network Performance Test Solution (400G/200G/100G) | ■ High Speed Packet Capture & Analysis Systems (100G/40G/25G/10G/1G)
  - Mobile Network/Wireless Performance Test & Analysis Solution | ■ 5G/Local 5G Solution (Survey, Design Simulation, Network Test Emulation, Time Synchronization)
  - Precision Time Synchronization Solution | ■ Virtual Environment Monitoring & Visualization & Performance Test Solution
  - Security Diagnosis & Testing & Education & Solution (Security Performance & Diagnostic service, Security awareness Training, Penetration Testing, Vulnerability Management, Fuzzing) | ■ Autonomous Driving Measurement Solution (In-Vehicle Ethernet, V2X, OTA, Security)



Support automobiles, railways, and industrial machinery

We provide equipment and solutions used in R&D work in the areas of "performance (operability, ride comfort, etc.)," "noise and vibration," and "safety and durability" for the transportation and industrial machinery sectors. The equipment and solutions support the measurement, analysis, and management of experimental data required for the development of automobiles, railways, and industrial machinery. We also offer a variety of R&D solutions to support autonomous and electric vehicle development.



- Products
- Accelerometers/Impact Hammers | ■ Microphones/Particle Velocity Sensors | ■ Magnetostrictive Linear Position Sensors | ■ Torque Meters/Brake Systems
  - Evaluation Tools for AD/ADAS Development | ■ Real Video Drive Player | ■ Intelligent DAQ for CAN bus and analog signal
  - Noise and Vibration/Displacement/Temperature/Speaker Measurement & Analysis Tools | ■ Design/Simulation/Measurement Data Analysis Software
  - Resource/Data Management Software



Support the creation of new and renewable energy infrastructure

The measurement technologies of TOYO are used in energy infrastructure. The energy vertical is experiencing dramatic changes with considerable efforts made in the fields of renewable energy and electric vehicles. TOYO provides high-precision measurement and evaluation systems to enable basic research on materials and devices like power semiconductors and organic electronics. Our technologies also support the development of batteries and power inverters.



- Products
- Secondary Battery Evaluation Systems | ■ Electrochemical Measurement Systems | ■ Fuel Cell Evaluation Systems | ■ Semiconductor Material Evaluation Systems
  - Ultra Low Temperature Sensors And Measurement Systems | ■ Magnetic Material/Magnetic Field Measurement Systems | ■ Ferroelectric Material Evaluation Systems
  - Charging Analyzers/Simulators for Electric Vehicles | ■ General-purpose Measurement Instruments/Power Supplies | ■ Liquid Crystal Characteristic Measurement Systems



Provide solutions for electromagnetic environments

TOYO has been supporting EMC (Electromagnetic Compatibility) compliance testing for more than 40 years and offers a variety of solutions that involve electromagnetic waves. Our measurement systems and test equipment have supported the development of electronic equipment such as automobiles, information and communication equipment, and medical equipment. We provide OTA (Over the Air) measurement systems for 5G and connected vehicles. We install, support, and maintain large parabolic antenna ground systems and have been doing so for more than 30 years.



- Products
- EMC Measurement Systems | ■ RF Power Amplifiers | ■ EMI Test Receivers | ■ EMC Measurement Software | ■ Antenna/OTA Measurement Systems
  - Automotive Radar Target Simulator(ARTS) | ■ 5G Mobile Compact Antenna Test Range | ■ Antenna Systems for Ground Stations | ■ Radomes | ■ Hydrogen Masers





Propose solutions to characterize the world's oceans from the surface to the bottom

"Measure the Ocean" to us means that we enable mapping engineers to survey the ocean from top to bottom. We accomplish this by delivering sea surface/undersea/seafloor observation equipment, underwater drones, and underwater data communication instruments. These technologies support the fishery, defense, and offshore wind power industries in Japan - an island nation.



- Products
- Multibeam Echosounders | ■ Acoustic Video Cameras | ■ Underwater Vehicles (ROV/AUV) | ■ Unmanned Surface Vehicles | ■ Sub-Bottom Profilers
  - Acoustic Positioning Systems | ■ Inertially-Aided GPS Positioning and Orientation Systems | ■ Hydrographic Survey and Processing Software
  - Optronics Sights | ■ Fishfinder/Scientific Echosounder



Develop cutting-edge solutions in the life and materials science fields

In the life science field, we provide medical and digital solutions such as interpretation support systems for lung and breast cancer detection to help improve the outcomes of patients afflicted with these types of malignancies. In the material science (material evaluation) field, we help improve quality control efforts in R&D for lithium-ion batteries, semiconductors, and electronic components.

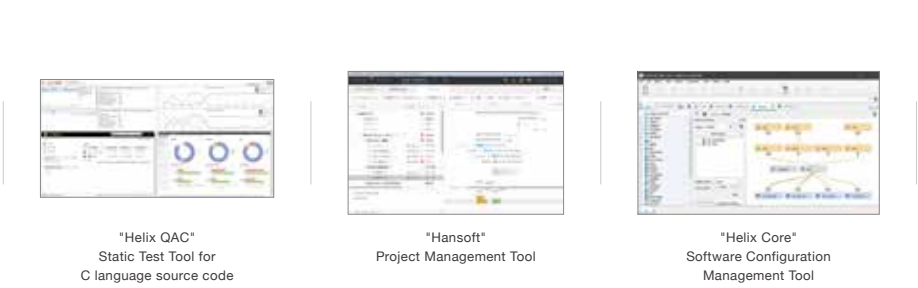


- Products
- [Life Science] ■ Bone Suppression/Compare Systems for Digital Chest X-ray Images | ■ Interpretation Support Systems for Chest CT Images
- X-ray Dose Management System | ■ Orthopedic Digital Planning Tools | ■ Medical Image Enhancing Software | ■ Sterilizer for Infectious Waste
- [Material Science] ■ FIB-SEM (Focused Ion Beam Scanning Electron Microscopes) | ■ Micro-CT Systems
- Hardness and Young's Modulus Measurement Systems | ■ Cantilevers for Scanning Probe Microscopy | ■ Atomic Force Microscopes



Support improvements in the quality and productivity of software development

We apply measurement technologies to the software development field. From quality improvements to productivity enhancements, we provide products and services that support the software development lifecycle. We supply the latest security solutions for digital transformation (DX) to support the ongoing DX paradigm shift.



- Products
- Software Configuration Management Tools | ■ Software Reverse Engineering Tools | ■ Software Static Test Tools | ■ Software Dynamic Test Tools
  - Application Lifecycle Management Tools | ■ Project Management Tools | ■ Vulnerability Static Analysis Tools for Application
  - Web & Mobile APP Testing Tools | ■ Software Modeling Tools



Apply measurement technologies to cyber security products and services

"Security & Lab Company" was established as an in-house company to commercialize cybersecurity services. To that end, we partner with some of the world's leading companies to provide application and engineering services. Leveraging the latest IT technologies (cloud, OSS, machine learning, and big data analytics), TOYO strives to deliver unmatched service offerings and value in this area.



- Products
- DDoS Mitigation System | ■ DPI & Smart Traffic Management | ■ Network Forensics & Incident Handling | ■ Real-Time Threat Indicator
  - Cyber-Threat Intelligence & Dark Web Monitoring | ■ Open Caching | ■ Cloud Security Platform/Build-in Compliance | ■ Home Gateway Security / Secure DNS
  - Threat Intelligence Platform / Gateway



CORPORATE DATA

Registered Name	TOYO Corporation
Head Office	1-6, Yaesu 1-chome, Chuo-ku, Tokyo 103-8284, Japan
Date of Establishment	September 4, 1953
Capital	Paid-in: ¥4,158 million
Number of Employees	528 (consolidated) / 493 (non-consolidated) *As of September 30, 2021
Stock Exchange Listings	Tokyo Stock Exchange First Section (Code: 8151)
Website	<a href="https://www.toyo.co.jp/english/">https://www.toyo.co.jp/english/</a>

DOMESTIC OFFICES

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- **Keio-TOYO Nano Imaging Center Office for Industry-Academia Collaboration between TOYO Corporation and Keio University Central Service**  
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EXECUTIVES

President & CEO	Toshiya Kohno
Director, Executive VP, CFO	Masataka Kashiwa
Director, Executive VP	Mitsuru Onodera
Director, Senior VP	Noriyuki Kato
Director, Senior VP	Yasushi Kumagawa
Outside Director	Nobuyoshi Akiyama
Outside Director	Yoshiyuki Imabayashi
Outside Director	Miyuki Suka
Auditor	Kazuhiko Nozaki
Auditor	Kiyo Morikawa
Auditor	Shigehisa Horinokita
Executive Officer, CTO	Takeo Kiuchi
Executive Officer	Yoshimichi Imaizumi
Executive Officer	Masahiko Kawauchi

OVERSEAS SUBSIDIARIES

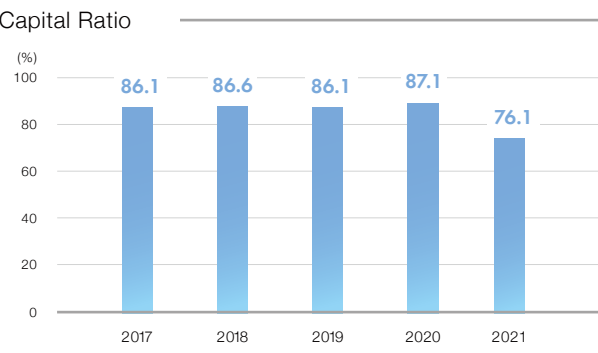
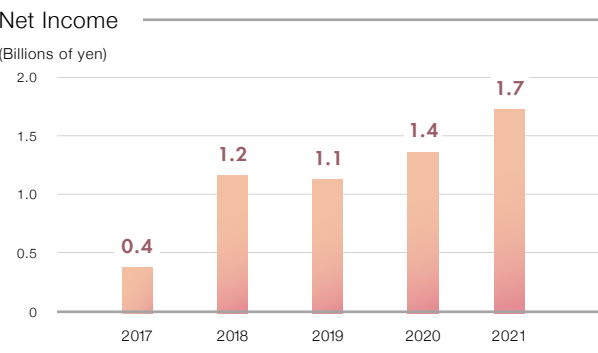
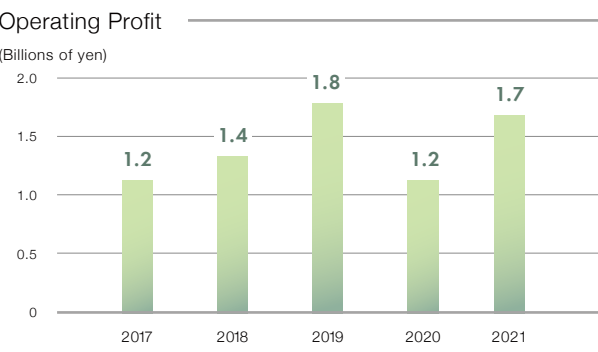
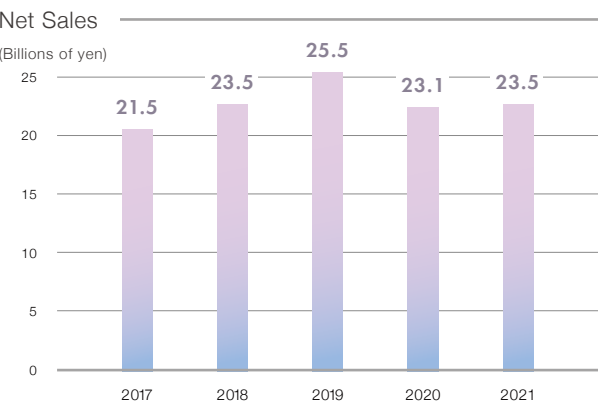
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- **TOYO Corporation International Ltd.**
- **TOYOTech LLC**  
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Tel: +1-510-438-9548 Fax: +1-510-438-9653
- **Beijing Puli Technology Co., Ltd**  
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OVERSEAS AFFILIATE

- **Uila, Inc**  
710 Lakeway Drive, Suite #210, Sunnyvale, CA 94085, USA

FINANCIAL HIGHLIGHTS

TOYO Corporation and Consolidated Subsidiaries  
Years Ended September 30



HISTORY

- 1953 Established as Kowa Trading Co., Ltd., engaged mainly in import and sales of industrial machinery
- 1955 Changed the company name to TOYO Trading Co., Ltd.
- 1977 Changed the company name to TOYO Corporation
- 1985 Set up Technical Center  
Listed on the Second Section of the Tokyo Stock Exchange
- 1990 Listed on the First Section of the Tokyo Stock Exchange
- 2002 Technical Center obtained ISO 9001 certification
- 2005 Obtained ISO/IEC 17025 and ISO 14001 certifications
- 2007 Set up Calibration Laboratory in Technical Center
- 2010 Established TOYO Corporation China in Shanghai
- 2014 Set up a branch of TOYO Corporation China in Beijing
- 2015 Established TOYOTech LLC in California, USA
- 2016 Established Security & Lab Company as an in-house company
- 2017 Set up Technical Research Laboratory  
Established One Technologies Company as an in-house company
- 2018 Security & Lab Company obtained ISO/IEC 27001 and ISO/IEC 27017 certifications
- 2019 Set up Kasai Service Center

