

Real Solutions for Global Problems : Osaka, the Big Hub of Small Manufacturers

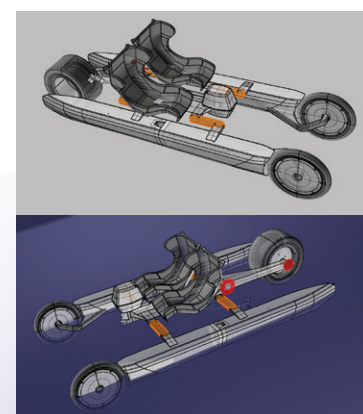


Flying Truck "Zipang"

Zipang Airship Project: Challenging by 13 Samurai Manufacturers

Seiko Seimitsu Co., Ltd./Kasatani Co., Ltd./
Nojima CO.,LTD./Crosstech Co.,Ltd./
Nakahashi Factory/Koyo Shokai Co., Ltd./
HIRAGITANI WELDING/Doi Shoten Co., Ltd./
Nishimura Ironworks/KDP Co., Ltd./Minami Gearworks Co., Ltd./
TOA SEIKEI CO., LTD./Ikeda Ironworks Co., Ltd.

Thirteen small local factories, along with technicians passionate about aeronautics, have come together to develop an airship equipped with an innovative "variable buoyancy function." This "flying truck" can transport goods to remote locations and mountaintops by adjusting its buoyancy. We will introduce the revolution in logistics that this new airship will bring to future societies.



Future Amphibious Mobility

Lightweight amphibious mobility

INDEX Inc./Fuji Koushuha Industry Co., Ltd./
Toyosato Metal Industry Co., Ltd.

We will exhibit a two-seater amphibious vehicle that offers compact mobility for easily navigating islands. The vehicle (3 meters long, 1.8 meters wide, 1.5 meters high) features a variable width body that allows it to expand on the water and narrow on land, improving stability and maneuverability. Equipped with a 2-horsepower general-purpose engine, it uses a chain and propeller to operate on land and water respectively, creating a compact specialty vehicle.

Innovation in Machining!

Manufacturing Integrator 5

Yamamoto Metal Technos CO.,LTD./Yamamoto Metal Industry Co.,Ltd./
Yamamoto Precision Co.,Ltd./Yamamoto Seiki Co., Ltd.

We are developing a system that automatically assembles production lines based on different product requirements, and another system that allows real-time management of all information from various production sites. At the venue, we will propose the sustainable future of factory floors through an exhibit of an "autonomous remote unmanned production line" using this technology.



A Wheelchair that Makes Travel Enjoyable

Road to 2050, the First Step to Comfortable Life

NISHITO SPRING MFG. & CO.,LTD./Sanwa Electric Industry Co.,Ltd./
SANKYO MFG.CO.,LTD./Asahi Electro Chemical Co.,Ltd.

We are developing a "next-generation wheelchair" equipped with a mechanism that maintains a level seating surface even on sloped terrain. By exhibiting this wheelchair that enables safe and smooth movement even on inclines, we aim to realize a society where everyone can enjoy mobility.



Living a Healthy Life Until 120 Years Old

BE 120

MUSCLE CORPORATION/
NUMATA CORPORATION

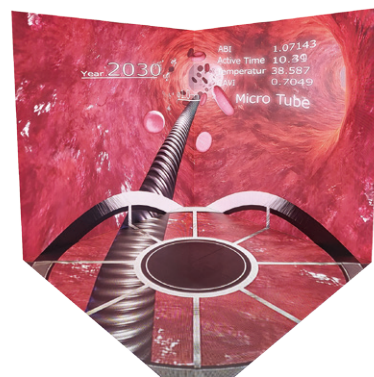
Recent advancements in DNA-level preventive medicine and treatment using iPS cell technology have garnered significant attention. This exhibit highlights the potential for humans to live up to 120 years if healthy, showing that understanding one's own body at the DNA level and implementing appropriate measures is the first step toward a future society where people can thrive.



Future Experience of Flexible Hose & Bellows

OSAKA RASENKAN KOGYO CO.,LTD.

We will exhibit ultra-fine "flexible hose" and foldable "metal bellows" using spatial VR. With potential applications in the medical and space industries, we will provide new value for future society.



The Era of Bone Replacement for People and Animals?!

Customized Artificial Bones

Osaka Yakin Kogyo Co., Ltd.

Using cutting-edge metal 3D printing technology, we have developed a technology for creating artificial bones tailored to each patient's individual skeletal structure. At the venue, we will exhibit a custom-made titanium artificial bone produced using a metal 3D printer.



Co-Creation Leads to Manufacturing Innovation

Living Lab: Osaka & Kansai

KOBATA GAUGE MFG. CO.,LTD./HIKARI MACHINE INDUSTRY CO.,LTD./
OZK Co.,Ltd./Nippon Denki Kenkyusho Co.,Ltd./Nishimura Ironworks/
Doi Shoten Co., Ltd./Minami Gearworks Co., Ltd./
Yagura Ironworks Co., Ltd./Ikeda Ironworks Co., Ltd./
BellChild Co.,Ltd./Yamada Seisakusyo/
TOA MUSENDEKIKI CO.,LTD./Kitahama Chemistry Co.,Ltd

Through panels and videos, we will introduce the process up to developing a product (prototype) whereby companies from diverse fields work together to address familiar healthcare challenges, focusing on the user perspective to create services and products based on the "living lab format."



Blood Glucose Measurement Without Injections

A-yanai-ka(isn't it great?)

Light Touch Technology Inc.

We have developed a "Blood Glucose Measurement Sensor" using state-of-the-art laser technology that can measure blood glucose levels by simply shining light on the hand for just five seconds. We will display the actual model of this safe and convenient non-invasive device along with a video.



Reborn Challenge
Implementation Body

The Osaka Chamber of
Commerce and Industry

The Osaka Shinkin Bank

Innovative, practical, lifestyle-friendly, and SDG-oriented: Osaka's famed local manufacturers have combined their ingenuity and craftsmanship to develop products that not only present real solutions to actual problems, but that are also highly marketable. The Osaka Healthcare Pavilion is not just a showcase, but a springboard to post-expo product and market development; these items and more will be available to see, touch, and try during the expo, so come and find out why Osaka's manufacturing SMEs have earned a widespread reputation for excellence.

[Contact]

Contact Window: The Osaka Chamber of Commerce and Industry, Small Business Promotion Division
TEL:06-6944-6461 E-mail:monokakou@osaka.cci.or.jp

Special Website



IC Tags for Disaster Victim Search and Rescue



Wristwatch-type IC Tag

Disaster Victim Search Device

Disaster Survivor Detection System Development Group

Matrix Inc./MIMAMORUME CO.,LTD./
Asahi Electro Chemical Co.,Ltd.

We will introduce a device that uses an IC tag worn on the wrist to detect biosignals, allowing rescuers to quickly locate victims trapped under debris during disasters. This detection system dramatically increases the speed of locating victims, contributing to rescue efforts.



Automatic Onigiri Cooking Machine

Hearty ONIGIRI to Make You Smile

UNICS CO., LTD./
MASSCOAL CO., LTD./
Tamura Teco Co., Ltd./
NICO-NICO NORI INC./
KIMURA ALUMI-HAKU CO., LTD.

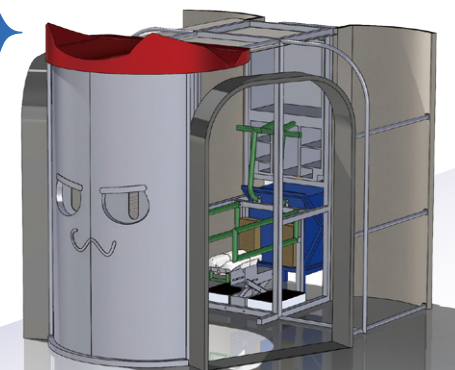
We are dedicated to developing an automated machine that provides fresh, ward Onigiri. (Japanese rice balls). At this event, we exhibit a new technology that makes it easy to prepare delicious Onigiri-a Japanese soul food-which is gaining popularity around the world.

Transforming Lockers into Disaster Relief Facilities!

Disaster Prevention Locker Project with J

Suzuki Printing Industries Co., Ltd./Osaka Jonan Women's Junior College/
d;Frontia Co., Ltd./Yagi Industries/Smile Kids Co., Ltd./
Sawada Manufacturing Co., Ltd./Yoshihara Construction Industry Co., Ltd./
Kouei Chemical Co., Ltd./TOWA-KIKI, INC./Shizukuio

We will exhibit a "Disaster Prevention Locker with a Multipurpose Space Expansion Function" equipped with assembled tents, toilet kits, and other emergency supplies. These lockers, installed in parks, serve as multipurpose spaces and disaster relief stations, providing essential support in times of emergency.



Visualizing Emotions through Facial Expressions

The Future is Here: Emotion Sensing Technology

KOHINATA LLC

We have developed technology that analyzes facial expressions captured by a camera to estimate and visualize emotions. At the exhibition, we will introduce a future where this "emotion sensing technology" is used to enhance emotional understanding of others, leading to higher-quality support in fields like nursing care and education.



Future Cosmetics: deoxidization method technology



"Deoxy" Fresh Cosmetics

PRIMALL COSMETICS CO.,LTD./MASSCOAL Co.,Ltd.
KOTOBUKI PERFUMERY CO.,LTD./

We are developing cosmetics utilizing a "deoxidization method," that prevents oxidation of ingredients, preserving the freshness of natural scents and colors. At the venue, visitors will experience firsthand the vibrancy of natural scents and colors achieved through this future cosmetic technology.

Custom-made Cosmetics Tailored to You



Custom-made Cosmetics that Make Dreams Come True

KOTOBUKI PERFUMERY CO.,LTD./PRIMALL COSMETICS CO.,LTD.

We are researching and developing customized cosmetics by culturing individual stem cells and incorporating them into products. At the venue, we will exhibit the cell culture process, an AI-powered fragrance suggestion system based on your current mood, and an app that provides a simulated experience of Original container design. We hope you will join us to experience future custom-made Cosmetics.

Automatic Temperature-Regulating Clothing



Products that Bring HAPPY & WOW to the World (automatic temperature adjustment clothing)

TOHAN DENSHI KIKI CO.,LTD./AT CO.,LTD./
NSW inc./MASSCOAL CO.,LTD./Earth Watch Institute, Inc./
HAKATTE, Inc./Osaka Heat Cool Inc.

We will exhibit clothing equipped with a function that automatically adjusts to an individual's comfortable temperature by monitoring their biodata. Through this exhibit, we will introduce at the venue a future where people can work comfortably even in extreme environments like scorching heat or inside freezers by using this technology.

Eliminating Wasted Fish



Osaka's Small Factories Take on the Challenge of Utilizing Unused Fish!

TOYO SUISAN KIKAI CO.,LTD./
Taiyo Corp./Tamax Co.,Ltd./
Hatta Co.,Ltd./Nakahashi Factory/
Soko Electronics Co.,Ltd.

We have developed a device that uses AI to automatically sort and process "unused fish," those currently discarded without being sent to market. Through this exhibit, we will introduce a future at the venue where this device contributes to addressing food scarcity by paving the way for unused fish to be utilized effectively.

A Future Circular Food System

Aim for Zero Hunger! Making the World Smile with Osaka Food

ACE SYSTEM Co.,Ltd./RIKUSUI Co.,Ltd/TERRA Co.,Ltd

By leveraging our expertise in food processing machinery manufacturing and aquaculture, we are developing a "circular food system." At the venue, under the theme "Starting a revolution in global food from Osaka! Making children around the world smile through food," we will propose solutions to global hunger issues through a 3D hologram video.



The Automation of Agriculture: Introduction of AI Technology

Healthy Smile Agriculture

ARIMITSU INDUSTRY CO., LTD./NT Giken Industries Co.,Ltd.

At our booth, technologies for efficiently spraying agrochemicals with minimal water, automating agrochemical spraying operations, and utilizing solar power will be exhibited. It will also introduce future sustainable agriculture that improves agricultural efficiency and reduces the burden on workers and the environment.

