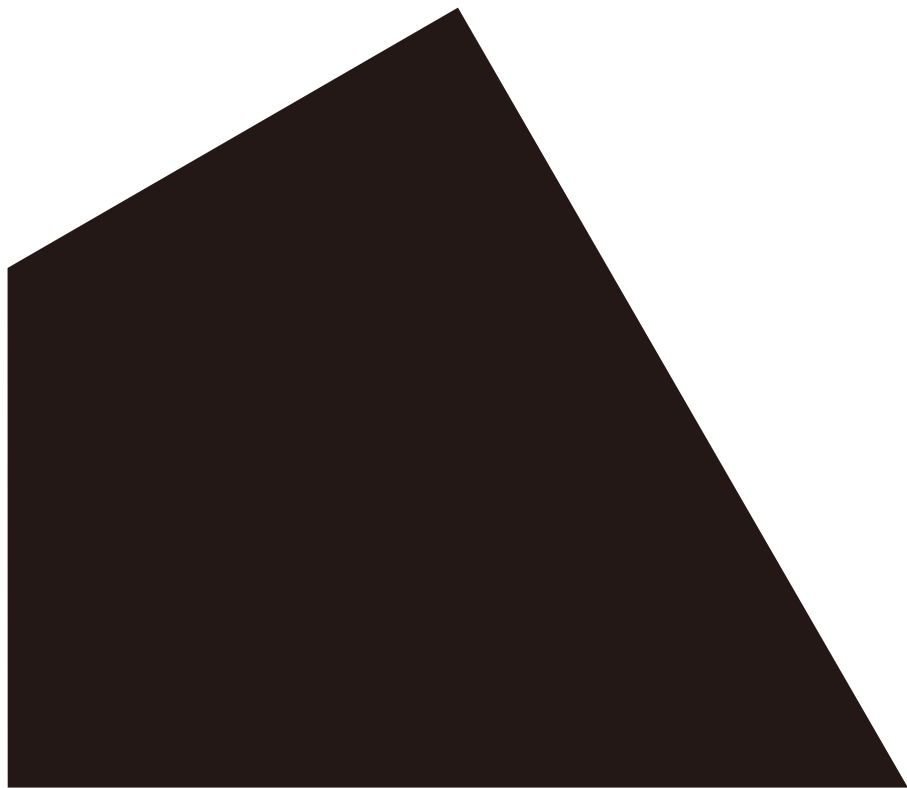


産
業

Industry



未来へつなぐ

京都が強みを発揮する「ライフサイエンス」をテーマに、
スタートアップをはじめとする京都企業が
私たちの生活や社会をより良くするためのアイデアをご提案します。

Linking to the Future

Explore ideas for improving our lives and society as a whole proposed by start-ups and other companies in Kyoto with the theme of “life science,” an area in which Kyoto excels.

1 CCHサウンド
CCH Sound, Inc.

2 プラスコート株式会社
PLASCOAT co., ltd.

株式会社アロマジョイン
Aromajoin Corporation

株式会社 DFC
DFC Co., Ltd.

3 株式会社HACARUS
HACARUS INC.

3 株式会社Seed Bank
Seed Bank Co., Ltd.

トレジェムバイオフーマ株式会社
Toregem BioPharma Co., Ltd.

株式会社Halu
Halu Inc.

株式会社TSK
TSK Corporation

京都商工会議所
Kyoto Chamber of Commerce and Industry

1-1

The Future of Hearing Is Here

The Third Auditory Pathway: “Cartilage Conduction”

Cartilage conduction—discovered 500 years after air and bone conduction—has been dubbed the “third auditory pathway.” It offers benefits such as improved hygiene along with prevention of hearing loss, outer ear inflammation, and dementia.

Vibrates the Ear Cartilage Only

Unlike conventional bone conduction, which relies on vibrating the skull, this entirely new mechanism vibrates only the small, lightweight ear cartilage, enabling low power consumption.

Innovative Technology That Opens Up New Possibilities

This unique sound transmission mechanism, which generates sound within the outer ear canal by vibrating the ear cartilage, offers a completely new auditory experience. It opens up new possibilities in medicine, welfare, and a wide range of fields.



CCH Sound, Inc.

4-28-8 Hikaridai, Seika-cho, Soraku-gun

1-2

Innovating the World of Sound and Generating Significant Economic Impact

A Smartphone Revolution

Delivers clear sound even in environments as noisy as a bullet train, while preventing others from overhearing conversations in quiet settings. It is also capable of instantly adjusting to the optimal volume, eliminating the need for manual volume control.

The Birth of a New Generation of Smart Glasses

Smart glasses provide visual information, while cartilage conduction supports audio information, for a seamlessly integrated audiovisual experience.

Pen-Shaped Phones Now a Reality

Using cartilage conduction, sound is generated in the ear canal through point contact with the ear cartilage, allowing even a slim, pen-shaped mobile phone to deliver clear audio.



CCH Sound, Inc.

4-28-8 Hikaridai, Seika-cho, Soraku-gun

2-1

Bioelectrodes for the Physical Management of Workers and the Elderly

Measuring Electricity in the Body to Determine Health Status

Using highly conductive coating technology, we have developed a bioelectrode belt. By simply wearing it on the chest, the bioelectrode accurately picks up electricity emitted by the body. The belt is connected to a device which measures the electricity in the body, and also makes it possible to measure the heart rate, respiratory rate, and other parameters to determine the state of the body.

Useful for Healthcare of Elderly People and Workers

We have developed smart wearable technology that can be worn at all times to manage the health of the elderly. At construction sites, workers' sudden health problems can be predicted in advance and prevented. The realization of self-healthcare provides people with a secure life.



Kyoto Green Chemical Network

PLASCOAT co.,ltd.

91-1 Kawabata Mori Kumiya-ma-cho Kuze-gun

2-2

Aroma Quiz: Olfactory Self-Check

Creating Fragrances at your own Will

We offer you the pleasure of choosing from more than 100 aromas and you can even create your own special scent.

An Immersive, Realistic and Enjoyable Experience

Adding olfactory information not only to images but also to video content enables an enhanced immersive and realistic experience.

Various Aromatic Expressions

In addition to replacing the aroma cartridges, you can express a variety of fragrances by adjusting the concentration of each scent and combining it with different aromas.



Kyoto Green Chemical Network

Aromajoin Corporation

ACT Kyoto 405, 105 Jibu-cho, Fushimi-ku, Kyoto-City

2-3

On-demand Pharmaceutical Synthesis with OptimFlow

Promptness and Flexibility

The necessary pharmaceuticals, including diagnostic and therapeutic agents, can be synthesized in approximately 5 minutes, even at disaster sites or in isolated environments. This flexible system accelerates life-saving efforts by providing medicines on the spot in accordance with the patient's condition.

Optimization through AI

AI analyzes biological data and instantly determines the optimal pharmaceutical and synthesis conditions. This AI technology supports both diagnostic and therapeutic applications, enabling highly precise and personalized medical care.

Sustainable and Economical

Sustainable and low-cost operation is achieved through a maintenance-free design and minimal use of consumables. OptimFlow ensures stable performance even during extended use, supporting continuous on-site pharmaceutical production.

Kyoto Green Chemical Network



DFC Co., Ltd.

Uji Venture Business Incubation Factory (Uji VFI) Building 2

1-25 Nishinohata, Okubo-cho, Uji-City

3-1

Heart Check Service - ECG Analysis for Dogs and Cats

AI-Powered Heart Health Screening Service for Veterinarians

Uses AI trained on a variety of ECG data to assess the heart health of dogs and cats. The service is provided to veterinarians by Bussan Animal Health Co., Ltd.

Quick and Stress-Free ECG Capture in just 30 Seconds!

Simply wet the paw pads and have the animal stand on the sheet—no stress, no hassle. AI technology ensures clean, accurate results by filtering out any movement noise.

Get Instant Analysis Results with an AI-Generated Report!

The AI, trained using diagnostic insights and ECG data from certified veterinary cardiologists, creates a detailed report, which you be reviewed right after the measurement.



Kyoto Chamber of Commerce and Industry
Kyoto CHIE Entrepreneurship Award 2023 Grand Prize

HACARUS INC.

Oike Building 8F, 206 Takamiya-cho, Nakagyo-ku Kyoto-City

3-2

Science + Art Unlocking a New World

The Value of the Unseen

Our world is filled with microscopic organisms invisible to the naked eye.

Among these, microalgae play a particularly crucial role in sustaining the foundation of Earth's ecosystems by absorbing carbon dioxide through photosynthesis and producing organic matter.

The Power of Seeing and the Power of Feeling

Microalgae display uniquely intricate forms—almost as if deliberately designed.

What does contemporary embroidery artist Sayaka Miyata perceive in these forms, and how does she express them in her art?

Integrating R&D into Everyday Life Through the Power of Art

Experience the mysterious, intricate world of microalgae through embroidery works woven from used microchips and other materials that have fulfilled roles in research. Discover a new realm of research and development unlocked by the combined powers of science and art.



Kyoto Chamber of Commerce and Industry

CHIE-1 Grand Prize Excellence Award in the Collaboration Division

Seed Bank Co., Ltd.

76-1 Kitashirakawanishimachi, Sakyo-ku, Kyoto-City

3-3

Development of autologous tissue-derived tooth regeneration medicines

Results of long-term research by Dentist Takahashi

The results of nearly 30 years of research, continuously subsidised by public funds, by Katsu Takahashi [Chief Technical Officer of Toregem BioPharma, Head of Department of Oral and Maxillofacial Surgery Kitano Hospital and former Associate Professor of Kyoto University].

Human clinical trials have already started in October 2024.

A human trial (Phase I clinical trial: safety confirmation study) has been initiated in October 2024 for the indication of the medicines in humans.

Medicines are now being developed for people who cannot have permanent teeth.

We are developing these medicines first in order to bring it to patients with congenital edentulism.

We are also in the process of developing medicines that will allow permanent teeth to grow in their place if they are missing.



Kyoto Chamber of Commerce and Industry

Kyoto CHIE Entrepreneurship Award 2023 Special Prize

Toregem BioPharma Co., Ltd.

448-5 Kajii-cho, Kyoto-City

3-4

IKOU Portable Chair - A Seat for Both Children with and without disabilities.

More freedom for families with children to go out

A foldable children's chair designed for infants and toddlers who cannot maintain a sitting position on their own can sit stably. It can be attached to an adult chair or placed directly on the floor or grass, allowing families with young children to enjoy outings freely and safely anywhere.

Foldable chair for easy transport

When folded, it becomes compact and can be carried like a shoulder bag. Weighing only the equivalent of about six 500ml bottles, it's lightweight and easy to carry, even for women.

Developed with inclusive design approaches

Developed using an "inclusive design" approach inspired by challenges in raising children with disabilities, the chair balances safety, functionality, and style. It's a product designed for both children with and without disabilities , encouraging shared use and inclusivity.

**Kyoto Chamber of Commerce and Industry
5th KCCI Evening Pitch On-stage Acknowledgement**



Halu Inc.

Room 2, 3rd Floor, North Building, Kyoto Art Center, 546-2 Yamabushiyama-cho,
Shimodori, Takoyakushi, Muromachi-dori, Nakagyo-ku, Kyoto-City

3-5

Iron-Fulvic Acid Born from Kyoto's Lush Forests

Upcycling Local Wood Resources into New Value

Iron-Fulvic Acid is a biostimulant made from forestry waste collected in Minamiyamashiro, Kyoto. By upcycling discarded wood, we create valuable agricultural materials while reducing energy use and waste.

A Unique Process Featuring Iron—A Familiar Metal

Our innovative process uses iron, a life-essential metal with low environmental impact. Combined with fulvic acid, it supports plant vitality, offering a safe and effective alternative for sustainable cultivation.

Sharing Greener Ideas from Kyoto's Woodlands

Kyoto is a region where forests cover nearly 70% of the land. From this green landscape, we deliver environmentally friendly solutions for gardening, agriculture, and beyond—blending tradition, innovation, and sustainability.



Kyoto Chamber of Commerce and Industry

Kyoto CHIE Entrepreneurship Award 2023 Special Prize

TSK Corporation

2-2-2 Hikaridai, Seika-cho, Soraku-gun

3-6

Fostering Entrepreneurial Talent to Drive the Future of Kyoto's Economy

Supporting the Development of the Local Economy

The Kyoto Chamber of Commerce and Industry supports the development of small and medium-sized enterprises (SMEs) and startups in Kyoto by facilitating networking among its approximately 12,000 member companies and providing management support.

Supporting Businesses that Leverage "Intelligence"

We actively promote programs such as the "Kyoto Intelligent Entrepreneurship Award," a Kyoto-wide collaborative initiative to support entrepreneurs who will drive Kyoto's economic future, as well as the "Intelligent Business" initiative, which assists companies in creating new markets by leveraging Kyoto's unique regional characteristics and their own strengths.

Boost Success by awarding the Hana-Kessho "Crystal Flower" Plaque

Winners of the Kyoto Chie Antre Taisho (Kyoto Intelligent Entrepreneurship Award) are presented with an award plaque of Kiyomizu-yaki (Kiyomizu pottery) adorned with an elegant floral design Hana-Kessho (Crystal Flower), symbolizing the hope that their innovative ideas and technologies will flourish and bloom just like the flower.



Kyoto Chamber of Commerce and Industry

KyotoKeizaiCenter 7F, 78 Kankoboko-cho, Muromachi Higashi-iru, Shijo-dori, Shimogyo-ku, Kyoto-City

A Spatial Design Covered in Kyo-Kawara “Kimono Tiles” & Featuring Non-Verbal Expression through Images and Music

This experience enables visitors to deeply engage with Kyoto’s future and past through a minimalist and serene environment unified by original Kyo-Kawara “Kimono Tiles.”

Non-verbal images and audio are also integrated in harmony with the environment, expressing its multifaceted appeal.



Video introduction



Mulberry Fields

Location: Kyotango-City (Kyotango-City)
Cooperator: Santoku



Silk Glass

Location: Studio
Cooperator: ITOKO Co.,Ltd.



Silk Cocoons

Location: Studio
Cooperator: Tango Textile Industrial Association



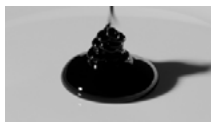
Kyoto Black Montsuki (Crest) Dyeing

Location: Kyoto Montsuki Inc. (Nakagyou-ku, Kyoto-City)
Cooperator: Kyoto Montsuki Inc.



Machine-woven Textiles

Location: Kojima Orimono Co., Ltd.
(Kizugawa-City)
Cooperator: Kojima Orimono Co., Ltd.



Dripping Lacquer

Location: Studio



Wisteria Thread

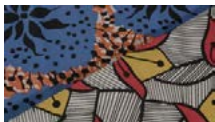
Location: The Fuji-ori Folk and Community Center
(Miyazu-City)
Cooperator: The Association for Preservation
of Tango Fuji-ori



Lacquer-tapping

Location: Yakuno-cho, Fukuchiyama-City (Fukuchiyama-City)
Cooperator: Tanba Urushi

Video introduction



African-print Fabric

Location: Studio
Cooperator: AFRIKA DOGS Inc.



AFRIKA DOGS Inc.

Location: AFRIKA DOGS
(Shimogyo-ku, Kyoto-City)
Cooperator: AFRIKA DOGS Inc.



Mother-of-pearl Woven Thread

Location: Studio
Cooperator: Tamiya Raden Ltd.



Sparkling Seashell

Location: Studio
Cooperator: Tamiya Raden Ltd.



Kyogawara (Kyoto Roof Tiles)

Location: Kyogawara Co., Ltd.
Asada Kawara Factory
(Fushimi-ku, Kyoto-City)
Cooperator: Kyogawara Co., Ltd.
Asada Kawara Factory



Sahari Orin (Japanese Singing Bowl)

Location: Nanjo Kobo Ltd. (Uji-City)
Cooperator: Nanjo Kobo Ltd.



Erica

Location: Advanced Telecommunications Research Institute International
Deep Interaction Laboratory Group
Hiroshi Ishiguro Laboratories (Seika-cho)
Cooperator: Advanced Telecommunications Research Institute International
Deep Interaction Laboratory Group
(JST ERATO ISHIGURO Symbiotic Human-Robot Interaction Project)
(JST Moonshot R&D Goal 1 Avatar Symbiotic Society Project)



Harmony between Humans and Machines

Location: OMRON COMMUNICATION PLAZA
(Shimogyo-ku, Kyoto-City)
Cooperator: OMRON Corporation

Video introduction



Sensing Technology

Location: OMRON COMMUNICATION PLAZA
(Shimogyo-ku, Kyoto-City)
Cooperator: OMRON Corporation



Microbial Culture System Converting GHGs into Resources

Location: Symbiobe Inc.
(NishiKyo-ku, Kyoto-City)
Cooperator: Symbiobe Inc.

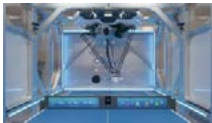


Table Tennis Robot "FORPHEUS"

Location: OMRON COMMUNICATION PLAZA
(Shimogyo-ku, Kyoto-City)
Cooperator: OMRON Corporation



X-ray Generator

Location: Shimadzu Foundation Memorial Museum
(Nakagyo-ku, Kyoto-City)
Cooperator: Shimadzu Corporation



Chest X-ray Taken with the DIANA X-ray System

Location: Shimadzu Foundation Memorial Museum
(Nakagyo-ku, Kyoto-City)
Cooperator: Shimadzu Corporation

The Concept of Jun'on Haikei

Jun'on Haikei is a collection of the sounds of present-day Kyoto Prefecture, in combination with sounds documented in historical records and other sources, that has been enhanced with other compositions to create a unique soundscape.

In 1996, the Ministry of the Environment (known as the Environment Agency at the time) designated the “100 Soundscapes of Japan”—a collection of sounds recognized for their particular significance in maintaining Japan’s unique acoustic environment. The Ministry accepted submissions of a broad range of environments (soundscapes) featuring sounds that communities across the country cherish as local symbols and wish to preserve for future generations. Nearly 30 years have passed since then, and it is time to revisit the sounds of Kyoto Prefecture. Today, we are witnessing the acceleration of global warming and the seasons are gradually blending together. Under these circumstances, mountains, forests, and other elements of nature are becoming more important and precious than ever. Kyoto Prefecture is blessed with a rich natural environment, where beautiful sounds can still be found. Field recordings have been made to preserve them, with the hope that no more of the environment will be lost. This collection also contains newly recorded sounds beyond those already recognized in the previously mentioned “100 Soundscapes of Japan.”

Works of literature also contain many descriptions of sounds. Before the invention of recording technology, people had been preserving sounds through verbal descriptions since ancient times. Preserving sounds through language in this way is also a form of field recording.

Field Recording List

Part-1 Rurikei stream (Nantan City) Wharf (Ine Town) Maizuru Port (Maizuru City) Miyazu Bay (Miyazu City) Iwashimizu Hachimangu Shrine (Yawata City)

Part-2 Kyoto Imperial Palace gravel (Kyoto City) Kiyomizu Temple (Kyoto City) Deer (Kyoto City) Mount Oe (Fukuchiyama City) Chirimen Kaido Tenmangu Shrine (Yosano Town)

Part-3 Kotohiki Beach (Kyotango City) Kototaki Falls (Kyotamba Town) Uji River (Uji City) Shinpukuji Temple water harp (Kameoka City) Myoshinji Temple (Taizo-in) water harp (Kyoto City)

Part-4 Ayabe-Ohashi Bridge, Yura River (Ayabe City) Minoyama Bamboo Grove (Yawata City) Koshoji Temple (Uji City) Kosei Water Park (Kameoka City) Shisendo Temple Deer Dance (Kyoto City) Gokonomiya Shrine (Kyoto City) Thunderstorm (Kyoto City)

Written Description Field Recordings List

Ohara, The Tale of the Heike: The sounds of bells, deer, and insects

Nonomiya, The Tale of Genji: The sounds of insects, wind through the pine trees, and court music instruments

Uji, Man' yoshu, two poems (1699 and 1700) composed on the Uji River: the sounds of geese and the river

Hojoji Temple, Eiga Monogatari, Vol. 17, Omugaku: Court music performances

Tango, Tango no Kuni Fudoki: Voices lamenting lost works and singing

Fukuchiyama, Oeyama Ekotoba: The sounds of thunder and ritual music

Iwashimizu Hachimangu Shrine, Noh Playwright Zeami, Yumiyawata &

Hojogawa: Mysterious music and the sounds of nighttime ritual music

Hoshoji Temple, Ben no Naishi Nikki: The sounds of sarugaku theater performances in the back of the temple and bells

Junichiro Tanizaki, Senkantei, Yume no Ukihashi: The sounds of bamboo tubes filling with water and clacking against stone

Kotohiki Beach, Kiuchi Sekitei, Unkonshi: The sounds of the sandy beach

Kagero Nikki: The sounds of carts

Rakuyo Dengakuki: The sounds of a grand ritual music performance held in the Eicho era

Composition & Arrangement: Marihiko Hara

Guitar: PolarM

Field Recording Assistance: Masumi Muranaka

Research Assistance: Rurihiko Hara

Sound Design: Raku Nakahara (KARABINERinc.)

/ Ohshiro Sound Office Inc.

Production: MHStudioInc. / TSUYURI

空間デザイン協力	Space design cooperation
Sandwich	Sandwich
京瓦タイル「キモノタイル」製作協力	Kyoto tile "Kimono tile" production cooperation
株式会社京瓦 浅田製瓦工場	ASADA KAWARA FACTORY
テーマ映像制作	Theme video production
株式会社 青空	AOZORA,LTD
テーマ音楽制作	Theme music production
原 摩利彦	Marihiko Hara

大阪・関西万博きょうと推進委員会