Future City Project for Everyone

Reborn Challenge Implementation Body

Osaka Business Development Agency

Software industry plaza TEQS

In typical Osaka fashion, with its sights set on becoming a super city beyond the Osaka-Kansai Expo, we will propose a collaborative space where everyone can envision the city of the future. This will be achieved by developing smart city-related products and services, in fields such as transportation, tourism, and healthcare, and presenting them as content that blends the real and virtual under the theme of the city of the future. In collaboration with the Sakishima Pre-Expo, a program that has been held since fiscal 2023 to build momentum for the Osaka-Kansai Expo through industry-academia-government partnerships, support will be provided to companies to refine their products and enhance other key aspects.

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Special Website

Building an affluent society through the remote control of working vehicles

ORAM Corporation

We are working on the social implementation of a new way of working with the remote control of working vehicles. We will enrich the future of working people by using communication lines to change the operations performed in harsh environments to operations possible in comfortable indoor environments. In the exhibition, we will use 1/14 scale hydraulic machinery models and other exhibits to introduce the remote control of construction equipment.

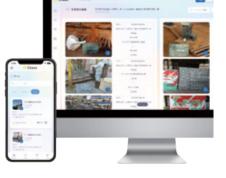## Experience driving a 1/10 scale car in a realistic car race!

C1 Ltd.

We are using low-delay communications to develop remote control technology for vehicles and flying objects. At the venue, we will introduce the future automotive society through videos and the experience of remotely controlling 1/10 scale cars. In the driving experience, people can experience a realistic feeling as if they are actually driving the car.

Next-generation robot hands that can be operated intuitively

KAWATEK CO., LTD

The "RYO Bionic Hand" for amputees uses AI and sensory feedback to create an artificial hand that realizes natural and intuitive movement. The electrical signals of the muscles are captured to control the hand, so it contributes to functional recovery and an improvement in quality of life. It also has the versatility to enable its application to humanoids and industrial robots. At the venue, we will exhibit the actual equipment and have visitors operate it.

Construction work photo ledgers are completed by just taking photos!

verbal and dialogue Inc.

The AI construction work photo app "Cheez" uses the image recognition AI ChatGPT to automatically read the text written on the construction blackboards that are photographed and instantaneously create links with the documents in the system. This enables the quick completion of construction work photo ledgers, which were previously created manually. In the exhibition, we will present the current issues in the operations performed in construction sites and introduce how the photo ledgers are actually created.

A new type of communication robot with healing effect on people

Vstone Co.,Ltd.

"HIROCHAN", a nursing care robot is equipped with acceleration sensor and speaker to make its mood can be changed according to the user's movements with it. Depending on the using situations such as on the nursing care facility, it is expected not only to provide a healing experience for the elderly, but also can reduce the workload of the nursing staff. In the exhibition, visitors will be able to experience the soothing effect of interacting with the robot.

Future dental care realized through the metaverse and AI consultation

Dental Prediction Co., Ltd.

We have developed the "DenPre 3D Lab" as a service that uses 3D data analysis technology to create custom-made 3D printed models for patients from their 3D dental data. The service can be used for dental treatment simulations, dental education, and the sharing and accumulation of case examples. At the Expo, we will introduce the future of dental practice with exhibits of the DenPre 3D Lab and also our "Dental Health Consultation mamoru," a system which uses AI to support the communication between dentists and patients.

Visualizing walking age to support health

Walk Care

We use sensing technology that measures the state of the feet during walking, and technology to calculate a person's walking age through gait analysis, and we are combining these with AR to develop "classes on future health." In the exhibition, visitors will just need to walk five meters while wearing a device on one calf and then their walking age will be displayed on AR glasses. We will also provide training advice based on the analysis results.

An app to learn kanji characters in a fun way with an original story

Learn More CO.,LTD.

We will exhibit the "KANGPT" kanji study app that uses generative AI to automatically generate original stories and pictures using the kanji characters that a user selects. At the venue, we will have visitors actually choose three kanji characters and then give them a picture book created using the story generated based on those characters.

Visualize ESG: Experience Sustainability Immersively

Takabama Co.,Ltd

BeFitterXR makes understanding ESG (Environmental, Social, and Governance) simple and engaging! Put on the goggles and instantly visualize all the ESG elements within your company operations. Explore an immersive environment, interact with various aspects, and assess their impacts. Learning ESG becomes easy and intuitive, regardless of the industry. After the experience, you'll receive an assessment report to solidify your understanding.

Experience a future city in a game that fuses virtual and real-world elements

Continuum.Social Inc.

The "CyberTrophy" app uses Web3 technology to create virtual items (NFT) and place them on maps. In the exhibition, we will use CyberTrophy to offer an immersive virtual game called "Eco Quest Challenge." Participants will learn about building sustainable future cities through AR.

A future city with no language barriers realized using AI interpreters

C&T Co.,Ltd

We have developed a service that enables users to communicate in different languages hands-free by using Talk-Trans (a fully automatic face-to-face AI interpreter) and communication badges connected via Bluetooth. Automatic language recognition is supported for the 10 most common languages, such as English. In the exhibition, visitors will experience a new type of foreign language communication in which AI automatically recognizes and translates speech according to what is said by the other party and then uses speech synthesis in the language of the other party to communicate.

A future of natural dialog between humans and AI in automated customer service systems

Qualiagram Inc.

We will utilize an automated customer service system built using a large-scale language model to enable visitors to experience a world where humans and AI coexist through an AI substitute for face-to-face dialog. At the venue, an avatar shown on digital signage will play the role of a receptionist and provide visitors with guidance on the exhibition. The avatar will learn about the exhibition contents in advance and will respond smoothly to the questions from visitors.

The companies and exhibition contents listed are subject to change in the future.