2021 WITSA Global ICT Excellence Awards
(Innovative eHealth Solutions Award)
Sustainable Health Promotion Solution

◆ EXECUTIVE SUMMARY:

Introduction

At present, when customers in the health (for fitness and rehabilitation) industry do self-training, problems such as being bored by repetitive practice, forgetting to record their physical and mental responses during training, and failing to obtain beneficial suggestions provided by professionals afterward may occur. Taking personal coaching courses or rehabilitation courses is often limited by course schedules. When coaches or rehabilitators in a class change the schedule or the number of customers is large, the quality of the course may drop. Based on the above-mentioned circumstances, the health industry has difficulty in steady and rapid promotion despite market demand.

Currently, the world suffers from the ravages of COVID-19. Social distancing causes inconvenience in physical interactions among customers and coaches or rehabilitators, and remote video teaching is clearly less effective; hence the operation and development of the entire health industry suffer. In order to solve these problems, the Siung-Sport team used AIoT, AR/VR, and other technologies to develop the Siung-Sport Health Promotion System, mainly to enhance the fun and the motivation of self-training, and to soothe the customers' psychology and emotions. Therefore, customers can strengthen their bodies independently and record their physical and training conditions in the cloud real-timely, helping the health industry to retain customers and provide a basis for consultation.

In addition to developing products of the Siung-Sport Health Promotion System, the Siung-Sport team has also made a lot of efforts to promote health by cooperating with local governments and famous universities in Taiwan to hold some related activities and do some research on health promotion topics that can enhance the function of the system. These efforts not only indirectly help the government in promoting tourism and revitalizing the economy, but also encourage new entrepreneurs and schools to invest in the development of emerging technologies,
accelerate the completion of their own health promotion products and increase the employment rate of somatosensory.

To date, the Siung-Sport team has actively participated in or held more than 19 health promotion and technology care activities that have given the local people a whole new experience of the application of somatosensory technology, and also aroused the ideas of local governments and schools for the opportunity to introduce more applications. All these have accumulated 12,000 experiences so far, have contributed to improving the digital gap between urban and rural areas and increasing business opportunities for somatosensory technology. Besides, in order to promote the products of the Siung-Sport Health Promotion System more widely, the Siung-Sport team has also successfully introduced them to gyms, occupational therapy centers, and sports parks. On the other hand, the Siung-Sport team has also cooperated with manufacturers to place the collaborative products in many nursing homes and medical units in Taiwan to work together for health promotion.

In recent years, the world has been aging more and more due to declining birth rates. Muscle mass usually decreases with age, and the number of people with sarcopenia increases after the age of 75 regardless of gender. Many elderly people with sarcopenia are prone to falls and fractures due to the loss of muscle mass and strength. In addition, elderly people are more likely to experience accelerated physical deterioration and mental decline due to lack of exercise and prolonged bed rest, a condition that is particularly likely to lead to dementia. In the future, the Siung-Sport team plans to expand the products to other aging countries to reduce the burden on international medical resources, reduce people's risk of developing sarcopenia and dementia, and improve the health of the global population.

**System Overview**

The Siung-Sport Health Promotion System has two parts, which are the front-end and the back-end. In the front-end, the Siung-Sport box has been developed to use 5G, IOT for sensing data collection and preprocessing as well as drive and control of the peripheral devices (fan, aromatic machine, etc.) connected to fitness or rehabilitation equipment. Somatosensory technology is also used to create a sensory environment with the senses of sight, sound, touch and smell. When customers use different fitness or rehabilitation equipment (flywheel, elliptical machine, upper limbs press rehabilitation machine, active/passive rehabilitation machine, etc.) for fitness and rehabilitation, the system can quickly switch to different countries or game scenes as needed by the customer, with the sense of speed, floral scents and
smells to make it feel like embracing nature, making the training process fun and soothing to the mind.

In addition, during the training process, the customers’ training data (heart rate, speed, distance, etc.) is instantly sensed by their wearing device and sensor (sports bracelet, Hall effect, etc.) and uploaded through the Siung-Sport box to the back-end, the Siung-Sport platform, which will immediately send back alerts for the riding posture correction (3 sets of detections, 6 sets of tips) to avoid training injuries and increase the overall training effectiveness. And the platform also provides customers the service of training consultation and recording the physical and mental response of the training process. Not only can the Siung-Sport Health Promotion System be deployed at the manufacturer’s site, but also it can be used at home during the COVID-19 outbreak. It is easy to establish each personal health resume and ranking, which also adds value to health training services by stimulating potential and providing a basis for professional consultation, enabling customers to quickly adapt training practices and provide community sharing, in a long-distance way. The following picture shows an overview of the Siung-Sport Health Promotion System.

![Figure 1. Overview of the Siung-Sport Health Promotion System](image_url)
System Features

The following will be presented in two parts, one is a brief description of the main features of the Siung-Sport Health Promotion System, and the other is a research and development for sarcopenia.

1. Features for Fitness and Rehabilitation
   - The system is highly scalable and can be easily installed on the customers’ own fitness or rehabilitation equipment for self-training.
   - The Siung-Sport box was developed to drive and control the peripheral devices connected to the fitness or rehabilitation equipment, as well as to collect the customers’ training data. It is highly compatible and convenient with many brands of fitness or rehabilitation equipment.
   - The Siung-Sport cloud platform uses the customers’ training data from the box to create their health resume through body analysis and exercise analysis.
   - The system allows experts to consult with the customer's health resume, and to monitor, manage and give training plans for the customer at their convenience on the platform.
   - The system brings panoramic photography technology to fitness or rehabilitation equipment, providing the perfect combination of VR360 and equipment used to make situations more immersive.
   - The system provides the customers with the opportunity to compete against each other while exercising to generate a competitive ranking, thereby increasing motivation to exercise for the purpose of health promotion.
   - The system will slow the rate of global aging, reduce the waste of international medical resources, and improve the health of the population.

2. Research and Development for Sarcopenia
   Many countries around the world have entered an "aging society". Due to the aging process resulting in the degeneration of motor nerves, reduced protein synthesis, inadequate nutritional supply, chronic diseases and inflammatory responses to sedentary and bedridden conditions, all of which contribute to the formation of sarcopenia. Sarcopenia is a progressive decrease in muscle mass and muscle function. Only the intake of nutrition without exercise is not very
helpful in preventing sarcopenia. In addition, it may seem that sarcopenia is not related to dementia, but in fact, people with sarcopenia are particularly susceptible to dementia. This is because the lack of muscle makes a person often feel tired, limited in movement, or even have to stay in bed for long periods of time, and even though the original mind is normal, the rate of mental deterioration continues to accelerate due to physical incompetence. Exercise can really slow down muscle loss and functional deterioration, especially resistance exercise. Therefore, the Siung-Sport team has been working on a study in collaboration with National Kaohsiung University of Science and Technology to identify and prevent sarcopenia through exercise management.

The Siung-Sport Health Promotion System has enhanced based on the study to provide a comprehensive assessment of the elderly and cancer patients over 65 and young adults through the use of impedance equipment such as elliptical machines, rowing machines, and upper limbs press rehabilitation machine, AR/VR games, dietary nutrition analysis, personal health resume, and SARC-F questionnaire. It was found that the AR/VR game can enhance the willingness of users to train, directly improve muscle strength and muscle endurance, improve the problem of sarcopenia, and also improve the function of insulin in the body, allowing the body to increase bone density under appropriate stimulation, which is also very helpful for the prevention of osteoporosis and dementia in the elderly.

At the same time, through comprehensive assessments, the Siung-Sport Health Promotion System supports physicians in conducting personalized consultations and helping to develop the most appropriate training approach for their patients. Personalized analytic counseling with full realistic feedback and situational awareness enables physicians around the world to plan training content remotely and effectively during the COVID-19 outbreak and rampages, enabling more accurate training management and reducing the risk of infection.

System Effect and Benefit

The Siung-Sport Health Promotion System has been deployed in Kaohsiung City Hall, large events, gyms, and occupational therapy centers to demonstrate its effectiveness. These demonstrations not only attracted approximately 12,000 visitors (as shown in Table 1) but also provided a lot of positive feedback and encouragement.
Table 1. The actual benefits created by the Siung-Sport Health Promotion System

<table>
<thead>
<tr>
<th>Category</th>
<th>Benefits</th>
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<tr>
<td>Exhibitions &amp; Events</td>
<td>From 2019 to 2021, the products developed by the Siung-Sport team have been demonstrated at 19 exhibitions (2019 National High School Game, 2019 National Anti-Drug Expo, 2020 ITSPORT, 2019 KOSMOS Festival, 2020 KOSMOS Festival, 2021 Precision Health and Smart Long-Term Care Forum, MOVE Sports Technology Alliance, etc.), and a total of 12,000 people have experienced these products.</td>
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| Gyms/ Occupational Therapy Center/ Sports Park| - In 2019, the products developed by the Siung-Sport team have been demonstrated in gyms and occupational therapy center, and in December 2020 at Fengshan Sports Park. So far, a total of 2,175 people have experienced these products.  
- The Siung-Sport team are working with two manufacturers, Compal & IdeaBus, to develop the products, and have expanded to many nursing and medical units in Taiwan to work together for health training. |

Figure 2. The Siung-Sport team collaborated with Phalanity Digital company to participate in the “2020 ITSPORT”: riding contest of riders (left) & media interview by the VLSport news (right).
Figure 3. The products (VR Boating (left) & VR Flywheel (right)) are deployed at Fengshan Sports Park to assist coaches in training and attracting more customers.

Figure 4. The Siung-Sport team was invited to join the 2021 "Season 18 SBL Super Basketball League & Opening of the New Basketball Stadium" at Fengshan Sports Park (right) to demonstrate the VR Boating (left).
Figure 5. Mayor of Kaohsiung City (Former Vice President of the Executive Yuan) – Chen Chi-Mai took a virtual tour of famous Kaohsiung spots (Love River, The Pier-2 Art Center, etc.) by riding the VR Flywheel.

Figure 6. Director of Department of Industrial Technology (DoIT) of the Ministry of Economic Affairs (MOEA) and academic professors visited and experienced the products of the Siung-Sport Health Promotion System.

As Figure 7 shows, the Siung-Sport team conducted a survey using google forms in 8 randomly selected locations and found that over 77.2% of people responded very well to the experience of the system, with many giving it a perfect score, and on the other hand, up to 73.3% of people were more enthusiastic about sports after using the system. In addition, the Siung-Sport team also found that about 90.1% of people
are willing to spend money (in the range of NT$100 to NT$2,000) to use the Siung-Sport Health Promotion System for exercise and fitness.

![Figure 7. The result of the simple random sampling for 8 locations](image)

Obviously, the products of the Siung-Sport Health Promotion System can really solve the boring training through the innovative application of fitness through games and personal health records, allowing experiencers to highly agree and ignite enthusiasm for sports. This is why up to 90.1% of people are willing to spend money to use the system. Therefore, for venue owners who introduce the products, this will not only enhance customer retention, but also increase revenue.

In addition to working with gyms and well-known domestic occupational therapy companies (e.g. Le Point Occupational Therapy Center), the Siung-Sport team also works with various county and city governments to organize large-scale events to revitalize the tourism and economy to attract the participation of somatic digital talents and increase employment through the demonstration of the Siung-Sport Health Promotion System. Currently, the Siung-Sport team is working with Fengshan Sports Park (Fengshan Sports Park is the largest and most iconic sports park in Kaohsiung and the first civic sports center in Kaohsiung) and Merida Zhongshan Station 18 (Merida is an internationally recognized bicycle brand and one of the top companies in Taiwan) to create a demonstration site for the system and open it to the public for experience to accelerate the promotion of the use of the system for sports and fitness.
As for precision health and long-term care, the Siung-Sport team cooperated with Tajen University to hold the "Precision Health and Intelligent Long-Term Care Forum" in 2020 (Figure 8) and also to present a number of research results or products developed by the team in IT care applications according to the needs of various health care fields (Figure 9). In 2021, the Siung-Sport team is still working with Tajen University and jointly applied for the "The Ministry of Education Grant for 110th Project of Frontier Display Technology Cross-Domain Applications Demonstration Site Building in Campus".

Figure 8. "2020 Precision Health and Intelligent Long-Term Care Forum" : the Siung-Sport team gave a talk to present the products of the Siung-Sport Health Promotion System.

Figure 9. "2020 Precision Health and Intelligent Long-Term Care Forum" : the Siung-Sport team demonstrated the products, Upper Limbs Press Rehabilitation Machine with Game Interaction (left) & VR Active/Passive Rehabilitation Machine (right).
In the meantime, the Siung-Sport team is actively building more demonstration sites for the products of the Siung-Sport Health Promotion System and looks forward to deploying them in hospitals and day care centers in the future, with Happiness Day Care Center being the first private day care center to deploy the product (Figure 10). The Siung-Sport team hopes that this will help doctors and caregivers in their health care work to benefit more people in need of care, and to ensure the feasibility, effectiveness and continuous improvement of the system/products through field trials. The Siung-Sport team expects that with close cooperation with medical institutions or manufacturers and promotion using digital tools (e.g. official website, Facebook), they can accelerate the adoption of the system/products.

Figure 10. The product, Upper Limbs Press Rehabilitation Machine with Game Interaction, is deployed at Happiness Day Care Center to help caregivers in their health care work.

In addition, our unit (Institute for Information Industry, III) and the Ministry of Economic Affairs have established the "MOVE Sports Technology Alliance " together with 30 industries, academia and research institutes to seize the business opportunities of sports industry transformation (Figure 11, 12). The Siung-Sport team plans to provide IT application solutions such as body sensing technology, artificial intelligence coaching, intelligent course production, and sports data management, mainly starting from intelligent sports services with anti-epidemic technology, and linking the industry, academia, and research sectors such as sports service industry, fitness or rehabilitation equipment industry, information and communication industry, academia, and public associations across Taiwan to accelerate the transformation and development of sports industry and expand cross-field cooperation opportunities. Since there are many news reports and photos of
the related events in the related media (online and print), the Siung-Sport team has extracted the classic contents in the attachment.

Figure 11. "MOVE Sports Technology Alliance" : many sports companies and schools join.

Figure 12. "MOVE Sports Technology Alliance" : the Siung-Sport team demonstrated the product, VR Flywheel (left), it was noticed and reported by the media of Taiwan (right).

According to international standards, societies where people over 65 years of age account for 7%, 14% and 20% of the total population are known as aging societies, senior societies and super senior societies, respectively. Taiwan has become an aging society in 1993 and will become a senior society in 2018 and it is estimated that it will enter a super senior society in 2025. Making the elderly to grow old comfortably and happily is a goal that many countries strives for in the face of aging. However, the chances of developing disabilities and dementia gradually increase with age. How to keep the elderly from lying in bed, growing old healthily and living without dependence on others is a concern for all countries. The Siung-Sport Health Promotion System has been enhanced by research with companies and academic institutions in Taiwan, and is now being demonstrated in many settings in Taiwan, and is planned to be promoted to the world in the future to assist countries in reducing the incidence of sarcopenia and dementia and the burden on international medical resources. This in turn will improve the health status of citizens in all countries.
◆ YOUR NOMINEE(S):

Institute for Information Industry (III) is the Driving Force of Taiwan's Information Technology Industry Transformation (www.iii.org.tw). III was incorporated in 1979, through the joint efforts of public and private sectors, to support the development of information industry as well as information applications of each area in Taiwan.

◆ REASONS FOR NOMINATION:

Integrating Research Technology, Connecting Innovative Applications with Local Governments in Taiwan

The Siung-Sport Health Promotion System introduces panoramic photography technology into fitness or rehabilitation equipment, providing the innovative combination for use. In order to reduce the vertigo caused by the inconsistency between brain vision and motion cognition when watching VR360, the Siung-Sport team did the best to adjust the parameters of Unity (game engine, which allows users to wear VR glasses to play 360 video) and the equipment to create a stable VR360 presentation. This provides a new type of leisure sport that allows people to experience virtual travel around the world while exercising, even if they are unable to travel abroad.

In order to promote the innovative combination of the Siung-Sport health promotion system products to the public and to drive the trend of health promotion for all people, the Siung-Sport team strives to connect with local governments to demonstrate the efficacy of the products in health promotion, and to find opportunities for cooperation to conduct related demonstration and promotion activities. Among them, "2020 KOSMOS Festival" was a touring event that spans four cities in Taiwan (Kaohsiung City, Pingtung City, Taipei City, and Hsinchu City). Through this event, the team has made good connections and interactive cooperation with these local governments.

Because of the geographical location of the Siung-Sport team's workplace, the team has more interaction and cooperation with the Kaohsiung City Government and Pingtung County Government. The following is a brief description:

■ Kaohsiung City Government

The Siung-Sport team was invited by the Kaohsiung City Government to attend the "2019 Taiwan National Investment Promotion Forum" and demonstrated the product VR360 flywheel (figure 13). The VR360 video was actually shot at the major famous scenic spots in Kaohsiung (e.g. Pier2 Art Center, Lotus Pond, Love
This demonstration successfully assisted Kaohsiung City Government to promote tourism and investment as well as anti-drug propaganda. And in 2020, the Siung-Sport team participated “Liouhe Tourism Night Market Economic Revitalization Activity”, which not only promoted the well-known spots of Kaohsiung City, but also increased the flow and consumption of Kaohsiung City Night Market (figure 14). According to the feedback from Kaohsiung City Government through the Liuhe Tourist Night Market’s committee, the number of visitors and consumption had significantly increased.

Figure 13. "2019 Taiwan National Investment Promotion Forum" : the person took a virtual tour of the Pier2 Art Center in Kaohsiung while riding a VR flywheel (left) & explanation to visitors (right).

Figure 14. "2020 Liouhe Tourism Night Market Economic Revitalization Activity" : many people were waiting in line to experience the VR360 flywheel.
Besides, the Siung-Sport team was also invited to attend 2020 "Intelligent Future and Reflects Imagination" event held by Kaohsiung City Government (figure 15). The products of the Siung-Sport Health Promotion System and those of seven other well-known technology companies demonstrated their respective technological research and development capabilities during the COVID-19 outbreak. Research power is economic power, which can turn crisis into great business opportunity.

Figure 15. 2020 "Intelligent Future and Reflects Imagination" event : the Siung-Sport team demonstrated the products, which are VR Boating & VR Flywheel (left), and was interviewed by the media (right).

Pingtung County Government

In addition to cooperating with Kaohsiung City Government, the Siung-Sport team is currently working together with the Labor and Youth Development Department of Pingtung County Government to draw up the "2021 Pingtung County Youth Creative Ideal, Pingtung Is Fun@5 Universities for Digital Life Activities" (Figure 16), which will demonstrate the applications of somatosensory technological research for people to experience after Mid-Autumn Festival. In cooperation with the Labor and Youth Development Department of Pingtung County Government and five Universities (National Pingtung University of Science and Technology, National Pingtung University, Tajen University, Meiho University, and Tzu Hui Institute of Technology), the Siung-Sport team’s work goal is to encourage companies and schools engaged in the development of somatosensory technology applications to invest in research and develop somatosensory products, promote the training of digital talents, and increase the employment of somatosensory digital talents.
Figure 16. Director of the Labor and Youth Development Department of Pingtung County Government visited (left), and invited the Siung-Sport to attend the meeting for "2021 Pingtung County Youth Creative Ideal, Pingtung Is Fun@5 Universities for Digital Life Activities" (right).

Product Characteristic & Advantage

1. **Enhance the enjoyment of exercise and overcome the laziness of exercise**

   Through VR or autostereoscopic 3D display, the environment is created by using IOT technology to control the peripheral devices (fans, aromatic machine, etc.), with the wind, flowers or sandalwood scent, allowing users to feel the actual cycling speed and real wind speed, feel the atmosphere of nature phenolic, and get the physical simulation experience of sight, touch and smell. In this way, the interactive fun of the training process can be improved and the motivation of fitness or rehabilitation can be enhanced, so that users will no longer be lazy and willing to extend the training time.

2. **Easily create a personal health resume**

   The Siung-Sport box is highly compatible and convenient with many brands of fitness or rehabilitation equipment (flywheel, elliptical machine, upper limbs press rehabilitation machine, active/passive rehabilitation machine, etc.). The box can collect training data (heart rate, speed, distance, etc.) through the sensors (pressure and motion, etc.) and upload the data to the cloud platform of the Siung-Sport Health Promotion System. The cloud platform can display the personal health resume on website in time, and users can share and exchange experiences on social media to make exercise more fun.
3. **Compete together to stimulate potential and accelerate exercise achievement**

In addition to solo use, users can also choose multiplayer mode to exercise in a competitive manner, stimulating personal exercise potential through ranking to accelerate the achievement of goals (weight loss, fitness, etc.), as well as sharing posts with online communities by the smart services of the Siung-Sport Health Promotion System.

4. **High scalability of the product development**

Due to the high compatibility of the products developed by the Siung-Sport team, they can be well integrated with other fitness or rehabilitation equipment (elliptical machine, rowing machine, upper limbs press rehabilitation machine, active/passive rehabilitation machine, etc.). As the Siung-Sport’s official website shows, the Siung-Sport team has worked with several rehabilitation companies to develop a number of functions such as riding posture analysis, physical condition analysis, and training result analysis to provide therapists with a rehabilitation resume as a reference for consultation. Currently, the Siung-Sport team is working with National Kaohsiung University of Science and Technology on research and development of exercise applications to improve sarcopenia. Combining the Siung-Sport Health Promotion System, resistance equipment and AR/VR games, the solution not only improves the motivation of patients who want to train on their own, but also increases their muscle mass and improves sarcopenia.

5. **Remote monitoring & training to reduce the risk of Coronavirus disease (COVID-19) infection**

Training at home is the big trend during the COVID-19 outbreak. The Siung-Sport Health Promotion System is highly compatible and convenient with many brands of fitness or rehabilitation equipment, and trainers simply match the sensors and the Siung-Sport box to their training equipment and network at home for a quick installation (figure 17). Through the Siung-Sport box, the training data (heart rate, speed, distance, etc.) of the user can be collected and uploaded to the cloud platform, and a personal health resume is generated (figure 18). Then experts (fitness, coaches, doctor, etc.) can remotely monitor, manage training progress and made training schedules in the platform for the users. In other words, the system assists users in accurate self-training and allows experts to easily monitor, manage and give plans, which not only significantly improves people’s health, but also allow medical and rehabilitation units in the world to actually develop training content in a remote way, which greatly reduces the risk of infection in the event of a pandemic outbreak.
Promotion Tour and Technology Care

In order to promote the application of somatosensory technology and give the public practical experience, the Institute for Information Industry (III) took into account the feedback from the 1-month "2019 KOSMOS Festival in Kaohsiung City" to expand the 3-month "2020 KOSMOS Festival" somatosensory tour experience in 2020 for demonstrating the research result of Science and Technology R&D Programs and manufacturers. The "2020 KOSMOS Festival" tour covered 4 cities in
Taiwan (figure 19): Kaohsiung City (figure 20, 21), Pingtung City (figure 22), Taipei City (figure 23), and Hsinchu City (figure 24), and invited 17 somatosensory manufacturers (HTC, The Braking Dog Entertainment, Phalanxity Digital, BROGENT, etc.), 6 universities (Cheng-Shiu University, Chia Nan University of Pharmacy and Science, Far East University, National Pingtung University, Southern Taiwan University of Science and Technology, and Chaoyang University of Technology) to participate in the exhibition, with products including AR/VR racing and shooting games, smart fitness, and so on.

The "2020 KOSMOS Festival" tour accumulated nearly 130,000 visitors with good overall results. The products of the Siung-Sport Health Promotion System were also favored by the public and the media’s attention and coverage. This is the first time that the Siung-Sport team has partnered with 4 local governments to promote the somatic technology innovations for smart sports applications. All 4 local governments and legislators expressed their wish to have more opportunities to introduce further technologies and hoped that the Siung-Sport team could help promote the development of local somatosensory business and create contributions to narrow the gap between urban and rural areas. The Siung-Sport team will take on this mission and work hard to achieve this goal.
Figure 20. "2020 KOSMOS Festival – Kaohsiung City" : event venue set-up in progress (left), Director of Economic Development Bureau, Kaohsiung City Government visited (right).

Figure 21. "2020 KOSMOS Festival – Kaohsiung City" : the products of the Siung-Sport Health Promotion System - VR Boating (left) & VR Flywheel (upper right) was set, many children were waiting in line to play VR Flywheel, and some even repeated the line two or three times (upper right), many people were waiting in line to play VR Boating (lower right).
Figure 22. "2020 KOSMOS Festival – Pingtung City": the products of the Siung-Sport Health Promotion System - VR Flywheel (upper right) & VR Boating (lower right) were set, many people were waiting in line to experience (left).

Figure 23. "2020 KOSMOS Festival – Taipei City": the product of the Siung-Sport Health Promotion System-VR Flywheel (left) was set, many people were waiting to play (right).

Figure 24. "2020 KOSMOS Festival – Hsinchu City": the product of the Siung-Sport Health Promotion System-VR Flywheel (left) was set, Hsinchu Deputy Mayor and Kaohsiung Deputy Mayor visited (upper right), many people were waiting in line to play (lower right).

◆ SUPPORTING INFORMATION:

Media Reports & Pictures


展示VR飛輪&節奏飛輪報導


[7] 2019 TAKAO樂–高雄資策會的體感飛輪，讓體驗者感受5D的感官衝擊


[18] 2020 Siung-Sport Research And Innovation Application Interview–2020雄感動創新應用訪談


[22] 2020 Formosa News–2020飛輪結合VR漫遊愛河 新創展新意十足


[26] 2020 新高雄新聞–2020舉辦防疫科技展 展現高雄研發軟實力


[29] 2020 ITSPORT Image–2020新現代五項運動會暨運動科技體驗–現場照片


[31] MOVE Sports Technology Alliance Image–MOVe運動科技大聯盟–現場照片


[33] 2021 Precision Health And Smart Long-Term Care Forum With Tajen University Image–2021大仁科大精準健康與智能長照論壇–現場照片

[34] 2021 Siung-Sport VR Boating & Kaoshiung City Fengshan Sports Park & SBL Baseketball Competition & Frog Travel Market Image

[35] Siung-Sport Health Promotion System：VR Flywheel Introduction Video–雄感健康促進平台：VR飛輪介紹影片

Office Website & Facebook
[1] Siung-Sport Office website
[2] Siung-Sport Facebook

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