

Chapter Three.

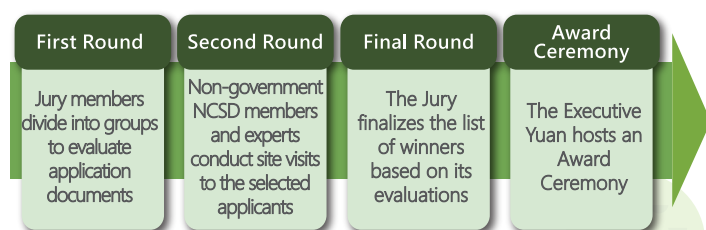
Status of the 2017 National Sustainable Development Awards Campaign

I. Introduction of the National Sustainable Development Awards

The Executive Yuan's National Council for Sustainable Development initiated the Campaign to Select and Honor Recipients of the National Sustainable Development Awards to encourage nationwide participation in promoting sustainable development and achieve the government's vision for sustainable development by making the concept an integral part of people's daily lives on a local level. The award recognizes schools, private businesses, civic organizations and government agencies whose sustainability-related efforts have yielded excellent results.

The judging process comprises three rounds: after collecting the award applications, a jury consisting of NCSD members and experts make a preliminary selection by judging the submitted documents according to the evaluation guidelines. Then, they will conduct site visits to the selected applicants and make the final decision on that year's winners, who will be celebrated at an award ceremony hosted by the Executive Yuan.

Fig. 27 National Sustainable Development Award's judging and awarding process



II. Results of the 2017 National Sustainable Development Awards Selection Process

After a round of document evaluation by relevant working groups in the NCSD, on-site evaluation by the non-government NCSD members and a final round of selection by the entire jury, 11 winners were selected for the 2017 National Sustainable Development Awards. Following convention, an award ceremony was held in December at the Executive Yuan to the public.

Table 2 List of 2017 National Sustainable Development Awards Winners

Categories	Winners
Educational Institutions	Yilan County Ci-Xin Waldorf Experimental High School
	Hungkuang University
	Nanhua University
Private Businesses	United Microelectronics Corporation (UMC)
	Pacific SOGO Department Store
	Rohm and Haas Electronic Materials Asia-Pacific Co., Ltd.
NGOs	World Vision Taiwan (Nationwide)
	Yunlin County Aquaculture Development Association (Regional)
Government Agencies	Forestry Bureau, Council of Agriculture, Executive Yuan-" Agro-Ecosystem Conservation and Green Conservation Label" Project
	Health Promotion Administration, Ministry of Health and Welfare-" Accreditation of Age-Friendly Healthcare Services" Project
	Construction and Planning Agency, Ministry of the Interior-" One-Stop Service for Requests Regarding Environmentally Sensitive Areas" Project

III. About the Winners

1. Educational Institutions

(1) Yilan County Ci-Xin Waldorf Experimental High School

A. Introduction

The Yilan County Ci-Xin Waldorf Experimental High School (Ci-Xin Waldorf School for short) is founded by the Anthroposophy Education Foundation, a platform that brings private and public resources together to create an innovative form of education. Its mission is to provide young children with opportunities to learn collectively and grow healthfully, regardless of social standing.

B. Efforts in Promoting Sustainable Development

The Ci-Xin Waldorf School is centered on the belief that any local culture is formed through the local people's perception of themselves, of their society, of the natural environment, the world and the universe. The resulting accumulation of wisdom is passed on as culture in an educational setting, where the teachers create a school-based curriculum by internalizing and expanding on local perspectives, and mixing in environmental and ecological resources. The school features green architectural design on its campus, and enhances its students' intrinsic ability to appreciate their environment and aesthetics by making use of artistic methods and the environment itself.

It builds an educational relationship between people and their surroundings and promotes co-existence between humankind and nature.

The Ci-Xin Waldorf School has designed diverse teaching methods to educate students about environmental protection and caring for disadvantaged groups not only locally but globally, cultivating a noble character in the process. The school's curriculum, rich with local cultural elements, includes history, agriculture, architecture and travel as well as outdoor challenges, community service and local issues. The school is also active in livening up local communities and social networks, using school education as a starting point for community revitalization. By connecting its network of parents, local associations and neighborhood residents, and reminding community members to overcome contemporary social barriers, the school has been able to rebuild positive and collaborative relationships between different groups, and inject energy and vitality into the local communities once again.

The Ci-Xin Waldorf School encourages parents to engage in a broad range of school affairs and create a model for community-led collective action in civil society. This model can then be used in participation in public affairs on a community or regional level, and serve as a concrete example of putting Taiwanese civil society values into practice. In terms of inter-school cooperation, the Ci-Xin Waldorf School has arrangements with several Waldorf Schools across Taiwan, which allow students from different schools to interact and exchange academic and life experiences with each other on a regular basis. These agreements also enable teachers from different schools to collaborate on teaching materials, training workshops and teaching demonstrations, which contribute to enriched learning experiences and innovative curricula. The school also has international exchange programs with China, Hong Kong and Malaysia.

C. Vision for Future Development

Since the 1970s, the Ci-Xin community has been dedicated to rebuilding harmonious and healthy relationships between humans and themselves, between humans and other humans, between humans and the land, and between humans and the universe. When the school started implementing Waldorf pedagogy in Taiwan 20 years ago, the hope was that its anthroposophical approach would make it an exemplar for Taiwanese schools offering an alternative education and promote a diverse and healthy education system in Taiwan.

In the future, the school will continue to build learning systems that help develop each student's potential to the fullest and cultivate its growing team of educators. In terms of campus development, the school will work to meet the financial and spatial requirements for a 12-year Waldorf education and promote a friendly and open community life. In addition, courses related to community care services and agricultural systems will be expanded so that the Ci-Xin Waldorf school may play a role supporting the health of society with an innovative curriculum, and contribute to Taiwan's overall sustainable development.



Fig. 28 Drama and community service class: 12th graders perform an outdoor play at the Luodong Cultural Working House



(2) Hungkuang University

A. Introduction

Hungkuang University, founded on “green university” principles, is dedicated to high-quality teaching, fulfilling its social responsibilities and promoting sustainable development in Taiwan. In 1999, in view of the rapidly changing society, diversification of the vocational school system and organizational expansion, the university decided to adopt ISO 9000 quality management standards. It introduced total quality management concepts to its university operations, devised strategies and action plans to lower the school's impact on the environment, and dedicated more resources to cultivating socially responsible citizens who would ultimately contribute back to the community and society.

B. Efforts in Promoting Sustainable Development

The results of Hungkuang University's sustainable development plan can be categorized into five main areas: caregiving, community services, environmental protection, continuing education, and corporate social responsibility.

In the area of caregiving, Hungkuang University has worked with communities to administer an active golden-ager learning center, an active golden-ager college, a senior lifelong learning center, a community nanny network, a daycare center, a kindergarten and even a platform for matchmaking new mothers with at-home postpartum care providers, effectively creating a social care system for everyone from ages 0 to 99.

To encourage community service, the university has created a mandatory general education core course on humanism in conjunction with a practical course on service learning. The university's far-reaching Hung Ai Volunteer Group serves not just nearby communities, but also Taiwan's rural areas and other parts of the world.

One of the university's efforts toward environmental protection is promoting green energy. Campus rooftops have been installed with photovoltaic systems, which not only generates over 1.3 million kWh of clean energy a year, but also effectively cools down the top floors of the buildings. In addition, the school has been actively cultivating in its professors and students a sense of responsibility toward conserving the natural environment by educating them about energy waste, pollution prevention, respecting and protecting the environment, and cherishing the world's limited resources. This type of environmental education is offered to the public as well.

The university has committed many resources to continuing education. Not only does the school play its part in helping the country develop outstanding talents by establishing 32 national-level examination centers on its campus, it has also launched a variety of extension courses to satisfy folks with a passion for lifelong learning.

The university has also reached out to communities, prisons, detention centers and juvenile reformatory schools to organize training courses on skills like baking and caregiving, and assisted prisons with setting up examination venues, thoroughly fulfilling its social responsibility as an educational institution.

Fig. 29 Hungkuang University's social caregiving system for ages 0~99



Community nanny network, day care center, kindergarten



Golden-ager learning center, golden-ager college, senior lifelong learning center



Volunteers giving free haircuts and free love to the world



Volunteers spreading free love to the world



C. Vision for Future Development

Originally founded as a medical and nursing college with the school motto “Begin from oneself, extend benevolence to all,” Hungkuang University has in the past 50 years cultivated over 70,000 professionals in health and other industries intimately connected with people's daily lives. It is currently a major institution in Taiwan for educating students and conducting technical research and development in these fields.

To make sustainable development part of its campus culture, Hungkuang University is working to create a sustainable green campus, with long-term planning and execution strategies based on the United Nations'17 SDGs. In addition to fulfilling its social responsibility by promoting environmental education, life and death-related topics and community services through its offered courses, research projects and daily life on campus, the university also adopts administrative management measures that help to conserve energy and reduce its carbon footprint. The hope is for every faculty member and student to take to heart the concepts of sustainable development and serving others, and in turn influence nearby schools, communities, the rest of society and even the rest of the world..

(3) Nanhua University

A. Introduction

Nanhua University was founded in Chiayi in 1996 by Fo Guang Shan founder Master Hsing Yun with the support of millions of followers. Up to 75.76% of the campus grounds is green, earning the school the nickname “Forest University.” Adhering to the principle of “giving back to society what you take from it,” the university fulfills its social responsibility by implementing strategies for energy conservation, carbon reduction, environmental protection and smart disaster prevention, and also promotes these concepts to all levels of society via environmental education. The university maintains its status as a model sustainable campus in Taiwan and the world by actively advocating life education, knowledge and innovation, sustainable development, and its Three Acts of Goodness initiative.

B. Efforts in Promoting Sustainable Development

Nanhua University allocates an abundance of resources to education for sustainable development, including an annually increased budget, which had reached NT\$40 million by 2017.

Each year the university's Center for General Education offers 51 special courses on environmental education. It publishes the *Journal of Environment and Management Research and Corporate Social Responsibility Report*, and has launched a Center for Sustainability and a master's program in sustainable green technologies, which aims to cultivate future green experts to research ways to mitigate and adapt to the effects of climate change.

Nanhua University's contribution to environmental sustainability is seen in its efforts in planning a carbon-neutral campus. Its campus is 75.76% covered in greenery with a permeable rate of 78.56%; green products comprise 95.4% of all the school's procured items; it has received an ISO50001 Energy Management Certification; its Energy Usage Intensity (EUI) was only 70.24, and its recycling rate was as high as 49.7% in 2016.

Furthermore, Nanhua University performs its social responsibility duties and encourages community participation by promoting education for sustainable development to the public.

Nanhua has made strategic partnerships with other universities on sustainability-related subjects, collaborated with the Ministry of Education to educate people on repurposing agricultural waste, and reached out to schools on all levels as well as overseas to provide volunteer services and environmental education. The university also serves disadvantaged groups by volunteering in rural areas, visiting senior citizens who live alone, and educating communities on cherishing life. In the last three years, Nanhua has worked with public agencies, including the Ministry of Education, to organize 16 events promoting the sustainable development of local industries and culture.

C. Vision for Future Development

Nanhua University takes pride in offering an excellent university education that raises awareness of life-and-death issues as well as society's injustices and underprivileged. It will continue to expand on its current emphasis on subjects such as life education, knowledge and innovation, environmental sustainability and its Three Acts of Goodness initiative, and move toward its three main sustainability goals.



The first goal is smart disaster prevention—in response to climate change, the university will establish an AI-based landslide prevention and monitoring system, hoping to become a model campus for smart disaster prevention in Taiwan.

The second goal, environmental education, involves getting EPA approval to operate as an Environmental Education Facility and Environmental Education Institution, so that Nanhua may fulfill its social responsibility as a university and advocate its ideas and methods regarding climate change mitigation and adjustment to other educational institutions as well as communities all around.

The third goal is to achieve campus-wide carbon neutrality by 2021. In the meantime, the university will continue to build a zero-pollution, zero-waste and eco-friendly campus by adopting more solar energy, reducing its trash output and promoting environmentally-friendly and low-carbon activities.

2. Private Businesses

(1) United Microelectronics Corporation

A. Introduction

Founded in 1980 as Taiwan's first semiconductor company, United Microelectronics Corporation (UMC) is a leading foundry that provides advanced IC production services. UMC's robust foundry solutions enable chip designers to leverage the company's sophisticated technology and manufacturing, which include: high volume production of 28nm poly-SiON and gate-last High-K/Metal Gate technology; 14nm mass production, ultra-low power platform processes specifically engineered for Internet of Things (IoT) applications; and the automotive industry's highest-rated AEC-Q100 Grade-0 manufacturing capabilities for production of ICs found in cars.

UMC's 11 wafer fabs are strategically located throughout Asia and are able to produce over 600,000 wafers per month. The company employs over 19,000 people worldwide, with offices in Taiwan, Japan, Korea, China, Singapore, Europe and the United States to serve its global clients.



B. Efforts in Promoting Sustainable Development

i. Excellent performance in sustainability

As a company dedicated to sustainable development, UMC is the first semiconductor company in Taiwan to have a Corporate Sustainability Committee. This CS Committee is responsible for coordinating company-wide CSR initiatives and determining the company's sustainable development policies and goals. It introduced UN SDGs as the basis for sustainable management and assessment, and combined sustainability indicators with operating benchmarks to make them part of the company's operations. For 10 consecutive years since 2008, UMC has been listed as a Dow Jones Sustainability Indices (DJSI) constituent stock.

ii. Sustainable co-existence with nature

UMC has taken climate change and energy-related challenges head on by launching a "10-Year (2010-2020) Energy Reduction Roadmap" that aims to reduce the company's electricity and water consumption, waste output and carbon emissions by following resource and energy productivity improvement plans

known as "333," "369+" and "Green2020." On the other hand, all of UMC's newly-built fabrication plants have received green building certification, and existing fabs have also been accredited by the Cleaner Production Assessment System of the Ministry of Economic Affairs' Industrial Development Bureau and are gradually being updated with sustainable design features.

iii. Green charitable initiatives

In 2014, UMC completed a carbon trading transaction of 2 million tCO₂e, the first such deal approved by the EPA in Taiwan, and used the proceeds of NT\$30 million to create the Eco Echo Ecological Conservation Fund. In its first year, UMC partnered with the Society of Wilderness's Hsinchu chapter and contributed NT\$3 million from the fund to a conservation program for the Dabeishan Sauter's Frog (*Rana sauteri*) for a period of three years, demonstrating the company's commitment to giving back to nature. In 2016, UMC launched its Eco Echo Award, which rewards prizes that total NT\$1 million every year to support the most innovative ecological conservation proposals.



UMC also broadened its partnership with the media to communicate its message to various communities and NGOs, and to encourage ecological conservation groups to submit their original and concrete proposals for sustainable environmental protection, so that the company may have ample opportunities to support local Taiwanese initiatives for environmental sustainability.

Fig. 30 Launching of the UMC Eco Echo Award



iv. Social sustainability and prosperity

UMC supports employees who take paid leave to participate in volunteer work. For years its "Sowing the Seeds of Hope" project has been dedicated to advancing the education of children from disadvantaged households and has already helped more than 6,000 children stay in school.

In addition, the company is actively involved in promoting lifelong education, reading, green energy and cultivation of skilled professionals in foundational technologies, as well as in various social charity causes. Internally, UMC maintains several employee health programs to ensure that its employees have a healthy work-life balance.

C. Vision for Future Development

Sustainable development and social responsibility are a core part of UMC's corporate culture, and this spirit shall be carried on by all members of this company. The company hopes to use its ample experience and solid foundation of expertise in developing digital technologies to achieve its vision of creating an eco-friendly world with people-oriented values, environmental symbiosis and social prosperity. Green innovation and corporate responsibility will continue to drive the company's sustainable growth, as well as provide solutions to its clients' sustainability-related challenges.



(2) Pacific SOGO Department Store

A. Introduction

Currently in its 30th year, Pacific SOGO Department Store (SOGO for short) pledges to work with all its stakeholders to be “the best corporation in society and the best corporation for society.” The company's many sustainable development and CSR achievements include being the first department store in Taiwan to receive carbon labeling certification, be ISO 5000 certified, require its suppliers to sign a CSR pact and launch a CSR website with a special page dedicated to product safety. As a role model in the department store business, SOGO is spearheading a reformation of the industry and at the same time helping the country and the rest of the world by being a sustainable corporation.

B. Efforts in Promoting Sustainable Development

SOGO takes pride in its 145 thoughtful services and makes use of the latest technology to keep its marketing and sales services always updated so that it may attain

“best service” ratings. It is also actively reducing waste in its daily operations and employs a sustainable business model to ensure sustainable development. Since 2015, the first year of SOGO's CSR campaign, the company has been rigorously incorporating CSR principles in its operational strategies. By developing innovative services and focusing on product safety, supplier management, environmental protection and charity work, SOGO has emerged as a leader in the department store business. Not only is the company paving the way for industrial upgrading and globalization, its overall CSR achievements are also recognized by prestigious awards in Taiwan and abroad.

To ensure its status as a “customer trusted” department store, SOGO requires its suppliers to sign a CSR pact and has for several consecutive years been carrying out a “food safety net” campaign. Customers have benefited, while consumer trust in the company has increased 11%.



Aiming to become a “green department store,” SOGO has been improving its energy efficiency, implementing eco-friendly concepts in its marketing activities, adopting the ISO 50001 energy management system, increasing its percentage of green procurement and educating shareholders about sustainability and the environment. The company also drafted a set of Product Category Rules (PCR) tailored to the department store and retail industries, and became the first department store to receive a carbon footprint label from the EPA.

In terms of social involvement, SOGO takes advantage of its function as a platform to connect various stakeholders, including customers, suppliers, employees and charity groups. It invented a community outreach program named “SOGO NEW LIFE,” which has four main themes—“Caring and Sharing,” “Sustainable Home,” “Quality Living” and “Culture and Innovation.” Internally, SOGO employees enjoy benefits and rewards, professional training and a healthy and safe working environment. Externally, the company places special emphasis on social engagement, especially pertaining to young children, and for 25 years SOGO has been organizing events to support young disadvantaged children.

Out of concern for the increasing polarization of society, in 2011 the company began hosting the annual “SO GOOD Model Children and Youths” Contest, which has produced 16 President's Education Award winners in 6 years.

C. Vision for Future Development

In the future, SOGO will continue to care about environmental, economic and social issues. The company will designate 10 of the UN's 17 SDGs (numbers 2, 4, 5, 8, 10, 11, 12, 13, 16 and 17) as its long-term objectives, and be a socially responsible corporation focusing on six areas crucial to sustainability: an innovative business model, superior products, thoughtful services, talent cultivation, leveraging the SOGO platform for charity and sustainable technology.

Fig. 31 SOGO's Low-Carbon Market and Moonlight Picnic events use the department store platform to connect rural agricultural businesses and customers



(3) Rohm and Haas Electronic Materials Asia-Pacific Co., Ltd.

A. Introduction

Rohm and Haas Electronic Materials Asia-Pacific Co., Ltd. (Rohm and Haas for short) is a subsidiary of Dow Chemical. Located in the Electronic Materials Technology Center in Zhunan, Taiwan, the company boasts an advanced chemical mechanical planarization (CMP) lab and is a global leader in CMP technology for semiconductor manufacturing.

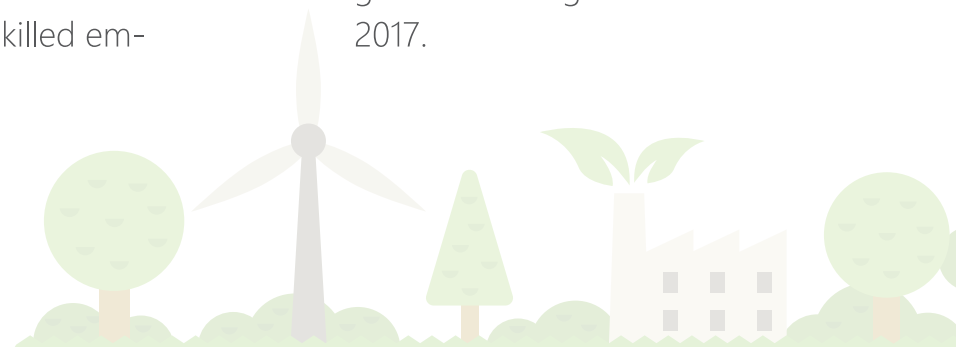
Rohm and Haas believes that in addition to creating economic prosperity and social value, the company should also contribute to the environment and future generations. While pursuing corporate growth and better customer service, the company shall fulfill its corporate social responsibility and strive to be honest, people-oriented and environmentally friendly.

The company's CSR values are centered upon working for sustainable development that benefits the environment, social harmony that benefits society and an excellent corporate culture that benefits the company's skilled employees.

B. Efforts in Promoting Sustainable Development

Rohm and Haas has achieved notable success with environmental and resource conservation as well as its occupational safety and sanitation system. Rohm and Haas's manufacturing plant, which had already incorporated green architectural design during its planning stage, became the first company in the Hsinchu Science Park to receive a green building certificate when it began construction in December 2006, and this certification was subsequently upgraded to "Diamond Grade."

After construction was completed, the plant actively sought ISO 9001 quality management certification and ISO 14001 environmental management certification, both of which are re-evaluated every three years to ensure the effectiveness of the management systems. In accordance with the sustainable development plan proposed by Dow Chemical's corporate headquarters, Rohm and Haas obtained ISO 50001 energy management certification in 2016 and ISO 14064-1 certification for greenhouse gas inventories in 2017.



Internally, Rohm and Haas introduced the “Six Sigma” theory to the company in 2010 to encourage sustainable management, and through process improvement competitions held every six months, the company had revamped 661 processes by the end of 2016.

of more than 1,500 cleaning hours, and observing International Earth Day by organizing an educational tour of an intertidal mangrove habitat and wetland conservation activities for schoolchildren, teaching them to care for nature and the environment from an early age.

Fig. 32 Rohm and Haas receiving the 2016 Taiwan National Occupational Safety and Health Award from the Ministry of Labor



In addition, Rohm and Haas has promoted the mutual sustainable growth of both the company and the communities around it via CSR initiatives. These include donating popular science books to rural elementary schools and volunteering to encourage schoolchildren to read more, as well as frequently partnering with the Taiwan Fund for Children and Families to support disadvantaged children, assisting child abuse cases with therapy and counseling and providing services and information to families and parents. The company's environmental efforts include hosting an International Beach Cleaning Day event, to which employees and their families contributed a combined total

C. Vision for Future Development

Rohm and Haas aspires to become a leader and advocate in the field of sustainability. It is currently, for the second time, formulating its sustainable development goals for the next ten years, which covers three main areas: environmental protection, CSR and economic development. The company hopes to develop groundbreaking and innovative solutions that can facilitate more effective energy use, cause less harm to the environment, enhance product safety and produce sustainable chemical products for profit, namely to solve the world's problems while at the same time creating a better life for employees, clients, consumers, shareholders and members of the community.

Fig. 33 Rohm and Haas with the Taiwan Fund for Children and Families at the annual Christmas party for formerly abused children



3. NGOs

(1) World Vision Taiwan

A. Introduction

World Vision Taiwan (World Vision for short) has been serving Taiwan for 53 years. Its main missions include poverty assistance, disaster prevention and humanitarian aid, and community development. Throughout the years, the organization has cared for Taiwan's poor and disadvantaged, from rural mountainous villages, offshore islands and coastal areas to metropolitan areas afflicted with contemporary social problems. It has inspired many people in Taiwan to care about impoverished children around the world or become involved in humanitarian work.

During this time, the organization not only helped over 48,000 destitute children in Taiwan, but also delivered donations from Taiwan to more than 200,000 children and their families and communities in over 70 foreign countries. World Vision is selected for the award this year for the organization's fruitful rehabilitation work in Rinari Village in Pingtung County's Sandimen Township, an area hit hard by Typhoon Morakot.

B. Efforts in Promoting Sustainable Development

World Vision is actively involved in sustainable community development. From its decades-long participation in post-natural disaster community rebuilding, including the devastating 921 earthquake, the organization learned that although providing rapid post-disaster aid is necessary, it is also important to empower communities with the ability and resilience to reestablish themselves through community empowerment work.

From its experience of relocating and reconstructing a village affected by Typhoon Aere, the organization also learned to use community work processes to encourage thorough communication between the villagers and the government while respecting and preserving the community's culture and vision for development. In the wake of Typhoon Morakot, World Vision launched a disaster relief mission providing supplies and temporary housing assistance to the affected areas, focusing especially on ensuring the local children's fundamental rights to survival, education and play. It also helped the locals with rebuilding



With years of previous experience serving aboriginal communities, World Vision possesses a deep understanding of the villagers' living environment, culture and needs. It observed that the post-disaster rehabilitation policies devised by the authorities at the time failed to consider the villagers' strong communal culture of sharing meals and resources, which could result in the fracturing and disappearance of the tribe's culture. In light of this, the organization assumed the role of mediator between the villagers and the government, and successfully helped the government make permanent housing assignments based on a collective relocation policy, so that the entire community could be resettled together in Rinari Village, thus avoiding splitting up the village or families in the relocation process.

In addition to village reconstruction work, World Vision was also actively involved in helping the newly resettled Rinari Village develop local industries that could provide sustainable sources of income for the villagers, and empowering the village development association to become a central facilitator of village construction and industrial growth. Today Rinari Village boasts a growing industry offering tourists homestay experiences and guided tours of the area.

C. Vision for Future Development

World Vision wants every child to be able to enjoy a basic standard of living that allows for healthy development and an enriched life. In the future the organization will continue to strengthen its ministry, dedicate resources to training social workers and cultivating professional skills for community development, and establish a service method that is both professional and deeply humanistic. Combining the power of advocacy and World Vision's religious and core values, the organization will develop community transformation plans that are uniquely Taiwanese, establish an assessment index for the results of its child welfare work and build relationships with the government and other organizations.

Fig. 34 Rinari Village—Rebuilding homes while upholding the spirit of humanism and the local culture and religion



Furthermore, in addition to upgrading its expertise in emergency aid and post-disaster rehabilitation domestically and abroad, the organization will also help local communities build up their own capabilities for disaster prevention, disaster evaluation and post-disaster rehabilitation.

(2) Yunlin Aquaculture Development Association

A. Introduction

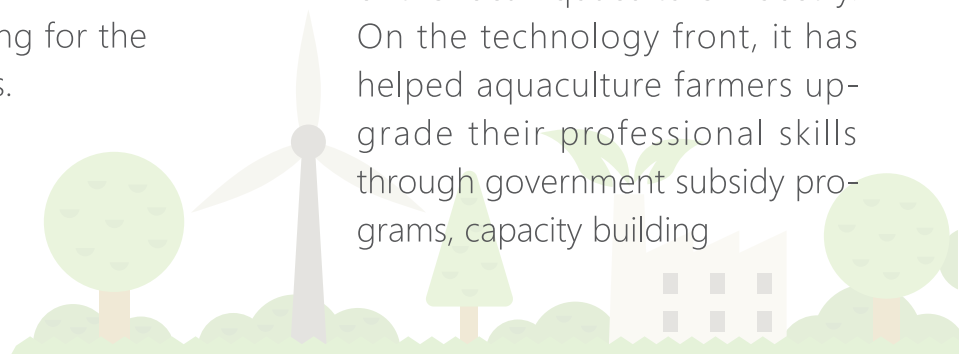
The Yunlin County Aquaculture Development Association (Yunlin Aquaculture Association for short) is founded upon the Yunlin County Xialun Aquaculture Production Zone's seawater supply system, built with funding from the Council of Agriculture's Fisheries Agency, and serves as a platform consolidating resources related to the local aquaculture industry.

In addition to its main job of managing the seawater supply system, the association has since 2011 been helping to make Yunlin County's aquaculture industry more competitive through assisting the local government with promoting subsidies for fish farming equipment and indoor fisheries, and capacity building for the industry and its products.

B. Efforts in Promoting Sustainable Development

As manager of the Xialun seawater supply system, the Yunlin Aquaculture Association is a self-sufficient operation. It charges users in return for providing a steady supply of high-quality seawater, and helps fish farmers develop fish fry breeding techniques and raise high-quality saltwater fish fry, shrimp fry and clam seeds to improve the local aquaculture output. The system currently supplies water to 220 fish ponds, which cover a total area of about 140 hectares.

In terms of sustainability, due to the stable production of fish, shrimp and clams from these seawater ponds, there is now less overfishing from the ocean and decreased dependency on marine resources. Environmentally speaking, seawater aquaculture operations have also reduced the need for pumping groundwater, thus mitigating the risk of land subsidence. The Yunlin Aquaculture Association has promoted capacity building on various levels to support the sustainable development of the local aquaculture industry. On the technology front, it has helped aquaculture farmers upgrade their professional skills through government subsidy programs, capacity building



courses, operations and management training for aquaculture farmers and development of crucial technologies for the preservation and processing of seafood. The association has also been advising its members on getting Traceability Agricultural Product (TAP) certification and traceability QR codes for their products, and encouraging them to extend the selling period of aquaculture products to avoid supply-demand imbalances caused by fluctuations in market demand and product availability.

On the marketing side, the Yunlin Aquaculture Association has been providing guidance to its members on building up their brand through organizing aquaculture production-marketing teams, and hosting experience sharing and demonstration workshops and promotional events for aquaculture products. With the help of the association plus government subsidization, local aquaculture operations that were otherwise capital-deficient have been able to upvalue their products and even build their own brands.

When paired with home delivery services and online marketing campaigns, this has allowed the farmers to expand their businesses and increase their income, which in turn create more jobs in the local aquaculture industry. The Yunlin aquaculture industry's success story has put it on the world map and led to exchanges with other countries, and was included in the syllabus of the government-sponsored "2017 Ni-Hao Taiwan Study Camp for Future Leaders: Asia Pacific."

C. Vision for Future Development

In the future, the Yunlin Aquaculture Association will continue with its efforts in promoting eco-friendly and diversified aquaculture to ensure the sustainability of land and marine resources. The association will also strive to help more self-made brands increase the value of local aquaculture products, create more job opportunities and improve the local economy, for only then would the community see less outward migration and attract talented young blood, and ensure that the industry and its collective experience and knowledge be passed on to future generations.



The association's long-term plan is to help transform these fish farming villages into worthy tourist destinations that can offer unique local experiences and leisure activities, which would diversify and make the industry more sustainable.

Fig. 35 Promoting self-made brands to upvalue local aquaculture products and improve the Yunlin's economy



4. Government Agencies

(1) Construction and Planning Agency, Ministry of the Interior—One-Stop Service for Requests Regarding Environmentally Sensitive Areas

A. Introduction

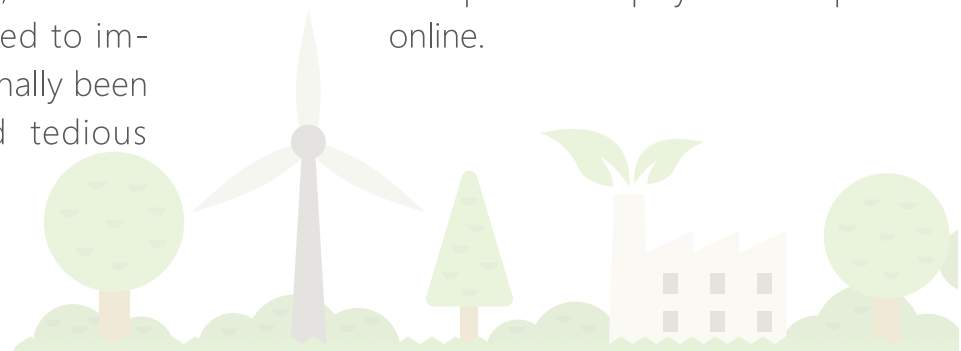
In 2013, the Construction and Planning Agency, Ministry of the Interior (CPAMI) initiated the project to create a one-stop service for inquiries regarding environmentally sensitive areas, an innovative platform intended to improve what had traditionally been a time-consuming and tedious process.

The revamp required consolidating 52 categories of environmental sensitivity mapping resources and persuading at least 28 different agencies to agree to participate and reach a consensus before the “One-Stop Platform for Requests Regarding Environmentally Sensitive Areas” (One-Stop Platform for short) could officially be launched in January 2016. The platform also includes a user survey, and all feedback from users is taken into a rolling review process and used to make adjustments to the platform to improve its service and performance.

B. Efforts in Promoting Sustainable Development

- i. Increasing convenience by simplifying a public service and going paperless

The One-Stop Platform allows the user to fill out and submit a request online, which the user needs to do just once within the system to reach all the relevant agencies. The search function allows the user to track the progress of his or her inquiry at all times, making it more efficient, and payment is made more convenient as the user can print the payment slip online.



- ii. The platform makes practical use of national land information and provides references for decision making

In accordance with the National Development Council's long-term policy regarding national land information, the CPAMI digitized data on environmentally sensitive areas and put the result to practical use. The agency's One-Stop Platform has collected digital mapping resources from various government agencies and organized them into a database, which can serve as the foundation for future projects related to environmentally sensitive areas. The One-Stop Platform's database and mapping resources search function can also provide other government agencies with a fast and convenient way to obtain useful information, which they can effectively use in their day-to-day work, developing new projects or making important decisions.

Fig. 36 “One-Stop Platform for Requests Regarding Environmentally Sensitive Areas” Website



C. Vision for Future Development

The CPAMI will continue to actively promote the One-Stop Platform for Requests Regarding Environmentally Sensitive Areas, as it significantly saves time for those requesting data and administrative costs for all government agencies involved. The CPAMI will also consolidate all its mapping resources for environmentally sensitive areas and establish a standardized process for conducting searches, make documents in the search system entirely (or at least partially) available electronically, and enhance the one-stop system's database and mapping platform functions.



The aim is to provide users with a fast and convenient way to request data, and to enable government agencies to quickly obtain useful information, which they can effectively use in their day-to-day work, developing new projects or making important decisions that will support the sustainable development of the nation's land.

(2) Forestry Bureau, Council of Agriculture, Executive Yuan — “Agro-Ecosystem Conservation and Green Conservation Label” Project

A. Introduction

Due to the widespread use of conventional farming methods and common practice of using arable land for non-agricultural activities, many animals and plants in agricultural ecosystems in the plains and low hills have been gradually losing their habitats. After an incident in late 2009 where a large number of pheasant-tailed jacanas in Guantian, Tainan perished from accidentally ingesting pesticide-laced rice, the Forestry Bureau, Council of Agriculture (Forestry Bureau for short) developed an action plan that would promote agricultural production without harming the ecosystem.

Through this “Agro-Ecosystem Conservation and Green Conservation Label” campaign, farmers are advised on eco-friendly agricultural practices that avoid the use of pesticides and chemical fertilizers, and a specially designed “Green Conservation Label” provides consumers with a way to identify and purchase eco-friendly agricultural products.

B. Efforts in Promoting Sustainable Development

- i. Increased farmland biodiversity and expanded habitable area for wildlife

Following the rules of the Forestry Bureau's “Agro-Ecosystem Conservation and Green Conservation Label” system, a farm is checked for pesticide, herbicide and chemical fertilizer use, its products proven free of any residue, and the farm's ecosystem inspected to verify whether it allows a diverse range of wildlife to feed, reproduce and raise their young, before it is granted the Green Conservation Label.



As of December 2017, a total of 241 farms across Taiwan had been certified with the Green Conservation Label, which add up to 395 hectares of farmland conserving 39 species and creating 46 habitats (including wet, dry and diversified habitats). As they came to understand how wildlife and agricultural production can co-exist and flourish together, more and more farmers became willing to participate in the campaign and make it their mission to conserve the environment and its biodiversity.

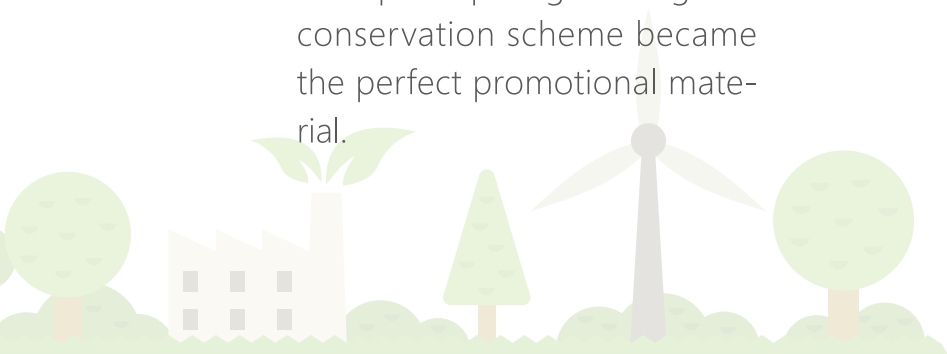
- ii. Raised awareness of ecological conservation among farmers and consumers

To raise awareness of ecological conservation, the Forestry Bureau held info sessions to teach farmers how to apply for the Green Conservation Label, offer assistance to struggling farmers and explain how farm inspections are done. Documentation of the farmers' transition from conventional to eco-friendly farming methods and the actual harvests and intangible value that they gained from participating in the green conservation scheme became the perfect promotional material.

For the general public, the bureau organized lectures on topics including green conservation and farm-to-table education as well as farm visits, emphasizing the correlation between supporting products with the Green Conservation Label and helping the environment.

- iii. Established a variety of channels for exchanges and communication between farmers and consumers

The Forestry Bureau cares deeply about communication between farmers and their customers. It introduced a verification mechanism for the Green Conservation Label called the Participatory Guarantee System (PGS), and based on feedback from the first group of farmers subjected to this verification process, the PGS has proven to be an effective form of public participation that brings together farmers, consumers, verifiers and other people who are simply interested. It helps promote data transparency, create more opportunities for exchange and lets consumers learn more about connections between the land, the produce and the wildlife and obtain actual knowledge on food and farming.



To promote the sale of Green Conservation Label products, the Forestry Bureau matched products with both physical and online stores, and even set up themed stalls to showcase Green Conservation Label products that are too low in number to be carried by major sales channels but nonetheless deserved to be noticed by consumers. The first “Green Conservation Label Farmer's Market” was thus born. All these measures have encouraged a smooth flow of communication between farmers and consumers, and strengthened both sides' belief in the Green Conservation Label and the environmentally conscious concepts that it represents.

Consumers' choices can indeed persuade more farmers to adopt eco-friendly farming practices and create more ecological benefits.

C. Vision for Future Development

The Green Conservation Label is the first eco-friendly branding scheme in Taiwan that directly connects protected wildlife species and agricultural products.

In line with the Ministry of Agriculture's eco-friendly farming policy, the Forestry Bureau will continue to promote this campaign in order to conserve wildlife habitats, maintain a well-functioning agricultural eco-service system, and reinforce the link between agriculture and biodiversity. Most importantly, the bureau aspires after the Satoyama Initiative's vision of “societies in harmony with nature” and will keep striving for the mutual well-being of the agriculture industry and the ecosystem as well as sustainable biodiversity.

Furthermore, the bureau will focus more on raising public awareness so that more people may learn about the core value of Green Conservation Label products, be encouraged to personally experience agricultural production's intimate relationship with the ecosystem and wildlife, and realize that making the right product choices does support eco-friendly farmers and is a participatory form of environmental conservation that benefits not only nature, but agricultural producers and consumers as well.



Fig. 37 Green Conservation Label and “Footprints in the Field” Market Event



(3) Health Promotion Administration, Ministry of Health and Welfare— “Accreditation of Age-Friendly Healthcare Services” Project

A. Introduction

Taiwan is moving rapidly toward an aging society. This fact no longer concerns just the elderly, but is something that requires support from all members of society. As it is the government's most urgent responsibility to design a system that can provide customer-centered elderly care, the Health Promotion Administration (HPA) began promoting the accreditation of age-friendly healthcare institutions.

To do so, the HPA systematically introduced the following five major categories of standards for elderly care institutions to follow—Management Policy, Informative Intervention and Communication, Age-friendly Environment, Health Promotion and communities Service and Referral—and compiled service records periodically and reaccredited participating institutions every four years to ensure their service quality.

Guided by this accreditation scheme, geriatric care institutions can develop sustainably and increase society's overall capacity to provide the elderly with care and support aging without relocating.

B. Efforts in Promoting Sustainable Development

The HPA implemented the Accreditation of Age-Friendly Healthcare Institutions Project via a three-stage process.

The first stage was framework construction. The HPA invited various scholars and experts of elderly care-related policies, practices and environments to form an accreditation committee. Through mission-oriented meetings, the committee members reached a consensus for establishing a basis for accreditation in Taiwan based on international standards, which they then used to develop varying accreditation guidelines according to different care service providers' specialties.

The second stage was the implementation of the accreditation system. While only hospitals participated initially, by November 2017 as many as 386 institutions had been successfully accredited, including 170 hospitals, 150 public health centers, 65 long-term care facilities and one clinic. Public health centers play an especially important role in this project, for in order to receive accreditation, they must include community outreach and patient referral in their services, ensuring that elderly care services are extended deep into each local community.

On the hospital side, the HPA consolidated the accreditation guidelines for health promoting hospitals, age-friendly healthcare institutions and tobacco-free hospitals, and added content on energy conservation and carbon reduction to create the Healthy Hospital Accreditation program, which the HPA began promoting in all hospitals from 2017.

The third stage involved the implementation of services. In this stage, the HPA used subsidy programs to introduce accreditation standards into the following service categories: "Management Policies" involves providing top-down support such as manpower and other resources according to an area's demographics, culture and health-related characteristics, and establishing plans for evaluation and continued monitoring; "Informative Intervention and Communication" standards require care providers to reinforce age-friendly training, encourage information sharing and communication, and respect their clients' right and ability to make their own decisions on care-related matters ; "Age-Friendly Environment"

standards promote environments that are accessible, all-purpose and elderly-friendly, as well as energy-conserving and sustainable, to minimize any environmental factors that may be damaging to the human body ; "Health Promotion " standards stipulate how elderly patients with different health conditions or needs can best be evaluated and managed, and ensure that these records are entered into their medical history or care record; lastly, "Community Service and Referral" standards cover matters relating to the assessment and consolidation of local resources, referrals of patients who are no longer suitable for at-home care to better alternatives, rolling evaluations of the effectiveness of each spent resource and active recruitment of service volunteers.



C. Vision for Future Development

The HPA's Age-Friendly Healthcare Institution Accreditation program is now in its eighth year. It combines several of the government's policies designed to promote health and respond to society's aging trend and declining birth rate. Hospitals, public health centers and long-term care institutions have all joined this network to support the aging population. The HPA hopes that elderly care providers will continue to improve and implement their age-friendly evaluation and intervention services and push for an overall organizational change across Taiwan, and in doing so lay down the foundation for elderly care in Taiwan and prepare the country for an aged society. Together with multidisciplinary medical teams, the HPA's system can offer the most comprehensive range of services, including health promotion, disease and condition management, so that senior citizens can stay healthy and age with dignity.

Fig. 38 New and diverse forms of community elderly care services are designed according to senior citizens' needs

