

# Project Document



Empowered lives.  
Resilient nations.

**Project Name:** United Nations Sustainable Development and Eco-friendly Health and Well-being Town Demonstration Project    **Project No.:** 000103082

**Implementation Organization:** China International Centre for Economic and Technological Exchanges (CICETE)

**Project Starting Time:** December 2018    **Project Ending Time:** December 2022

**PAC Meeting Time:** December 2018

## Brief Description

It was pointed out in the 19th National Congress of the Communist Party of China that the principal contradiction facing the Chinese society has evolved to the contradiction between unbalanced and inadequate development and the people's ever-growing needs for a better life. As the income grows, people desire improvement in the style and quality of life. In September 2015, leaders from across the world agreed to the 17 Sustainable Development Goals (SDGs) that poverty reduction, health, education, and environmental protection. The SDGs, as a milestone, create a new vision for global development.

To put the guiding principles from the 19th National Congress and the SDGs into action, this project aims to implement the idea of an eco-friendly health and well-being town and to establish China's first community of this kind while not only integrating technological innovations (such as renewable energies or energy-efficient infrastructure) but also psycho-social innovations (such as inter-generation care and education). It seeks to promote the notion that the elderly are active participants in their own lives as well as continued contributors to the social and economic well-being of their societies. The pilot project, as a technological demonstration, aims to develop the eco-friendly health and well-being service models in the neighbouring areas of China's big cities, develop a replicable model for intensive smart communities, formulate the standards of a sustainable community in line with the SDGs, and realize the sustainable development of both urban and rural communities. To achieve the above outcomes, the following measures will be taken:

- (1) Make the development plan for the Lotus Mountain Eco-friendly health and Well-being Town;
- (2) Establish the technological demonstration of green architecture and green energy use and formulate the relevant standards;
- (3) Develop training modules and improve the capacity building of eco-friendly health and well-being services;
- (4) Conduct research into the operation mechanism of eco-friendly health and well-being;
- (5) Develop an eco-friendly health and well-being communication platform for Northeast Asia.

### Expected Outcomes (UNDAF/CPD, RPD or GPD):

Outcome 1: Residents will enjoy better living conditions and more economic, social and cultural development opportunities.  
 Outcome 1.1: The income of the vulnerable will be increased and come from diversified sources.  
 Outcome 2: Residents will enjoy a cleaner, healthier and safer environment through environment improvement and sustainable green development.  
 Outcome 2.1: The government's capacity of implementing environmental sustainable development strategies will be enhanced.  
 Outcome 3: China will play a more effective role in international cooperation.  
 Outcome 3.1: Effectiveness will be improved in the development

Total budget: 3,000,000 US dollars

Government Cost Sharing (Cost shared by Changchun Zhongfu Group Industrial Co. Ltd., channeled through the government): 3,000,000 US dollars

### Agreed by (signatures):

<p>United Nations Development Programme China Office <i>[Signature]</i> Name: A. VERES Date: 10/12/2018</p>	<p>China International Centre for Economic and Technological Exchanges of Ministry of Commerce <i>[Signature]</i> Name: Date: 10/12-2018</p>	<p>People's Government of Changchun <i>[Signature]</i> Name: Date: 2019.1.12.</p>	<p>Changchun Zhongfu Group Industrial Co. Ltd. <i>[Signature]</i> Name: Date: 18.12.18</p>
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## I. Development Challenges

Over more than 40 years since the Reform and Opening up, China has witnessed rapid social and economic development as well as the significant improvement of people's standard of living. Problems, however, still exist. The worsening air pollution, greenhouse gas issue and especially the ageing of the population, together with the public's increased concern about health, make healthy lifestyles and the elderly care a hot topic.

### 1. The population ageing is worsening, while the elderly care facilities and services are still incomplete.

Population ageing, and urbanization are two major global trends. As cities grow, the proportion of the population over 60 years old is constantly increasing. It is estimated that by 2050, the elderly over 60 will account for one-fifth of the world's population. Statistics also indicate that developed countries such as Japan, Germany, the U.S., France and the UK have already become aged societies. At the end of 2016, there were 230.86 million elderly people aged 60 and above in China, accounting for 16.7% of the total population, of which 150.3 million were 65 years old and above, accounting for 10.8% of the total population. According to the UN standards, China has entered the phase of an aged society. The problem of aging is more prominent in Jilin province, one of China's old industrial bases.

China's insufficient economic development, rapid ageing of population, and the inadequate insurance and management system paint a sobering picture for this country's elderly care. The percentage of traditional three-generation households has gradually decreased, while that of the "four-two-one"<sup>1</sup> structured families has gradually increased; thus, it is more common for the old to live alone, leading to more frustration, loneliness, and the sense of being excluded. To solve the problem, it is needed not only more companion of children, relatives and friends, but also the mutual help of the elderly to ease the feelings of loneliness. The demand for elderly nursing is skyrocketing, as the population keeps ageing and the number of living-alone, disabled or more advanced-in-age seniors increases. Nonetheless, China is faced with many hindrances: severe shortage of nursing home beds, slow construction of the elderly care service system, and insufficient and poor-quality senior care services. In 2016, China had 7.302 million nursing home beds, and the number of beds for every 1,000 elderly people was 31.6. According to the *Several Opinions of the State Council on Accelerating the Development of the Modern Insurance Service Industry* in 2013, by 2020, the number of beds for every 1,000 elderly people should reach 35-45. This indicates that the supply of public service in senior care is seriously insufficient, which also means that China's elderly care industry has big room for development.

### 2. The urban population faces prominent sub-health problem, and people's lifestyle is to be changed.

According to a global survey conducted by the World Health Organization (WHO), only 5% of the global population is in full health, 20% is diagnosed with diseases, and 75% is in sub-health. Investigation suggests that 45%-70% of the Chinese population is sub-healthy mostly aged 35-60. Middle-aged intellectuals, white-collar workers, leaders, entrepreneurs, movie and TV stars who are mainly engaged in mental work have a high risk of sub-health. Adolescents, seniors, and special professionals are all likely to suffer from sub-health. *2010 White Paper on Chinese Urban-White Collar Workers' Health*, jointly released by the Chinese Medical

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<sup>1</sup> It refers to a family with 4 grandparents, 2 parents and one child.

Doctor Association, Chinese Hospital Association and other organizations, shows that 76% of China's white-collar workers are sub-healthy, almost 60% suffering from over-fatigue. The sub-health problem is such that it should not be ignored. Sub-health results from not only a person's dieting but also the urban lifestyle. Fierce competition in work, increasing costs of living, fast pace of work and other pressures leads to physical and psychological fatigue.

**3. Environmental problems have direct impacts on people's health.** The world is beset with environmental problems, and the problems are particularly urgent in the countries in the process of industrialization, urbanization, and modernization. As "smog", "(PM 2.5, etc.) off the charts", and "extremum" have become buzzwords in the news coverage on pollution, serious pollution is threatening the public's health and even survival. The major solutions are industrial restructuring and energy revolution. It is also important to the conservation and balance of the ecological environment to adjust the traditional industrial structure of high consumption, high pollution and low efficiency, to better exploit and utilize renewables, and develop public transportation and green architecture in urban areas.

Lotus Mountain Eco-Tourism Resort (hereinafter referred to as Lotus Mountain Resort) is located in Changchun city, Jilin province. The hottest month in the resort has an average temperature of 23 °C, and the temperature-humidity index from May to October is between 16.1-25.0, ensuring a cool and pleasant weather. The air is good or excellent for 350 days, accounting for more than 95% of a year, suitable for developing summer time tourism. In the south of the resort lies the Lotus Lake which covers 40 square km, and in the south is the Clear Moon Lake National Forest Park. Lotus Mountain Resort boasts rich underground hot spring resources, and 8 springs have been found here. From a geological point of view, the resort, as the hinterland of Changchun-Jilin-Yanbian Pilot Development Zone, sits between Changchun city and Jilin city, two biggest cities of Jilin province. This beautiful area is also in the geometric centre of Northeast Asia, 5 km north from Changchun Longjia International Airport, which serves as a major airport in China and has launched over 30 domestic and international flights. The transportation will be greatly improved during the 13<sup>th</sup> Five-Year Plan period. Given the excellent ecological environment and being readily available to consumers, Lotus Mountain Resort has the foundation to be developed into an eco-friendly health and well-being town.

## II. Project Strategies

It was stated in the 19th National Congress of the Communist Party of China that China has entered a "new era" in which people in both the rural and urban areas have a demand for high-quality development and life. This is also an era when the principal contradiction facing the Chinese society has evolved to the "contradiction between unbalanced and inadequate development and the people's ever-growing needs for a better life". In face of the urban diseases troubling an increasing number of residents, people are desperate for a change to their lifestyle and an improvement in life quality as their income is going up. Sustainable eco-friendly health and well-being communities are what people need. In August 2016, President Xi Jinping emphasized at the National Health and Hygiene Conference that people's health should be one of our top priorities and we should popularize healthy lifestyles, improve healthcare service and health insurance, develop a healthy environment

and health service sector, all to build a healthy China. In October 2016, the Central Committee of the Communist Party of China and the State Council issued *An Outline of the Country's 2030 Health Plan*, of which a chapter discusses the new development of healthcare services. What's more, President Xi mentioned in his report at the 19th CPC National Congress that we should ensure the delivery of comprehensive lifecycle health services for our people. In 2016, ministries of the central government including the National Development and Reform Commission released *Opinions on Accelerating the Construction of Chinese Characteristic Towns*, encouraging the cooperation between businesses and local governments for establishing Chinese characteristic towns. Eco-friendly health and well-being towns are an important part of it.

Jointly initiated by the Chinese government and UNDP, this project aims to facilitate sustainable development in urban areas and help build a moderately prosperous society. The project will establish an eco-friendly health and well-being town in Lotus Mountain, Changchun, an easily accessible region with great ecological conditions, serving as a demonstration for other similar projects in China. The strategies of the project will focus on:

- (1) Developing the development plan for Lotus Mountain Eco-friendly health and Well-being Town;
- (2) Establishing the technological demonstration of green architecture and green energy use, formulating the standards;
- (3) Writing textbooks on technology training and improve the capacity building of eco-friendly health and well-being;
- (4) Conducting research into the operation mechanism of eco-friendly health and well-being;
- (5) Developing an eco-friendly health and well-being communication platform for Northeast Asia;
- (6) Raising public awareness.

The implementation of the project is based on two realities:

- (1) The eco-friendly health and well-being project can meet the demand for the supply-side revolution which leads to a huge potential market;
- (2) The SDGs and other ideas of ecological development are needed to guide the current unhealthy development of healthcare projects.

### **III. Results and Partnerships**

#### **1. Expected Results**

The project is expected to produce five outputs:

##### **Expected Outcome 1: Methods to optimize the sustainable use of space**

Outcome 1 includes the building of inclusive, safe, resilient and sustainable cities that are suitable for human living to advance SDG#11 Sustainable cities and communities, the development scientific urban planning

methods and sustainable land use planning models through participatory and bottom-up decision-making process for urban planning.

**Output 1: Developed research reports and planning documents of the Lotus Mountain Eco-friendly health and Well-being Town**

Comprehensive research is to be conducted on optimising the layout of the project site which covers 2 square kilometres, based on the planned functions of the Lotus Mountain area and the existing planning for the detailed use of natural resources. The plan will ensure optimal eco-friendly waste management and recycling, healthcare function, and community and healthcare facilities.

**Activity 1: To improve the planning of the Lotus Mountain Eco-friendly health and Well-being Town**

**1.1 To conduct ecological development planning to guide and assess the planning, ensuring it conforms with the sustainable development concepts of the UN**

To invite using UNDP's strengths in its global network, international planning experts that are familiar with China to conduct joint investigation in the Lotus Mountain area and the project site with the PMO. The experts are required to draft proposals on the development plans of the Township that satisfies the needs of the targeted beneficiaries and local population. The plan will integrate technological and psycho-social innovation for physical and mental well-being. The planning will adopt participatory approach to include male and female residents of the Township and its surrounding areas in the planning and decision-making process, particularly the elderly population, people who may gain employment opportunities in the Town, children and youth, ethnic minorities etc, with a balanced gender proportion.

**1.2 To make the spatial planning for the 2-km<sup>2</sup> eco-friendly health and well-being town**

Based on the results of activity 1.1, detailed spatial planning for the 2-km<sup>2</sup> site will be made to specify the functions of different parts according to the residents' needs (both women and men), national policies on Healthy China, new urbanization and rural revitalization, policies supporting urban-rural integrated development and industrial integrated development, while making an effort to preserve the local cultures, art forms, traditions, sports etc. During the process, seminars will be organized to ensure the feasibility of the planning, ensuring balanced representation of opinions from peer experts, local elderly population, people who may gain employment opportunities in the Town, children and youth, ethnic minorities etc, with a balanced proportion between the genders.

**1.3 To conduct research on green architecture planning of the restoration and rebuilding of the two village communities within the project site**

To determine the methodologies to restore and rebuild the two village communities within the project site, to manage the energy consumption for six months of the winter half-year while conformed to international standards for safe, healthy, eco-friendly and energy efficient architecture. The team leader of this research shall participate in the investigation work for Activity 1.1 and 1.2 to ensure implementation coherence and that all matters are well communicated between the teams. Discussions will be held with residents from the Spring Source Town and other villages in the project site, so as to ensure that the restoration and rebuilding

reflect local cultures and benefit local residents. The project needs to be inclusive and maintain the unique local culture.

#### **1.4 To integrate technological and psycho-social innovation into the development plan for the well-being of the residents, using a participatory approach**

Featured elements of the innovation will include but may not be limited to 1) intergenerational living arrangements through combining nursing homes and pre-schools that could help the elderly to fight off loneliness and the kids to get comfortable around people of other generations; 2) establishing a college for the elderly population to achieve lifelong learning; 3) occupational training centres that increase the employment capacity for the resettled population. The planning will adopt an inclusive and participatory approach in the decision-making process.

#### **Expected Outcome 2: A new model for sustainable development of the eco-friendly health and well-being service sector**

According to SDG # 8 (Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all), a development model will be developed to benefit the livelihoods of locals.

#### **Output 2: Drafted and implemented sustainable development planning of service sector in the site and local policies to promote the development of the eco-friendly health and well-being service sector**

Featured services are the key to characteristic towns. Based on the research on domestic and foreign cases of eco-friendly health and well-being towns, industrial development plans will feature the “Guan Dong Culture”<sup>2</sup> and local characteristics and propose policy advice for the governments of Lotus Mountain area and Changchun city.

#### **Activity 2: To establish an exemplar of sustainable industrial development: locality and participation**

##### **2.1 To invite industrial development experts and local residents to determine the industrial composition of the Town, ensuring a participatory and inclusive approach during the project implementation process.**

To invite domestic and international experts, existing and potential residents, and local residents to analyse the services the project site is planning to develop and, through focus groups and workshops, draw on collective wisdom of the specialists and local residents to determine the services to be developed and the development paths. Potential featured services include not only elderly care centre, pre-schools or even schools, but also ecological agriculture, rural complexes, family farms, traditional sports, folk art and entertainment as well as cultural exchange across Northeast Asia etc.

##### **2.2 To establish and demonstrate a sustainable industrial development model in the 2-km<sup>2</sup> project site concerning the output of Activity 2.1 in close consultation with the local and municipal government**

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<sup>2</sup> “Guan Dong” refers to the area located to the north and east of the Shanhaiguan Fort, which is the starting point of the Great Wall)

**meanwhile ensuring indigenous participation.**

Based on the results of activity 2.1, a team of Chinese industrial development planning experts will be formed and designated for the delivery of this activity.

**2.3 To formulate policies that support sustainable tourism development to create job opportunities and improve the products and branding of the local culture**

Based on the results of activities 2.1 and 2.2, the government of the Lotus Mountain area will lead research into how to promote local eco-tourism and branding. This activity includes visits to partner cities and projects from home and abroad and themed discussions.

**Expected Outcome 3: An innovative green and energy efficient model of community construction and management**

An innovative management model for energy and resource recycling to reduce emission through good planning, smart management, and adequate motivation, to advance SDG # 12 Ensure sustainable consumption and production patterns.

**Output 3: Green architecture standards and community conventions for the eco-friendly health and well-being centre**

Sustainable use of energy and resources is essential to sustainable development. The eco-friendly health and well-being centre will not only explore to formulate energy-efficient architecture standards and plantation plans that can adapt to the climate of the Northeast China but also establish community conventions for an ecologically sustainable lifestyle for the residents.

**Activity 3: To establish an exemplar of sustainable construction technologies that can adapt to Northeast China's climate**

**3.1 To carry out overseas visits to learn foreign experience, design, and architecture technologies of eco-friendly health and well-being communities**

This activity seeks to adopt advanced green and energy-saving ideas from home and abroad and organize government officials, business delegates, and experts to visit overseas projects of healthcare, eco-tourism, and ecological communities and learn inclusive, technologically and psycho-socially innovative designs and architecture technologies for eco-friendly health and well-being communities.

**3.2 To develop and pilot the community's technological plans of sustainable resource use including smart energy, sewage recycling and exploring to develop practical clean energy technologies that can be used widely (e.g. the application of hydrogen fuel cell technology in buses and ambulances)**

To carry out research on the energy use in a smart community and develop a resilient emergency energy plan that uses and recycles energy in various modes, based on the activity 3.1. To develop operative mechanisms of smart energy consumption, motivation for garbage classification, and sustainable use of energy. There will be seminars and forums through which ideas from other communities could be shared and communicated.

### **3.3 To formulate the construction standards of the project operation center based on the reality and demonstrating sustainable operation**

To formulate construction standards adapting to the climate of the Northeast China, based on the findings from Activity 3.1 and 3.2. The healthcare-oriented design of the project operation centre building will follow international green architecture standards (for instance, LEED) and reflect not only local climate and cultural characteristics but also ecological ideas of construction, serving as an exemplar for similar domestic projects.

### **3.4 To develop the purchasing list and utilization plans of key healthcare and medical devices for the project and to pilot the implementation**

To draft purchasing plans of key healthcare and medical devices in compliance with related standards and experience of the WHO, UNFPA and *An Outline of the Country's 2030 Health Plan*. The plans will be based on Activity 3.1, 3.2 and 3.3, and aim to promote healthy living, optimize health services, improve healthcare, build a healthy environment, and develop the health service sector.

### **Expected Outcome 4: Innovative demand-oriented and participative community management model**

To achieve SDG # 3 (Ensure healthy lives and promote well-being for all at all ages) and SDG # 4 (Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all), participatory approach will be adopted to developing a demand-oriented community management mechanism, including 1) training of community management, 2) college of continuing education for seniors and 3) training centre for health and well-being care workers to explore a community management model that advocates a healthy lifestyle.

### **Output 4: Developed planning and management standards for the sustainable eco-friendly health and well-being community**

To form a local eco-friendly health and well-being system conformed to the sustainable eco-friendly health and well-being community management standards that integrate education of knowledge on nature, experiencing of farm work, smart management, art appreciation, and mutual-support health and well-being.

### **Activity 4: To develop and implement the standards and operation mechanism of the sustainable health and well-being project**

#### **4.1 To draft and implement the operation plans of the Lotus Mountain Eco-friendly health and Well-being Town and piloting the operation model to explore new ideas and new methods**

Centring around the eco-friendly health and well-being service sector and following the sustainable ideas of the UN, the operation plans for the characteristic town will be drafted, and include the following aspects:

- 1) the defining, acquisition, training, appraisal and retraining of the human resources, of which predominantly are resettled inhabitants i.e. occupational training for business, technical, eco-tourism, health and well-being care work, trainers at the College for Seniors, teachers and carers at preschools etc;
- 2) standard operating procedures and quality assurance for health and well-being care services;
- 3) commercial and business standards;
- 4) art, entertainment and social services; and



5) a transparent and inclusive operations and service satisfaction feedback mechanism at individual, community and Township levels.

Internationally, this activity will draw on Japan and Thailand's experience and philosophy of product development and project management to improve the hot spring services to a higher quality; also, the project team will learn from Singapore for its experience in mutual-support community management to develop our own non-profitable community operation model. Besides, the project team will play the advantage of excellent ecological environment of the Lotus Mountain to attract subsidies or government special funds, investments from various types of health and well-being funds, such as the CCB Pension Management Co., LTD. It is also possible to invite the third party that is experienced in operating characteristic towns to participate in the operation and management to create a shared operation model.

#### **4.2 To develop an eco-friendly health and well-being training and certification mechanism in close liaison with relevant service companies and institutions across China**

An eco-friendly health and well-being training and certification mechanism in close liaison with relevant service companies and institutions across China will be developed and recognised by various health and well-being care centres across China or approved and endorsed by the Government of Jilin Province or nationally. The outcomes of the training will be used for the health and well-being professional training and capacity building of other personnel. With a mature training and certification system in shape, the project will send professional personnel to the health and well-being projects in other places. The training and certification mechanism will also be a key output for sharing best practices and success stories. Organizing vocational training for health and well-being service industry, initiating research into the policy framework, improving the country's current health and well-being system, and exploring to establish a private health and well-being vocational school. The activity will draw on relevant WHO standards, UNFPA's experience, national and international network of UNDP and CICETE to invite specialists from professional institutions and use the internet technology and big data to write training brochures and textbooks of eco-friendly health and well-being and to establish a private health and well-being vocational school.

#### **4.3 To enhance the capacity for senior management, operation and management staff, service staff, and locals**

To organize training on SDGs and SDG localisation for the PMO, the Management Committee of the Lotus Mountain Resort, management and operations staff of the eco-friendly health and well-being project, service staff, and local residents. The training and increased employment opportunities are expected to demonstrate gender balance in terms of the ratio of male and female beneficiaries that is supplement to the current gender issues in the local employment structure and address the social and economic recognition of unpaid work such as caring for the elderly.

#### **Expected Outcome 5: Cross-regional experience sharing of eco-friendly health and well-being.**

Established international partnerships and promoted global knowledge sharing on eco-friendly health and well-being, to advance SDG # 3 Good health and well-being and SDG # 17 Partnership for achieving the

Goals.

**Output 5: Cross-regional communication platform for eco-friendly health and well-being and a government-business-education cooperation model**

Side line forums or events held periodically on eco-friendly health and well-being during the China-Northeast Asia Expo, not only to share the success stories and experience in Lotus Mountain, but also to provide a platform for regional communications and exchange on how to cope with an ageing society with adequate psycho-social, economic and environment considerations.

**Activity 5: To establish the communication mechanism and platform of sustainable ecological knowledge and experience**

**5.1 To facilitate a communication platform for eco-friendly health and well-being across Northeast Asia, within the framework of the China-Northeast Asia Expo**

Within the framework of the China-Northeast Asia Expo, CICETE and UNDP will work with the local governments to facilitate a platform for eco-friendly health and well-being in Northeast Asia to promote experience sharing and cooperation. The training and certification mechanism of Output 4 will also be a highlight for sharing best practices and success stories during the event.

**5.2 To cooperate with domestic and foreign educational institutions including Norman Bethune University of Medical Science to pilot an online college of eco-friendly health and well-being**

To implement the idea of lifelong learning as promoted by the UN, we explore to establish an eco-friendly health and well-being college for seniors with the goal of “enjoying a happy and high-quality life”, aiming at retired professionals aged around 60. Interactive training programmes or textbooks for eco-friendly health and well-being services will be developed and a team of trainers from the retired professionals will be formed to provide remote education on the subjects.

**5.3 To promote eco-friendly health and well-being, to facilitate information exchanges and to push for replications of the eco-friendly health and well-being town model**

To promote the development and outcomes of the project through the media. On the website pages of the UNDP, CICETE, and the management committee of the Lotus Mountain Resort, a column showcasing project updates will be set up for communications and advocacy. After the project produces some outcomes in a phased manner, representatives from the UN, central, provincial, and local governments will be invited to visit the project site. Project effectiveness will also be evaluated.

**2. Resources Required to Achieve the Expected Results**

The implementation, management (including financial management), monitoring, and evaluation of the project will involve personnel from all partners: UNDP, CICETE, People’s Government of Changchun, Management Committee of Lotus Mountain Resort, and Zhongfu Group. Officials from the People’s Government of Changchun will participate in the work of the Project Steering Committee, including annual regular meetings, consultation meetings, and technical seminars where they will provide guidance on policies and technologies.

The Project Coordination and Management Office of the Management Committee of the Lotus Mountain Resort will be in charge of managing the project implementation, including the coordination and daily management. The Office will be led by the National Project Director, a position taken by a senior official designated by the Management Committee of the Lotus Mountain Resort

Under the Project Coordination and Management Office, there will be the Project Implementation Office. The Office is set in the Zhongfu Group, and its director will be one of the senior management designated by the Group.

### **3. Partnerships**

The project will follow the National Implementation Modality (NIM).

UNDP and China International Centre for Economic and Technical Exchange have more than 30 years of experience in cooperation in the field of sustainable development in China and have established a mature national execution modality and corresponding rules and regulations. This will provide an effective institutional guarantee for the smooth, effective implementation of the project, and will provide lessons for Changchun city in implementing international cooperation projects.

The project will involve close collaboration between multiple stakeholders, including municipal and local government departments, academic and research institutions (including universities and research institutes), non-governmental organizations, the private sector, communities and the general public. The project design also reflects the relevant UNDP policy on gender issues. In the project design phase, relationships between stakeholders have been discussed and analysed in depth, meetings have been held with municipal stakeholders, and extensive consultations have been conducted. The identified key stakeholders will be involved in the preparation and implementation of the project. Project design already includes mechanisms to support stakeholder engagement.

China National Committee on Aging, China Health and Well-being Association, United Nations Population Fund (UNFPA), UN Environment, United Nations Human Settlements Programme (UN-Habitat), World Health Organization (WHO), World Resources Institute, Singapore City Center, research institutes, universities, industry associations, and eco-friendly health and well-being enterprises along the supply chain and operating companies will all have the opportunities to participate in the demonstration project.

### **4. Stakeholders**

#### **(1) Target Groups**

The direct beneficiaries of the project are the Lotus Mountain Eco-Tourism Resort, Zhongfu Group, and residents of the Lotus Mountain Project Site. Before the official launch of the project, the management system and a project steering committee will be established, and the committee will provide guidance throughout the project. There will be quarterly coordination meetings involving the main stakeholders. In addition, these groups of people will participate in the demonstration, policy standards research, technical seminars, and promotion of the project. In addition, gender equity and equality will be mainstreamed in the planning.

implementation, monitoring and evaluation, reporting as well as the communications and advocacy of the project.

## (2) Other Potential Stakeholders

Due to the spill-over effect of the project, residents of the Lotus Mountain Resort outside the project site can be the potential beneficiaries. They will enjoy the improvement of their lives brought by new technologies.

Publicity methods including an information-sharing platform can have good effects on promoting the project.

## **5. Knowledge Sharing**

The knowledge and experience of the project will be shared with third world countries facing the same problems. The outcomes of the project will include eco-friendly health and well-being community standards, green project site planning guides, road maps, economic and technological research, demonstrations, and some publications. All of these will be promoted through project sharing networks and conferences. Existing and new publicity platforms of cooperation partners will also be used to communicate with the stakeholders, including 1) UNDP official website, 2) CICETE official website, 3) the website of the People's Government of Changchun, 4) the website of the Management Committee of Lotus Mountain Resort, 5) the website of Zhongfu Group, 6) briefings, special reports, Neican (internal reports), reports, bulletin and social media such as WeChat and Weibo.

## **6. Sustainability and Scaling up**

Research will be conducted on sustainable scaling up of the eco-friendly health and well-being community. Methods to replicate the project include economic reproducibility research, communication with potential cities, and replication model research. Those projects that produce long-term sustainable outcomes will be given priorities. To ensure the project is responsive to the latest technological advances and policy practices, the project will be open, during its implementation, to potential cooperation partners, including stakeholders like the private sector, charitable foundations and other civil society groups. This will not only enhance the relevance and sustainability of the project, but also lay the foundation for the expansion of partnership, integration of project resources and expanding the impact of the project outcomes.

## **7. Cost-effectiveness and effectiveness**

As an important partner, UNDP has been working with the Chinese government on sustainable urban projects such as "China's Sustainable Small Towns" and "China's Migrant Workers Integration Project". With global technology, management and strategic cooperation, UNDP has been helping provincial and municipal governments to build sustainable development capabilities.

The project will use its expertise and networking in eco-friendly health and well-being to develop a model in Northeast China. In addition, technical experience of this project will be beneficial to other projects.

## **IV Results Framework**

(see next page)

UNDAF/country [or global/regional] project outcomes and result indicators of the resource framework:												
Outcome 2: Environmental upgrading and sustainable green development enable people to enjoy a cleaner, healthier and safer environment												
Outcome 1.4 Cost-effective and sustainable energy covering rural and urban areas												
Project Name: United Nations Sustainable Development and Eco-friendly health and Well-being Town Demonstration Project Project No.: 000103082												
Expected Outputs	Output Indicators	Data Source	Baseline		Targets						Data collection methods and verification	
			Value	Year 0	Year 1	Year 2	Year 3	Year 4	Year ...	FINA L		
Output 1: Developed research reports and planning documents of the Lotus Mountain Eco-friendly health and Well-being Town	1.1 Number of Research reports and plans created	Local government briefings	0	2018	1	0	0	0	0	0	1	Search the government publications online
	1.2 Number of experts, residents, elderly (and other relevant persons) with increased know-how of eco-friendly and well-being spatial planning. (sex and age disaggregated)	Local government briefings	0	2018	4	0	0	0	0	0	4	

Output 2: Drafted and implemented sustainable development planning of service sector in the site and local policies to promote the development of the eco-friendly health and well-being service sector	2.1 Number of (policy) recommendations focusing on the development of eco-friendly health and well-being service sector taken on by the local government in its legislative, planning, and fiscal frameworks.	Local government briefings	0	2019	1			1	1	2
2.2 The number of people (e.g. seniors, adults, youths, and children) participating in small family farms.		Local government briefings	0	2020		2,500	3,500	4,500	5,500	5,500
2.3 The number of elders participated and/or attended in cultural activities and/or university for the aged.		Local government briefings	0	2020		≥50	≥ 100	≥ 150	≥ 200	≥ 200

Output 3: Green architecture standards and community conventions for the eco-friendly health and well-being centre	3.1 Extent to which green architecture standards are adopted.	Local government briefings	Not adequate (1) Low extent	2019	0	Medium (2)	High (4)	High (4)	4	On-site visits
	3.2 Based on UN standards, the number of reference examples used for architectural design.		0	2020	2				4	
Output 4: Developed planning and management standards for the sustainable eco-friendly health and well-being community	4.1 extent to which the applicability of the standards	Project website	Limited (1)	2019			Widely (4)	Widely (4)	4	Annual reports and on-site visits
	4.2 The number of people who received trainings and then pass the examination, e.g. illustrating increased knowledge (sex and age disaggregated)		0	2020		≥50	≥150	≥200	≥200	
	4.3 Number of jobs created for local residents (gender and age disaggregated)		0	2020			100	200	300	Project reports

Output 5: Cross-regional communication platform for eco-friendly health and well-being and a government-business-education cooperation model	5.1 the number of papers/documents produced for the international communication platform	Local government briefings	0	2020				1	1	2	Annual reports and government publications
	5.2 the number of Northeast Asia Forum regarding healthcare held in Jilin province.	Local government briefings	0	2020			1	1	2		
	6.1 Number of people who are aware of the project	Project website	0	2021			2,000	4,000	6,000	6,000	Questionnaires, annual reports, investigation, and interviews

## V. Project Monitoring and Evaluation

### 1. Project Monitoring Plan

Monitoring and Evaluation Activities	Aims	Frequency	Expected Action	Cooperation Partners (if there is any)	Expenses (if there is any)
Progress tracking	Progress of the index in the above table will be collected and analyzed to evaluate whether expected concrete results are achieved	Quarterly reports, or frequency required by index	If it is slower than expected, the project management team will develop targeted plans		
Risk monitoring and	Identify specific risks that may affect project outcomes; use risk management framework	Quarterly	The project management team will identify risks and take action. Use the		



management	diagrams to identify and monitor risks, including steps and plans required by UNDP's social and environmental analysis standards. Conduct audits in accordance with the principles of UNDP.		risk management framework diagrams to track risks in a timely manner and take necessary actions	
Study	Regularly acquire knowledge, experience, and lessons from the project, learn from other projects and partners, and integrate them into the project	At least yearly	The project team draws lessons and informs the decision makers in a timely manner	
Annual project quality assessment	Evaluate project quality according to UNDP standards, clarify project strengths and weaknesses, and report to decision makers in time for improvement	Yearly	Clarify project strengths and weaknesses, and report to decision makers in time for improvement	
Self-assessment, correction	Self-assessment based on internal data and action plans, and report the results to decision makers	At least yearly	The project committee discusses data, risks, lessons, quality, and self-improvement	
Project reports	Submit project progress, quality assessment reports, risks and measures, and various assessment reports to the Project Steering Committee	Yearly, and there will be a final assessment report at the end of the project		
Project review by the Steering Committee	The Steering Committee will hold regular project review meetings, evaluate project implementation, review annual work plans, and ensure the proper use of project funds. At the end of the project, the Steering Committee will	Customize meeting time (for example, at least once a year)	For any concerns over quality or progress, the Project Steering Committee needs to discuss and take action	

	<p>convene a project summary meeting to summarize experiences and lessons, find opportunities for project scaling up, and to publicize project results.</p>				
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**\*2. Project Evaluation**

The mid-term evaluation will take place in the 30th month after the project is launched.

The mid-term evaluation will assess the project progress, identify problems, solutions, experience, and deficiencies in project design and implementation management. The mid-term evaluation focuses on the relevance, effectiveness, efficiency, and sustainability of project implementation. The outline of the mid-term evaluation work will be prepared jointly by UNDP, CICETE, and the Project Coordination and Management Office.

The final evaluation will take place three months before the end of the project.

The final evaluation focus will be the same as the mid-term review, focusing on the impact and sustainability of project outcomes. The final evaluation will also provide recommendations for follow-up activities for the project. The final evaluation work plan was prepared jointly by the United Nations Development Program, the China International Center for Economic and Technical Exchange, and the Project Coordination Management Office.

<b>Evaluation Categories</b>	<b>UNDAF/CPD Outcomes</b>	<b>Planned Completion Time</b>	<b>Main Evaluators</b>	<b>Costs</b>
Mid-term Evaluation	Outcome 2	Fourth quarter of 2019	UNDP, CICETE, and Project Coordination and Management Office	Cost sharing
Final Evaluation	Outcome 2	Third quarter of 2020	UNDP, CICETE, and Project Coordination and Management Office	Cost sharing

## VI. Annual work plan 2018 – 2022

Expected Outputs	Planned Activities	Annual Budget (USD)				Responsible Parties	Planned Budget Allocation (USD)		
		Y1	Y2	Y3	Y4		Source of Funds	Budget Description	Amount
Output 1: Developed research reports and planning documents of the Lotus Mountain Eco-friendly health and Well-being Town	1.1 To conduct ecological development planning to guide and assess the planning, ensuring it conforms with the sustainable development concepts of the UN	15,000	15,000			Project Implementation Office	Zhongfu	Chinese and foreign experts; travel expenses	
	1.2 To make the spatial planning for the 2-km2 eco-friendly health and well-being town	120,000	300,000			Project Coordination and Management Office and Project Implementation Office	Zhongfu	Subcontracting services	
	1.3 To conduct research on green architecture planning of the restoration and rebuilding of the two village communities within the project site	100,000	100,000			Project Implementation Office	Zhongfu	Subcontracting services	
	1.4 To integrate technological and psycho-social innovation into the development plan for the well-being of the residents, using participatory approach	5,000	5,000			UNDP, Project Implementation Office	Zhongfu	Chinese expert	
Subtotal Output 1: USD 660,000		240,000	420,000						

Output 2: Drafted and implemented sustainable development planning of service sector in the site and local policies to promote the development of the eco-friendly health and well-being service sector	2.1 To invite industrial development experts and local residents to determine the industrial composition of the Town, ensuring a participatory and inclusive approach during the project implementation process.	5,000	5,000	5,000	5,000	5,000	Project Implementation Office	Zhongfu	Chinese and foreign experts; travel expenses
	2.2 To establish and demonstrate a sustainable industrial development model in the 2-km2 project site concerning the output of Activity 2.1 in close consultation with the local and municipal government meanwhile ensuring indigenous participation.	150,000	30,000					Project Coordination and Management Office and Project Implementation Office	Zhongfu
Output 3: Green architecture standards and community	2.3 To formulate policies that support sustainable tourism development to create job opportunities and improve the products and branding of the local culture	30,000					Project Implementation Office	Zhongfu	Chinese and foreign experts; travel expenses; conferences
	Subtotal Output 2: USD 230,000	5,000	185,000	35,000	5,000				
	3.1 To carry out overseas visits to learn foreign experience, design, and architecture technologies of eco-friendly health and well-being communities	30,000					Project Coordination and Management Office and Project Implementation Office	Zhongfu	Travel Expenses

conventions for the eco-friendly health and well-being centre	3.2 To develop and pilot the community's technological plans of sustainable resource use including smart energy, sewage recycling and exploring to develop practical clean energy technologies that can be used widely (e.g. the application of hydrogen fuel cell technology in buses and ambulances)			50,000		Project Coordination and Management Office and Project Implementation Office	Zhongfu	Chinese and foreign experts; travel expenses
	3.3 To formulate the construction standards of the project operation center based on the reality and demonstrating sustainable operation			100,000	50,000	Project Implementation Office	Zhongfu	Subcontracting services
	3.4 To develop the purchasing list and utilization plans of key healthcare and medical devices for the project and to pilot the implementation			400,000	200,000	Project Implementation Office	Zhongfu	Devices
	Subtotal Output 3: USD 830,000		30,000	550,000	250,000			
Output 4: Developed planning and management standards for the sustainable	4.1 To draft and implement the operation plans of the Lotus Mountain Eco-friendly health and Well-being Town and piloting the operation model to explore new ideas and new methods			30,000		Project Implementation Office	Zhongfu	Chinese experts

eco-friendly health and well-being community	4.2 To develop an eco-friendly health and well-being training and certification mechanism in close liaison with relevant service companies and institutions across China			70,000	30,000	Project Implementation Office	Zhongfu	Subcontracting services
	4.3 To enhance the capacity for senior management, operation and management staff, service staff, and locals			50,000	100,000	Project Coordination and Management Office and Project Implementation Office	Zhongfu	Conferences and training
	Subtotal Output 4: USD 280,000			150,000	130,000			
Output 5: Cross-regional communication platform for eco-friendly health and well-being and a government-bus iness-education cooperation model	5.1 To facilitate a communication platform for eco-friendly health and well-being across Northeast Asia, within the framework of the China-Northeast Asia Expo				300,000	Project Coordination and Management Office and Project Implementation Office		Travel expenses and conferences
	5.2 To cooperate with domestic and foreign educational institutions including Norman Bethune University of Medical Science to pilot an online college of eco-friendly health and well-being			30,000	200,000	Project Implementation Office	Zhongfu	Chinese and foreign experts
	5.3 To promote eco-friendly health and well-being, to facilitate information exchanges and to push for replications of the eco-friendly health and well-being town model			20,000	30,000	Project Coordination and Management Office and Project Implementation Office	Zhongfu	Miscellaneous and conferences

	Subtotal Output 5: USD 580,000				50,000	530,000					
Project Management	Project Steering Committee Meetings	5,000	5,000	5,000	5,000	5,000	PSC Members	CICETE			
	Project Management Meetings	5,000	5,000	5,000	5,000	5,000	UNDP, CICETE, PCMO, PIO	PCMO			
	Mid-term Evaluation			10,000			Project Coordination and Management Office and Project Implementation Office	Zhongfu	Chinese experts		
	Final Evaluation					10,000	Project Coordination and Management Office and Project Implementation Office	Zhongfu	Chinese experts		
	Subtotal: USD 60,000	10,000	10,000	20,000	20,000	20,000					
Management	GMS (UNDP)					90,000	UNDP 3%	Zhongfu	Project management		

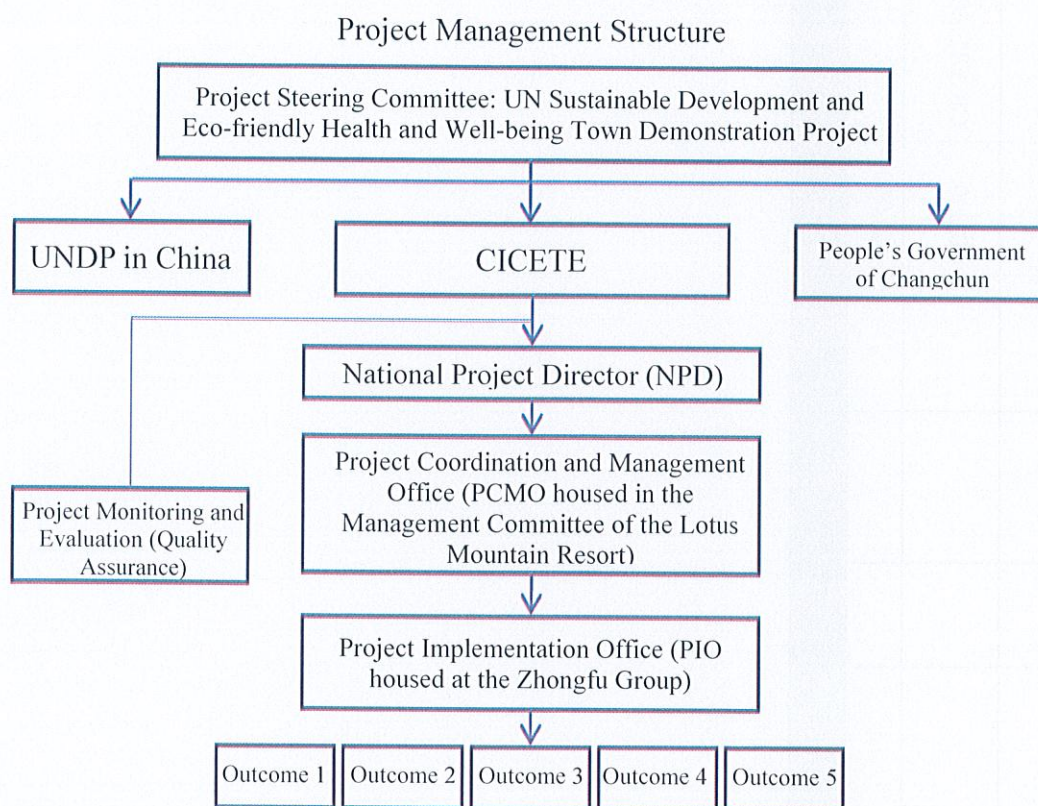


Support	ISS (CICETE)					90,000	CICETE 3%	Zhongfu	Project management	
	DPC (UNDP)					90,000	UNDP 3%	Zhongfu	Project management	
	DPC (CICETE)					90,000	CICETE 3%	Zhongfu	Project management	
	Subtotal: USD 360,000					360,000				
Total	USD 3,000,000									

## VII. Governance and Management Arrangements

The management of the project includes at least the stakeholders: UNDP, CICETE, People’s Government of Changchun, the Management Committee of Lotus Mountain Resort, and Zhongfu Group. Stakeholders will work together to determine how to engage the target team in the project and how to ensure their participation and voice heard.

### 1. Project Management Structure



### 2. Responsibilities of Key Stakeholders

#### (1) Project Steering Committee

In order to provide policy and strategic guidance for the implementation of the project, the Project Steering Committee is established, which is composed of representatives from the following departments: UNDP, CICETE, People’s Government of Changchun, Management Committee of Lotus Mountain Resort, and Zhongfu Group.

Its responsibilities include: 1) supervising the implementation of the project; 2) reviewing the annual work

plan and budget submitted by the project; 3) reviewing the work plan revision and budget revision; 4) providing technical input to the project of different industries; 5) review and approve the main results of the project; 6) influencing policy making, mobilising human resources and financial resources to support project implementation; 6) coordinating the interests of different stakeholders of the project and negotiating for solutions; 7) ensuring collaboration among member units; 8) comprehensively evaluate the project's final results.

The Project Steering Committee hold regular meetings at least once a year. UNDP and CICETE will participate in the annual meeting to review the progress of the project and approve the annual project work plan and budget.

#### (2) UNDP

UNDP will be responsible for: 1) providing audit services for the project; 2) conducting monitoring and assessment on the project with the CICETE; 3) appointing independent financial auditors and evaluators; 4) ensuring that all activities, including procurement and financial services, are carried out in strict accordance with the procedures of UNDP.

#### (3) CICETE

As the implementer of the project, the CICETE performs as the government coordinator responsible for the following project management activities: 1) implementing, managing and coordinating the project according to the project documents and project management brochures to ensure the achievement of expected outcomes; 2) cooperating with UNDP to conduct monitoring and assessment, share and release project outcomes; 3) providing financial services to the project, including coordinating the Project Implementation Office to make annual work plans, drafting project progress reports, and determining annual budgets.

#### (4) People's Government of Changchun

The Changchun Municipal People's Government participates in project management as a member of the project steering committee and is responsible for the leadership, policy, organization and coordination support for the project implementation. In view of the designed output for the project involve policy reform, adjustment to public planning, industrial structure layout, financial and credit policies and other areas with strong policy sensitivity, which require cross-industry and inter-department coordination, it is recommended that the Changchun Municipal People's Government designate the Management Committee of Lotus Mountain as the agency that houses the Project Coordination Management Office and provides the office venue, personnel, as well as necessary office equipment.

#### (5) Zhongfu Group

Zhongfu Group will provide financial support to the implementation of the project and participate in project management as a member of the Project Steering Committee. It will also provide the Project Implementation Office with the office venue, personnel, and fundamental office devices.

### **3. Responsibilities of Two Offices**

#### **(1) Project Coordination and Management Office (PCMO)**

The PCMO will be set in the Management Committee of Lotus Mountain Resort. Under the leadership and guidance of the Project Steering Committee, the PCMO is responsible for project implementation and management. The NPD, a high official of the Lotus Mountain Government that works at the PCMO, will be designated by the Project Steering Committee.

The responsibilities of the PCMO include: participating in the development of work plans and project implementation, drafting monitoring reports, regular coordination of project results, communication with stakeholders, providing guidance to the work at the PIO, and serving as the Secretariat of the Project Steering Committee. In addition to its management and coordination function, the PCMO will be responsible for the implementation of policy, institutional and planning projects, promote knowledge management and results sharing, so as to facilitate the upscaling and application of project results at the policy level.

#### **(2) Project Implementation Office (PIO)**

The PIO will be housed in the headquarters of the Zhongfu Group. With the policy guidance and supervision of the Project Steering Committee and the direct supervision and guidance of the PCMO, the PIO will be responsible for all the administrative and financial accounting work during the project implementation period. The Deputy NPD, a high official of the Zhongfu Group that works at the PIO, will be designated by the Project Steering Committee. The Project Implementation Office's work will also have to meet the requirements of the Project Coordination and Management Office, CICETE, and UNDP. The PIO is comprised with a Project Manager, a Project Assistant, an Information Officer, an Accountant and a Cashier.

The specific responsibilities of the PIO include: Coordinating the project participants to compile and summarise the work plans and budget statements; management of the project implementation on a daily basis; monitoring the project implementation and delivery progress; executing the procurement plans under the project; signing service contracts with technical service agencies and consulting experts; coordinate project outputs, promote experience exchange, and prepare regular project reports.

### **4. Project Quality Control and Reporting System**

(1) Quarterly Progress Reports (QPRs)

QPRs are to be submitted to UNDP in China on a quarterly bases. The latter will regularly monitor project progress through quarterly work plans and progress reports to identify and resolve problems in a timely manner, ensuring the smooth implementation of the project. The quarterly work plans will be consistent with the overall objectives and assessment indicators of the project.

(2) Annual Progress Reports (APRs)

As the main channel for gaining experience and lessons from project implementation, the APRs will provide a more in-depth summary of project progress and implementation. The APRs, which are to be developed in accordance with UNDP's requirements, will be used to monitor progress made since the project was launched; and reviewed, monitored, and managed by UNDP .

Annex 1 Risk Analysis (omitted)

Annex 2 Cooperation Agreement (omitted)

Annex 3 Social Environmental Assessment (omitted)

Annex 3 Expert Duties

According to the needs of UNDP, the project will employ Chinese experts in urban planning, architectural design, health and well-being, communication platforms of think tanks, and characteristic town running as well as international experts. Their specific duties are not introduced here.