Constructing a Learning City

The Role and Reformations of Higher Education Institutions

——A Case Study of Tsinghua University

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Abstract

In the learning city construction, the traditional higher education institutions are taking prmations toward two directions: those to do with providing lifelong learning opportunities those to do with cultivating lifelong learners. As a top university located in the culture and cation center of China, Tsinghua University has taken on a multi-dimensional role in the cess of eliminating regional education unbalance and promoting lifelong learning. This ess I take Tsinghua University as an example to analyze the roles and responses of higher cation institutions in the learning city. Particular emphasis will be placed on the following e aspects: (1) the conceptions and significances of learning city construction; (2) the policy kground and the practical models of learning city construction in China; (3) the challenges reformations of higher education institutions under the background of learning city struction-a case study of Tsinghua University. Based on the above discussions, this paper v o demonstrate the implementation and effects of Ma'anshan learning city pilot project iated by Tsinghua University, which can also be seen as a vivid snapshot of successful peration models between universities and cities jointly construct a learning city project.

1. Introduction

In the late sixties of 20 century, the notions of learning society gained considerable rency and was regarded as a new form of social ideality in a number of countries. A learnir iety is made up of different kinds of learning organizations, such as learning individuals, ning families, learning communities, and learning cities. As for the concept of learning city 'erent scholars take different views on it. In this essay, the author defines it as a city that resses individual fulfillment as well as social cohesion through promoting lifelong learning the citizens.

It was not until 1990s that the concept of learning city had risen up into a widely rnational movement with the endeavors of the international organizations, such as UNESC CD, and EU. In the process of constructing a learning city, the higher education institutions ving on their excellent faculties, rich learning resources and advanced technologies should ke a distinctive contribution. To fulfill this historic mission, the traditional higher education itutions need adopting series reformations and innovations under the guidance of lifelong ning.

2. Learning city: Conceptions and significances

The meanings and characters of the concept

The concept of learning city has a history extending as far as the late1960s. During this iod of time, lifelong learning thoughts were revived by the advocacy of three international anizations (UNESCO, OECD, and EU) and have become a fundamental goal of social and itical policies. Lifelong learning has multi-modalities, whether it is called as "lifelong cation", "recurrent education", "adult education" or "permanent education" the core idea is

the same, that is providing education opportunities for all the people across their whole life n the cradle to the grave.

The learning city is closely related with the idea of lifelong learning. It is an operationa cept which integrates lifelong learning into the city strategic plan and transforms the lifelon ning ideas into concrete initiatives and action plans. The learning city encompasses varied ning organizations, such as learning families, learning communities, learning villages and ning towns. It is also a necessary part of a learning society which provides suitable ironments for varied learning activities and makes lifelong learning into realities.

Thus, the concept of learning city has transcended the geographical scope. It is more the gion with modern architectures, advanced technologies and developed economies. They ar numities where lifelong learning has been established as the principle, where varied cation providers (formal and informal) are organized in a systemic and comprehensive way where learning activities can happen at any time in any places.

Although different cities have formed different learning city patterns appropriate to the ticular needs of their own localities, learning cities have a number of common characters the them significantly differ from the traditional cities. As a learning city, it is

Regarding lifelong learning as an organizational principle and a strategic city
1;

✓ Promoting citizen's harmonious development (knowledge, skill, attitude, etc.)
1 as enhancing the social cohesion and economic development of the city;

 \checkmark Providing continuum learning opportunities for all the citizens, from early ldhood education to the elder education;

✓ Integrating all kinds of learning resources from formal education (K-12) secto nformal education sectors, into a learning network;

2.2 The significances of the learning city construction

From the sociological perspective, cities are always regarded as the main strengths velling social reformations and developments Therefore, the construction of the learning cit

n important tool to realize lifelong learning conceptions and a breakthrough to establish a ning society. Meanwhile, cities are also the most appropriate forms to carry out lifelong ning activities because of their core status in population, politics, economy, culture and cation. Besides, constructing a learning city has other significances. It can be divided into e levels:

> Individual level. The learning city will greatly enhance personal fulfillment, tivate more adaptable, creative individuals through development of a learning culture.

Economic level. The learning city will greatly promote economic developmen vrove the core economic competitiveness and enhance continuous development of the city.

Social level. The learning city will strengthen social cohesion and civic agement by providing equal learning opportunities.

Furthermore, there are some special meanings for China establishing learning cities.

Firstly, the learning city construction is an effective way to transform China from a ntry hindered by a heavy population burden into a country with rich human resources. Now na is at one of the most crucial periods of economic development and social reform. The st obvious problem that would hinder this process is population problem which has already ught up several serious social problems, such as employment issues, environmental destruct morality loses, etc. They all have direct relationship with the low level of population thesis. How to effectively deal with these problems and successfully transform China's hug rulation burden into rich productive human resources? The learning city construction has vided us with a very good answer.

Secondly, the learning city construction will accelerate the paces of social and econom elopment, promoting the establishment of a well-off society in China. The learning city is a v mode of modern city development, which not only means developing matured lifelong ning systems but also means setting up a series of modern city conceptions and starting up ited reformations adapting to the new rising knowledge economy. This process will make the v more efficient and productive and will greatly impulse China to have a jumping elopment in socio-economic areas.

Thirdly, the learning city construction will promote the harmonious development of na. The fast speed of economic development in China has also accompanied with many soflictions and disharmonic phenomenon, such as unbalanced incoming assignment, eriorated environments and abnormal development of human beings. It is very crucial for na to solve these problems for the sake of a further development while learning city struction has proved to be an important approach.

3. The policy background and the practices of learning city construction in China

3.1 Policy background

Lifelong learning is not a new concept in China, which can be traced back to an ancien cator named Confucius, who brought forward the lifelong learning idea more than two usand years ago. But it is not until 1990s when it became a hot topic under the impact of wledge economy. More and more people have recognized the significance of lifelong ning. Furthermore it is also reflected in some national policies and regulations adopted by 'ernment.

Since the late 1990s, three particular pieces of legislations have been passed concernin long learning. In 1993, the State Council issued "The Outline for Education Reform and velopment in China," which put forward the concept of lifelong education for the first time '6, "The Education Law of P.R.C." was adopted by the National People's Congress, which rly prescribed that China would accelerate the process of education reform and encourage iety of education forms to establish a lifelong education system. Shortly after the adoption Education Law, the Ministry of Education formulated the Action Scheme for Invigorating ication Towards the 21st Century in 1998, in which the government replaced "lifelong cation" with "lifelong learning" and it clearly stated that "China will establish a lifelong ning system in 2010" (the Action Scheme for Invigorating Education Towards the 21st nury, 1998). It was also regarded as the milestone in promoting a lifelong learning system in na.

In 2002, lifelong learning has become a necessary part of the national plan. The Sixtee ional Congress of the CPC put forward that China would build up an "All people learning lifelong learning society" by the year 2020 to enhance people's all-round development an elerate the process of building a full welfare society. It also emphasized that China should ngthen continuing education and professional training, construct a lifelong learning system provide equal learning opportunities for all the people. (The report of the Sixteenth Natior 1978 of the CPC, 2002)

Although no detailed operational plans were outlined in any of these documents, lifelo ning has transformed into a widely movement across China. Activities of constructing ning cities, learning communities, learning enterprises and learning families are carrying ough nationwide.

3.2 Learning city movement

Shanghai is one of the earliest cities in China to advocate lifelong learning and put it ir ctices. As early as 1990, Shanghai initiated the learning city project and has adopted ow-up measures to encourage lifelong learning. Since then, many cities actively took part i process. In 2000, Changzhou Municipal Government of Jiangsu Province adopted the solution on Constructing Learning City." In the same year, the Beijing Municipal Ministry ication issued "The Opinions on Promoting Community Education, Building a learning vital."

At the end of 2003, China held the first national lifelong learning conference in Beijing ras regarded as the turning point of learning city movement. Experts from more than 60 cith h as Shanghai, Dalian, Beijing, Changzhou, got together and jointly issued a "Manifesto of training City Construction". The manifesto pointed out nine concepts, namely humanism, eq ning opportunity, lifelong learning, human resources construction, learning ability, creativ npetition and cooperation, harmonious development, and city civilization. (2003). Since the learning city construction has transformed from spontaneity and infantility into the stage o peration and maturity.

By the year 2009, there are more than 200 cities in China have definitely set up their ls on constructing a learning city, more than 10 cities have instituted and implemented a es of policies and resolutions to enhance lifelong learning activities, and a number of cities e listed the goal of constructing learning cities into "The Tenth five-year Plan".

3.3 Learning city models

During the process of constructing learning cities, three patterns of learning cities with inctive features have emerged. The first is the "Learning for city civilization" model, which and promoting city civilization by means of lifelong learning. The typical example is Beijin ioyang District model. The second is the "Learning for city core competition" model, which and improving the city's economic competence by encouraging lifelong learning. The typic mple is Changzhou pattern. The third is the "Learning for citizens' harmonious developme del, which means enhancing citizen's all-round development through lifelong learning. The ical example is Shanghai model.

The three different models just addresses three fundamental objectives of lifelong ning: personal development, social cohesion and economic growth. The cities will orientat ir own objects properly according to their concrete conditions and characteristics. While ma es in China have possessed of these three tendencies simultaneously, Ma'anshan City of hui province is one of the examples.

Because China has not set up a matured social education system comparing with weste ntries, the prominent feature of learning city construction at the present stage is to provide ds of available education resources for all the people and enlarge the education chances.

4. The challenges and reformations of higher education under the background of rning city construction

It is customary to divide the work of higher education into three domains: teaching, earch and community services. The wide spread of lifelong learning conceptions and activitie greatly challenged the traditional higher education paradigms. The university should fost support lifelong learning in each of its three functions. It is in this context that the higher cation institutions need to reconsider their roles and missions within the domain of lifelong ning. One of the common trend is to move the higher education system in the direction of oming an open learning system which can be accessed by learners at different times, in 'erent ways and for different purposes at various stages of their lives and careers----a syster t promote lifelong learning not merely at the margins for small groups of "mature" people, ts basic shape and structure.

From our perspective, the higher education institutions can play an important role in th cess of learning city construction, because they have possessed of abundant learning purces, advanced technologies and excellent faculties, which are the key factors making up arning city. Besides this, the higher education institutions are always the education and tural centers of the specific communities, which are also the best suitable places to organize long learning activities.

Thus, the higher education should establish a new education paradigm which regard long learning as a basic guideline and carry out series reformations and innovations to fulfi historical mission. As part of this recognition, universities and other institutions of higher cation have had to consider their place within the total domain of lifelong learning. Broadly aking, these reformations can be divided into two parts: those to do with providing lifelong ning opportunities and those to do with cultivating lifelong learners.

4.1 Providing lifelong learning opportunities

(1) Promoting New Access Policy

Traditionally, the development of higher education institutions in China is a close syst ich just likes an ivory tower separated from the society and serves for the few elitists who a winners of the Entrance Examination. At that time, only those who are in the age of 18-25 duated from high schools and are not married can have the chance to take part in the Entrar imination. This strict policy has prevented many people who are eager to learn from access excellent learning resources. The essence of lifelong learning society is ensuring everybody has equal learning ortunities, which call the higher education institutions to take some measures enhancing th cess and transforming from elite education to popular education. It is under this backgroun t the Ministry of Education in China issued the blue print of "the reformation of Higher examination" (2001). According to the new accessing policy, everybody atever his (her) age, marriage status and education background can take part in the Entrance unination. Thus, promoting new access policy has two objectives: one is giving a chance to Its who missed the opportunity for higher or further education; the other is to make lifelong ning accessible to adults from any socio-economic background. Soon after that, the reform taken into effect. Many older "non-traditional students" even at their sixties or seventies an se who had not entered or completed upper secondary schools become the candidates for th rance Examinations.

(2) Setting up new Academic Program

Currently, the lifelong learners in China can be divided into four types. The first is a npensatory type, which refers to those people who have missed the educational chances in ir early age and want to make up for it. The second is developing types, which refers to tho ple who have already had sound education background while want to improve their skills, wledge and seek for a better development through continuing study. The third is a sforming type which usually refers to those people who want to switch to another new fiel dapt to the new working environment through educational training. The last type is a leisure, which refers to those people who want to make their life more beautiful, rich and colorfu ough learning.

There is no doubt that the traditional degree-centered university program could not kee with this new trend, the higher education institutions need exploring new ways to satisfy th ltiple learning demands. Continuing education, which characterizes as a flexible academic gram has gained recognizance in recent years and emerged from the edge to the center. Alo h undergraduate education and graduate education program, continuing education has beco ecessary part of the university activities, as important as initial education and research. In the ¹⁵ Education ACT, continuing education was explicitly stated as a legal responsibility for all her education institutions for the first time. It greatly influences the university strategies. In na, almost all the university have set up the schools of continuing education or the adult cation schools, or evening colleges providing multiform learning programs orientated at the ve five types of lifelong learners.

(3) Applying ICT in delivering learning resources

In the process of constructing a lifelong learning society, ICT has proved to be an ective carrier to transmit learning resources and enlarge education chances. By using ICT, the versity becomes more open and the learning process becomes more flexible, every learner atever their places can access to the learning resources at any time. Human being's education vity has been greatly widened and extended.

Distant learning which based on ICT can provide lifelong learning opportunities to a le range of learners currently excluded from education, such as the students in poverty area abled students, those in employment, etc. Under this circumstance, China Ministry of ication started up the Modern Distance Learning project, which encouraged some qualified versities applying ICT to transfer their education resources. In 1999, China Ministry of ication authorized Tsinghua University and other three universities as the first set of erimental units. By 2006, China has established a total of 68 universities with web institute re than 3,000,000 candidates have enrolled in distant learning. (2006) According to the cial statistic, the enrollment of distant learners has constituted about 17% of the total numb he university students throughout the whole country. (Yaoxue Zhang, 2004). This greatly ances the popularity of higher education and promotes the construction of lifelong learning iety in China.

(4) Increasing new providers in higher education

The traditional universities look conservative and cautiously when taking measures to arge the education opportunities and there are still a small group of people have the chance essing to them. With the increasing demands for higher education, there arise some new

ns of higher education providers. With the emergence of new higher education providers, t litional universities are no longer the monopolies of the knowledge; their hegemonic status powerfully challenged.

The new higher education providers have provided multiform learning opportunities fc people who are excluded by the traditional universities. The enterprise universities which n out of enterprises have attained a portion of marketing in employee training and adult cation training areas; the virtual or open university which based on ICT effectively transmi ellent learning resources to the remote areas; and the community colleges which focus on sfying varies needs of community residents have gained widely popularity.

4.2 Cultivating lifelong learners

In the framework of lifelong learning, the traditional higher education is no longer an ing point preparing for the individual's future life, but rather a basic and necessary part of long learning system. It is in this context that universities are under pressure to examine the ects, faculties and teaching methods, as well as their curriculums, in order to ensure that the duates are armed with appropriate knowledge and attributes that will help them to become ependent, lifelong learners.

(1) Regulating teaching objects——the transition from preparing for work to tivate the attributes of lifelong learners

The traditional higher education object usually focuses on knowledge and skills that pare the graduates qualifying for their future work. Under the background of lifelong learn higher education institutions should regulate and rearrange the levels and grades of the litional education object. As professor Candy pointed out, the new higher education object tem will give much emphasis on lifelong learning. Graph 1 gives us a vivid explanation: In new object system, cultivating learners with lifelong learning attributes have become the c t instead of the specific knowledge and skills. While in the traditional model, lifelong learn ust a derived object.



Figure 1. The new levels and grades of object systems in lifelong learning society In our opinion, lifelong learning attributes including two aspects: one is cognitive factors h as lifelong learning knowledge and skills; the other aspect is non-cognitive factors, luding learners' attitudes, sensibility and willingness.

(2) Curriculum reformation

The provision of learning opportunities throughout life challenges the traditional riculums of the university which has privileged the provision of education to students ween 18 and 24 years. Many researchers have pointed out that a university curriculum moting lifelong learning should possess the following characters:

Providing systematic introduction to the specific field;

Offering a comparative or contextual framework for viewing the field of study

Broadening the student knowledge and providing generic skills;

Offering some freedom of choice and flexibility of structure;

Therefore, the traditional curriculum structure design should obey the principle of ersity and flexibility. There are three attempts: one attempt is setting up the modularize rses, which means separating the curriculum content into small, independent and idardized units; the second is setting up core curriculums, which are made up of general cipline or basic curriculums, aims at cultivating learners with the general knowledge and sk ich can transfer to other fields; the third is setting up adult orientation curriculums, which pt to the characters and demands of adult people. As we mentioned above, the prominent llenge the universities are facing in the learning society is the increasing enrollment of adu ners. Then how to reform the current degree curriculum and strengthen the link between

ic theories and practical working areas is the most important issue the universities are facin ny universities have introduced separate courses, part-time courses and evening courses in ular provision to meet the demands of older, non-traditional students.

(3) New teachers roles and teaching methods

Teachers are the key factors that influence whether the higher education institutions ca y important roles and successfully train lifelong learners in the learning society. In our nion, the teachers in the learning society should transform from the single role of transmitti wledge, skills and solving problems to play multiform roles. The first is teachers themselvuld become lifelong learners. It is not only the requirement of the professional developmen also for the reason of establishing lifelong learning models for the students. The second is there should become partners with students. There are several distinctive differences betwe new type of teacher-student partnership and the traditional teacher-student relationship. (So le 1) The third is teachers need changing from experts to mentors and guiders; they are no ger the dictators controlling knowledge and skills.

Items	Traditional teacher-student Iship model	New type of teacher-student rship model
Leadership fashion	Dominance, obedience	Negotiate with each other
Decision making	Top to bottom	From top to bottom and from to top
Organizational culture	Authority culture	Democracy, equality and cooperative culture
Organizational re	Bureaucracy	Flat
Relationship with ment	Occlude	Opening

Table1. Comparisons of two different teacher-student relationship models

In addition, the teachers need adopting some new teaching methods that encourage duates to become lifelong learners. Some scholars have pointed out that these new methods to the following characters: (1) they make use of peer-assisted and self-directed learning; (2 y include experimental and real-world learning; (3) they make use of resource-based and blem-based learning; (4) they encourage the development of reflective practices and critica '-awareness; and (5) as appropriate, they make use of open learning and alternative delivery chanisms. (Shirley Walters)

5. The responses of higher education institutions in the learning society: A case dy of Tsinghua University

In China, many colleges and universities are taking measures to promote lifelong learn he above -mentioned areas. As a public university in China, Tsinghua University is an actiocator and supporter of lifelong learning and has taken on a multi-dimensional role in the cess of constructing a learning society in China. In 2001, Tsinghua University was authoriz ational project on lifelong learning by the MOE in China. The lifelong learning project umed by Tsinghua University included four parts: Studies on the theory of lifelong learning tem; Construction of the technical platforms for lifelong learning system; Construction and gration of lifelong learning resources; Pilot lifelong learning projects construction. The nework of this research project is shown as following (See Figure 2):

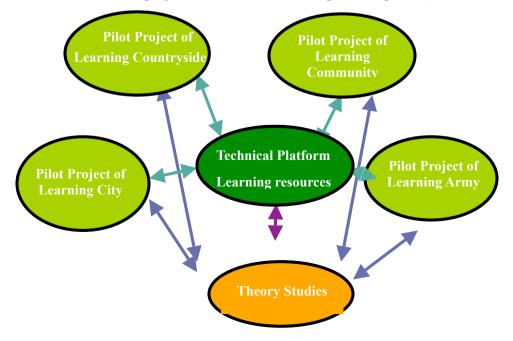


Figure 2. The research framework of the project

With the endeavors of Tsinghua University, the project has started a series of pilot jects covering four mainstream sections of Chinese society: learning city, learning ntryside, learning community and learning army, which makes Tsinghua University a modcolleges and universities to participate in a learning society construction. Here a learning c nt project, Ma'anshan Learning City Project will be singled out, it is also a typical model of structing a learning city with the cooperation between universities and cities.

5.1 The general introduction of the learning city project

Located on the bank of the Yangtze River, Ma'anshan is one of the core industrial citie he Yangtze Delta Economic Zone, one of the most economically prosperous areas of China sists of 3 districts and 1 county, occupying an area of 1686 square kilometers. The number residents has reached 1.2million, 530,000 of which are living in urban areas. Over the past o decades, Ma'anshan has enjoyed a fast, sound and sustainable economic development, ma nomic achievements such as GDP, fiscal revenue, resident's income and savings on per cap e, and so on, have been ranked No.1 in Anhui Province for many years. Under the kground of a knowledge economy, Ma'anshan city government fully recognized the vortance of constructing a learning city. In 2003, Ma'anshan government issued the paper ie Decision on constructing a learning city in Ma'anshan." In the same year, Tsinghua iversity chose Ma'anshan as the experimental city to construct a learning city pilot project.

5.2 The objective of the learning city construction

The general objectives of this project is providing lifelong learning opportunities for al citizens and improving the quality of people as well as enhancing overall competitiveness city and urban civilization through learning city construction. The concrete objectives may lude two parts: The first part, starting in 2003, taking about 5 years to build the foundationa nework of a learning city; the second part, using another five years to consummate the

ning city system, cultivate self-directed learning habits of all the citizens.

5.3 The three stages of the project

The First Stage (2003.7-2003.12)—Preparing Stage: Start the project and disseminate cepts of lifelong learning.

The Second Stage (2004-2007)—Implemental Stage: Construct the foundational nework of Manshan learning city.

The third stage (2008-2012) ---Evaluating and Perfecting Stage: The main tasks will lude: to set up a series of high level learning organizations; to establish a lifelong learning tem based on school education, adult education, continuing education and community cation; to constitute the policy assurance system to provide a suitable learning environmen all the citizens.

5.4 The achievements of Ma'anshan Learning City Project

Ma'anshan city has achieved a comprehensive and harmonious development since the ning city construction started. It has won several awards, such as "National Sanitary City", ational Garden City", and "The most excellent tour city", "UN Dubai International Award f st Practices to improve the living environment", and so on. As for the learning city struction, it has made the following achievements:

First, organized the Directing Council of Ma'anshan Learning City Construction, whic 1 charge of organizing and implementing the whole project. So far, the council has issued eral papers to impel the process, such as "The Decision on constructing Ma'anshan learnin '," etc.

Second, constructed multilevel and multimode platforms for lifelong learning. Based o Ma'anshan Broadcasting TV University, the project built up the lifelong learning center in 'anshan city. The lifelong learning center has four platforms:

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Face to face instruction platform: Including 30 Multi-media classrooms, 3

discussion rooms, 1-2 real-time two-way communication rooms, over 80(self study classrooms;

- Learning resources platform: Integrating and developing 500-800 college education course wares suitable for self-directed learning. In June 2004, Ma'anshan successfully introduced Tsinghua University's resources such IT, modern public management, enterprise creative ability training, etc. ir Ma'anshan city;
- Technical platforms: Construct a combined network based on Internet, Satellite, Cable TV to transport learning resources; Established supporting service system for learners relying on the Internet;
- Experiment platforms: Built over 20 laboratories to provide basic experiment environment. Opened virtual laboratories through the Internet

Third, enlarged the city library's capacity and made it open to all the citizens. Set up ding rooms in each community to provide convenient learning environments for the resider engthened the construction of gymnasiums, Science Museums, culture museums, exhibitic seums, etc., and took full advantage of them;

Fourth, constructed various city squares, such as Happiness Square, Collaborative Squ ishine Square, City Government Square. In the squares, set up newspaper columns, public ding windows, etc., and conducted cultural activities, such as handwriting exhibition, paint ibition, lecture campaign and reading holiday, etc., to endow the squares with abundant cational functions

Fifth, set up learning bars. By the year 2003, Ma'anshan had set up 40 learning bars in 'anshan Broadcasting & TV University. In 2004, it had chosen some rural areas to set up ning bars;

Sixth, set up specific columns in the newspaper and set up educational channels to spre wledge;

Seventh, focusing on three different kinds of groups, established a specific lifelong ning website, namely: the lifelong learning website for farmers, the lifelong learning website for senior citizens.

Eighth, held a series of academic conferences and training programs. In 2004, Ma'ansl Tsinghua held the Ma'anshan conference through face-to-face mode and two channel vide ference mode. Experts from Tsinghua University gave speeches on the topic of learning anizations, culture industry and digital learning. So far, Ma'anshan held a series of training grams for government officials, enterprise managers, teachers, farmers as well as unemploy ple. There are almost 100,000 people enrolled in lifelong learning activities;

Ninth, constructed learning city assurance system and invigorative system, started setti evaluation system.

5.5 The role of Tsinghua University in the project

In the process of constructing Ma'anshan learning city project, Ma'anshan city and nghua University established a comprehensive cooperative relationship, which not only olves the theoretical guidance, the scientific and technological achievements promotion and isformation, training programs cooperation, but also in terms of technology, resources and sulting sectors.

(1) Theoretical mentor and counselor

Lifelong learning and learning organization theory provide the premise and foundation he learning city construction. The learning city constructors especially the leader groups uld understand and master this theory. Ma'anshan city leaders realized that the city was tively weak in the basic theories and needed introducing outside strength in the theory motion level. It was because of this reason that the city had taken full advantage of Tsinghu iversity in the theoretical guidance and counseling areas of lifelong learning. The function (nghua University can be concluded into three parts:

 \blacktriangleright Analyzed and drafted the report on learning needs of Ma'anshan citizens. Whe

project started, the experts from Tsinghua University had come to Ma'anshan city for sever es and had taken a compressive and scientific survey on the learning needs and learning ditions of Ma'anshan city.

> Put forward the theoretical framework and concrete approaches for learning c: struction based on the results of the survey, assisting Ma'anshan city find out the racteristics and the breakthroughs of the project.

▶ Held academic conferences to disseminate and popularized lifelong learning pries and ideas, experts from Tsinghua University had given thorough introductions and lanations on the topic of lifelong learning, e-learning and learning city theories.

(2) Education resources provider

Learning resources is the base of lifelong learning system; it is also the most difficult ction of learning city construction. As far as Ma'anshan city is concerned, it has possessed undant learning resources, such as libraries, museums, exhibitions, primary schools, middle nools and colleges. The prominent problems in Ma'anshan learning resources construction e lack of effective mechanisms for integrating current available resources; and the lack of gh-quality, high-level educational resources. In this project, Tsinghua University had nsmitted its excellent learning resources to Ma'anshan city via two channels. One is throug re-to-face mode. Tsinghua University had set up learning centers in Ma'anshan city; many perts from Tsinghua University were invited to the learning centers and gave lectures direc the citizens. The other mode is through ICT. Tsinghua University had transported more tha o hundred of coursewares covering the field of computer, English, management, finance, a d engineering. It also included nearly 100 seminars and lectures presented by Tsinghua perts via Internet Compared with the face-to-face mode; the distant education model seems ore convenient, cheap and effective especially for sharing resources between remote areas a veloped areas.

(3) Technical Supporter

ICT application is the typical characteristic of Ma'anshan learning city construction. T v to make use of current ICT establishment and provide suitable e-learning environment fo 'anshan citizens is an important issue in the project. Tsinghua University has kept the leading sessions in ICT areas, such as Computer Science, Satellite, Cable TV and Digital TV for ny years. It is the first university in China applying ICT into distant education. So far, it has up more than 130 distant learning centers across China since 1997 and has accumulated uable experiences in e-learning environment construction. In the technical platform of 'anshan learning city construction, Tsinghua University played an important role, from igning the technical framework; solving the technical difficulties, to providing technical dance and suggestions. With the efforts of Tsinghua University, Ma'anshan city successfully iblished a reliable and effective lifelong learning platform based on ICT for the citizens.

6. Conclusion

With the widespread of lifelong learning conceptions, the formal education system is lertaking deep revolution and transforming from modern paradigm to the ecological paradiich presents a more proactive attitude to the environmental changes. (Paul Clarke, 2004) der this circumstance, the traditional function and mission of higher education institutions a nging accordingly. As the "China Education White Book" issued in 2000 pointed out, "The her education must be able to provide learners with lifelong and life wide learning ortunities; to provide them with a series of excellent selected courses and flexible systems ering and leaving the higher education institutions at any point in their lives. With such effe higher education institutions should promote self-developments and social mobility of ividuals and cultivate them becoming citizens actively involved in the civic society. "

Therefore, the traditional higher education institutions should take "whether it is ducive to cultivate lifelong learners at its maximum", "whether it is conducive to provide long learning opportunities for all the people throughout their whole life" as the two basic erions to evaluate the rationality of the teaching process, curriculum setting and teaching vice supporting and as the general principle to carry out series reformations and innovation ough continuous adjustments and adaptations, the higher education institutions are sure to y an important role in the process of constructing a lifelong learning society.

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