

Strategies to Promote the Urban and Rural Environment Based on Information Technology

Weiyan Liang

Jiaying University

School of Education Science

Meizhou, Guangdong, China

e-mail:liangweiyan@jyu.edu.cn

Abstract— This paper analyses the existing problems in the development of the balance of urban and rural education, and then explore some strategies to promote the balanced urban and rural education development in the education information construction. In order to enhance teachers' IT application ability, we should carry out information technology and network application to accelerate the modernization of IT equipment configuration, and focus on promoting the application of information technology gradually.

Keywords- *information technology; education equity between urban and rural areas; balanced development; Strategies*

I. INTRODUCTION

The balanced development of education is the education under the new situation Scientific Outlook on Development. The realization of educational equity, and promote the balanced development of education, is the basic requirement of the construction of socialist new countryside and harmonious society, also is the eternal goal of the reform and development of education.

Balanced development of education is the scientific concept of development of education in the new situation. Equitable education, and promote a balanced education is the eternal goal of building a new socialist countryside and build the basic requirements of a harmonious society, but also education reform and development. In recent years, China's urban and rural draws on the experience of foreign education, from the concept of a balanced urban and rural development to enhance community education; education funding to establish security systems; co-ordination with the hardware and software facilities balanced; teacher education and other areas to promote the balanced development of rural, urban and rural education to promote common progress.

II. THE EXISTING PROBLEMS IN THE BALANCED DEVELOPMENT OF EDUCATION IN URBAN AND RURAL AREAS

A. *The overall level of teacher team of rural education is low.*

For the poor mountainous areas of teachers, improve the quality of teaching is insufficient, the professional

level is difficult to adapt to the education system now especially the implementation of new curriculum teaching. The reason caused this situation is due to the rural schools, poor teaching facilities, teaching conditions are relatively poor, teachers for the new teaching mode in the acceptance of relatively slow; second is the original examination oriented thought in trouble, young teachers with higher education are unwilling to remain out of the limelight, stay in the town school. In order to integrate the educational resources, many places to take the school merging method, especially in relatively remote rural areas, due to fewer students to merge the situation is more serious, the young teachers are trying to urban or suburban school job, the rest is mostly in the local married local people.

The development of information technology makes computers and networks are universal application, which provides a powerful way to transfer educational information. In that context, you can rely on IT to establish an effective educational resource sharing platform to achieve organic linking urban and rural education and interaction, provide more quality education resources for education in remote areas and rural areas, the overall beneficial to the education level upgrade. IT makes inter-regional exchanges become more smoothly, but also broaden the channels for the transmission of information exchange, it makes the balanced development of educational resources has the possibility of external conditions, but also provides an effective problem-solving measures to make urban and rural educational resources balanced development of possibility and reality.

B. *A serious shortage of rural schools with modern teaching resources.*

Information technology facilities in rural schools can not meet the actual popularity of IT education needs, and even some urban non-teaching resources focused on school there this phenomenon. Resources and equipment in rural primary and secondary schools there are three modes, the first model of the school, because there is no computer environment can only enrich and improve the use of traditional teaching and learning CD-ROM, can not carry out IT education; second model schools, only one computer, it can not carry out IT education and information technology and curriculum integration activities; third model schools, and some have only one computer classroom, still can not meet the requirements of the popularity of IT national regulations. Most schools in rural schools have not yet connected to the Internet, or access to low-bandwidth access to the Internet, can not support a large number of students simultaneously access the Internet, the interface bandwidth to be upgraded.

C. Sustainable Rural Development Mechanism educational information construction has not yet formed.

Due to various factors such as the condition of rural schools is also difficult to effectively use information technology platform to the actual teaching process, or just after the use of a certain time, no way to get updated teaching resources, resulting in idle post information platform devices. Purchase and use of information technology education equipment, even with the support of the relevant education departments, but because of the management system is not perfect, the information for educational facilities and equipment maintenance and updating exist lacking. For example, many of the schools, although the purchase of equipment and the establishment of a multi-media classrooms, but the lack of updates, the construction of information technology in education for sustainable development are not routine maintenance, will inevitably affect the balanced development of urban and rural education.

III. STRATEGIES TO PROMOTE THE BALANCED URBAN AND RURAL EDUCATION DEVELOPMENT IN THE EDUCATION INFORMATION CONSTRUCTION

A. Purposeful investment in education to rural and other remote mountainous areas.

Through the government's macro-control, the next period of time to further develop educational information platform construction plans, increase funding rural education facilities and equipment investment and construction, and the establishment of special education funding regulatory authorities in rural areas to ensure sustained and stable investment in education Adequate put into use, give full play to the guiding role of the State in improving rural education conditions. In consolidating the results achieved on the basis of relying on the state to improve teaching conditions and education information construction in rural education requirements, and gradually improve the teaching environment. According to the actual situation in the region, to develop implementation plans to adapt to the local government should be given adequate financial and policy support. For example: the situation of county district building information technology environment in Meizhou City is shown in Table 1.

TABLE I. THE SITUATION OF COUNTY DISTRICT BUILDING INFORMATION TECHNOLOGY ENVIRONMENT

| Area | Input(USD) | Computer | Multimedia classroom .etc |
|-----------|------------|----------|---------------------------|
| Xing Ning | 6500 | 2615 | 283 |
| Mei Jiang | 1441 | 1207 | 226 |
| Jiao Ling | 1400 | 1169 | 185 |
| Feng Shun | 3500 | 1873 | 257 |
| Da Bu | 1260 | 1248 | 179 |

B. Improve teaching resource structure, the establishment of long-term mechanism of teaching resources.

Innovate, develop new curriculum materials and teaching resources to adapt, in the next few years, the pace of information technology education should be further accelerated, IT will become teachers and classroom teaching methods and tools, in the current situation, showing the diversity of forms of teaching resources, the state should set the scientific standard of teaching resources, teaching resources so as to avoid flooding, making the rural primary and secondary obstacles in the choice of teaching resources, but also to constantly improve the financial security system of teaching resources, teaching resources is the need to constantly update, update teaching resources to eliminate obstacles rural various negative factors, improving promote rural information construction work.

C. Establish and improve information technology education platform for sustainable development and use of mechanisms.

To integrate the relevant elements of the local government departments to strengthen the information technology platform for building rural education planning and management, to develop a long-term education in rural primary and secondary information policies and practices, building long-term, rational and practical education information structure. By the government's macro scheduling and funding guarantee, will only pay attention to avoid the purchase of hardware, software, equipment and teachers do not attach importance to team building phenomenon. According to the construction information platform needed to ensure that funding is a top priority, to ensure that the proportion of education funds invested in the information platform construction, establish and improve information technology assessment system, strengthen the platform construction quality and progress assessment, and improve monitoring systems engineering work with a management model information platform to facilitate local government and educational institutions as well as the relevant school information together to build a practical education platform. Rural information platform construction project for rural children is an innovative, IT education in rural areas as a child to see the outside world, to learn advanced cultural bridge, digital educational resources so that children at home in rural and urban children enjoy the same quality education resources possible. We can say that the establishment of information technology education platform of the liberation of the mode of education in rural areas, of course, to promote information technology education is a long-term task is to build a platform first, followed by the introduction and application of high-quality educational resources, again, is to maintain the platform system and updated. Whether the government and relevant departments or specific to each school to use the platform, are applied strategic vision to look at the problem, we aim to use the platform to a balanced education gap between urban and rural areas, so that only we attach importance to the use of information technology, effectively play its important role in the information society and actively explore new teaching

models and mechanisms, and improve rural education environment and conditions, establish a rational and effective management mechanism to ensure that the construction of information technology education system is not a mere formality, in order to truly benefit the rural education.

D. Strengthen regional information platform construction, to achieve regional school network.

Building information network platform, is the current social environment, an important way to school, family access to educational information and learning resources for education has an important role in promoting balanced. In the process of promoting balanced regional development of education in urban and rural areas, according to the principle of "applied research leading to applications driven by construction", willing to invest money to build education MAN, to achieve local schools connected to the Internet by metropolitan center for local rural school education resource sharing to provide fast and convenient platform. MAN Department of Education through education portals, school websites, e-government systems, schools comprehensive quality evaluation system, run interactive teaching system platform, prompting local urban and rural schools teaching the integration of resources, so that rapid growth of suburban schools, rural schools synchronous development. Urban and rural areas "bundling" school through remote interactive teaching system, the quality class of resource utilization MAN interactive real-time transmission to the remote classroom display, both tied school students can receive quality education, synchronous learning, synchronous question, truly rural interactive teaching schools, promote the balanced development of urban and rural education.

E. Accelerate the construction of resource library of educational information.

Information Platform is the foundation of education, resource sharing is the key update, if only platform not have the resources to update and resource sharing post, then the platform would not be sustainable utilization. For now, China's rural education platform for building information is not universal, even if it is difficult to build a platform update proud to use, this phenomenon is a serious impediment to the construction and development of information technology education in rural areas, in future work, we Education should focus on building the repository of existing educational resources for storage, build more schools teaching resource sharing among multiple regions, making the rural educational resources between schools really play the role of a balanced education differences.

F. Balanced development of education, the key lies in the balanced development of teachers.

Due to practical reasons such as the impact of China's economic development, long time, China's economic and educational development of urban and rural areas will exhibit a relatively imbalance between urban and rural school teachers, there are differences in the use of cultural backgrounds, learning and teaching platform, many of the differences between urban and rural areas makes Teachers there are differences in teaching philosophy, teaching level of specialization, but the level of professionalism of

teachers directly affect the effective teaching and scientific activities, and in practice, often more than a teacher to assume the task of teaching the teachers, This leads to an increase in the workload of teachers, especially in rural teachers, as well as rural school teachers with a relative lack of teaching resources, teachers' workload will be greater, so there is no extra time to enhance the cultural quality of the self and teaching level of specialization, there is no opportunity to discuss outside the school teaching experience and advanced learning teachers, not learned new teaching ideas and opportunities for training, there are many other reasons for restricting the promotion in the professional quality of rural teachers quality of teaching to enhance the school's naturally slow. Information technology education we now strongly advocated building a platform for the majority of rural areas and remote mountainous areas, the adoption of building information platform, but given the opportunity to make rural teachers teacher exchanges with the outside world to learn, improve quality, thereby improving the quality of teaching, but also help more rural children to better understand the outside world and the most advanced cultural knowledge, like the right to education and access to the city peers, and teachers enjoy the IT development has brought us convenience together, and gradually catch up the pace of development in the budgets at all levels of government should increase education funding, especially for capital investment in rural education, education and technical training should establish special funds for rural teachers, rural teachers make teaching ability to adapt as quickly as possible needs of social development, in close connection with the local actual situation, plan and implement a viable teaching training programs focus on training teachers' ability to use faith-based, modern teaching concepts and new curriculum standards of teaching ability, no matter what kind of training methods, should not be contrary to local conditions, so as to avoid the phenomenon of training formality. For a balanced development of urban and rural education, we should not only look on how information technology with high-tech equipment, but it is important to pay attention to the quality of training of rural teachers, in order to truly meet the development trend of modern information education, we want to rely on government policy, vigorously implement the strategy of strong division in efforts to enhance the quality of teachers together, innovative models to enhance the quality of teachers, growing rural school teachers, to promote urban and rural education teachers with equalization, take a variety of means, so that the quality of teachers and rural zero difference.

The quality of teachers affects the balanced development of educational resources. Affected the level of urban and rural economic development, there is a big difference in the overall quality of rural education system teachers. Although in the context of higher education continues to promote the overall level of teachers has improved, but we can also see excellent teacher resources are still focused on some of the more developed cities, the overall quality of teachers in remote rural poor level. In some rural areas, teachers' understanding and application of information technology, some cognitive bias exists, and the lack of ability to operate to a large extent affected the

overall level of educational resources utilization. Furthermore, in terms of the overall quality of teachers, some teachers only mastered the expertise to students and other students of psychology, such as the lack of comprehensive application knowledge necessary to understand and communicate with each other, making its wealth of teaching resources can not be resolved and the combination use, reducing the overall efficiency of educational resources, leading to problems of educational resources balanced development.

IV. CONCLUSION

In order to enhance teachers' IT application ability to achieve balanced development of urban and rural education, we should vigorously carry out information technology, network application as a hub, to accelerate the modernization of IT equipment configuration, and gradually focus on promoting the application of information technology. Of course, the use of IT to promote the balanced development of urban and rural education building not half will be able to achieve, it is a dynamic system process, it is a long-term task that must be scientifically standardized information technology education. Implementation of education information construction, without government support, is also inseparable from each individual to participate in society, in order to allow more rural children to enjoy the city like a child teaching resources, in order to allow more rural children to enjoy to equal employment opportunities, we need multi-pronged approach, and jointly promote the

balanced development of urban and rural education, to ensure fair and equitable education system in our country.

REFERENCES

- [1] Chen-li, Chen-Meiling. Effective ways to promote the use of modern IT balanced development of urban and rural education . Modern Distance Education Magazine.2007(03)
- [2] Wang-Zhuzhu, Chen-li. Strengthen education, information technology, and promote the balanced development of urban and rural education . Computer Knowledge and Technology.2011 (02)
- [3] TPACK knowledge Jiao Jianli, teachers, Chinese information technology education, May 2014
- [4] Jiao Jianli, the characteristics of good teachers in the 21st century, China IT Education, September 2014
- [5] Progress Jiao Jianli, mobile learning applications and research, China Education Network, June 2013.
- [6] Chi Wing Chung, college students information literacy local colleges to explore ways and means, Higher exploration, in July 2011.
- [7] Chi Wing Chung, micro video overview of the application of the status quo and Commentary, Software Guide, June 2014.
- [8] Dodd oak, on the ability to set the level of teaching level thinking, educational theory and practice, in January 2013
- [9] Dodd oak, "supplementary dependency syndrome" of culture and its hazards, teaching and management, May 2012
- [10] Huang Zhiqiang, based on WEB "normal skills" Teaching and Training Mode and practice of architecture, Jiaying University, September 2012
- [11] Pan Wentao, educational theory and practice of the relationship between the two, Chifeng College, April 2014.
- [12] Huang Zhiqiang, midstream remote network Educational Media Research technology, primary and secondary audio-visual, in July 2012