

## The Path of Educational Development in the Perspective of Supply Side Reform

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**Abstract.** Five development concepts, including innovation, coordination, green, open, sharing, are proposed on the party's the fifth Plenary Session of the 18th CPC Central Conference. Central finance and economics leading group proposed to focus on strengthening the supply side structural reforms, to improve the quality and efficiency of the supply system, and to promote the level of social productivity in China to achieve the overall leap. In under the guidance of the five concepts, the supply side reforms of education need to adhere to innovation and development, harmonious development, green development, open development, share development. path with education total factor and whole development path to promote state of the overall layout of the five in one comprehensive building.

### Introduction

Supply side reform is to improve the quality of supply, to promote structural adjustment with the reform of the way, to correct elements distortion, and to better meet the needs of the masses of the people. Supply side reforms in the field of education can not only improve the quality, efficiency and innovation of education supply but also meet the needs of the development of students' individuality and alignment of the future society. It will broaden education supply structure and provide rich, diverse, choice of educational resources, education environment and service mode for students. Promoting the reform of the supply side of education needs to adhere to the five major development ideas, that is, promoting the innovation and development of education, coordinating development, green development, open development, and sharing development.

### Promote the development of educational innovation

Innovation and development is the key driving factors of economic structure to realize the strategic adjustment and basic support and critical drive of the realization of the overall layout of the "five in one" comprehensive development. To adhere to innovation and development, we have to consider cultivating innovative talents as the basic aim and meaning of education's development. Through the education theory innovation, development pattern innovation and the allocation of educational resources innovation, we should optimize the allocation of educational elements; cultivate new impetus to the development of education, stimulate the vitality of education innovation, release the new demand for education, and create new educational supply.

**Innovation of institutional mechanisms for the development of education.** Institutional mechanism is the fundamental guarantee of educational innovation. To innovate the mode of education governance, we should build the mechanism in which governments implement co-ordinate to education management; schools develop education by legal; the third party participate in education supervision and evaluation of the management system. We should promote the division among governance, education and supervision. Government should further transform functions to play dominant position in educational decision-making and its education policy and education supervision function, reduce the

micro intervention of administrative departments of education to all types of schools, implement the autonomy of operating a school, strengthen the construction of the modern school system, promote the school to operate by law, independent management, democratic supervision and social participation. Vigorously cultivate and play a good role of social intermediary institutions, and actively introduce the third party to participate in educational evaluation. We should strengthen the construction of system and mechanism in the development of other educational reform, and provide institutional guarantee and policy support for the development of education reform.

**Innovation of education development supply model.** We should adjust the structure of education investment, optimize the education investment channels. We not only emphasizes the responsibility of government public finance to education, but also actively attract and constantly expand the private capital, social capital into the field of education. We should reform the structure of national education expenditure, appropriately reduce the proportion of higher education expenditure, and improve the share of pre-school, compulsory education and high school education expenditure. Pre-school education should be referential expanded. Basic education should be focused on. We should realize the equalization of educational resources allocation to narrow the gap between urban and rural areas and among different regions, schools and groups.

**Innovation of education development mode.** We should conform to the needs of the development of education through scientific education allocation of production factors, adhering to both scale and quality, paying attention to the development of the connotation and extension, a variety of patterns including the integration of urban and rural development, regional group development, and cooperative development between school and enterprise. We should reach the integration of political function, economic function, cultural function of education and personal development function. We should realize the organic convergence of level structure of education including secondary and higher education; the coordinated development of category structure including education, education, training and certificate; the organic coordination of shape structure of education including school, family and society. The reform of school operating mode should be deepen, by adopting a variety of modes of “strong school plus weak school”, “elite plus the new school”, to further promote the region associated schools, different regions to build education group. We should deepen the reform of education evaluation system, break the old and scores-first educational model, and promote the development of students' personality and school characteristics.

**Innovative of allocation of educational elements.** In the allocation of educational resources, we should adhere to revitalize the stock resources of education, expand the incremental resources of education, optimize the existing resources of education, and release the potential resources of education. We should mainly make an inventory of the existing land and school buildings, and actively resolve the contradiction between the shortage of school buildings and the coexistence of idle. We should optimize the allocation of school education and teaching and improve the school hardware level. Government should play the role of education investment and put the cost of education in the most needed and the most effective place to enhance the use of educational funds. We should properly solve the problems about teacher preparation total overstaffed but structural shortage, actively attract excellent talents, stimulate the potential of teachers, and release the vitality of teachers overall.

**Cultivation of innovative talents.** To set up the view of scientific education ( fig.1 ) To strengthen the cultivation of students' innovative consciousness and innovative ability and protect students' curiosity, we should let the student develop the habits of asking and give each student the greatest development space according to the individual differences of students to help each student to find their own strengths and advantages, so that they will become the best of their own. Help students to establish self-confidence, to encourage students to challenge the unknown world and their potential, to enjoy the victory over the difficulties and overcome the success and joy of selves. To cultivate students' tenacity quality, we should let the students learn to deal with difficulties bravely and never giving up.

## Promoting the coordinated development of Education

Coordinated development is a powerful guarantee to improve the overall effectiveness and the overall progress. Insist on coordinated development, we must firmly grasp the overall layout of education development, firmly grasp the structure system of education, broaden the development space in key areas, strengthen development potential in weak areas, promote connection and synchronous

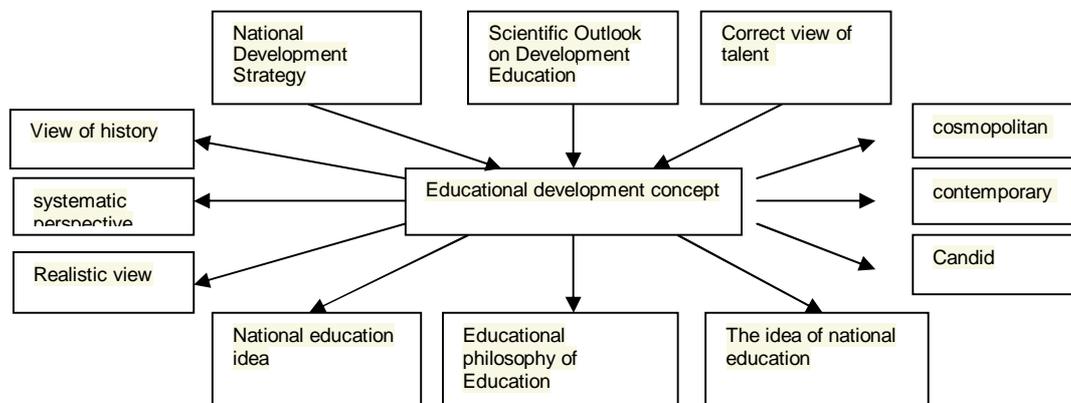


Fig1. view of scientific education safety development

development of education system, enhance the comprehensive strength of education development, upgrade the overall level of educational development.

**To speed up the popularization of pre-school education and to strengthen the high school education.** Play the main role of local government in the development of pre-school education, expand public preschool education resources, and improve the proportion of inclusive kindergarten. Reform cost sharing of pre-school education and the security mechanism of operation. We should emphasize rural pre-school education and establish operating system including government-led, social participation, public plus private. To strengthen the connotation construction of high school, promote the reform of college entrance examination system, improve the teaching mode, strengthen curriculum management, expand the quality of resources, and promote the development of diversification and the characteristics of ordinary high school,

**Efforts to promote the balanced development of the high level of compulsory education.** The balanced development of compulsory education is the prerequisite and foundation for the maintenance of educational equity. Equilibrium means the transformation of weak school, so we should focus on the vigorously improvement of conditions of weak schools in suburb and the rural area. At the same time we should strengthen the connotation construction of the school, improve the level of teaching and management, push weak schools to the ascent of the whole level through school alliance, group of schools, helping their counterparts each other, and then promote balanced development with high-quality resources sharing.

**The development of modern vocational education in a more prominent position.** China's secondary vocational education lags behind, that is, the development of vocational education space and demand are fast, but the supply is very low. To matter with our country economic restructuring and strategic upgrade, we should scientifically plan layout of career education according to economic transformation and industrial restructuring, adjustment and optimization of professional settings in vocational colleges, promote the deep combination of production and teaching and the deep cooperation between school and enterprise, to form the joint of government, enterprises, social capital to promote the development of modern vocational education together. We should adhere to the multiple, special, brand-oriented development and promote the development of Vocational Education. The establishment of vocational education group will promote the coordinated development of Vocational Education with the integration of production and education, school enterprise cooperation. Accelerate the construction system of modern vocational education, and enhance the attractiveness of Vocational education.

**To optimize the structure of higher education.** China's higher education has entered the stage of the general public, but the expansion of its scale has not brought about the improvement of the quality, output, efficiency and efficiency of education. The proportion of the first industry in China is gradually reduced, but the science and technology in the production is continuously improved. The proportion of the third industry increases gradually and the overall trend of high technology industry in the information technology industry and the information consulting got the rapid development as intelligent service industry. China's higher education should adapt to the needs of industrial development to adjust the structure of higher education, learning from the experience of the structure adjustment of higher education in developed countries after World War II. Education should be expand upward and downward in the hierarchy structure; encourage the coexistence of practical application university and research university in type structure; adhere to complementary of formal education and informal education in the form structure; focus on the center city and the rural areas at same time in the layout structure.

Vigorously develop local and community college. We should not only focus on cultivating millions of skilled talents adapted to the requirements of modern industrial and agricultural production, but also pay attention to graduate education and the construction of a number of world-class universities they cultivated large amount of top-notch talent to meet the information society challenges. From the national perspective, we must strictly control the merger and upgrade of specialized colleges and universities; colleges and universities should be based on the connotation of development, to find the distinctive features and characteristics in their professional field; in terms of professional disciplines, colleges and universities with good conditions should accelerate the development of a number of new disciplines about high technology, general colleges and universities should take the initiative to adapt to the talent market structure changes, speed up the development of strong practical majors to meet the socio-economic development demand. The lifelong education system should be formed quickly in that various schools will be complement including general higher education, vocational higher education and adult higher education, academic education and non-academic education, full-time education and spare-time education, school education and social education, and public and private forces will be combined.

**To strengthen community education and education for the elderly.** Conform to the historical trend of lifelong education, and popularization of higher education and personal learning trend of lifelong, we should strongly operate community college education. Vocational schools will be encouraged to actively undertake community education and training tasks. We should construct public resources platform for community education, to carry out multi-level, multi content and forms of education and training activities meet the learning needs of diverse community residents and elderly people, promoting the learning type city construction. We also strengthen the construction of the elderly, and constantly expand the scale of the elderly university, to provide more colorful life for the elderly.

### **To promote green development of education**

Green development is the historical choice to realize the development of production, affluent life and good ecological civilization. It is the only way to the harmony between man and nature. Adhere to green development, it is necessary to adjust and optimize the layout of educational space, orderly use of educational resources, and promote scientific and rational, healthy and orderly development of education. We should be based on scientific concept of talent and totally implement quality education to ensure the healthy and all-round development of students.

**To adjust and optimize the layout of education.** According to the overall layout of the national development strategy and many other factors such as urbanization, the establishment of new area, full implementation of the two child policy and the aging population increasing, we should scientifically plan the layout of primary and middle school; make the simultaneous developing and appropriate advance of the education planning for urban development. New construction should be

synchronized with the scientific planning to maximum meeting the school needs of the new city. The distribution of county education should consider the process of urbanization and the demand of new rural construction, and promote the equal exchange of urban and rural educational elements, rational allocation and equalization of basic public services.

**Intensive and efficient use of educational resources.** We should overall allocate educational resources and promote the unification of education scale and layout, structure and efficiency. The existing school resources should be optimized the reorganization while the old city should take full advantage of shantytowns projects to increase the use of school buildings. We should integrate and optimize the existing educational resources, to make good use of the original patriotism education base, to intensively develop and utilize new educational resources. We also should integrate educational elements, to continue to implement, improve and promote the elite group, suburban schools alliance, and rural school education alliance, to promote the exchange of principals and teachers in the region, and to improve the efficient use of educational resources. To establish standards for primary and secondary schools, scientifically determine the size, quality and standards of the construction of primary and secondary schools, strengthen the basic construction of primary and secondary schools, and improve the conditions for operating schools. Strengthen school management and improve the use efficiency. Strengthen the management of internal assets and make an inventory of the existing resources of education.

**Comprehensive and in-depth implementation of quality education.** Adhere to the education oriented and moral education for the first, we should mix the socialist core values, the Chinese traditional culture and the rule of law education into the whole process of national education. Deepen curriculum reform, improve the quality of classroom teaching, and lighten the students' burden. Strengthen the aesthetic education, physical education and mental health education, to ensure the physical and mental health development of students. Firmly establish the idea of health first and strengthen the sports work, to ensure those students' physical education courses and extracurricular activities, and enhance the health of students. Strengthen aesthetic education to cultivate students' aesthetic consciousness and aesthetic taste. Strengthen mental health education to guide students to do positive children. At last, we should promote the physical and mental health, strong willed, all-round development of students.

### **To promote the opening development of education**

Open development is an inevitable requirement to expand the space of economic development and promote the development level of open economy. Adhere to the open development, we must comply with the trend of our country merged into the world to pursue the mutually beneficial and win-win strategy of opening up that help China develop a higher level of the open economy and actively participate in global economic governance and public goods supply, take efforts to promote diversification, internationalization and modernization of education, and enhance the discourse power and influence of Chinese education in global governance.

**To accelerate the opening up of the education market.** We should promote the overall opening of the education market, the full use of social capital and foreign capital development education, to bigger and stronger private education space. Reduce the access threshold of social capital to do vocational education, relax the school market access, and implement non-profit and for-profit classification management from private schools. We also should explore the "mixed ownership" in the field of vocational education and higher education", increase social forces to hold education policy support, and consider private education and public education equally. Original education market will be pushed by the private education.

**To accelerate the process of internationalization of education.** After the World War II, internationalization has become an important factor in promoting the development of education in the world. The internationalization of education is a comprehensive internationalization of concept, system, mechanism and content. To perfect the system of open education and expand international perspective,

we should introduce international education resources, expand educational exchanges with foreign countries, and carry out multi-level and wide-ranging education international exchange and cooperation, to build a new pattern of education opening to the outside world and exchanges and cooperation. Strengthen professional exchange all the fields of education, vigorously develop foreign exchanges and cooperation, improve the base infrastructure construction for exchange student, strengthen the support for language teaching and research, promote exchange and learning among the international teachers exchanged, and expand international school network and scale. Continue to expand and operate the school to receive foreign students, to provide education services for foreign students. Introduce international quality education resources, to develop international understanding education, to cultivate students' international vision, and to promote the international standard of education.

**To accelerate the promotion of educational information.** We should implement of the action plan "Internet plus education ", promote the combination of the mobile Internet and modern education, strengthen the construction of informatization of basic education, construct education cloud platform, strengthen the planning of education information resources, increase the integration of resources, and strengthen the construction of network teaching resources system. We also should introduce domestic and international high-quality digital teaching resources, integrate existing resources and expand new courses of network learning, build an open, flexible service public platform of educational resources, establish sharing mechanism of high-quality education resources, and promote the sharing of high-quality educational resources.

**Open education space.** In the mode of modern educational development, the opening of educational activities has a very rich connotation, which is the socialization, networking and internationalization of school education. A number of community colleges, network universities and other new schools will rise. School is cultural resources no longer just for a few designated members enjoyed, but has the responsibility to put their tentacles into around the school, even as far as the broader community to become the center of the community culture, to undertake the task of reformation and development of community and quality improving of the members of the community. The opening of the school is not only to remove the wall and get the space to expand the form, but also it is out of the closed "ivory tower" and into the community, into the community. At the same time, it also realizes the education object of the whole people.

### **To promote the sharing development of education**

Sharing development is an inevitable choice for our party to insist on serving the people heart and soul. To share the development, we must adhere to the development for the people, by the people and sharing the fruits of development by the people, make more effective institutional arrangements, enhance motive force of the development, and enhance the unity of the people, towards the direction of common prosperity steadily. We must pay attention to the needs of the people, to promote the balanced development of compulsory education, continues to expand high-quality educational resources, focus on the education of vulnerable groups, so that all the people have more of a sense of sharing in the development of education.

**To adjust the structure of education investment.** Now Chinese per capita education funds spent in eastern region has been higher than in the central, Western and national average level and it is consistently higher in the western region than central region. The gap of the total funds among some provinces also is highlighted. The central government should balance the total investment of education and total education funds per student among various regions, to ensure that citizens have equal access and rights to basic education opportunities. We should provide tilt in the allocation of funding for education, enrollment, discipline construction for the provincial colleges and universities in undeveloped areas. Local governments should focus on the development of rural education in the region; increase the support on rural education in school facilities, teachers and other aspects, to promote educational equity.

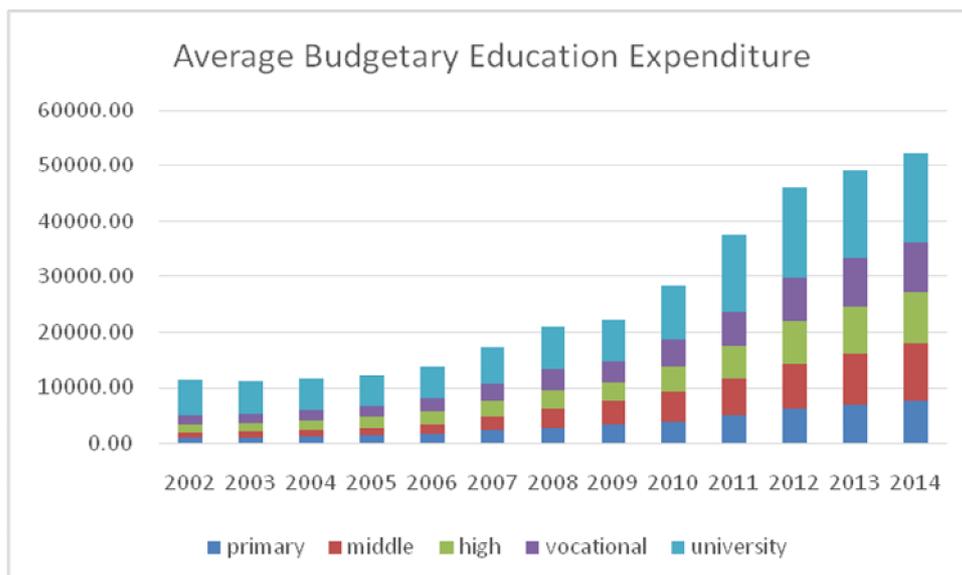


Table 1: All levels of All kinds of education in the average budget of per student education expenditure

**To promote education equity.** It is necessary to actively promote the construction of compulsory education standardized school. Through a variety of ways, such as leading weak school by high school, reforming the weak school, collectivization, learning community, teacher exchange rotation, we should balance allocation of education resources, take efforts to promote the balanced development of compulsory education. Actively do a good job about the children's education for foreigners, talent introduced and migrant workers, so that make this group to better integrate into the city to enjoy the treatment. We also should implement education policies to benefit the poor families and to achieve the full coverage of needy students. Strengthen special education, increase investment in special education, to help children with disabilities to fully develop and better integrate into the community. Concerned about the rural left behind children, urban special families and other community education, and strive to provide a fair starting line for each child.

## Conclusions

Conclusion , the supply side reforms of education need to adhere to innovation and development, harmonious development, green development, open development, share development , To adhere to innovation and development, to adjust the structure of education investment, optimize the education investment channels. We should conform to the needs of the development of education through scientific education allocation of production factors, adhering to both scale and quality, paying attention to the development of the connotation and extension, a variety of patterns including the integration of urban and rural development, regional group development, and cooperative development between school and enterprise. adhere to revitalize the stock resources of education, expand the incremental resources of education, optimize the existing resources of education, and release the potential resources of education. In the allocation of educational resources, we should adhere to revitalize the stock resources of education, expand the incremental resources of education. Insist on coordinated development, we must firmly grasp the overall layout of education development, firmly grasp the structure system of education. Adhere to green development, it is necessary to adjust and optimize the layout of educational space, orderly use of educational resources, and promote scientific and rational, healthy and orderly development of education. Adhere to the open development, we must take efforts to promote diversification, internationalization and modernization of education, and enhance the discourse power and influence of Chinese education in global governance. To share the development, we should pay attention to t promote the balanced development of compulsory education, continues to expand high-quality educational resources, focus on the education of vulnerable groups, so that all the people have more of a sense of sharing in the development of education.

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