

Exploration of Innovative Paths for Disability-Assistance Social Work in the Context of New Productive Forces

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Abstract: Today, the application scenarios of the Internet and information technology in the construction of barrier-free environments are constantly expanding. Aging-friendly smart devices bring high-quality life experiences to many elderly people. Barrier-free urban governance systems use intelligent hardware and software to provide more convenient and inclusive services for people in need. Visually and hearing-impaired users watching movies and listening to music on mobile phones have also become a reality from imagination. Technology is changing people's lifestyles, promoting the transformation of social disability-assistance work from hardware to intelligence and digitization. While helping people with disabilities access information, it also draws them back into social life, striving to practice the social development goal of "no one left behind."

Keywords: New productive forces; Disability-assistance social work; Innovative paths

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1. Feasibility of innovative development of disability-assistance social work under new productive forces

1.1. New productive forces provide new opportunities for the high-quality development of disability-assistance social work

New productive forces are not only a hot topic but also a key task that must be done well for high-quality development. They involve technological progress and industrial upgrading, as well as how people can break through a series of "bottlenecks" imposed by Western countries, and how to rely on our own technological development to expand domestic demand, upgrade consumption levels, and thus promote more sound economic development^[1-2]. In this process, whether it is technology-based disability assistance, various service formats for disabled people, including the development of new jobs for disabled people, are all closely related to the development of the cause of disabled people.

The core of new productive forces is to improve and upgrade existing industries, especially some traditional industries, through technological progress, and to increase the technological content in all aspects of labor productivity and people's quality of life through scientific and technological innovation. Now, intelligent products have been widely used in our work and life, especially in technology-based disability assistance. People have seen the hope brought by various high-tech means to the ability reconstruction and functional restoration of disabled people, such as the surprises brought by iFlytek's related achievements to the information exchange of hearing-impaired people, and the real scenes where exoskeleton devices allow paraplegic patients to stand up. These are themselves the concerns of people's livelihood realized under the promotion of new productive forces.

1.2. New productive forces inject new momentum into the efficient empowerment of disability-assistance social work

The China Disabled Persons' Federation is stepping up efforts to promote a new round of technology-based disability assistance actions, hoping that in the present and future of technological progress, industrial upgrading, and accelerated digital development, the assistive devices used by the majority of disabled people will be more technologically advanced, intelligent, and convenient, and at the same time, affordable and easy to use ^[3]. It is hoped that all sectors of society, especially technology enterprises, in the process of further researching and promoting new productive forces, can pay more attention to and attach importance to the special difficulties and urgent integration needs of disabled people, and with the help of technological progress and the improvement of new productive forces, gradually improve the cause of disabled people from management to services.

In 2023, the key special project "Science and Technology Response to Active Health and Population Aging" of the National Key R&D Program was organized and implemented, developing high-tech assistive products such as rehabilitation robots and intelligent artificial joints, providing scientific and technological support for improving the quality of life of disabled people, making human-machine integration no longer just in movies. During the 4th Asian Para Games in Hangzhou, torchbearer Cai Qionghui carried the torch under the guidance of an intelligent guide dog, and Xu Jialing lit the main torch at the opening ceremony through brainwave control; the popularity of AI has empowered thousands of industries, and a large number of disabled people have realized their dreams "in the cloud" through e-commerce, live streaming, data annotation, network information security, etc. With the dual support of "sense of technology" and "sense of humanity", new productive forces will play a greater role, and technology-based disability assistance will enter more "ordinary people's homes" ^[4].

1.3. New productive forces add new support for the high-level transformation of disability-assistance social work

China's economy is showing a good momentum of steady recovery, and fiscal policies have been moderately increased, providing strong support for ensuring and improving people's livelihood. Financial departments at all levels should further strengthen the protection of disabled people and other vulnerable groups, and strengthen the basic livelihood security function. At the same time, all sectors of society should actively create an inclusive and equal social environment, support disabled people to widely participate in social life, and promote them to share the fruits of economic and social development ^[5]. The construction of Rehabilitation University urgently needs to be accelerated. As a leading force in the industry, it will promote scientific and technological innovation and achievement transformation in the field of disabled people's services, and drive the improvement of the quality and efficiency of the training of rehabilitation and other related professionals. In terms of coordinated regional

development, people should coordinate the balanced development of the cause of disabled people between urban and rural areas and regions. Taking the opportunity of the rural revitalization strategy, people should strive to make up for the shortcomings of services for rural disabled people; relying on major national regional development strategies such as the Beijing-Tianjin-Hebei region, the Yangtze River Delta, and the Guangdong-Hong Kong-Macau Greater Bay Area, people should promote the construction of cooperation mechanisms for disabled people's services, and give play to the regional synergy effect and demonstration role. At the same time, in the process of cross-strait integration and development, people should strengthen exchanges and cooperation in the field of disabled people to promote emotional connection and integrated development ^[6].

Employment and entrepreneurship support is an important path to realizing common prosperity for disabled people. It is necessary to continue to deepen the "Three-Year Action Plan for Promoting Employment of Disabled People", promote special plans such as "Beautiful Workshops" and employment assistance for rural disabled people, expand employment channels, improve employment quality, and help more disabled people achieve a decent life through labor ^[7]. At present, China has initially built a care service system for disabled people in rehabilitation, education, employment, care, culture, sports, etc., but it is still necessary to continuously optimize service supply capacity and service quality. People should focus on promoting the development of medical rehabilitation, improving the education level of disabled people, accelerating the legal construction of barrier-free environments, and effectively improving the quality of life and self-development ability of disabled people ^[8].

2. Innovative practice paths of disability-assistance social work in the context of new productive forces

2.1. Cultivating high-quality social work talent teams

A high-quality social work talent team is the core supporting force for the high-quality development of social work. To promote the high-quality development of social work, people must build a high-quality professional team with firm politics, exquisite business, strong work style, and dedication to serving the people, form an echelon of social workers with reasonable structure and excellent quality, and at the same time continue to expand the volunteer service force to build a multi-level and wide-coverage talent system ^[9].

In terms of talent training, people should pay attention to improving ideological and political literacy, strengthening professional ethics construction and awareness of serving the people, and enhancing the ability to solve practical problems. The training content should cover multi-dimensional skills such as policy understanding, mass work methods, organizational coordination ability, and law-based governance to comprehensively improve the performance of social workers. For special fields such as disability assistance, people should further improve the professional qualification certification system, strengthen practical ability building, improve management systems, and enhance the enthusiasm and stability of practitioners through incentive mechanisms. The construction of the volunteer service system is also crucial. It is necessary to build a participation mobilization mechanism, a service supply network for precise demand docking, and an efficient and orderly organization and management system. Expand social mobilization methods through diversified channels, and continuously improve the professional level and social influence of volunteer services.

On the basis of practice, people should continuously optimize the education and training system to improve the overall quality and professional ability of social work talents ^[10]. Encourage qualified colleges and universities and research institutions to set up "New Era Social Work Research Bases" to promote the deep integration of

theoretical innovation and practical exploration, and strive to build them into important platforms for social work research. Modern scientific and technological means should be actively integrated into the development process of social work. With the help of big data, artificial intelligence, and other technical tools, service efficiency and management level should be improved. Strengthen cooperation with enterprises, industry associations, and other entities, carry out diversified practical training and project linkage, and broaden the development path of social work^[11].

Establish a dynamic evaluation mechanism, regularly evaluate the performance of the “New Era Social Work Research Bases”, timely summarize experience, optimize the construction plan, ensure their sustainable and healthy development, and produce results with practical value and academic influence. Cultivating social work leading talents with strategic vision and leadership ability is a key link to promoting industry progress. Such talents should have strong organizational management ability, be able to lead the team to efficiently implement social service projects, uphold a high sense of professional ethics and social responsibility, play a demonstration and leading role, and comprehensively improve the service quality and professional level of social work.

2.2. Building a high-level digital and intelligent disability-assistance service system

With the accelerated development of digital technology, a barrier-free soft environment has gradually become the focus of barrier-free environment construction in many cities. Many local disabled persons’ federations use information technology to improve service methods and form digital and intelligent service systems in order to fully understand the information of disabled people and better serve them. Nowadays, barrier-free design in smart cities is extending from infrastructure to service experience. Online sign language broadcasting services, information synchronous translation systems, barrier-free self-service machines, etc., are also making government services more humanized^[12].

For example, Hangzhou, Zhejiang Province, which has the first-mover advantage in the digital economy, took the lead in launching a full-life-cycle digital and intelligent disability-assistance service system in China in 2021 to promote the digital reform of the cause of disabled people. The Hangzhou Disabled Persons’ Federation has digitized the complex business processes of many disability-related service items such as “assistive device adaptation”, “policy inquiry”, and “employment management” by building the “Disability-Assistance E-Station” platform, making various information and resources needed by disabled people for rehabilitation, employment, cultural services, etc. clear at a glance^[13]. First is the one-stop principle. Relying on the two digital infrastructure projects of the Hangzhou Disabled Persons’ Federation’s data center and service center, the development of the Disability-Assistance E-Station adheres to the principle of one-stop service and openly integrates all application systems built by different levels and companies. Through technical configuration, effective unified management of the service objects, service standards, and service specifications of each service item is carried out to realize one-stop service handling in all business fields of the cause of disabled people. Second is the easy operation principle. Data runs more, people run less; technology solves problems, and work efficiency is improved. The complex business processes of various disability-related service items are digitized, endowing the Disability-Assistance E-Station with both rich functions and convenient operation, so that every staff member can carry out disability-assistance services in all business fields with simple clicks, breaking through the problems that restrict service effectiveness such as inaccurate policy grasp, unskilled business handling, and non-standard service processes caused by “thousands of lines above, one needle below.” Finally, the mobile handling principle. The Disability-Assistance E-Station can not only carry out work at fixed service windows but also provide various disability-

assistance services for disabled people through mobile terminals anytime and anywhere, enabling every disability worker in the city to become an agent and acceptor of disabled people's service needs, which is especially suitable for full-time committee members of village and community disabled persons' associations. It can be handled at window shifts, during home visits, and even when encountered on the road.

From policy support to the construction of a full-chain service system, the intelligent transformation of urban barrier-free environment construction is connected to the improvement of public service levels on the one hand, and closely focuses on the core needs of people's well-being on the other hand, ensuring that every citizen can enjoy social resources equally and conveniently.

2.3. Creating high-quality new forms of disability-assistance social work

With the rapid development of information science, artificial intelligence, life science, and other disciplines, barrier-free products, services, and technical support have made key breakthroughs. Brain-computer interface technology helps cerebral palsy patients, amyotrophic lateral sclerosis patients, etc., restore communication ability. The application of virtual reality technology and human-computer scenario interaction technology can mobilize the vision, hearing, and touch of autistic children. AI intelligent robots identify people at high risk of suicide through knowledge graph technology and implement rescue in time. These can support the lives of the most needy groups and families and make their lives more dignified^[14].

China Disability Development and Social Progress Annual Overview (2023) shows that at present, a large number of modern technology-based disability-assistance enterprises have emerged in China. They target all disabled people or a certain type of disabled people, and use high technologies such as the Internet, big data, and artificial intelligence to provide convenient, safe, and warm lives for disabled groups. Many technology enterprises have played a leading and exemplary role by opening up barrier-free technology patents to the public free of charge, reducing industry barriers, and making good products truly benefit a wider range of disabled people.

Under the development momentum of technology-based disability assistance, many technology enterprises actively fulfill their social responsibilities and develop barrier-free functions. A quiet change is that to meet the spiritual and cultural needs of disabled groups, the barrier-free transformation of technology products is shifting from basic compensation to rich experience, developing many entertainment functions^[15]. For example, Vivo launched the "Voice of Life" public welfare project. Through the technical iteration and upgrading of self-developed AI multimodal large models, it launched information barrier-free functions such as "vivo Hearing" and "vivo Seeing", providing more in-depth and detailed information Q&A through multi-round dialogues, enabling users to better perceive and understand the surrounding environment and things. Technology empowerment improves not only the "precision" but also the "temperature" of barrier-free environment construction. The goal of these barrier-free applications is to enable disabled people to enjoy social life more fully and happily.

3. Conclusion

In conclusion, social disability-assistance work under new productive forces should continuously strengthen organizational and capacity building, improve the social security mechanism for disabled people, improve the care service system, promote the cause of disabled people to move towards high-quality development, and help disabled people achieve common prosperity. People should strive to enhance the sense of gain, happiness, and security of disabled groups, make them truly feel the fruits of social development, have more accessible, happy

lives, and encourage and support every disabled person to pursue a more wonderful life.

Disclosure statement

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