

Problems and countermeasures of performance management in precision poverty alleviation in big data era

Hongyu Li^{a}, Shengling Gao^b, Shuyan Wang^a*

^aElectrical engineering and automation, School of electrical and Electronic Engineering,
North China Electric Power University, Beijing, China

^bInformation and Computing Science, School of mathematics and Physics, North China
Electric Power University, Beijing, China

*Corresponding author: Hongyu Li , *1418295427@qq.com(Corresponding email),
1027334780@qq.com, 346909925@qq.com

Abstract

Performance management of precision poverty alleviation projects is not only a basic way to improve the efficiency of poverty alleviation project management, but the only way for the government to build efficiency as well; meanwhile it is also an important step to implement poverty alleviation project management responsibility system and clear responsibility, and it is the premise of the construction of responsible government and government by law and to ensure the effective operation of the mechanism of poverty alleviation projects. The arrival of "big data era" provides a new scientific assessment means for precision poverty alleviation. It is an important way to realize the visualization, digitization and dynamic management of poverty alleviation by using large data technology to process the data in the precise poverty alleviation database. This article will begin with the problems of performance management in some poverty alleviation projects in Zhangjiakou, analyse the local poverty alleviation project performance management problems, and put forward some countermeasures of their own based on the big data thinking.

Keywords: *precise poverty alleviation; big data; performance management; Zhangjiakou City*

1 Problems

1.1 Lack of professional and independent performance evaluation and monitoring institutions

The research shows that the mechanism of evaluation of the Zhangjiakou, Yangyuan County and Chongli District did not set up a professional independent system of poverty alleviation

projects where a project usually assessed by the implementation of poverty alleviation projects, namely the local government organizations, finance, auditing and other relevant departments. Because of the lack of local executive agencies, the poverty reduction assessment system, plans, methods and related functions are missing, hindering the formation of a sound performance evaluation system and the construction of poverty alleviation network, making the progress of poverty alleviation projects difficult to get Macro-control.

1.2 Lack of scientific and reasonable "poverty alleviation project performance evaluation system"

Due to the low educational level of the villagers and the limited number of professional researchers, there is a lack of scientific and systematic poverty reduction project evaluation system and methods. At present, the local government can only conduct qualitative analysis of the project performance, but lack scientific and reasonable performance standards and complete "poverty alleviation project performance evaluation system". Because of the lack of standards at the system, the implementation of local poverty alleviation performance evaluation is not ideal.

1.3 Lack of performance information feedback mechanism

All local poor *villages* (such as Taojiayao Village and Xiabajiao Village) have not yet formed a coordination mechanism between the sharing mechanism and work related to poverty alleviation work information. Despite the rapid growth of big data, it is difficult to achieve a real-time update of shared cloud based on the limitations of local cultural standards. The current qualitative performance is difficult to timely feedback to the project, leading to the project can not find and correct problems in a timely manner, which may lead to project delay or low effect phenomenon.¹

1.4 Lack of poverty alleviation objects to participate in the performance evaluation mechanism

Nowadays, the evaluation of most poverty alleviation projects is still closed and subjective qualitative analysis. In the performance evaluation of poverty alleviation projects, if the participation of the poor object is low, it can not play its role in performance evaluation, and it is difficult to guarantee the evaluation results to win the trust of the poor. It is also unscientific and democratic. The performance evaluation of most poverty alleviation projects is often

conducted by the relevant departments to evaluate project performance based on some work data and field visits. Under the background of poverty alleviation, if the government only targets at the village and the poor and lacks participatory evaluation, it is impossible to support poverty alleviation work effectively.

1.5 The special evaluation of poverty reduction targeting is not in place

The performance evaluation of the local poverty alleviation project is lack of targeted monitoring and evaluation of the aim of poverty alleviation, from the direction of project funds use, the selection of project content and the selection of project households. To ensure the smooth implementation of poverty alleviation work, we must pay attention to the monitoring and evaluation of the performance of poverty alleviation projects.

2 From the perspective of big data poverty alleviation project performance evaluation, countermeasures and suggestions selecting A

Comprehensive analysis of the above research management and problems in performance management of poverty alleviation projects, we combine the current big data research and local cultural level and facilities present situation, put forward the improvement countermeasure suggestion for the local. Based on the improved strategy, the website template of information opening platform is designed for local, and the web template of performance evaluation, information feedback and project progress column is designed, too. And we make use of large data entry and processing technology to promote the local poverty alleviation process visualization, digitization and dynamic management process.

2.1 Establishing an information disclosure platform for poverty alleviation and performance evaluation of big data

Provisions of the regulations on the Publicity of Government Information, Administrative organs shall, in accordance with the principles of prompt, accurate and convenient publicity, disclose government information. Therefore, it should establish the poverty alleviation performance evaluation of public information platform, in order to effectively protect the citizens right to know, the villagers and the community to understand the current progress in poverty reduction, to enhance the credibility of the government, to maintain social stability, promote the construction of a clean government, to better serve the public, and to play a more and more role. Open platform can establish communication column. Social or villagers on the

platform can not only ask questions about poverty alleviation, but also offer advice and a better way.

2.2 Implementing a dynamic monitoring mechanism for the performance of big data poverty alleviation projects

With the development of big data, the poverty alleviation cloud has also been applied to the pilot units. We should actively apply for poverty alleviation cloud project. The operation data of poverty alleviation projects can be recorded in real time, we should establish the precise poverty alleviation project performance evaluation system, dynamic performance evaluation of poverty alleviation projects, and actively explore the mechanism of dynamic monitoring and evaluation, and linked to the effectiveness of poverty alleviation and development and poverty assessment of cadres selection. Through scientific and effective poverty alleviation performance evaluation and system design, we can realize the reasonable withdrawal of key villages in poverty alleviation counties. On the other hand, we strengthen the monitoring and evaluation of poverty alleviation project funds and project selection, project selection and other poor households and avoid ignoring the immediate needs of the poor, and the serious waste of money in poverty alleviation through the investment of image project.

Form a comprehensive supervision system of "early warning, monitoring and post evaluation" to ensure the smooth implementation of the poverty alleviation work. In this regard, we can evaluate the column in the web design performance, performance evaluation through the entry of poverty alleviation project managers by landing the way to project information, and generate the project performance results automatically according to the input information system, digital tube to achieve the performance of the project manager.

2.3 Establishing a professional performance evaluation organization for poverty alleviation projects

The formation of the appraisal system, the efficiency of project management, target completion and poverty alleviation network construction and other aspects of the need for planning and feedback timely and accurate calculation, only through the financial audit department at low speed, the effect is not obvious. First of all, the implementation of poverty alleviation projects department, establish professional poverty alleviation project performance evaluation institutions early financial assessment institutions and relevant departments to deploy elite talent, after recruiting professional training of relevant personnel, to carry out the

work in accordance with the unified program. On this basis, the internal and external supervision mechanism of performance evaluation should be established, which is responsible for the follow-up supervision of the evaluation process. Therefore, the establishment of professional poverty alleviation project performance evaluation institutions can make the project progress to be highly effective macro monitoring, and it has an important strategic guiding role.

2.4 Improving the participation of poverty alleviation people in project performance evaluation

In the poverty alleviation project performance evaluation and the correct guidance of the government and the cadres stationed in the village, and the villagers are an important factor in the smooth implementation of poverty alleviation. The first step, the village Party Secretary gathers villagers who are the direct beneficiaries of poverty alleviation projects, and explains what we need to personally evaluate the poverty alleviation project in the project performance evaluation, and the villagers may also put forward a practical problem, fill in the satisfaction questionnaire on poverty alleviation project actively, and make their own maximum benefit.

The second step is to set up a special person to collect the villagers' suggestions and questionnaires periodically and collect the information in the process of poverty alleviation and feedback them to the poverty alleviation project performance evaluation institution

The third step, the agency through calculation, evaluation, put forward appropriate advice to the Poverty Alleviation Office, in order to properly optimize the poverty alleviation program, so as to keep pace with the times.

Therefore, scientific democratization plays an important role in performance evaluation, and it is crucial to improve the participation degree of people in poor areas in project performance evaluation.² As a part of the villagers, there is a sense of responsibility and obligation to consciously and timely feedback to the village committee in the process of poverty alleviation.

2.5 Establishing an institutionalized mechanism for large data evaluation, information feedback and communication

In the early stage, additional professional researchers were created to ensure the most comprehensive and effective information sharing after the completion of the poor village³, the establishment of shared cloud and the post establishment update. In the process, and later, the need for regular selection and training of the villagers' representatives or higher degree of

cultural level can be gradually replace the work of professionals, in order to reduce the project cost, steadily accelerating poverty rate. Therefore, the establishment of a sound and systematic evaluation, information feedback and communication mechanism will enable poor areas to achieve better results in poverty alleviation projects and benefit the people to the greatest extent.

To this end, we can design information feedback web pages to realize real-time sharing of information, thus slowing down the time needed for reporting and advancing the poverty alleviation process.

References

1. *Y. L. Dong, J. C. Miao*, The era of big data accurate thinking for poverty alleviation: Cooperative technology and economy, 2016.14.092
2. *Sun Lu*, research on performance evaluation of poverty alleviation project: Based on the perspective of precision Poverty Alleviation: [doctoral dissertation] Beijing: China Agricultural University, 2015
3. *L. Sun, B. F. Chen* Research on performance evaluation of poverty alleviation and development project based on AHP-TOSPSIS method -- Taking Sichuan and Liangshan as an example, [J]. science and technology, 2015, (1):62-66