Quality Credit Supervision Research Based on Minimum Dataset: With the Licensed Enterprises in Kunming of China for Case

Qianyanhui Qian, Yunnan University of Finance and Economics, Kunming, China
Wenqi Liu, Kunming University of Science and Technology, Kunming, China

ABSTRACT

As a social management and public service sector, it is convenient for the government to collect and use data, and hence business data become the origin of the big data of government. In order to improve the scientific level of government supervision and management, it is necessary to strengthen the scientific arrangement by using the existing service data. This paper takes a successful example of implementation of e-government, which is “basic quality and technical supervision and management information system” using by bureau of quality and technical supervision in Kunming. After obtaining the quality information from the original public database, this paper used the thinking model which combining the quality credit information and the minimum dataset, then choosing candidate factors with importance rating from minimum dataset by using R language and random forest algorithm. At last, forming and analyzing the minimum dataset of enterprise quality credit supervision through logical argument.

KEYWORDS

Enterprise Quality Credit, MDS, Minimum Dataset, Quality Credit, Supervision on Quality and Technical

INTRODUCTION

With the ICT (information communication technology) is widely used in the market decision-making and public administration management, data and information as a kind of important asset and wealth brought more and more attention to the decision-making departments with the coming of big data era. In essence, data and information are two different concepts. Data often cannot provide the basis for management decision-making directly, because the exact meaning of data usually not obvious. But information formed from processed data can reflect the logic between two or more objective thing, this work plays an important role in current management decisions. Based on data mining, integration and then classified after analysis and summary reports and materials, it can provide reliable basis for market decision-making and public decision-making, and helping to keep the configurations of market resources and public resources working. Due to the importance of data, the government departments at home and abroad put forward the concept of electronic governance after more than a century of e-government, its purpose lies in using information technology to serve the public management better, provide a convenient interactive channel between government and public. This paper takes a examples of successful implementation of e-government, which is the “basic quality and technical supervision and management information system” using by bureau of quality and technical supervision.
in Kunming as the research object, regard the large number of enterprise information produced in specific applications as data base, analysis why the original data can’t be used in the assessment of the quality of enterprise credit of quality directly by technical supervision and regulation departments so that cause data resource waste, and how to filter small enterprise quality credit data that are available, then form enterprise quality credit supervision minimum dataset.

**RELEVANT CONCEPTS**

“Minimum data set (MDS) refers to a good grasp of the most important characteristic of an object or the state of a job by collecting the least data, the core is to set up a series of concise and practical data indicators direct at observed object. The concept of minimum dataset came from medical field in the United States. Minimum dataset results from the need of information exchange, like the relationship between supervisor and enterprises, supervisor and social public, enterprises and social public, all have demand of information exchange. Therefore public sectors need to build a similar “port” database in order to realize information exchange and sharing. In 1973, under the auspices of The National Committee on Vital and Health Statistics (NCVHS), to standardize the information collection of the discharged patients, the United States made the unitive discharged patients’ minimum dataset for the first time. Due to its strong practical, the concept of minimum dataset was quickly promoted in the medical field. In recent decades, the new minimum dataset is defined, developed and promoted almost every year, derived a variety of specific minimum dataset. As time goes on, minimum dataset has evolved into a general concept in the United State, it refers to a kind of mandatory data for public service management field collected by the national management level. Of course, views about “minimum” are divided. Different managers, policy makers, public service providers and receivers will have different needs and views, whether an index into the scope of the minimum data depends on observer, different angles and the different methods of management will produce different views. Minimum dataset was applied in China began in the field of medical and health research and application from 2003; by 2006 the ministry of health in China issued the first edition of the Chinese hospital minimum dataset standards.

The concept of “Quality Credit” originates from the paper “Credit for Quality” edited by Max f. Meyer et al. at the university of Chicago in 1915, and propose general principles of Credit the Quality targeted at education. At present, foreigners regard the quality credit of enterprises as a part of the enterprise credit, be included in the “corporate character” and “corporate capacity” within the scope of evaluation, together with the “Capital”, these three compositions are the foundation of the enterprise credit evaluation called model of “3C”. The management of quality credit research in China started in 1987, it synchronized with corporate bond issuance. More broadly, enterprise quality credit should include product quality, the quality of enterprise internal management and risk resistance ability and capital position of enterprise this three key elements. On October 24, 2006, China quality technical supervision and quarantine bureau defined “Quality Credit” as the ability and degree of quality commitments were made by enterprises in the quality of the production and business operation activities and the performance of comply with laws and regulations. “China General Principles of the Enterprise Quality Credit Classified” (GB/T23791—2009)defined “Quality Credit” as obtaining and maintaining the ability of trust for its quality, such ability is enterprise should provide products to satisfy the customer in its life cycle on the basis of comply with relevant laws and regulations, quality standards and quality commitments. This article will adopt this definition.

Enterprises faithless behavior such as credit deficiency and short in weight are still common, these behaviors seriously harm the interests of consumers, disturb the market economic order, corrupt
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