

Shanghai International Financial Center based on grey relational method Relationship with Shanghai International Shipping Center

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Abstract: In order to better play the linkage between Shanghai International Financial Center and Shanghai International Shipping Center, from the quantitative point of view, through the construction of Evaluation Index system, the relationship between Shanghai International Financial Center and Shanghai International Shipping Center is gray off analysis. The results show that there is a strong correlation between the international financial Center and the International Shipping center, and the influence of the financial industry on the shipping industry is greater than that of the shipping industry. On this basis, put forward the corresponding countermeasures and suggestions: the development of Shanghai shipping industry; to Improve the modern shipping service industry chain; To further develop the financial industry in Shanghai, to introduce corresponding supporting policies; to foster and introduce a compound High-quality shipping financial talent.

Keywords: Shanghai; International Financial Center; International Shipping Center; Grey relational analysis; index system; correlation degree

citation speech

after Shanghai first proposed the concept of "four centers", "International The Shipping Center and the International Financial centre have received extensive attention from all sectors of the Community .2015 relocated four centers in Shanghai set goals, where international financial centres are built on national strategies in accordance with According to the RMB product market as the core to the development of the Asia-Pacific region for foothold, China (Shanghai) Free Trade test area (below) called Shanghai FTA) financial reform as a breakthrough to win By 2020financial Value Added to the city Gdp Of 15%above; international shipping The construction of the center requires the formation of Shanghai as the center, Jiangsu and Zhejiang two The wing, the Yangtze River valley is the hinterland of the international shipping hub port. At the beginning of the four centers, many scholars studied this, but after nearly 20 years of development and relocation of "four centers," Shanghai International Shipping Center and Shanghai International Financial Center construction The marked a new change. Therefore, it is necessary in the current economic environment to

background Next to two who make New 's Research investigate . Shen Yu , and so on

[1]Believe that there is a mutual shadow between the gold Rong Center and the shipping center

Ring the off system , use the gray color off-to get from financial trade to navigation op Louder than the shipping industry impact on the financial sector ; Zengjia text etc

[2] Passthrough to Xiang port Country Inter Gold melts in heart and Incense Port Country Inter Navigation Shipping Medium Heart 's Gray Color Association research , to get both save in strong linkage ; Lu Xiang[3]Use cast enter produce out method to Shanghai Cast into output out table forward line cross Vertical to more than ,, to on Sea Shipping

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Industry and Gold Merge Industry 's between then off Department Strong on Direct access system , gold merge industry Shipping industry Shadow ring Greater , back to off Union is not obvious .

looking at the above findings, for the Shanghai International Shipping Center and the The study of Shanghai International Financial Center is less and earlier. with the establishment of the Shanghai FTA and the redefinition of the " Thirteen-Five" plan for the "four ", it is necessary to base on the economic development in recent years conditions to re-examine and evaluate the two, on the basis of which the Sea International Financial Center construction and Shanghai International Shipping Center Construction

Receipt Date : 2016-04-08 Introduction to Authors : Sun (1991 (-), female, postgraduate, research direction for international trade theory and policy;

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And put forward the policy suggestions to promote the construction.

1. research objects and methods

Research subjects

This paper refers to the existing literature construction index system, select 2011

—2015 annual gross output value of Shanghai financial industry and shipping industry total value, points Analysis of Shanghai International Shipping Center and Shanghai International Financial Center Grey Association degree.

Research methods

The Grey relational theory was originally proposed by the Chinese scholar Deng Ju long, The is then applied to empirical research in the fields of social science. There are many related analysis methods, such as input-output method, regression analysis method, square Difference analysis method, etc., but each has its advantages and disadvantages. In this paper, the Grey Association method is not high enough for target capacity, and more than three or four samples are basically full of foot analysis requirement, which can avoid the loss due to asymmetric information , and has the characteristics of clear thinking and strong operability. Therefore, this article uses the grey relational method to quantitatively study the linkage between Shanghai International Shipping Center and Shanghai International Financial Center.

The concrete calculation steps of the grey correlation method are as follows:

0.35, then two who to Weak phase off ; 0.35 $(X_0, X_1) \leq 0.65$, For mediumPhaseOff; If 0.65 The $(X_0, X_1) \leq 1$, ForStrong phaseOff.

Building Index System

Considering the availability of metric data, this article builds international Financial Center, International Shipping Center and international economic development level, etc.3 Evaluation index system of species (see table 1).

In this paper, the gross output value of financial industry and transportation

1,2,3, ,N; I = 1,2,3, ,M; N is the number of time series;

M As the number of index system.

(2) to the original data for dimensionless processing, this paper uses the first

final output results, respectively, to study the main indicators of financial services to traffic Impact of transportation output value and main indicators of transportation and transport to gold

The influence of the financial value of the industry, so that Shanghai International Shipping Center value Method , that is $X(I)$

The degree of association with Shanghai International Financial Center. Because of the degree of correlation

(3) Calculating the absolute value of reference and comparison sequences one by one

Can not explain the extent of the actual impact of the two, this paper chooses the national

Poor , find The big difference and most small poor $X(I)$

(4) AshColorOffTheSystemNumber (I

The development level of Jinan as a reference indicator.

$$(I \quad T) =$$

$$\text{Min min } () + \quad \text{Max Max } ()$$

$$() + \quad \text{Max Max } ()$$

Grey Relational Degree analysis

Collect the index data according to the evaluation Index system to gold

Where is the resolution $\in (0,1)$, General take = 0.5.

(5) to obtain the correlation, generally take the mean of the grey correlation coefficient

The total output value of the product and shipping industry is the reference sequence, and the various kinds of indices are compared.

Financial center, International Shipping Center and international Economic Development level 3 A kind of evaluates the grey Relational degree of index system, the result is shown in table 2.

As the above table shows: $11 > 13 > 12$, it is stated that each evaluation means The magnitude of the impact on the financial sector is the international financial center in turn

$>>$ National economic development level, international shipping center; $21\text{st} > 22$

$>$, the impact of each evaluation indicator on the shipping industry depends on the size of the Second International Financial Center $>$ International Shipping Center $>$ national economy Hair show level; when $>$ when the level of national economic development on the financial industry

is more influential than the shipping industry. $21\text{st} > 23$ When the International The relationship between shipping center and International Financial Center is greater than international shipping The relationship between the center and the development level of national economy; 12 The 21st When, The impact of international financial centres on international shipping centers is greater than the national

the extent to which the international financial centre is affected by the inter-shipping Centre. The above analysis shows that international financial center and International Shipping

strong relevance and financial implications for the shipping industry The is larger than the shipping industry's impact on the financial sector.

2. Build Discussion

Shanghai International Shipping Center and based on "Thirteen-Five" Planning The new meaning of Shanghai International Financial Center Construction, in the above analysis of thebased on the following recommendations:

(1) Development of Shanghai shipping industry, that is, to strengthen shipping enterprises financing, insurance, currency exchange, currency settlement resulting from the process economic activity and related business arising from it;

(2) Perfect modern shipping service industry chain by increasing shipping Service level Perfect shipping service industry system;

(3) Further development of the financial industry in Shanghai, with the financial sector pulling shipping industry, shipping industry to promote the financial industry;

(4) to introduce corresponding support policies for the development of shipping finance creating a favourable soft environment;

(5) to cultivate and introduce the compound high quality shipping financiers , to build Shanghai into a gathering ground for shipping financial talent.

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