

"Production City Fusion" Research in China

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Abstract

"If city has no industry to support, and even more beautiful, it also is the 'empty city'; if production not rely on the city, and even the high-end, only 'idle'." With the development of city, the successful development of Paris, London, New York, Tokyo and other international metropolis, provide a very good show "development road of production city fusion" to us. Production city fusion has become a new mode of development of industry and city. This article include the "production city fusion" concept, production city fusion in modern services, city space layout three aspects, found that the concept of production city fusion in the deepening and extending continuously, application fields and the industry continuing to expand, production integration of the city also will have an advantage in many places, be a very good approach and mode of development of tourism.

Keywords: production city fusion, industry fusion, modern service industry, city space layout

One, the concept of "production city fusion"

Current research on this concept and production city fusion is not clearly defined, the practice of production city fusion has just begun, in practice, ceaseless exploration. Jian Yang, Xie Hu, Lin Zhang (2010) pointed out that in the public center city design of Xi'an high tech Industrial Development Zone, adopt the overall coordination, and function and culture of city design strategy, formed "Y" shaped city life service dual axis by the high road and Yanlu Tang, undertaking various functions, realizing the organic growth of city history and modern culture[1]. It is the prototype of production city fusion. The development of production city fusion is accompanied by the development of development zones in China. Fei Lan think "production city fusion" is the collaborative support and the organic integration of industrial parks and urban area in the space, structure and function of the coordinated development of city, to realize the core functions of lifting, spatial structure optimization, the integration of urban and rural areas, social ecology; the core problem of production city fusion is that if industrial structure is consistent with the localization of city development[2]. To production city fusion, the essence is the good interaction between industry and city; core of production city fusion is the person; carrier of production city fusion is city. To realize sustainable development production city fusion must adhere to combining industry and culture[3]. The essence of city and industry "two-way fusion" is the balance. If industry live, demand of people live, the intrinsic vitality of city is excited, city also has "the soul"; the perfection of city function, quality improvement will also provide the conditions for the development of the industry [4].

Chang Liu, Xinyang Li, Xiaoqiang Hang put forward the function composite, complete perfect and spatial fusion is core production city fusion[5]. Jin Liu, Qian Geng, Yan Wang made the definition of production city fusion, production city fusion -- "to promote city, with City Hing estate, production integration of the city", namely the construction of ecological environment with modern industry system driving, production and life of service integration, multiple functions of new City complex symbiosis[7]. Yufeng Wang, Jun Zheng exploring the of production city fusion planning from the selection, function orientation, population resettlement, spatial structure and functional layout[8]. Wenbin Li, Hao Chen consider that "production city fusion" is the product of area development, needs analysis stage of development in different regions and structure characteristic, and then put forward reasonable suggestions; the "production city fusion" meaning mainly include the orientation, function integration, structure matching [9]. Xuejie Li from the coordination of city functions, organic unit contact, orderly flow of key elements three aspects summarized production city fusion characteristics and expounds the focus strategies to promote production city fusion development[10].

And city with industry and industry convergence are similar to production city fusion concept. A city with industry refers to the town should be the functions of economic, financial, information fusion, trade, production, life, ecology, service, education, cultural function, especially in industrial and service function; strengthen urban industry and life service centre of region[11]. All two will depend on industry and the development of the city each other, mutual penetration. Industrial integration refers to the process of directly change the fuzzy Coopetition relationship between consumer industry each enterprise and boundaries between one or more industry originally of discrete (Meiyun Li, 2007). In addition, scholars combined fusion wisdom city with production city fusion [12] (2013).

Two, in the modern service industry research

The development of the modern service industry and city fusion, become a driving force to promote the process of urbanization and city level[13]. Fusong Wang has been in the "Zhengzhou daily" pointed out: "Dengfeng: production city fusion to create an international tourist city". Put the rich tourism resources into industrial advantages, and take the tourism as the main, to build Deng Feng into the industrial development, function completely, distribution orderly, suitable for human habitation "one city three areas, four auxiliary centre, seven characteristic town" of urban and rural structure [14]. Xiujie Yan, Ning Li, Shang hong Fa detailed interpretation of Ri Zhao International Ocean City plan. In the development planning of International Ocean City in the whole structure, Ri Zhao relies on international ocean city itself characteristic resources, integration of existing mountain, river, sea, wetland resources; from the functional zone, traffic, city design, municipal infrastructure, service five aspects to the development to complete the "international standards, marine characteristics, the city fusion" for the development of vision. At the same time, the development of marine service, marine engineering equipment, marine biology, comprehensive utilization of seawater, marine ecological environmental protection, Lin Hai high-end manufacturing six leading industries, to create complex industrial chain[15]. Jiwei Sun combined the development of cultural and creative industries Shanghai Jia Ding District of time, space and path of the development of cultural and creative industry and pointed out in the suburbs of city modernization, cultural and creative industries are the production city fusion catalyst [16].

According to the principle of development of production city fusion, promote the "production city fusion", increase the Wai Gao Qiao – Jin Qiao, Zhang Jiang public centre, give full play to the Disney theme park in Shanghai effect, consider increasing the public centre of Chuang Sha - Theme Park, promote tourism and leisure, maritime trade, aviation logistics function, accelerate the surrounding industrial development and the construction of various facilities, through "production city fusion" perfect city regional function [17]. In the "production city fusion: new strategies of Shanghai water expansion for Tian Fu district recycling industry Chengdu" Pu Dong Disney park directly or indirectly promote the industry up to hundreds; has become a bright spot in the city to accelerate the production integration. Tourism industry will become the effective way to promote the production of city fusion[18]. Basing on the development course and achievements of the development of service industry in Singapore, Seoul, Hong Kong, Haoming Xu proposes to strengthen the crisis consciousness to adhere to government leadership, follow the standardized and transparent process, introduce market professional force according to the industrial fusion principle of the development of industry city fusion to the development of modern service in Shenzhen .

Singapore, Hong Kong, Seoul's service industry development and industrial structure change: it is bound to make the simple pursuit of city economic development after effect inadequacy, and decrease ability to resist risks to ignore solid development of manufacturing industry and run after the rapid of development of service industry . The modern service industry and advanced manufacturing industry should be collaborative [19]. Yongliang, Jin analysis Guangzhou production city fusion and put forward the corresponding improvement strategy. It revealed that the city's service industry accounted for the relatively low, high-end shortage, internationalization, industry and is not high, the unequal development of the problem. He points out that Guangzhou should strengthening the central position, strengthening the function of innovation, carrying out policy innovation, promoting social innovation, and promoting cultural innovation to speed up production city fusion[13]. In the light of the present situation of modern service industry in Shanghai, referring to the international metropolis of the development of modern service industry agglomeration district experience, Zhu Hua put forward the development mode of production city fusion.

From the theory of value chain of development he explains the agglomeration of production city fusion model -- mainly refers to the metro area in the suburbs give full play to regional unique traffic location, industrial foundation, ecological environment and other comprehensive advantages, to accelerate the process of city as the main line, vigorously develop the service industry, focus on the integration of city and industrialization, the second industry and the tertiary industry, form of city image, make the city function perfect, production integration of the city development of modern service industry agglomeration district [20]. "Production city fusion" of the modern service industry has two characteristics: the fusion development of the first industry and the second industry; the development of fusion service industry and city life.

Three, city space layout and city development research

Our country city space has entered the rapid development period, but many of the new city function structure is too single, bringing many problems of traffic chaos, environmental degradation, irrational industrial structure, incompletely public service facilities and so on. Production city fusion are payed more and more attention. The cause that the city separated from industry mainly are : the industrial park planning and city planning are independent of each other, not close contact; effect of industrial level, production processes, production links etc.; lack of infrastructure [21]. In 2010 October, Chong Ming County puts the 10 square kilometers of the Chong Ming Industrial Park into overall planning, not only laid the foundation for the production city fusion , and transforming the original tax investment to real investment lead to promote to the industrial park entity enterprise, setting aside space for production city fusion development[4]. Jing Hu introduced the integration of Pu Jiang City, Sichuan examples, introduces Shou'an model of "new idea" life -- to "estate Hing" -- as market subject park, attracting social capital to build city; also introduces tea capital Cheng Jia production trade ecology fusion[22]. Shanghai Jia Ding District An Ting town, as the automobile industry is its main industry to go along with production city fusion road to develop the city [23]. Feng Lin introduced a new ideas : regarding the tourism as the theme, make the city tourism developed with the development of city [9].

Ping Yang broke the town level administrative areas, and promote the expansion of the city, port construction and industry to enhance the interaction with each other. With "port, industry, city" development path, to speed up the formation of ring to Gu pan mountain as the core group of city development pattern, creating heart of Southern Wenzhou metropolis (2013) [24]. Zhituan Deng points out, the city centre area of international metropolis is committed to build a high level of new engine, build a multi configuration creative space; suburban areas promote the integration of science and Technology Park City focus on production, improve the science and technology park city function; for the Shanghai suburban areas, Science and Technology Park production city fusion is weak; development zone characteristics are clear; city function is relatively weak; we should speed up the function orientation and Planning Adjustment Technology Park, to promote integration of science and Technology Park City; actively promote the twice development of suburban garden of science and technology, accelerate the transformation of the function of development zone from a single function area to the city construction, optimize the industrial import mechanism, optimize the living facilities, introduce of preferential policies to realize production city fusion [25]. Composite function, completely perfect and layout of fusion are core production city fusion [26]. Whether in the industry, or the city park construction, production integration of the city become the new sustainable development power. Production city fusion has become a part of city space planning, as a separate account. Associate professor Xiong Li,Mao pointed out that, Pu Dong should focus on cross fusion, live fusion, manufacturers fusion, production cooperatives fusion. From the perspective of scientific planning, resource matching, rational layout, ecological priority, comprehensive balance, set up a goal oriented, standardized production city fusion criterion, promote development of production City fusion [27].

Shuiqing Peng introduces how to realize the production city fusion and differentiation road[28]. Hua Dong Jiang in Sichuan Tian Fu New District as an example, the "city" and "production" are how to realize perfect fusion. Production city fusion must do the following: produce the city form clear; industrial agglomeration, rational layout, service facilities, functional composite; city form is mainly supporting and adapt to new industry; synchronous development and optimization of city form and new industry[29]. In addition, pay attention to the construction of the local culture. Ling Jiang summed up the Industrial Park Development experience, the production city fusion is divided into three stages, combined with the practice of Chengdu City construction, expounds the production integration of the city, a city with industry is the inevitable trend of industrial concentration, cluster, intensive development, is the inevitable result of balancing urban and rural development [11].

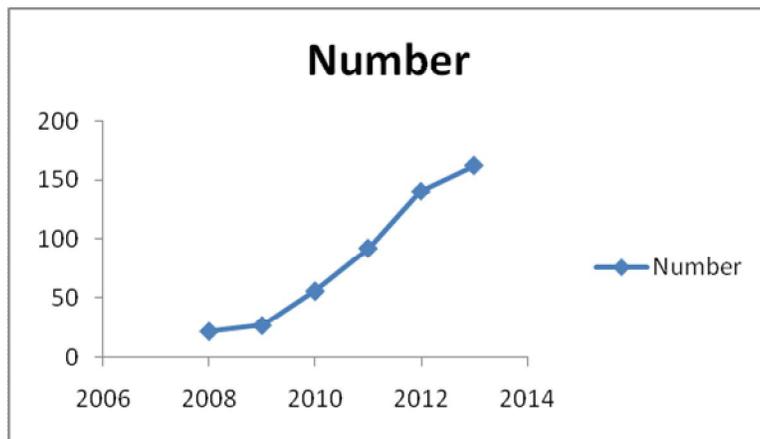
To "production city not fusion" phenomenon in Shanghai suburbs , Hua Lin analyses the relationship between industrial structure and employment structure, employment structure and the influence rule of city development; points out that strengthen agglomeration population interactive high-quality high-tech industry and the metro construction, forming a virtuous circle of industry and population escalating, the suburb must take Metro "production city fusion " route, taking Qing Pu city as an example and putting forward concrete approaches[30].

Four, summary

1, production city fusion concept change. At first, in production integration of the city ,the "production" refers to the industrial park, technology park, industrial park. Now the "production" is not an area geographically, but also can make the whole industry, and even more. Production city fusion and application in industry, also in the increasing expansion. The main industry, now expanded to the modern service industry (tourism, catering), public centre system, cultural and creative industries, the real estate industry etc.. "City" not only refers to the city, small town, and even to the international metropolis.

2, production city fusion has been paid more and more attention. From CNKI, the "production city fusion" as the theme found literature can be seen, production city fusion literatures more and more published these years. The following is the number of papers published each year, and the trend of group.

	2008	2009	2010	2011	2012	2013
Number	22	27	56	92	140	162



3, from the production process on the content of view, production city fusion mainly concentrated in the connotation, production city fusion approaches, and how to promote production city fusion etc.. On the inherent mechanism of production city fusion, the level of production city fusion evaluation system, production city fusion in the same point of tourism, catering industry, in the application of information technology and its application in industry and the differences of research is still relatively little, and even a blank. The angle is single, limited in city planning, city development, industrial policy etc.. Production city fusion is to develop the economy better, the development of better city, better life for people. Therefore, we should do economic, management, society, culture and so on, interdisciplinary research in multi angles. Research methods, is also in qualitative research, no quantitative researches; majority of documents are newspapers; therefore we need to have more study on birth process integration, in-depth study.

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