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## The research about sustainable development based on cultural root: take the ECOAL Yuan conceptual planning of Juewei Taiyuan as an example

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### Abstract

This article will base on the concept of “Ecological Civilization”, and combined with the ECOAL Yuan conceptual planning for Juewei Taiyuan, elaborate the city like Taiyuan, located in the place that abundant with Chinese traditional culture, but has weak economic basis, low technical level and high consumption level of resources, how to use the method of culture traceability, relying on its historical culture, through the leading role in the project as ECOAL Yuan of Juewei, to get rid of the environmental pollution and take the road of the sustainable development.

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*Keywords:* ecological civilization; culture; Juewei Taiyuan; sustainable development

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### 1. Introduction

The city is a very complex synthesis, is the centralism manifests of politics, economy, culture, history and society, and also is the results of human activities. Lewis Mumford believed, before industrial city, The activities of people in the city is generally in balance, and this makes a city's economic benefits, ecological benefits and social benefits are at equilibrium state. After industrial city, urban environmental pollution is serious and widespread. The basic reason is that people spend more time on economic activities, and think spend time on other activities is a kind of waste. Here the "other activities" refers to the religion, art, opera, cultural and artistic activities. This kind of phenomenon has broken the original balance, People and the city is no longer in harmony with each other, and this further leads to the city that no longer harmony with nature. China is now in a period time of rapid growth of cities, utilitarianism

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is extremely significant in urban development, and these caused serious environmental pollution in many cities, Taiyuan in Shanxi province is one of them as an example.

## 2. Traceability of history and culture about city

### 2.1. What problems is happening to Taiyuan urban development?

Taiyuan is the capital of Shanxi province, which is located in the northern tip of Taiyuan basin, near the Fenhe River. At the west, north and east of it, there are mountains around, and at the centre and south part is Hegu Plain. Taiyuan is the political, economic, cultural and educational heart of Shanxi province, is the national important energy sources and heavy chemical city which is characteristic by outputting energy, raw materials and other products, taking the metallurgy, chemical engineering etc as the pillar. It has civilization of about 5000 years and city history of about 2500 years, and also has abundant and colorful cultural relics as well as traditional culture and art. The city has had a reputation of “Jingxiu Longcheng” since ancient times, and was classified as a national historical and cultural city in 2011.

With the development of times, the orientation of Taiyuan of “national important energy sources and heavy chemical city” has run counter to the concept of sustainable development of city. In 1998, Taiyuan was listed by some related organization in United Nations as one of the world’s top 10 polluted cities. The urban economic structure is simple and the second production takes up too much part. Where the city locates is droughty with less rain, what’s worse, the short water has being polluted. Natural resources are getting exhausted because of the unreasonable use. Besides, the rich and colorful history and culture fades for the lack of being inherited and promoted.

Such series of problems are bothering the development of Taiyuan. Taiyuan has done better in controlling the pollution, economic structure transformation and culture construction. However, for it to take on the path of sustainable development, it still has a long way to go.

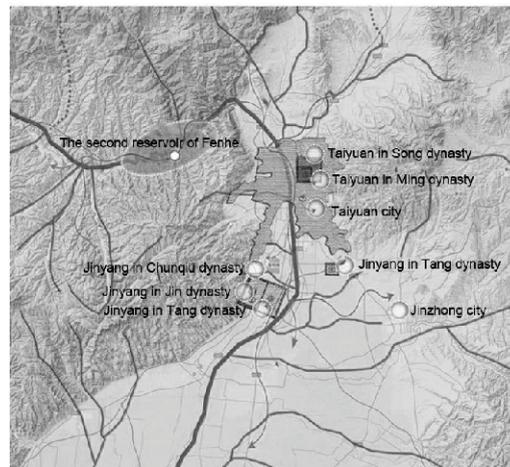
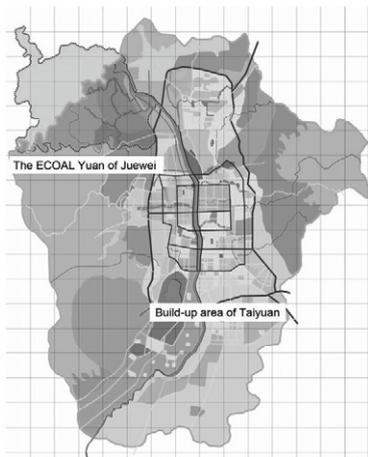


Fig. 1. The relationship between Taiyuan and Juewei

Fig.2. The change of Taiyuan’s site in history

### 2.2. why Taiyuan chooses Juewei Mountain?

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