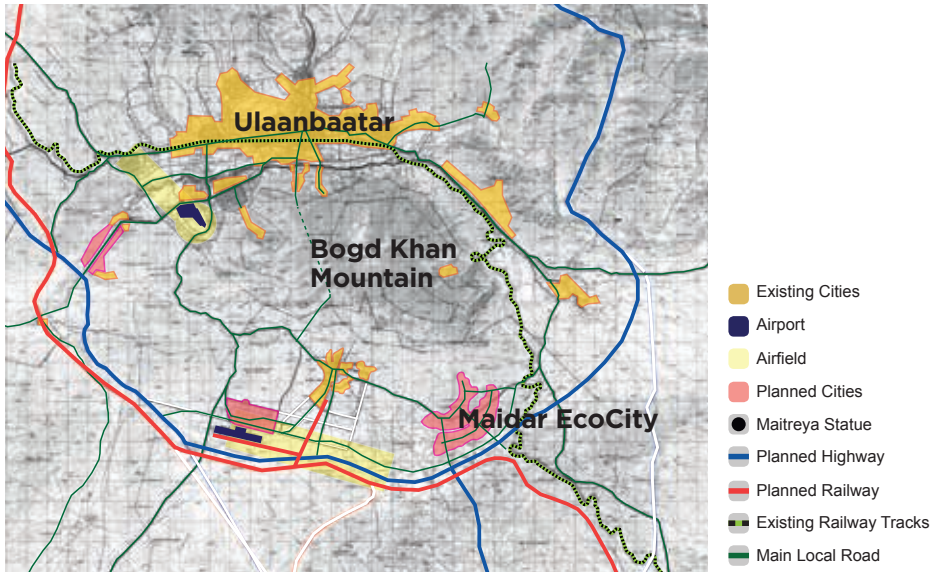


# Maidar EcoCity

*„Maidar EcoCity will be an example for other city developments, not only in Mongolia but throughout Asia“*



The Maitreya statue and its cultural area are situated in one of the most beautiful locations, south of the Bogd Khan mountains. In 2012, this location was designated as the center of a new city.

Faithful to the spirit of Maitreya, the city will follow the principles of

an ecological urban development. For the “City of the Future” sustainability, low carbon emissions, environmental protection and social harmony will be the main objectives for its urban design.

The preconditions to realize this vision in Mongolia are timely. Not

only due to the location and the excellent traffic connections, but also given the cultural and social spirit of the people of Mongolia.

Historically, Mongolians live in harmony with nature. This has instilled environmentally-friendly values that would challenge the negative impact of industrialization and build a city that protects nature, integrates it into the city and generates good and sustainable living conditions.

Maidar EcoCity will be a relief for the overcrowded Ulaanbaatar and an example for other city developments, not only in Mongolia, but also throughout the whole of Asia.

The design of Maidar City, in terms of urban planning, energy, transport and water, is rewarded with “Platinum”, the highest certification of the “German Council of Sustainable Buildings”.



View of the center area with the Maitreya statue in the background.

## Stage 1

10,88 km<sup>2</sup> const. area  
80.000 inhabitants



## Stage 2

24,5 km<sup>2</sup> const. area  
150.000 inhabitants



## Stage 3

34,05 km<sup>2</sup> const. area  
200.000 inhabitants



## Stage 4

51,82 km<sup>2</sup> const. area  
300.000 inhabitants



## PLANNING OBJECTIVES

### Urban Design

- Distribution of land use for a city of short distances; daily needs and public facilities are reachable within walking distances or by convenient use of public transport
- Each construction stage provides the functions for a complete city and is independent of further extensions
- Creation of independent districts with characteristic center squares
- Determination of building density according to the standards of an efficient infrastructure and public traffic system
- Designation of car-free zones in commercial and residential areas
- Preservation of the existing landscape features
- Creation of a landscape network for high social usability (leisure functions, recreational activities and sports)

### Traffic

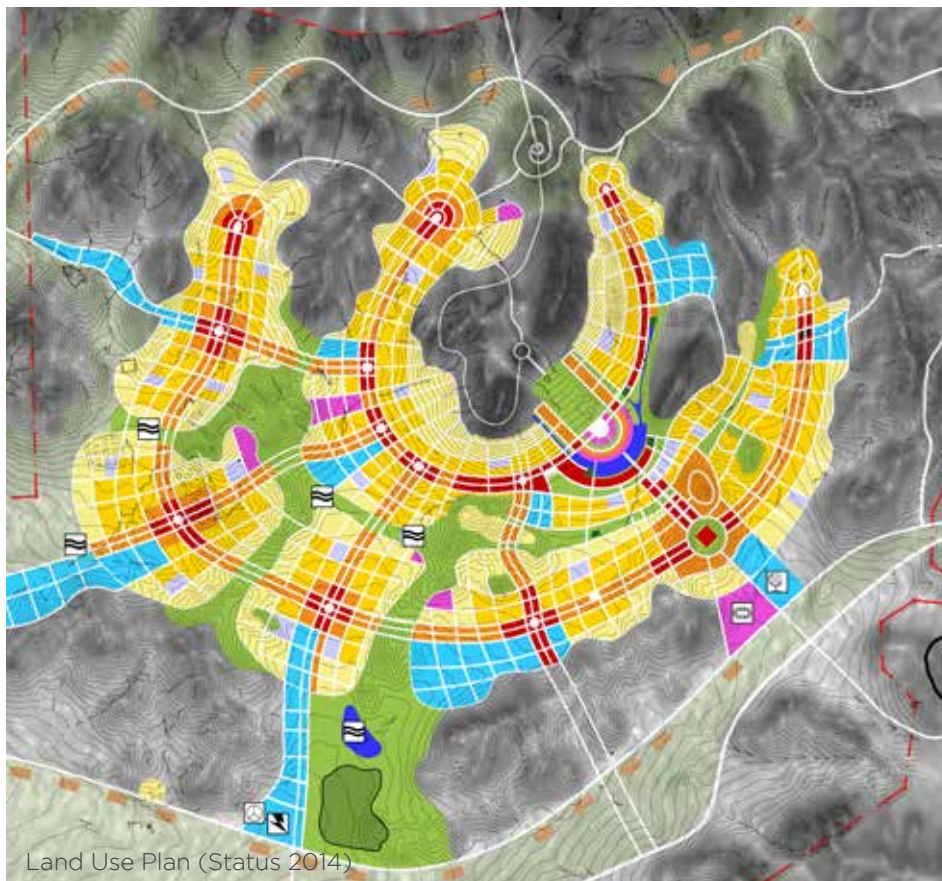
- Determination of a regional public transport system connecting Mairdar EcoCity to Ulaanbaatar, the airport and Zuumod city
- Quick access and convenient use of public transport
- Promotion of car-sharing/ride-sharing facilities and the use of electric vehicles
- Building density and facilities for daily use near public transport stations
- Constitution of "shared space" as the backbone of daily activities and commerce for all city districts
- Strategic location of car parking facilities to promote "green trips" and reduce the volume of individual motorized traffic
- Provision of state-of-the-practice management systems for traffic regulation and guidance

### Water

- Use of water resources within the city boundary to ensure sustainable supply in the future
- Harvest and treatment of stormwater runoff for supply of potable water
- Design of lakes for stormwater collection
- Mechanical and biological treatment of the stormwater runoff before inflow into the lakes
- Double use of the lake for recreation and as a technical facility for the production of potable water
- Reduction of potable water use through the supply of process water as recycled waste water
- Use of recycled waste water for irrigation farming and process water for greenhouse farming

### Energy

- Promotion of the use of renewable energy
- Enforcement of high standards for all building types in the fields of construction and technology to save energy, maximize energy efficiency and use renewable energy
- Optimization of building layout for solar potential
- Maximum use of solar energy by photovoltaics
- Implementation of district heating systems, initially based upon combined heat and power generation
- Implementation of a smart grid system that allows decentral and central energy feeding



Land Use Plan (Status 2014)

- |   |                        |
|---|------------------------|
| Commercial / Administration / Offices / Center Uses | Fair & Congress Center |
| Culture Leisure                                     | Stadium                |
| Education / University / School                     | Combined Heat & Power  |
| Mixed Use   | Lake for Potable Water |
| Residential higher density                          | Treatment Plant        |
| Residential lower density                           |                        |
| Industry / Trade                                    |                        |
| Agriculture / Breeding                              |                        |

## Land Use Concept

The main characteristic of the land use concept is the “Urban Arteries” that mark the location of city center functions such as shops, restaurants, offices and commercial use in general. These “arteries” form a net throughout the city and provide mixed uses for each city district’s daily life.

Following the principles of an Eco City, the land use is ordered according to the requirements of a city of short distances. Each part of the city provides a broad range of services and local economic structures for their inhabitants at a distance less than 1km. Facilities for daily use should be reached within walking distance.

Social and functional mixture is the precondition for a sustainable urban development and main principle for each part of Maidar EcoCity.

Several industry branches have already announced their interest in sites in Maidar EcoCity.

The first construction stage provides an autonomous city quarter. It will host buildings for approx. 20.000 residents and a university campus for approx. 20.000 students. In addition, schools, health care facilities, ministries of the national government and an international center of technology are designated to be built in this first stage.

The overall investment costs are 1,5 Billion Euro for the first construction stage and a binary investment sum separated in five steps for further long-term engagement.

## Project Status

According to the resolution of August 29th, 2018 of the Mongolian government, the planning of Maidar EcoCity is integrated into the regional and national development program of Mongolia.

The next step is the establishment of a Private Public Partnership (PPP) development company to manage the financing and the realisation of the project. Many national and international investors already expressed their interest to participate in the project.

## Chances for International Cooperation and Investment

Maidar EcoCity is the ideal project to combine climate protection and economical development.

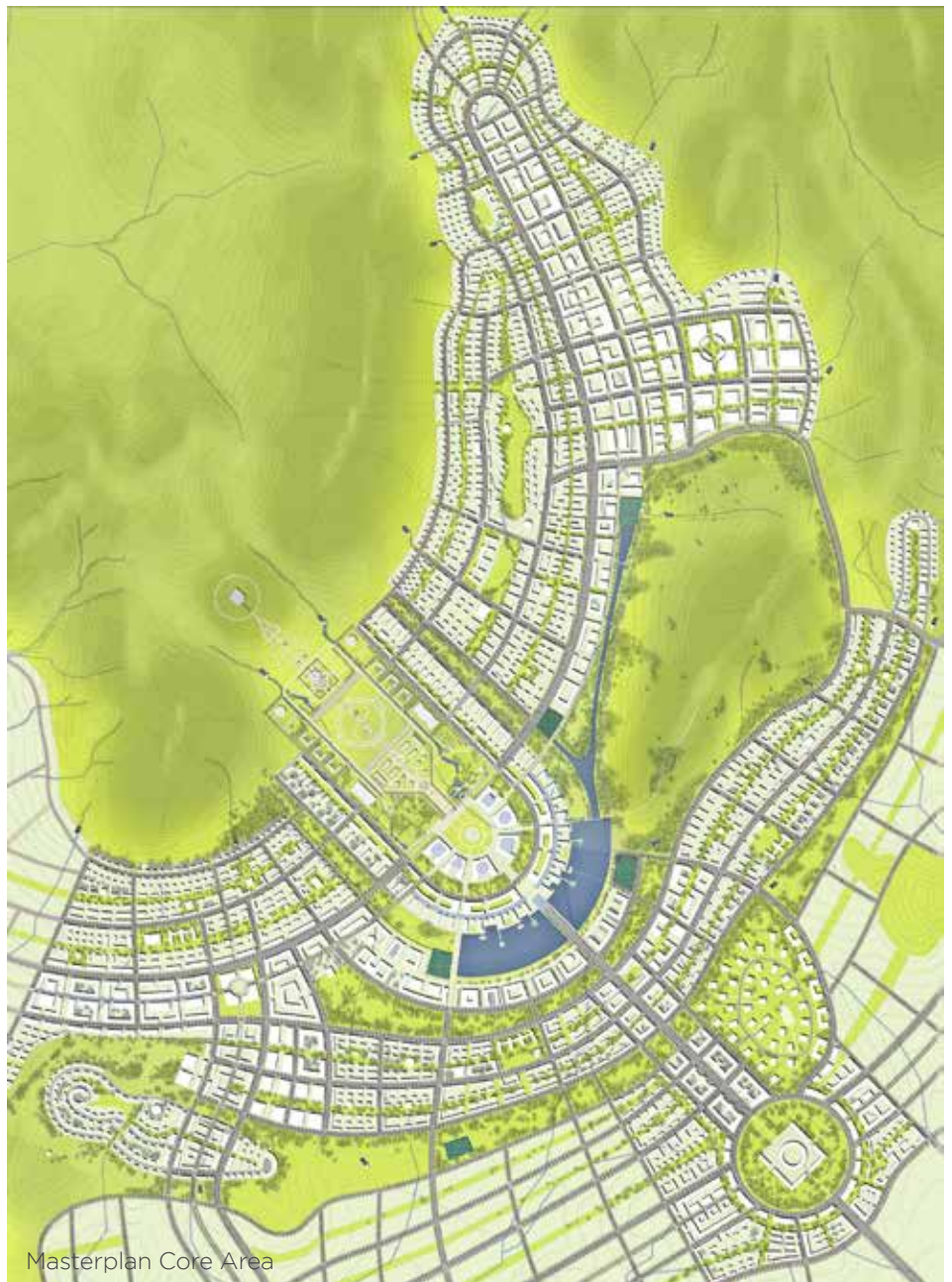
On the one hand, Mongolia needs support in terms of know-how and technologies in the field of sustainable urban development. On the other hand, Mongolia offers new business markets for foreign investments.

## Fields of cooperation

- Know-how transfer of ecological design in the fields of urban design, buildings, landscape, water, energy, transport and environmental protection
- New business markets in the fields of building industry, environmental

technology, infrastructure, water and energy

- Founding of a technology center for the showcasing of new technologies and corresponding training facilities for Mongolian personnel
- Exchange of knowledge and expertise involving German and Mongolian networks and universities
- Training programs for Mongolian personnel within the scope of the project work for Maidar EcoCity
- Promotion and financing of research projects (e.g. Personal Rapid Transport (PRT) systems)
- Design of a legal framework for a controlled urban development based on ecological objectives



Masterplan Core Area



Maidar EcoCity provides a suitable balance between the current economic circumstances and future-oriented ideas. It combines the expected economic growth and increasing prosperity with the aims of environmental protection and sustainability.

“Maitreya” stands for the future and Maidar City stands for the future city on Mongolian ground. Embedded in the Mongolian culture, this city will pursue a new pattern of urban development that meets the desires of the present generation without restricting the needs of future generations.

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**MAIDAR CITY**



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