



# ULAANBAATAR AND SATELLITE CITIES

PEOPLE-CENTERED CITY

ENVIRONMENT-FOCUSED SOLUTIONS

PLANNING-CENTERED DEVELOPMENT

GOOD GOVERNANCE OF THE CITY

SATELLITE CITIES

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**GOAL 9.** Develop a comfortable, environmentally friendly, people-centered and smart city.



## PEOPLE-CENTERED CITY

**OBJECTIVE 9.1. Become a city of healthy, creative and intelligent citizens with a high labor value, providing opportunities for development of its citizens.**

### THE OBJECTIVE'S STAGES OF IMPLEMENTATION AND EXPECTED RESULTS

#### STAGE I (2021-2030)

**The period to improve the quality and access of social infrastructure and increase citizens' participation.**

1. Increase the capacity and access of social service providers (schools, kindergartens, health, physical education and sports organizations, youth development centers, child protection centers, orphanages, etc.), ensure development and provide with necessary machineries and equipment.
2. Establish coordinated regional networks of healthcare and services and ensure their sustainable operation.
3. Implement projects designed to cultivate civilized urban citizens involving educational institutions at all levels and incorporate social impact measures in activities of the state organs and mass media.

#### STAGE II (2031-2040)

**The period to strengthen an efficient system that ensures the quality, access and equity of citizen-centered social services.**

1. Diversify and develop primary, secondary and high schools that meet certain conditions.
2. Construct sports facilities in new satellite cities and sub-centers in accordance with the City planning and construction norms and regulations.
3. Establish cultural centers in line with international standards and professional art organizations in some regions.

#### STAGE III (2041-2050)

**The period to promote city development with globally competitive, creative and socially active citizens.**

1. Develop secondary schools and kindergartens as comprehensive development centers that meet the needs and requirements of pupils.
2. Introduce technical and technological advances in physical education and sports activities and enable people of all ages to receive sports consulting services based on artificial intelligence.
3. Increase the labor value of urban population and develop a poverty-free city.

### ACTIVITIES TO BE IMPLEMENTED IN 2021-2030 OF THE OBJECTIVE

- 9.1.1. Build, expand and renovate premises for secondary schools and kindergartens, and thus increase the number of their seats and bring the group size to the normative level.
- 9.1.2. Ensure compliance with environmental standards in secondary schools and kindergartens.
- 9.1.3. Provide necessary machineries and equipment to secondary schools and kindergartens, establish e-learning and distance learning halls in general education schools, lifelong education centers, vocational training and production centers, and supply cameras to kindergartens.
- 9.1.4. Gradually establish a comprehensive child development center with sports and art halls and library in each school.
- 9.1.5. Develop and implement teacher and student exchange programs and scholarships with partner countries and cities.
- 9.1.6. Increase the quality and availability of childcare services to enroll 1-2 age toddlers.
- 9.1.7. Increase access to lifelong learning services, implement training programs for adults and the elderly, and strengthen social partnerships.
- 9.1.8. Increase the capacity of child protection centers, day care centers for people with disabilities, and orphanages, and provide their necessary improvement and maintenance.
- 9.1.9. Build, expand and renovate health facilities, create the comfort and environment for their service that meet the requirements of standard, increase the number of their beds, and build new district standard health centers.
- 9.1.10. Establish a well-coordinated regional network of medical care and services and ensure their sustainable operation.
- 9.1.11. Develop the district health centers into general hospitals and district public health centers, and improve their diagnostic and treatment capacity, and gradually develop services for general surgery, endoscopic surgery, cancer palliative care and rehabilitation.
- 9.1.12. Introduce new and advanced technologies in health first aid and services and strengthen rapid diagnostics, day care, rehabilitation and home care in family and village health centers.
- 9.1.13. Provide high-tech and skilled care and services in the country by introducing advanced scientific technologies and innovations, inviting doctors and medical specialists from developed countries to work in teams, and training national specialists.
- 9.1.14. Develop a model for long-term health care, establish rehabilitating, facilitating and nursing centers, and ensure the participation of private health organizations in this area.

- 9.1.15. Organize a public health council in Ulaanbaatar and ensure its sustainable operation.
- 9.1.16. Introduce advanced telemedicine and e-health technologies in remote districts and satellite cities.
- 9.1.17. Enable citizens of all ages to receive artificial intelligence-based sports consulting services by introducing modern technical and technological advances in physical education and sports activities and services.
- 9.1.18. Increase the availability of standard sports grounds for citizens of all ages in the city, and design and build sports facilities.
- 9.1.19. Provide an environment that enhances the organization's social responsibility and provides services to people with disabilities.
- 9.1.20. Implement projects designed to cultivate civilized urban citizens involving educational institutions at all levels and incorporate social impact measures in activities of the state organs and mass media.
- 9.1.21. Support the provision of psychological counseling and services to the population.
- 9.1.22. Diversify employment options and develop programs that enable employees to become trained and qualified.



## ENVIRONMENT-FOCUSED SOLUTIONS

**OBJECTIVE 9.2. Develop a comfortable city with balanced ecosystem, low greenhouse gas emissions and green technologies, and ensure a healthy and safe living environment for citizens.**

### THE OBJECTIVE'S STAGES OF IMPLEMENTATION AND EXPECTED RESULTS

#### STAGE I (2021-2030)

**The period to ensure a healthy and safe living environment for citizens and introduce a recyclable, responsible and economical consumption.**

1. Establish value and ecological resilience of ecosystem and implement a sustainable management of natural resources adapted to climate change.
2. Reduce air, soil and environmental pollution and pollutants by introducing environmentally friendly and advanced know-how and technologies.
3. Provide water resources and guaranteed sources of drinking water, collect and reuse surface water, and increase the value of water.
4. Introduce technological innovations in waste sorting, collection and transportation services and create a system to support low-emission and waste-free consumption.
5. Increase the city's green facilities and parks to all possible locations, and reorganize the city's cemeteries.
6. Strengthen the capacity to early detect disasters, and mitigate and be resilient to adverse effects of climate change.
7. Ensure the food security and establish a network of organic food supplies from rural areas.
8. Bring air and environmental quality monitoring capacity to the international level.
9. Introduce and implement green building standards.

#### STAGE II (2031-2040)

**The period of green and smart technology that ensures the city's ecosystem balance.**

1. Protect city ecosystems and biodiversity, improve river flow, build ponds and reservoirs to store water resources, and bring deep-source recharge to ecological level.
2. Establish an efficient water reuse system.
3. Introduce a technology for sorting and automatic collection of household waste (waste collection line).
4. Introduce eco-electric public transportation to reduce greenhouse gas emissions.

5. Transfer energy consumption of ger area and green zone households to renewable energy sources and provide opportunities to supply electricity generated by households to the central grid.
6. Implement sustainable management of forest protection and rehabilitation and create forest ecosystems.

### STAGE III (2041–2050)

The period to ensure environmental balance with low greenhouse gas emissions.

1. Minimize greenhouse gas emissions to the lowest level.
2. Develop a system to mitigate climate change.
3. Develop into a risk-free city that is fully prepared in terms of information sharing, communication and resource management in the event of natural disasters, climate change, potential disasters and emergency.
4. Fully introduce smart and green technology in creating comfortable and healthy living environment.

#### ACTIVITIES TO BE IMPLEMENTED IN 2021–2030 OF THE OBJECTIVE

- 9.2.1. Establish the values and ecological resilience of city ecosystem develop a comprehensive management system for assessing climate change vulnerability and risks and reducing disaster risks, and establish green zone ecological corridors.
- 9.2.2. Create a green belt to restrict settlements along the boundaries of Ulaanbaatar's residential areas.
- 9.2.3. Ensure the food security and establish a network of organic food supplies from rural areas.
- 9.2.4. Reduce all sources of pollution and create opportunities for reuse and neutralization through the introduction of environmentally friendly and advanced techniques and technologies.
- 9.2.5. Establish a city forest ecosystem that is resilient to climate change, implement sustainable forest protection management, and gradually introduce a payment system of ecosystem service.
- 9.2.6. Implement management to protect soil, rehabilitate soil pollution by biological and technological methods, rehabilitate forests in ecologically important locations and purchase planted forests for the state forest fund.
- 9.2.7. Implement sustainable natural resource management with joint participation.
- 9.2.8. Create climate-resilient forest ecosystems and implement sustainable management of forest protection and rehabilitation on the basis of new scientific and technological achievements.
- 9.2.9. Implement comprehensive measures to reduce forest degradation and deforestation, and ensure normal forest growth.

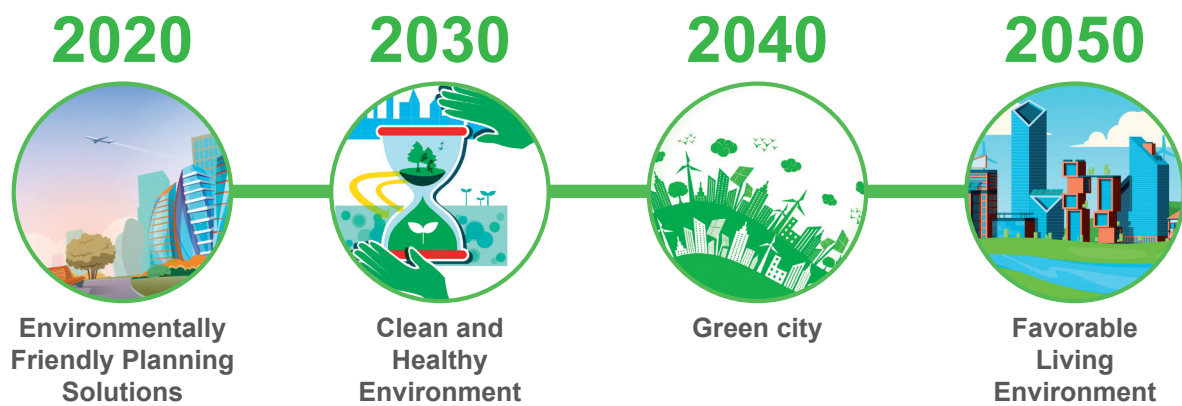
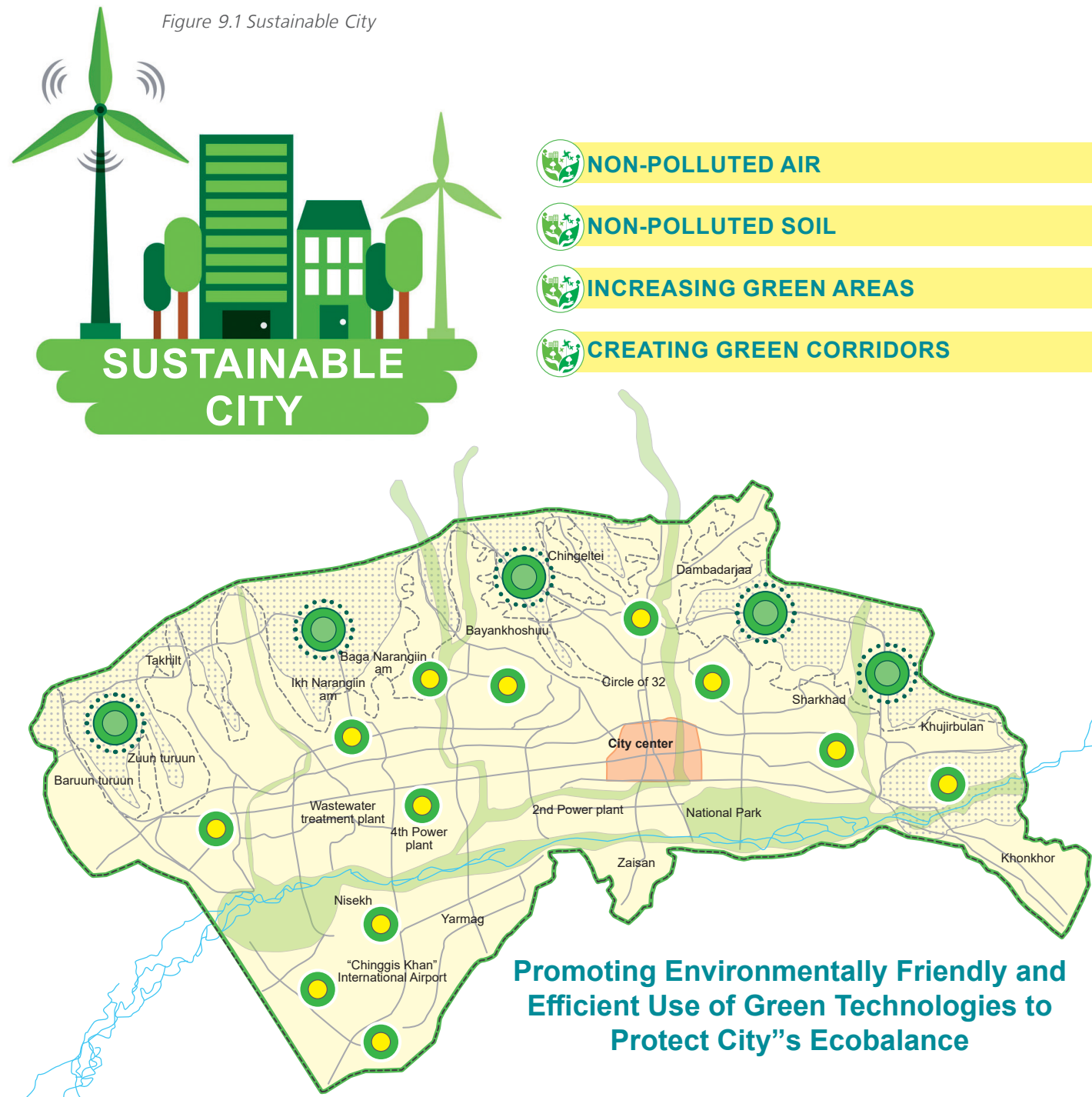
- 9.2.10. Limit interest in land tenure in forests and water reservoirs by increasing land payments for citizens and business entities that own and use land in forests and water reservoirs, and by collecting ecosystem service fees, and use their proceeds for water and forest resources protection projects.
- 9.2.11. Bring the operation of tree nursery to international standards, improve the quality of seedlings used in green facilities, and increase the variety of useful plants.
- 9.2.12. Strengthen environmental quality monitoring capacity, expand research and analysis, and increase laboratory capacity.
- 9.2.13. Reduce air pollution by reducing emissions from vehicles, intensify ger area redevelopment, and implement a gradual and systematic approach to housing in areas with high levels of air pollution.
- 9.2.14. Create a unified database of land damaged by mining, and eliminate duplication of rehabilitation technology, methodology and legal environment.
- 9.2.15. Provide and protect water resources and guaranteed sources of drinking water, increase the value of water and increase its rational use by economic measures.
- 9.2.16. Take the protection zones of water reservoirs and sanitary zones of water supply sources under the special protection and strictly follow the regime.
- 9.2.17. Develop and commission a feasibility study and working design for the Tuul Water Complex project to increase drinking water resources.
- 9.2.18. Establish an integrated monitoring center to ensure the safety of water supply sources, reservoirs, deep wells and pumping stations, equip it with tele-monitoring, communication and signaling equipment, and implement a project to disconnect transmission and distribution lines.
- 9.2.19. Create ponds and reservoirs collecting surface waters at all possible locations.
- 9.2.20. Reduce flood risk by taking river sources and wetlands under local special protection and maintaining their water absorption capacity to prevent construction.
- 9.2.21. Implement sustainable management of accumulation and rational use water resources.
- 9.2.22. Create a legal environment for the processing waste sludge and sewage sludge into final products, processing and reusing treated water, and implement a project of the main line network for its introduction into production and reuse.
- 9.2.23. Re-treat wastewater from Ulaanbaatar's water supply sources, water treatment plants and other treatment facilities.
- 9.2.24. Gradually implement measures to limit the use of fresh groundwater for industrial purposes and introduce the use of gray water.



- 9.2.25. Organize step-by-step work to bring ger area sanitation facilities up to standard by conducting an integrated environmental assessment of household pit latrines and pollution caused by human faulty activities and creating a legal environment for compensation for environmental pollution.
- 9.2.26. Renovate non-standard household sanitation facilities and turn manure into compost.
- 9.2.27. Use a combination of administrative and incentive methods to reduce emissions and increase waste-free consumption.
- 9.2.28. Reuse ash, sludge and waste from domestic and power plants to produce secondary products.
- 9.2.29. Carry out technological innovations in services of sorting, collection and transportation of waste, develop appropriate standards, transfer to recycling plants, clean and rehabilitate centralized waste disposal sites.
- 9.2.30. Establish a system for sorting, collection, transportation, recycling, neutralization and disposal of hazardous waste.
- 9.2.31. Diversify, renovate and develop small and medium enterprises for recycling of secondary raw materials, and develop production with waste-free technology.
- 9.2.32. Completely close and rehabilitate the landfill area of centralized waste disposal sites in Narangiin Enger and Tsagaandavaa.
- 9.2.33. Organize the works to certificate city buildings and facilities, determine their quality and age, inspect and certify their earthquake resistance, and strengthen or demolish and rebuild risky facilities.
- 9.2.34. Develop a methodology and modeling of flood protection facilities in Ulaanbaatar, develop and approve a master plan for engineering preparations, conduct hydrogeological measurements and construct boreholes in hazardous areas, and connect them to an integrated monitoring system.
- 9.2.35. Become a city free of flood risk by improving information, communication and resource management systems and fully providing engineering preparations in the events of potential disasters and emergencies.
- 9.2.36. Intensify and support activities for increasing the area of green facilities and gardening city in Ulaanbaatar, and create optimal motivations for financing, taxes, loans and incentives.
- 9.2.37. Update irrigation methods and technologies for urban green facilities, observe the watering regime, build new dams and canals in flood risk areas, create floating ponds and underground reservoirs when building drainage lines for soil and road water, use water for many purposes, and build river flow regulation solutions.
- 9.2.38. Strengthen a monitoring system with citizens' participation to protect and increase city's green facilities and formulate urban culture.
- 9.2.39. Renew the value of forest ecosystems of green zones and implement multilateral measures for forest protection.
- 9.2.40. Increase street lighting, fully supply cameras to streets, ensure public safety, ensure uniform standards for street and square names and building addresses, and enhance urban culture.
- 9.2.41. Reduce fire risks by constructing and rehabilitating soil strips for forest fire protection in Ulaanbaatar.
- 9.2.42. Increase the network of local protected areas, create favorable conditions for the growth and reproduction of biodiversity, and prevent ecological imbalances.



Figure 9.1 Sustainable City







## PLANNING-CENTERED DEVELOPMENT

**OBJECTIVE 9.3. Develop an internationally competitive metropolis with rapidly developing satellite cities with the proper settlement system based on optimal spatial planning.**

### THE OBJECTIVE'S STAGES OF IMPLEMENTATION AND EXPECTED RESULTS

#### STAGE I (2021-2030)

**The period to decentralize the city, increase access to its infrastructure and introduce smart technology innovation.**

1. Carry out city development by formulating a general development plan taking into account the required planning of Ulaanbaatar city concentration, expansion and restrictions of residential areas, land management, road network, public transportation and underground space, and connecting it to the integrated information system.
2. Increase housing supply under the city redevelopment project.
3. Increase capacity of the engineering infrastructure and introduce new technologies.
4. Establish safety automation at the spatial level of the city.
5. Introduce multiple and smart public transportation.
6. Relocate enterprises and businesses entities having a negative impact on Ulaanbaatar.
7. Construct the Bogd Khan freight railway.
8. Establish road zoning in Ulaanbaatar and regulate traffic of vehicles.

#### STAGE II (2031-2040)

**The period to accelerate the city development with full infrastructure and smart systems.**

1. Carry out the decentralization within Ulaanbaatar by developing new city centers, sub-centers, specialized centers and community centers with cultural, educational, trade and services, housing and social infrastructures, and establish development corridors connecting them.
2. Strengthen e-based financial technology, e-banking, e-money, artificial intelligence, blockchain technology, automation, cloud technology, hard and soft infrastructure.
3. Increase the share of new energy sources in the total energy mix and supply electricity to regions.
4. Build a passenger transport network around the Bogd Khan Mountain.
5. Establish a highway connecting satellite towns and villages.
6. Create a comprehensive network of city streets and roads.

#### STAGE III (2041-2050)

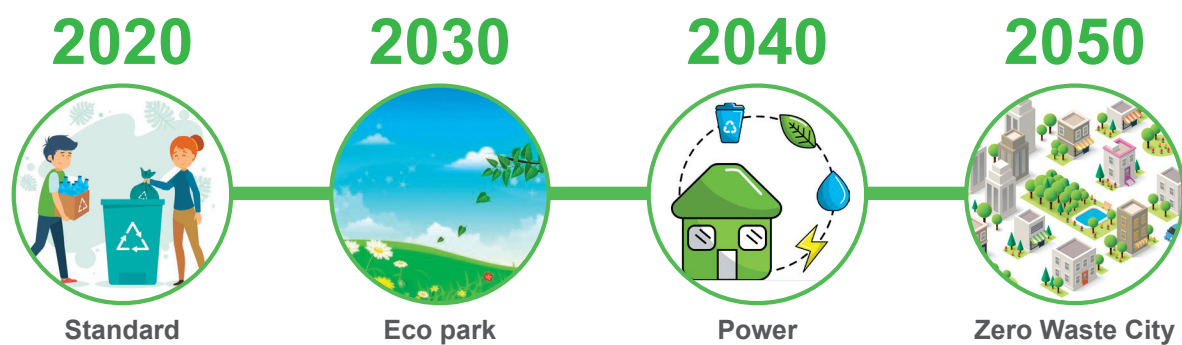
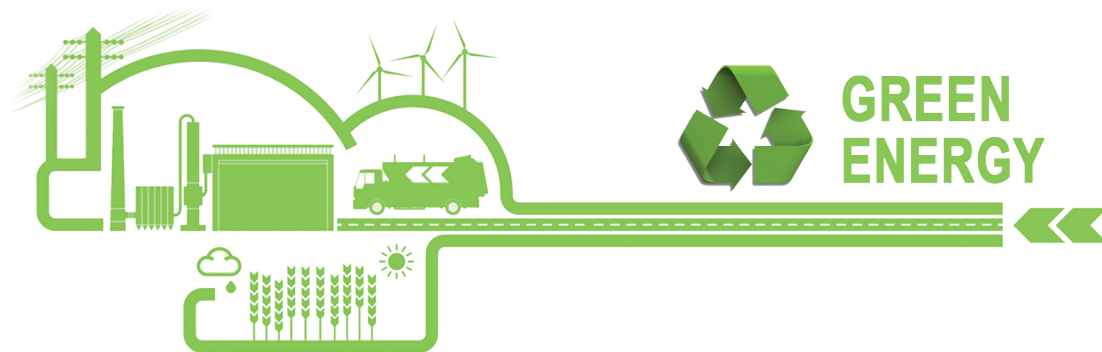
**The period of metropolitan development with comfortable living environment.**

1. Develop a metropolitan with comfortable living environment.
2. Introduce new generation technologies of smart system based on artificial intelligence in the city development.
3. Establish a modern highway transport network connecting regions with Ulaanbaatar.
4. Increase green energy production and ensure sustainable energy supply to the region.
5. Host and organize major international, continental and world festivals.
6. Establish and develop an underground transportation network.

### ACTIVITIES TO BE IMPLEMENTED IN 2021-2030 OF THE OBJECTIVE

- 9.3.1. Implement city development activities by developing a general development plan taking into account the required planning of Ulaanbaatar city concentration, expansion and restrictions of residential areas, land management, road network, public transportation and underground space, and connecting it to the integrated information system.
- 9.3.2. Carry out the decentralization within Ulaanbaatar by establishing new city centers, sub-centers, specialized centers and community centers with cultural, educational, trade, service, housing and social infrastructures.
- 9.3.3. Increase housing supply under the city redevelopment project.
- 9.3.4. Increase the supply of various types of housing (income-based, rental, green) and implement a housing program for 150,000 households.
- 9.3.5. Develop and implement city zoning rules.
- 9.3.6. Regularly implement activities to preserve, protect and restore the historical and cultural heritage.
- 9.3.7. Implement a unified policy to relocate enterprises and business entities that have a negative impact on Ulaanbaatar out of the city.
- 9.3.8. Optimally use the underground space for roads, transport and engineering networks.
- 9.3.9. Introduce new generation technologies of smart system based on artificial intelligence in the city development.
- 9.3.10. Become a metropolis that is internationally and regionally competitive.
- 9.3.11. Establish an integrated automation network of alarm and control to ensure safety at the spatial level of the city.
- 9.3.12. Introduce multiple and smart public transportation.

Figure 9.2 Zero Waste City

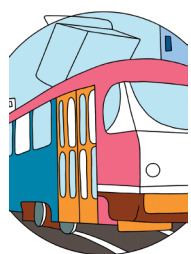


2050



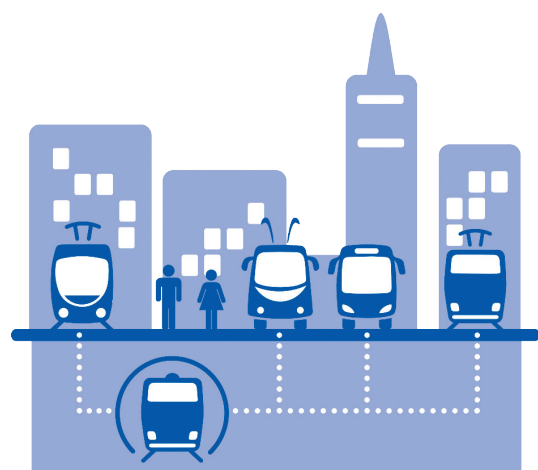


Figure 9.3 Intelligent Multi Transport System



## INTELLIGENT MULTI TRANSPORT SYSTEM

- AUTO TRANSPORT
- AIR TRANSPORTATION
- BUS RAPID TRANSIT TRAFFIC
- ELECTROMAGNETIC TRANSPORT
- UNDERGROUND TRANSPORT
- INTERCITY TRANSPORT
- REGIONAL HIGHWAY TRANSPORT



Introducing Multiple and Smart High-Speed Public Transportation to Connect Ulaanbaatar City with Its Satellites and Other Regions and Enable Efficient Traffic Free of Congestion

2020



Technology Innovation

2030



Jam-free City

2040



Light Traffic for Intercity between Satellite Cities

2050



Regional Highway Traffic



2050

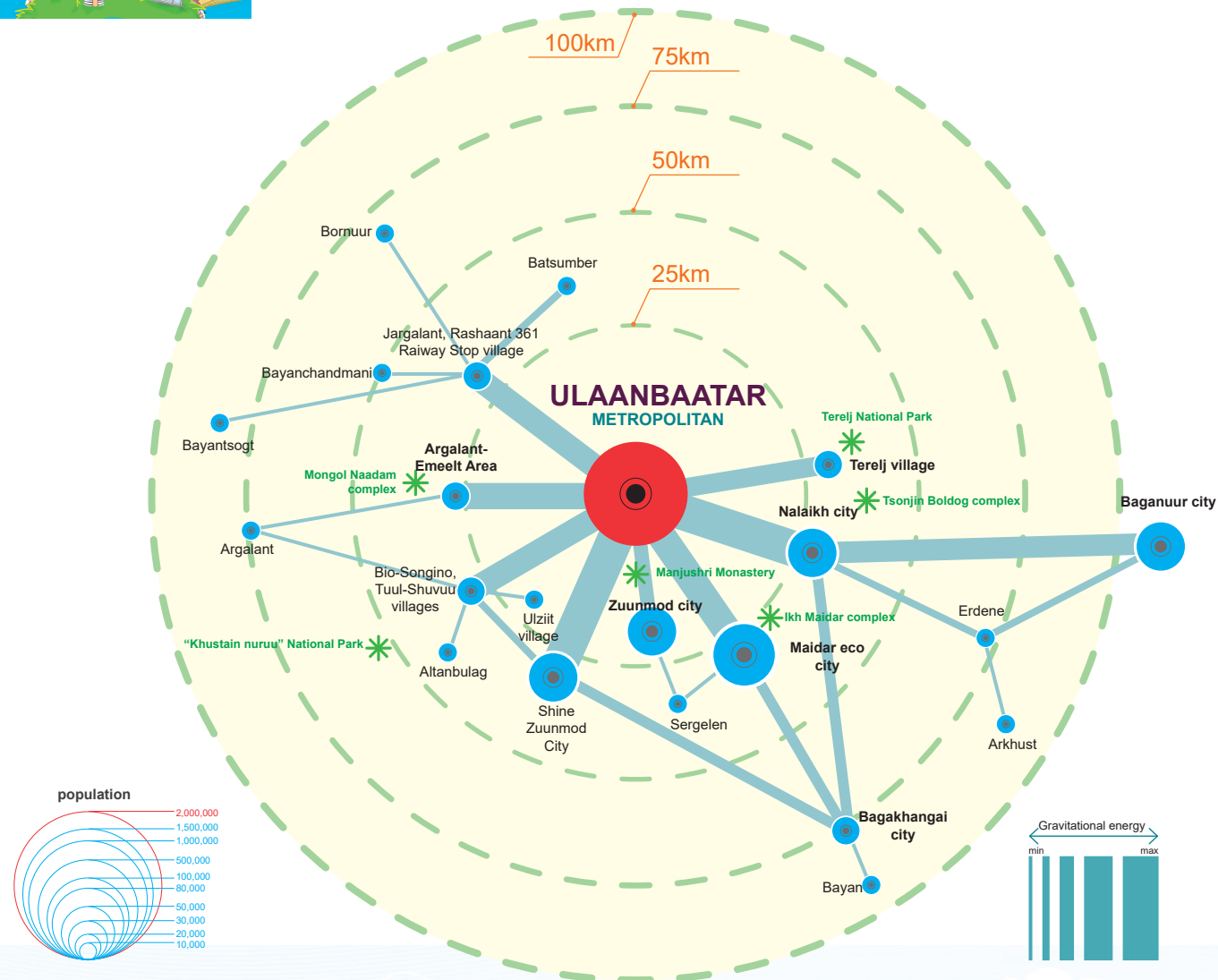




Figure 9.4. Ulaanbaatar Metropolitan



## ULAANBAATAR METROPOLITAN



Developing Ulaanbaatar as Internationally Competitive Metropolis with Rapidly Developing Satellite Cities to Ensure Rational Settlement System and Optimal Spatial Planning.

2020



Ulaanbaatar city

2030



Ulaanbaatar and Satellite Cities

2040



Ulaanbaatar Agglomeration

2050



Ulaanbaatar metropolitan

## DEVELOPMENT PLANNING

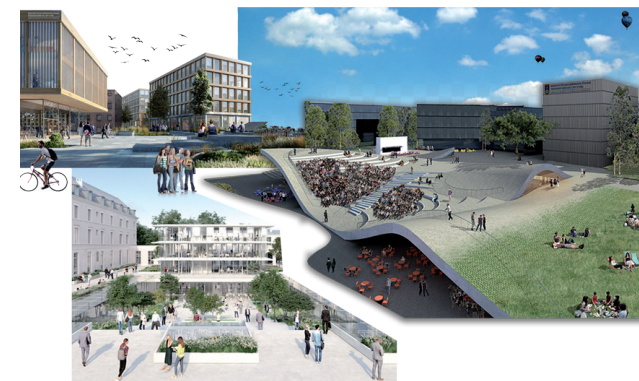
### TOURISM



### FOOD AND AGRICULTURE INDUSTRIES



### CULTURE, EDUCATION, COLLEGES AND UNIVERSITIES



### FREE ZONES, TRANSPORT AND LOGISTICS



### BANKING, FINANCE, TRADE AND SERVICES



### INDUSTRY AND TECHNOLOGY PARK



2050



- 9.3.13. Carry out the gradual construction of the city's horizontal, vertical and circular road network, and road networks of satellite sites.
- 9.3.14. Introduce high-capacity "electromagnetic transportation" along large corridors with high passenger traffic.
- 9.3.15. Introduce "air suspension transport" and build its dedicated parking lots and infrastructure.
- 9.3.16. Establish a special road bus network.
- 9.3.17. Relocate households and business entities included in the protection zones of roads and road facilities, manage land use and organization, and build networks of streets and roads reflected in the general development plan.
- 9.3.18. Fully implement smart systems in the road networks.
- 9.3.19. Establish a unified auto service registration and information database and improve the warranty service system in the auto service sector.
- 9.3.20. Establish distribution centers based on the city sub-centers and facilitate large-scale trucking on suburban main roads.
- 9.3.21. Depending on the flow of passengers, introduce high-capacity transport connecting satellite cities.
- 9.3.22. With integrated coordination, establish terminals and parking lots for transferring passengers on another vehicle.
- 9.3.23. Develop transportation services for school children.
- 9.3.24. Establish a network to charge vehicles with electricity and gas.
- 9.3.25. Renovate the public transport management, information and control center and fully introduce the smart system into the road networks.
- 9.3.26. Build and expand sidewalks and bicycle paths, increase tunnel and bridge crossings, and establish their monitoring systems.
- 9.3.27. Establish a sophisticated car parking management system.
- 9.3.28. Establish road zoning in Ulaanbaatar and regulate traffic of vehicles.
- 9.3.29. Introduce car co-ownership and car rental services in Ulaanbaatar.
- 9.3.30. Implement projects and programs to develop city taxi services.
- 9.3.31. Build a passenger transport network around the BogdKhan Mountain.
- 9.3.32. Construct the BogdKhan freight railway.
- 9.3.33. Build highways connecting cities and villages.
- 9.3.34. Introduce high-speed transportation on special roads connecting regions with Ulaanbaatar.

- 9.3.35. Increase the capacity of engineering infrastructure, introduce new technologies and bring it to full supply.
- 9.3.36. Implement a national energy saving program.
- 9.3.37. Build partial and independent heating sources with environmentally friendly and advanced technology that work during peak hours in remote areas of the capital city, connect them to the central heating supply system and increase their efficiency.
- 9.3.38. Renovate and commission the Ulaanbaatar central wastewater treatment plant.
- 9.3.39. Implement a project to build a main line network for processing waste sludge and sewage sludge into final products and reuse.
- 9.3.40. Build and operate the western lower source of water supply in Ulaanbaatar, water treatment plants and their transmission lines.
- 9.3.41. Improve the sanitation facilities in ger areas by protecting water resources from pollution, enforcing regimes, and creating a legal environment for compensation for environmental pollution.
- 9.3.42. Become a city free of flood risk by fully providing engineering preparations.
- 9.3.43. Develop a feasibility study for the "absorbent technology" program, introduce international norms and standards, and create its legal environment.
- 9.3.44. Introduce new engineering infrastructure solutions and technologies.
- 9.3.45. Implement water reuse technology at the regional level.
- 9.3.46. In accordance with the General development plan of Ulaanbaatar, gradually build and expand the engineering infrastructure of the capital city and satellite cities and villages.
- 9.3.47. Use of renewable energy by connecting ger areas to centralized, partial and independent engineering supply within the framework of city redevelopment.
- 9.3.48. Build a 30,000-40,000-seat stadium that meets international standards for hosting continental and world championships and major sporting events.
- 9.3.49. Implement projects to promote Mongolian intellectual creations in the world market and promote the national traditional cultural heritage in the framework of cooperation with related cities.
- 9.3.50. Establish and implement art and cultural programs with national features for tourists.
- 9.3.51. Develop traditional Mongolian sports (archery, ankle archery, etc.), equestrian centers (equestrian polo, camel polo), establish their national teams, and support the system of inviting foreign and domestic teams to play.



## GOOD GOVERNANCE OF THE CITY

**OBJECTIVE 9.4. Become a city with a stable legal environment and good governance ensuring city rules and standards.**

### THE OBJECTIVE'S STAGES OF IMPLEMENTATION AND EXPECTED RESULTS

#### STAGE I (2021–2030)

**The period to undertake a legal reform, strengthen human resources capacity and create a favorable environment for city governance and economic and social development.**

1. Establish an effective system of city governance, ensure the participation of citizens and the public in the planning, development, approval and decision-making at all levels, and improve opportunities for citizens to obtain information through open, accessible and transparent channels.
2. Strengthen the participation and partnership of the state organs, non-governmental organizations, the private sector and the public in city governance, and support projects and programs implemented by the private sector under its social responsibility.
3. Digitize information and create a system for delivering e-state services to citizens.
4. Diversify city taxes and create excise taxes.
5. Renew the legal environment for the city's independent development, and develop a set of city rules and master plans for sectors in line with regional development policies.
6. Improve the management of state organs and strengthen human resources.

#### STAGE II (2031–2040)

**The period to strengthen sustainable city governance and create a legal environment for friendly international relations.**

1. Create full opportunities for citizens to receive state services online without having to visit state organs in person and strengthen the system of state services that respect citizens.
2. Prioritize and finance investment projects and activities of the city budget, establish an investment fund, and set up integrated management system.
3. Transform local state-owned enterprises into public companies, increase efficiency and improve management.
4. Establish a system for efficient possession, management, development and free commercialization of unused real estate and make it transparent and open to the public.

#### STAGE III (2041–2050)

**The period to strengthen good city governance and sustainable international relations.**

1. Develop city governance with internationally recognized “smart” state services that create comfortable living and working environment for citizens.
2. Strengthen good governance in the citizen-centered city.
3. Strengthen city e-governance in line with international standards.
4. Fully implement e-government technology at all levels and build state services free from corruption and bureaucracy.

### ACTIVITIES TO BE IMPLEMENTED IN 2021–2030 OF THE OBJECTIVE

- 9.4.1. Form the legal environment for the city's independent development, and develop a set of city rules and master plans for sectors that are in line with regional development policies.
- 9.4.2. Establish a system for developing and enforcing unified city standards and monitoring their implementation.
- 9.4.3. Establish an effective system of city governance, ensure the participation of citizens and the public in the planning, development, approval and decision-making at all levels, and improve opportunities for citizens to obtain information through open, accessible and transparent channels.
- 9.4.4. Strengthen the participation and partnership of the state organs, non-governmental organizations, the private sector and the public in city governance, and support projects and programs implemented by the private sector under its social responsibility.
- 9.4.5. Improve the management and coordination of state organs and strengthen human resources.
- 9.4.6. Create a legal environment for organizing top international events.
- 9.4.7. Digitize information and create a system for electronic delivery of state services to citizens.
- 9.4.8. Establish a smart and safe tourism service system.
- 9.4.9. Introduce car co-ownership and car rental services in Ulaanbaatar.
- 9.4.10. Diversify city taxes and create excise taxes.
- 9.4.11. Create legal regulations that promote healthy, safe and green development of the city.
- 9.4.12. Implement policies and programs to increase the social responsibility of state organs, non-governmental organizations and the private sector operating in Ulaanbaatar.

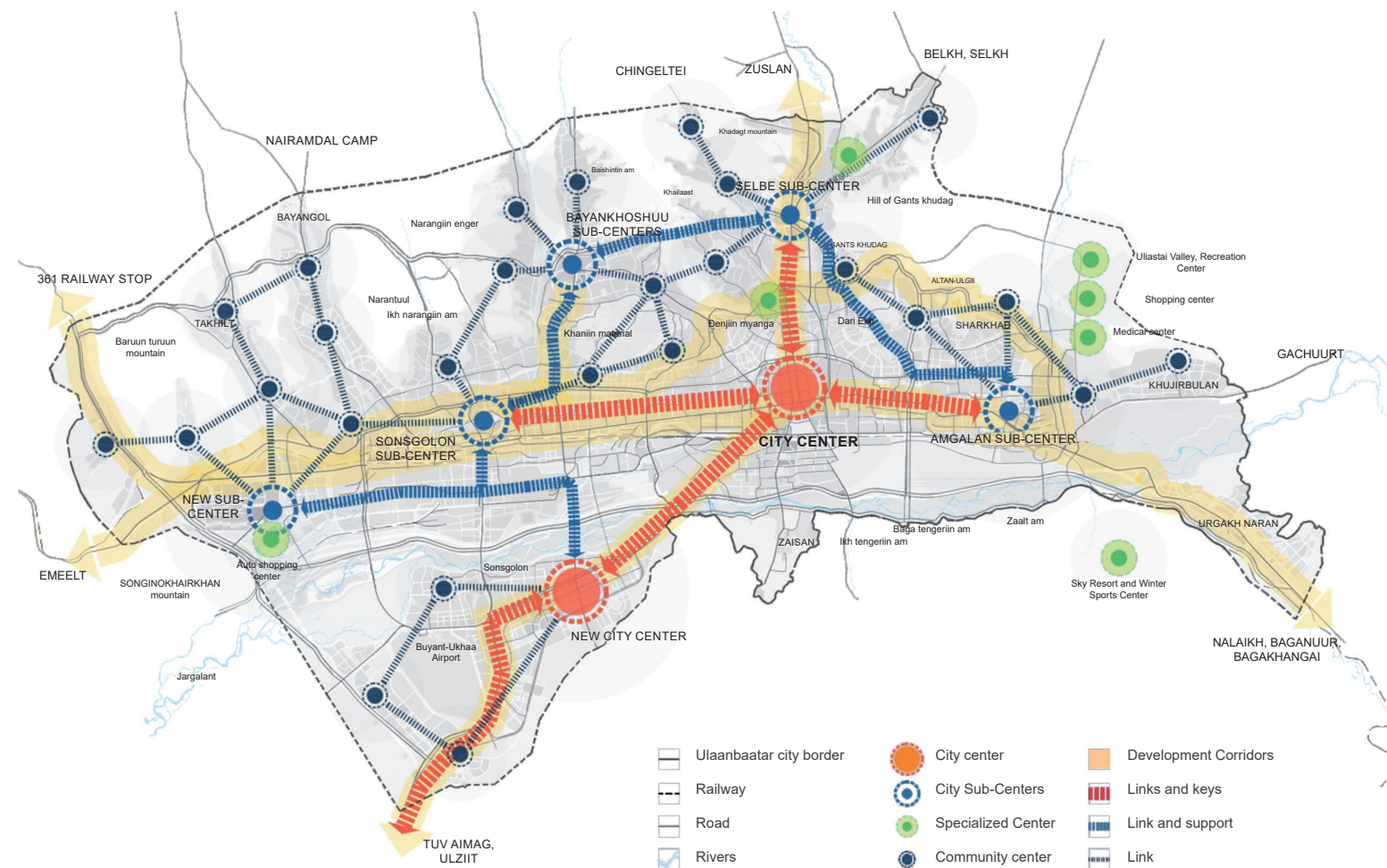




Figure 9.5 Multi-center City



## MULTI-CENTER CITY



Decentralizing Ulaanbaatar by Diversifying and Developing the City's Center and Its Subcenters by Providing Infrastructures of Trade and Services, Culture, Education and other Services to Create a Multi-center City

## DEVELOPMENT PLANNING

### CITY CENTER



### NEW CITY CENTERS



### CITY SUB-CENTERS



### CITY SUB-CENTERS



### CITY COMMUNITY CENTER



### CITY SPECIALIZED CENTER



2050

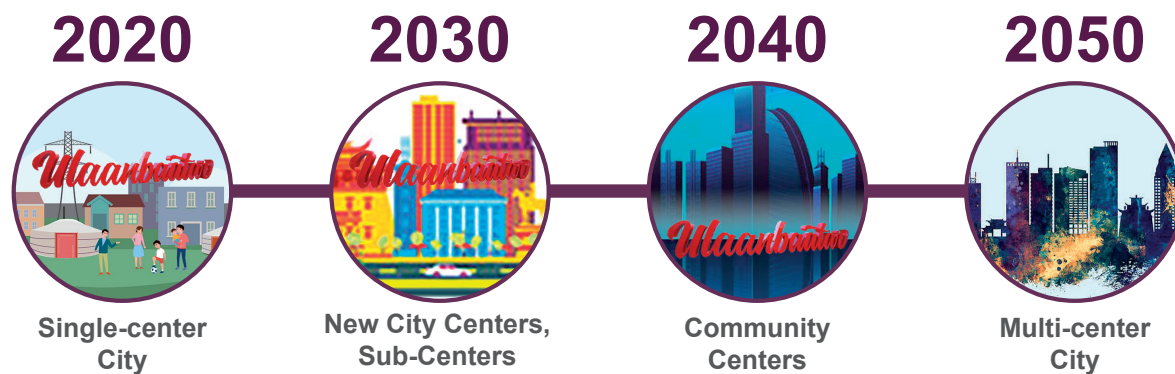






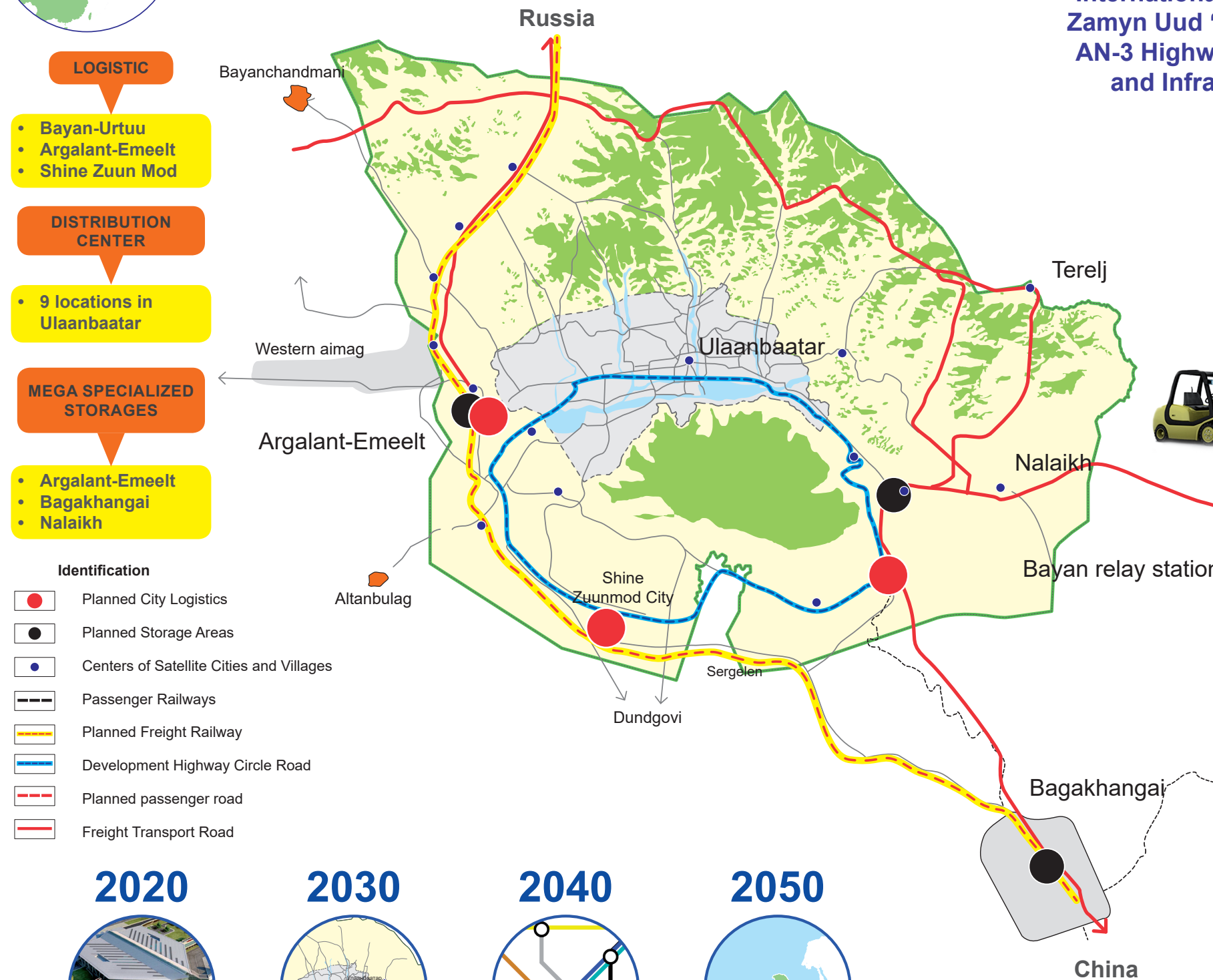
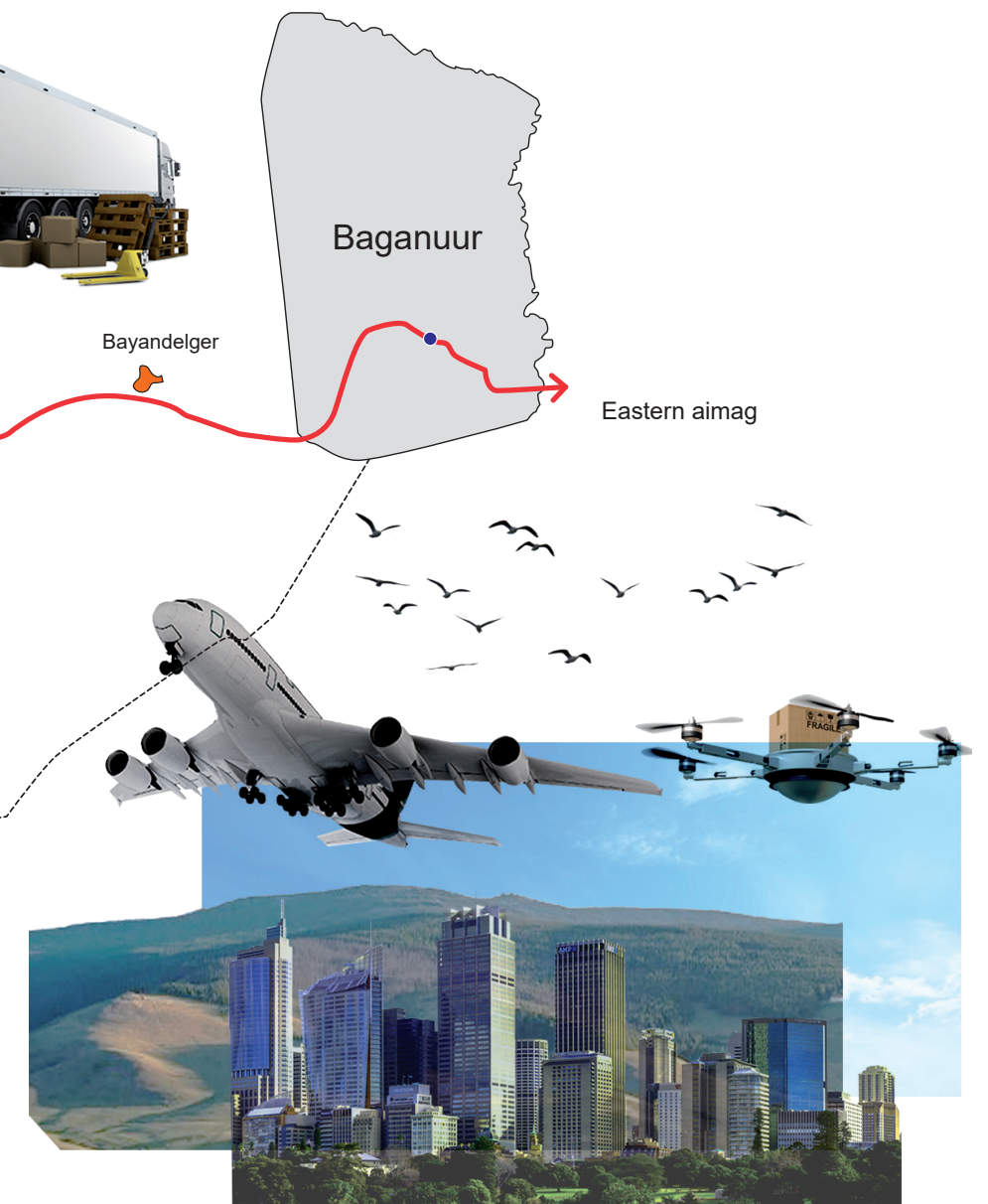
Figure 9.6 Transportation and Logistical Hub in Northeast Asia



## TRANSPORTATION AND LOGISTICAL HUB IN NORTHEAST ASIA

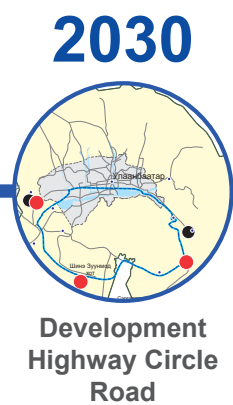
- LOGISTIC**
  - Bayan-Urtuu
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  - Shine Zuun Mod
- DISTRIBUTION CENTER**
  - 9 locations in Ulaanbaatar
- MEGA SPECIALIZED STORAGES**
  - Argalant-Emeelt
  - Bagakhangai
  - Nalaikh

Establishing Northeast Asia Hub for Passenger and Cargo Transportation Based on the New International Airport, Altanbulag-Zamyn Uud “Bogd Khan” Railway, AN-3 Highway, and Other Energy and Infrastructure Projects



2020

New International Airport



2030

Development Highway Circle Road



2040

Integrated Transport Road Network



2050

Transportation and Logistical Hub in Northeast Asia

2050



- 9.4.13. Enhance city governance with internationally recognized “smart” state services that create a conducive environment for citizens to work and live.
- 9.4.14. Strengthen good governance of the citizen-centered city.
- 9.4.15. Strengthen city e-governance in line with international standards.
- 9.4.16. Fully implement e-governance technologies at all levels and build state services without corruption and bureaucracy.
- 9.4.17. Introduce ISO9000 standard to all administrative organs of the capital city.



## SATELLITE CITIES

**Objective 9.5. Develop satellite cities that create national tourism, cultural services and industries reflecting unique national features, and serve as transport, logistics and international hubs in Northeast Asia.**

### THE OBJECTIVE'S STAGES OF IMPLEMENTATION AND EXPECTED RESULTS

#### STAGE I (2021–2030)

**The period to create new investment opportunities and expand production regions.**

1. Implement a multi-center city structure, commence construction of the new satellite cities “Shine Zuunmod” and “Maidar” and proceed gradually to building their engineering networks and housing.
2. Intensify efforts to make the capital city as a Northeast Asian hub for passenger and cargo transportation and commission the new international airport in Ulaanbaatar.
3. Establish tourism complexes along the highway bypassing cities and villages and open up a Mongolian brand shopping center.
4. Plan industrial zones in each sector and develop satellite cities as clusters.
5. Develop high-tech and knowledge-based industries.

#### STAGE II (2031–2040)

**The period to intensify economic diversification with proper settlement system.**

1. Introduce high-tech industries in the Ulaanbaatar region and set up an internationally competitive free economic zone.
2. Open up branches of multinational corporations and international organizations.
3. Increase production and services infused with new technologies and innovations in satellite towns and villages.
4. Diversify some universities and institutes by specialization and sector, and relocate them to campuses to be set up in satellite cities.
5. Relocate enterprises and business entities having negative impact on Ulaanbaatar to satellite cities in line with integrated policy and planning.

**STAGE III  
(2041-2050)**

**The period for internationally competitive rapid development.**

1. Decentralize Ulaanbaatar by diversifying and developing each satellite town and village in trade, services, culture, education, agriculture, food, light industry, transportation logistics and tourism, and increasing jobs.
2. Host world-class festivals of culture and art.
3. Become a recognized cultural and scientific center in Northeast Asia.
4. Establish an international information data center taking advantage of the country's geographic location.
5. Open up new foreign trade opportunities and create new trade networks by joining economic integration with friendly cities.

**ACTIVITIES TO BE IMPLEMENTED IN 2021-2030 OF THE OBJECTIVE**

- 9.5.1. Decentralize Ulaanbaatar by diversifying and developing each satellite town and village in trade, services, culture, education, agriculture, food, light industry, transportation logistics and tourism, and increasing jobs.
- 9.5.2. Intensify the construction of the new satellite cities "Shine Zuunmod" and "Maidar" and proceed gradually to building their engineering networks and housing.
- 9.5.3. Intensify the construction of a new city "Shine Zuunmod" to be built next to the international airport in Khushigiin Khundii.
- 9.5.4. Fully commission the new international airport in Ulaanbaatar and establish a Northeast Asia hub for passenger and cargo transportation.
- 9.5.5. Relocate enterprises and business entities that have a negative impact on Ulaanbaatar to satellite cities in accordance with unified policy and plan, and promote their activities.
- 9.5.6. Diversify some universities and institutes by specialization and sector, and relocate them to campuses to be established in satellite cities.
- 9.5.7. Establish a complex for hosting international summits and events, and develop their service management and security system.
- 9.5.8. Prioritize investment projects and activities by their economic and social benefits, finance them by the city budget, create a viable environment in which financial problems can be solved independently, and promote accumulation.
- 9.5.9. Plan industrial zones in each sector, develop satellite cities as their clusters, and sell and lease industrial technology parks to attract investment.
- 9.5.10. Introduce high-tech industries in the Ulaanbaatar region and establish a free economic zone that can compete in the world market.
- 9.5.11. Establish tourism complexes along the highway bypassing cities and villages and open up a Mongolian brand shopping center.

- 9.5.12. Create a legal environment for the development of cultural tourism and creative industries, and improve inter-sectorial coordination to expand the culture and arts market.
- 9.5.13. Implement major tourism projects and programs in the framework of public-private partnerships.
- 9.5.14. Build sports facilities that meet the requirements of hosting major international, continental and world festivals.
- 9.5.15. Establish and implement art and cultural programs with national features for tourists.
- 9.5.16. Support and develop industries based on high-tech and knowledge.
- 9.5.17. Establish an international information data center taking advantage of the country's geographic location.
- 9.5.18. Expand the Mongolian brand trade network of organic food products supplied from rural areas.



Figure 9.7 Integrated Planning for New Satellite Cities

## INTEGRATED PLANNING FOR NEW SATELLITE CITIES

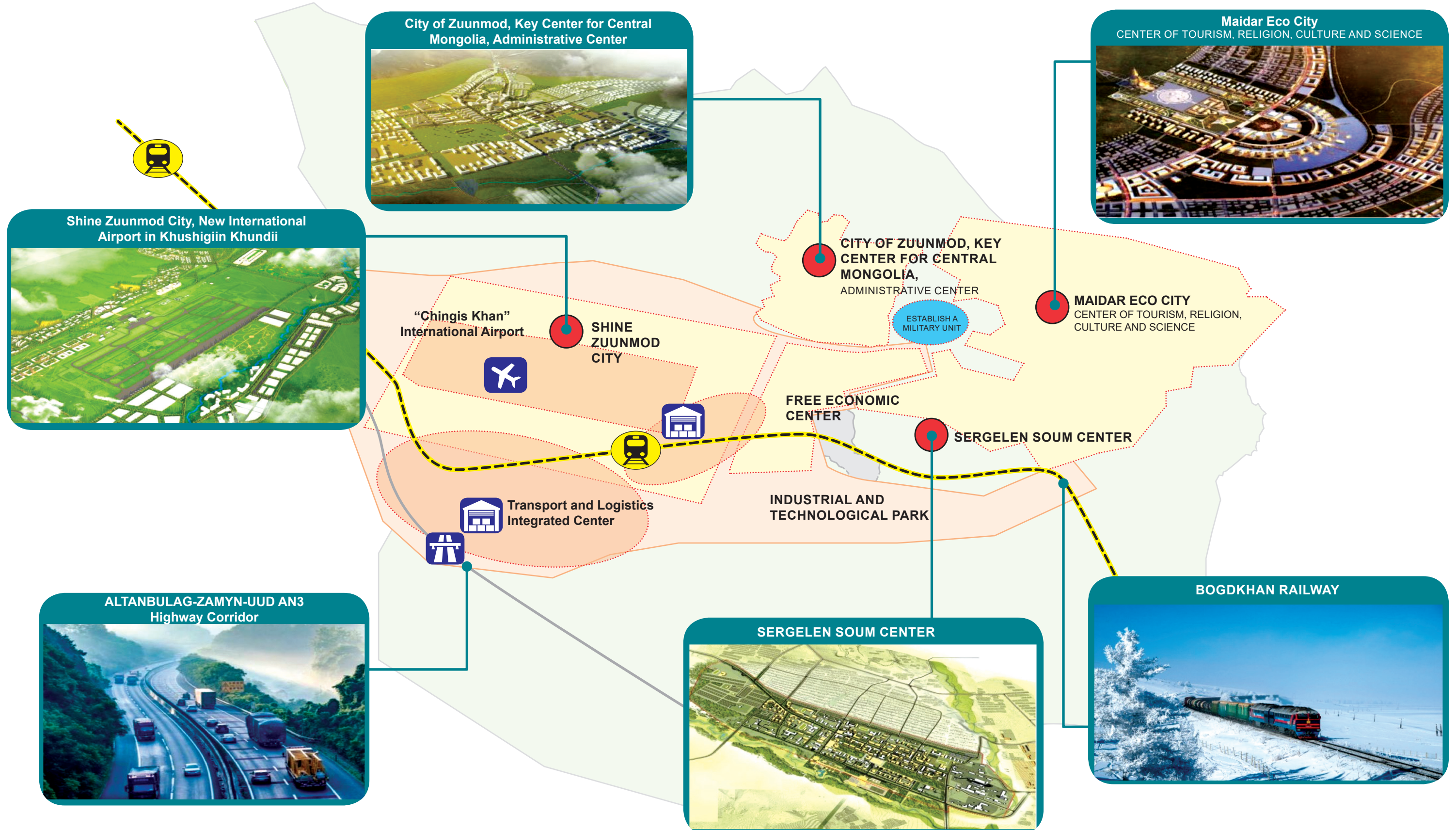
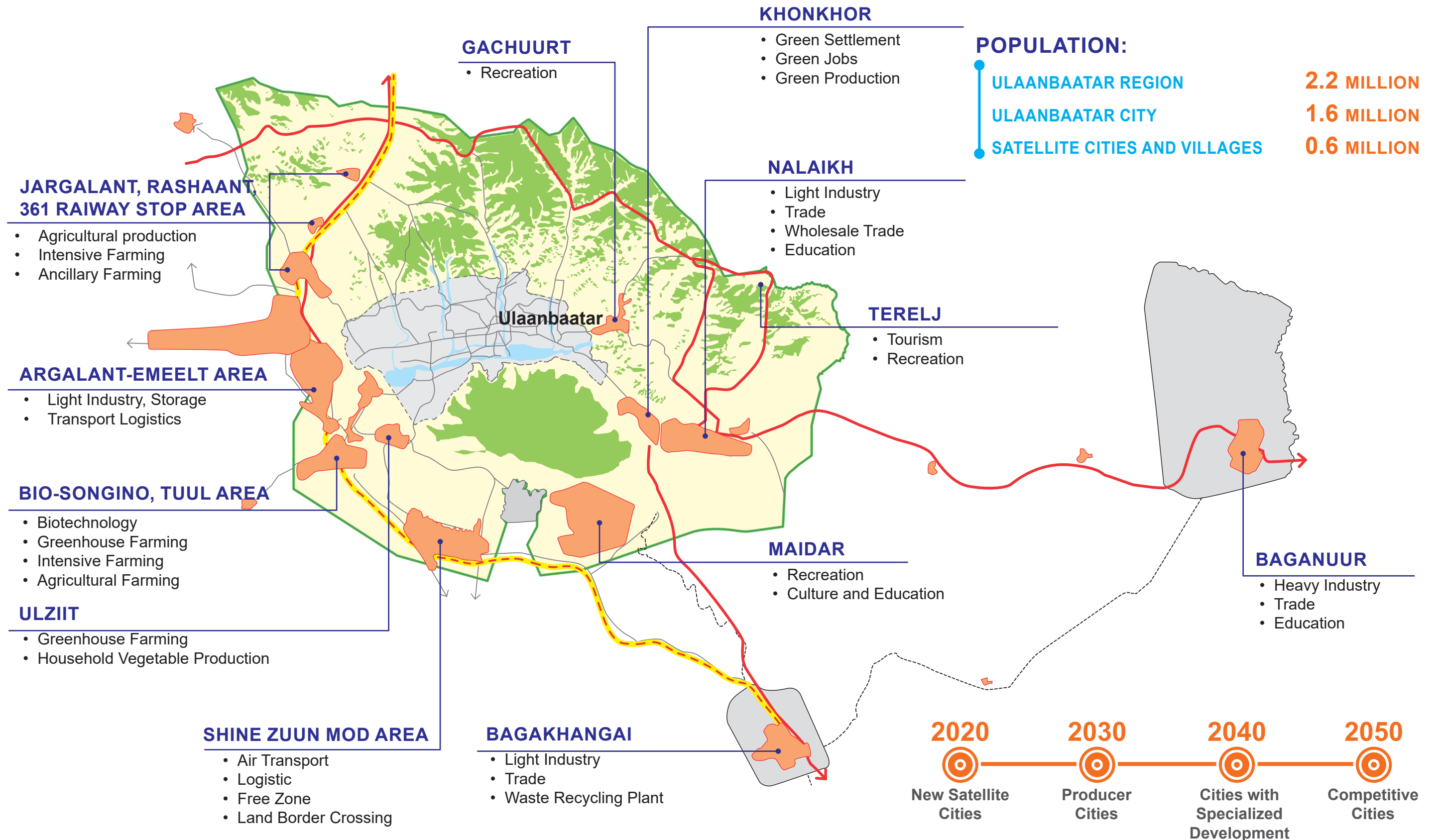




Figure 9.8 Specialized City Development

## SPECIALIZED CITY DEVELOPMENT







## COVERAGE BY CENTRAL HEATING

## SYSTEM OF ULAANBAATAR CITY

Figure 9.9 Coverage by Central Heating System of Ulaanbaatar City

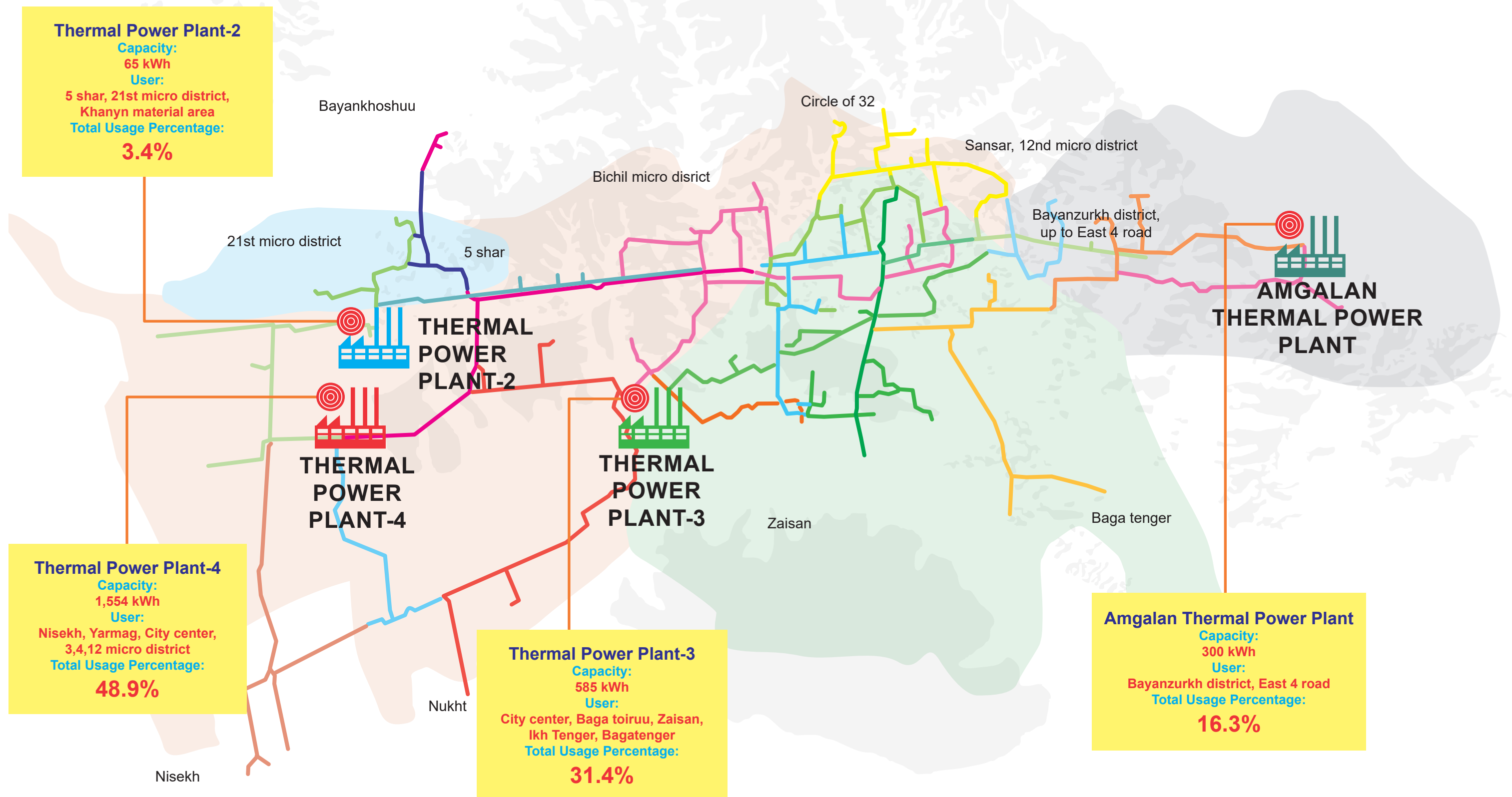
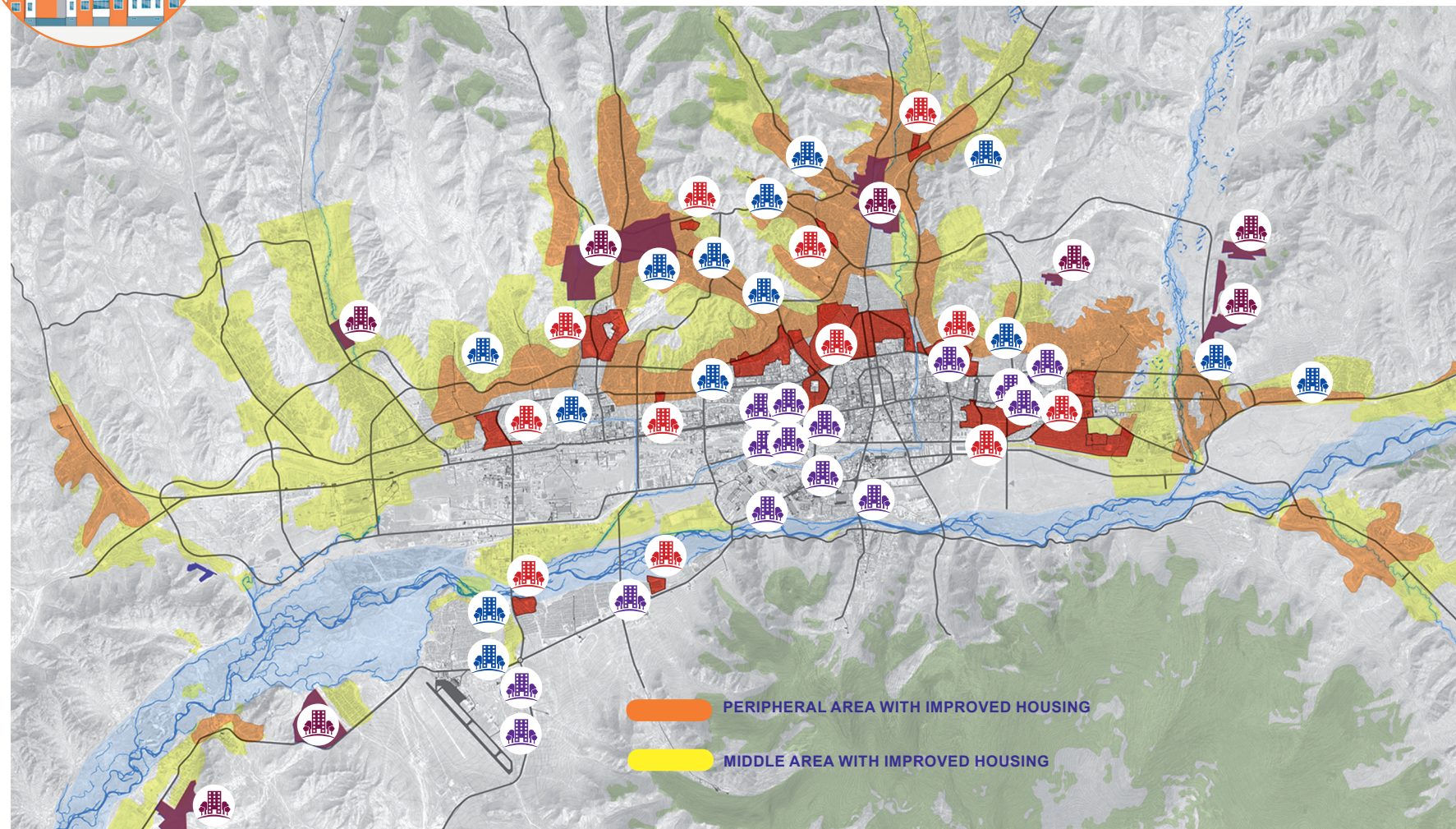




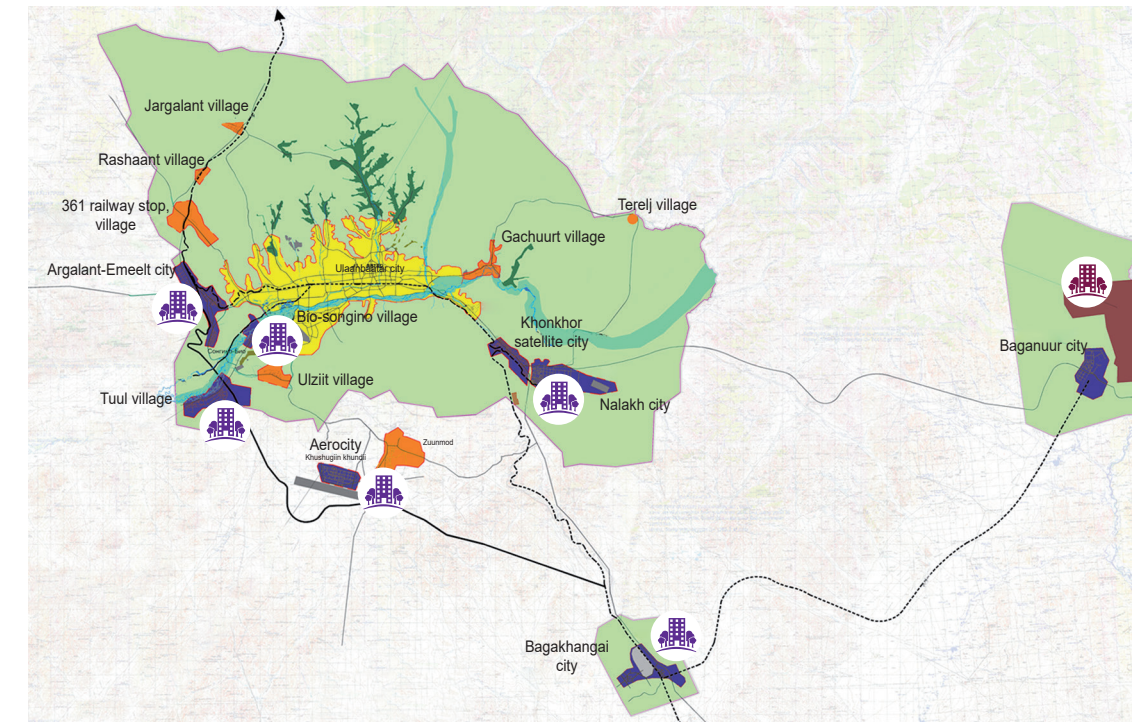
Figure 9.10 Housing Policy in Ulaanbaatar City



## HOUSING POLICY IN ULAANBAATAR CITY

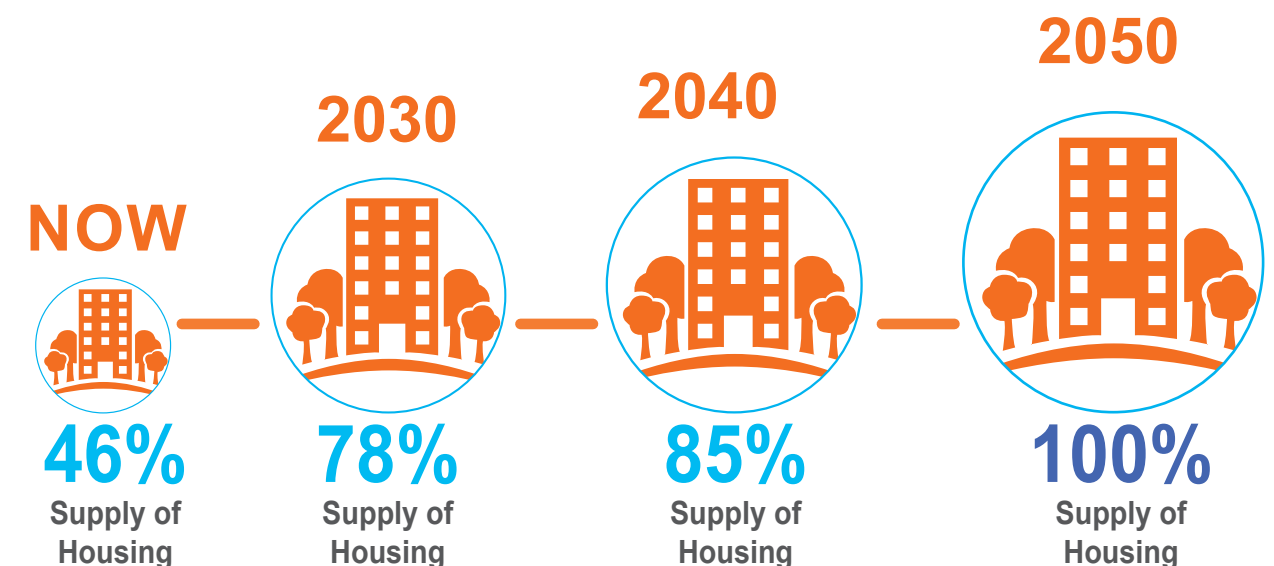
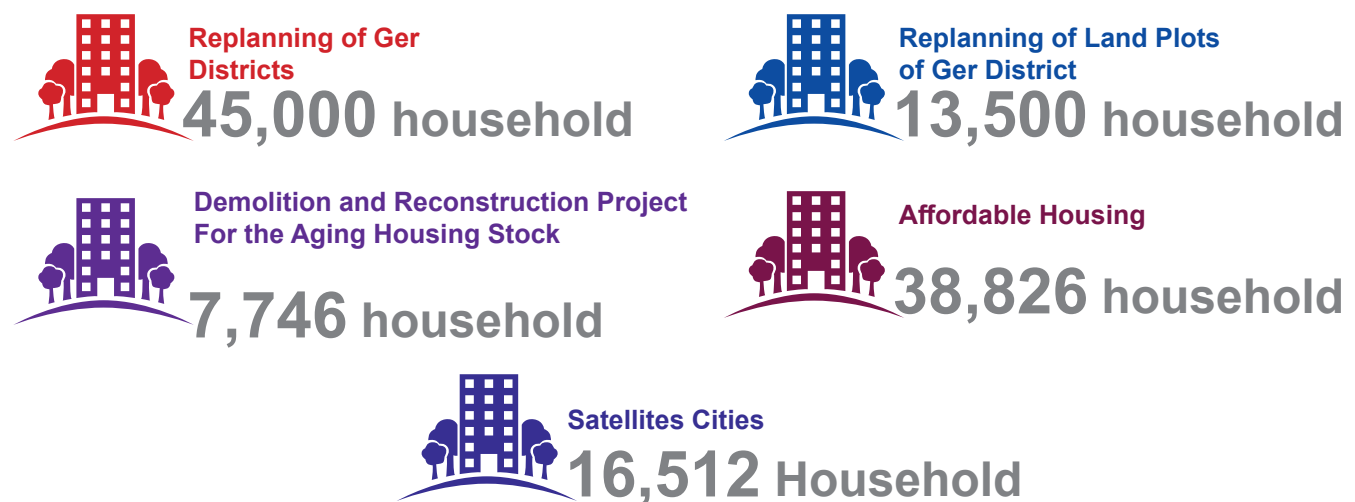


## SATELLITE CITIES AND VILLAGES



Connecting up to 70 percent of Housing Stock to Central Utility System and up to 30 percent to Independent Utility Supplies to meet the Goals of Ulaanbaatar Development and Ger Districts' Redevelopment

### THE FIRST STAGE



2050



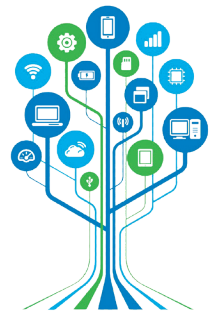


Figure 9.11 Industrial and Technological Park

## INDUSTRIAL AND TECHNOLOGICAL PARK



Introducing Science and Innovation into Production, Supporting Import Replacement, Developing Export Products to Create Jobs and Balance Migration and Territorial Development



## FREE ZONE

Establishing Free Trade Zones, Introducing High Tech Production and New Services to Create New Jobs and Support Settlement in Satellites Cities

