

The Study on City Master Plan and Urban Development Program of Ulaanbaatar City (UBMPS)

FINAL REPORT / Volume 5

GIS Maps and Drawings for Urban Planning

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Aero Asahi Corporation



UBMPS

The Study on City Master Plan and Urban Development Program of Ulaanbaatar City
(UBMPS)

FINAL REPORT / Volume 5

GIS MAPS AND DRAWINGS FOR URBAN PLANNING

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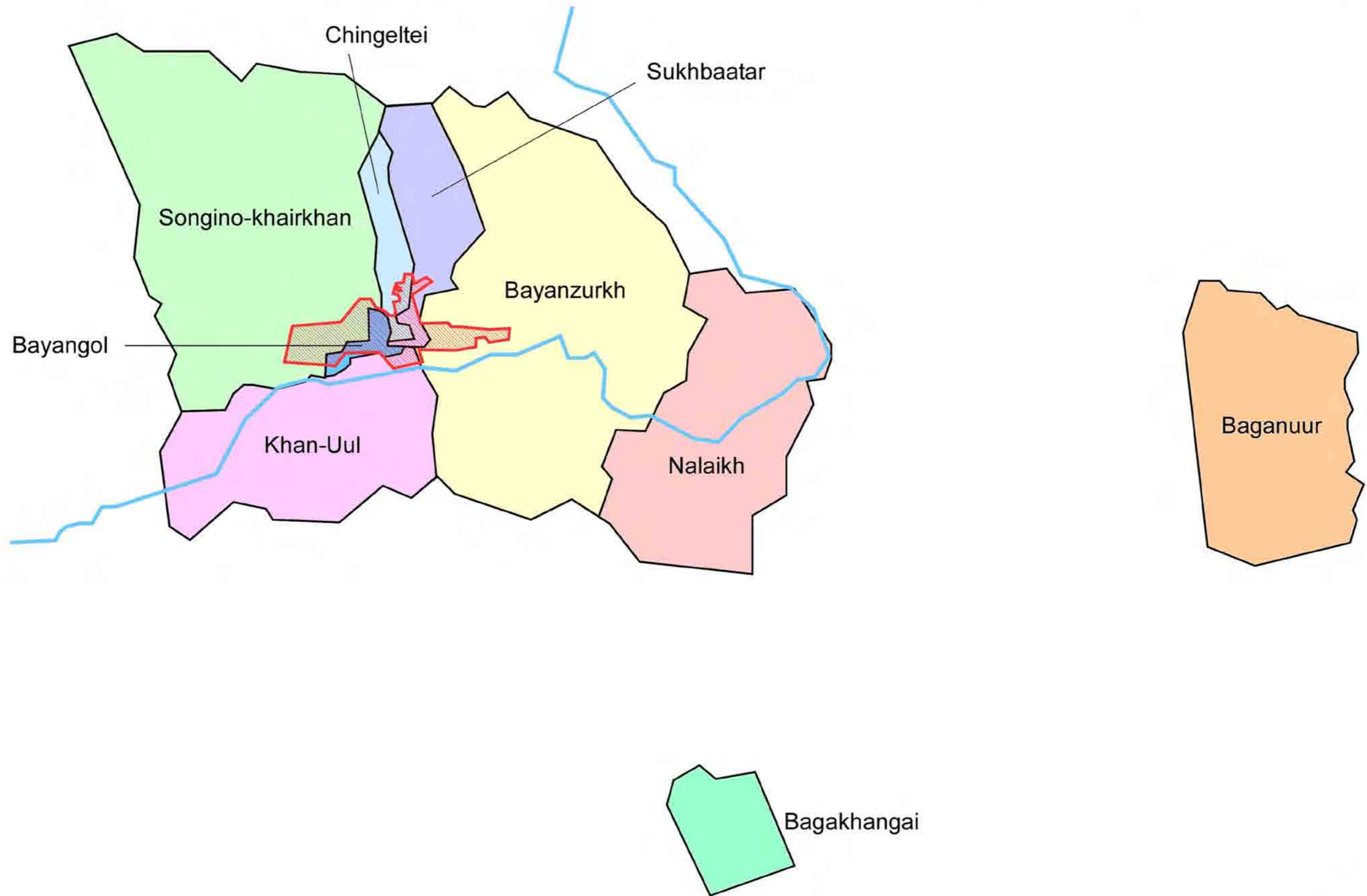
Model Area Planning

39. CBD Existing Condition	Target Area
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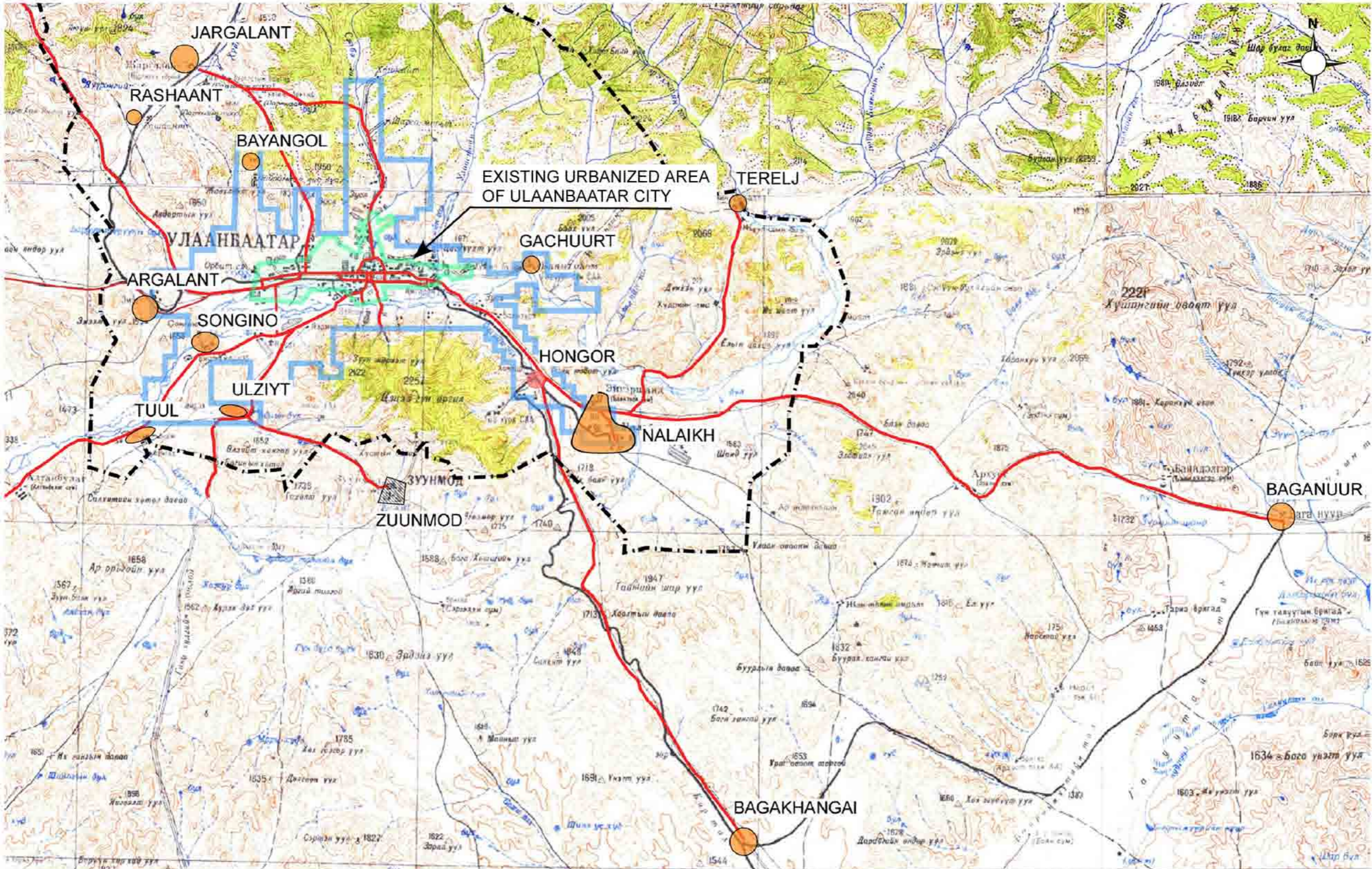
Map of Ulaanbaatar City

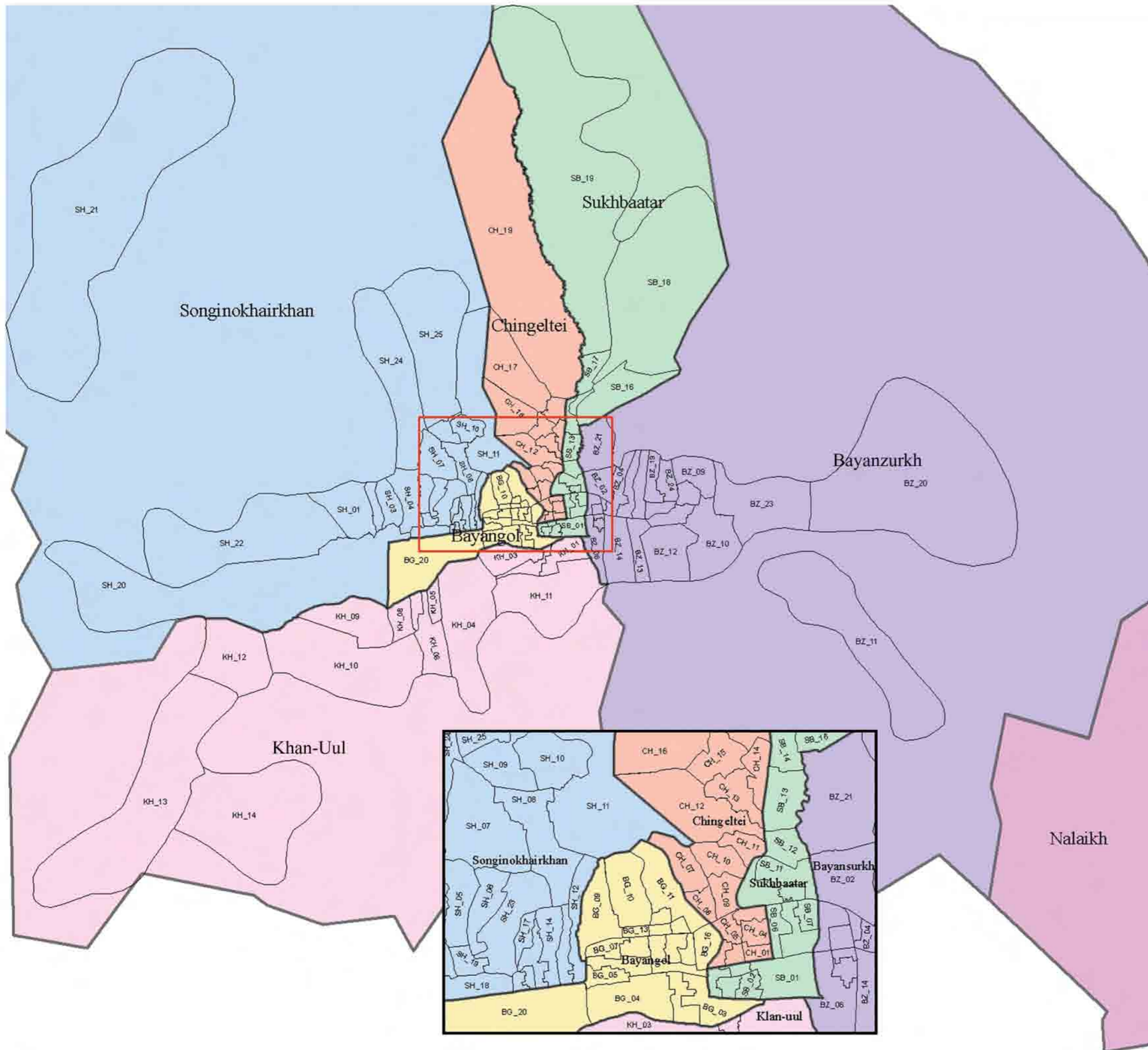


Location of Districts









Location of Satellite Cities





Administrative Boundary (District & Khoroo)

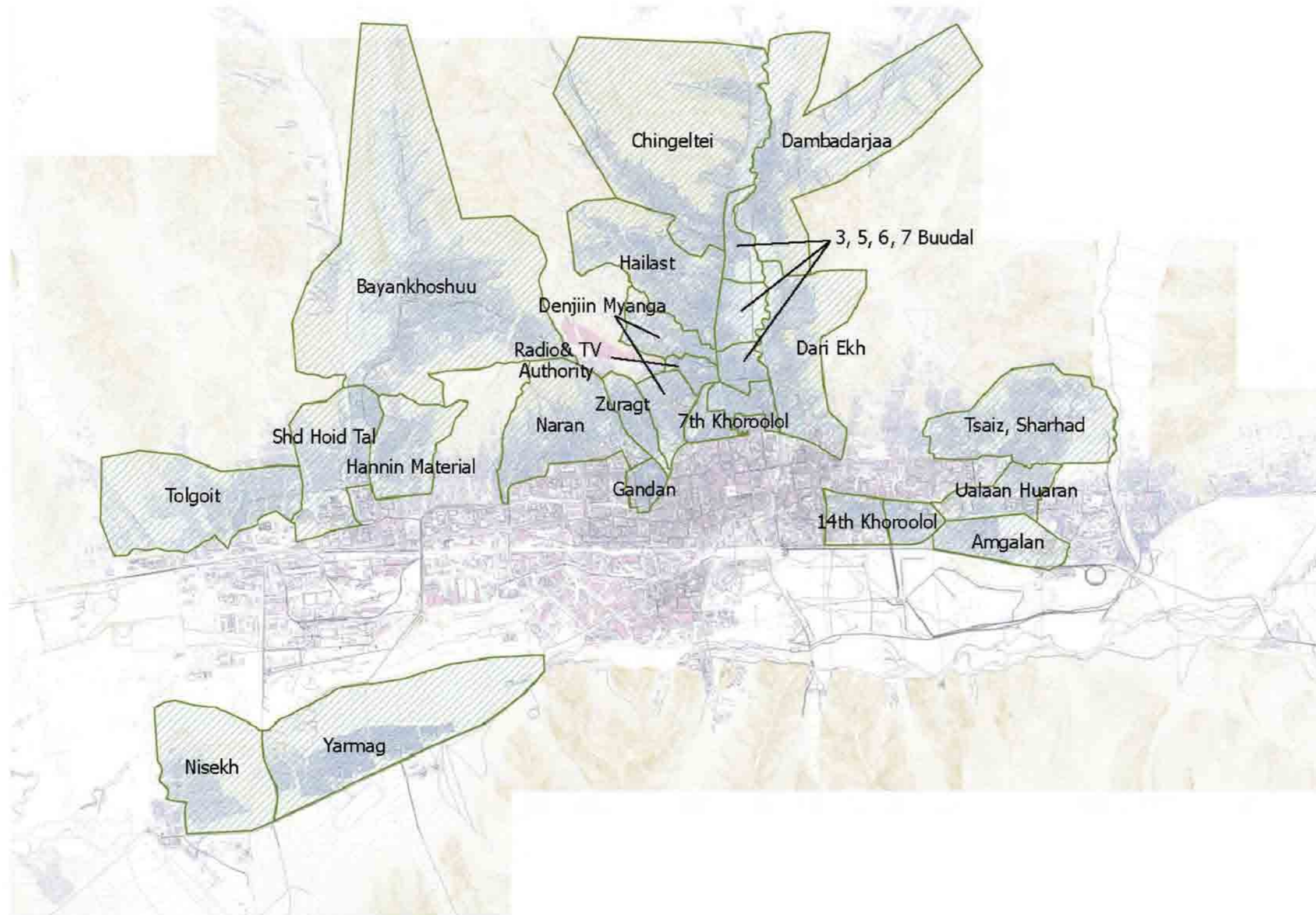
Legend

-  Khoroo Boundary (2007)
- District Boundary**
-  Bayangol
-  Bayanzurkh
-  Chingeltei
-  Khan-Uul
-  Songinokhairkhan
-  Sukhbaatar







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Location of Ger Areas



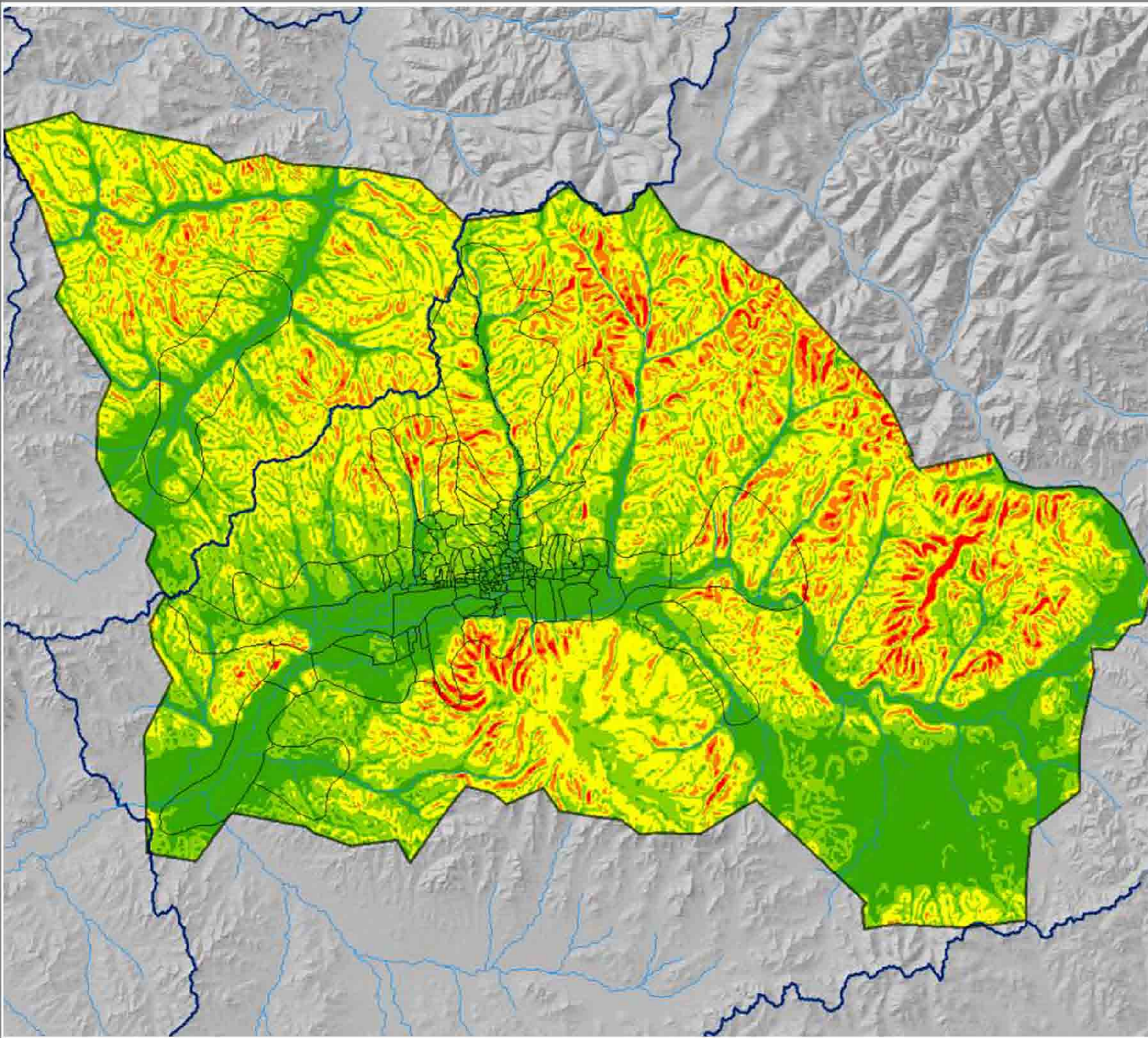
Slope Class

Legend

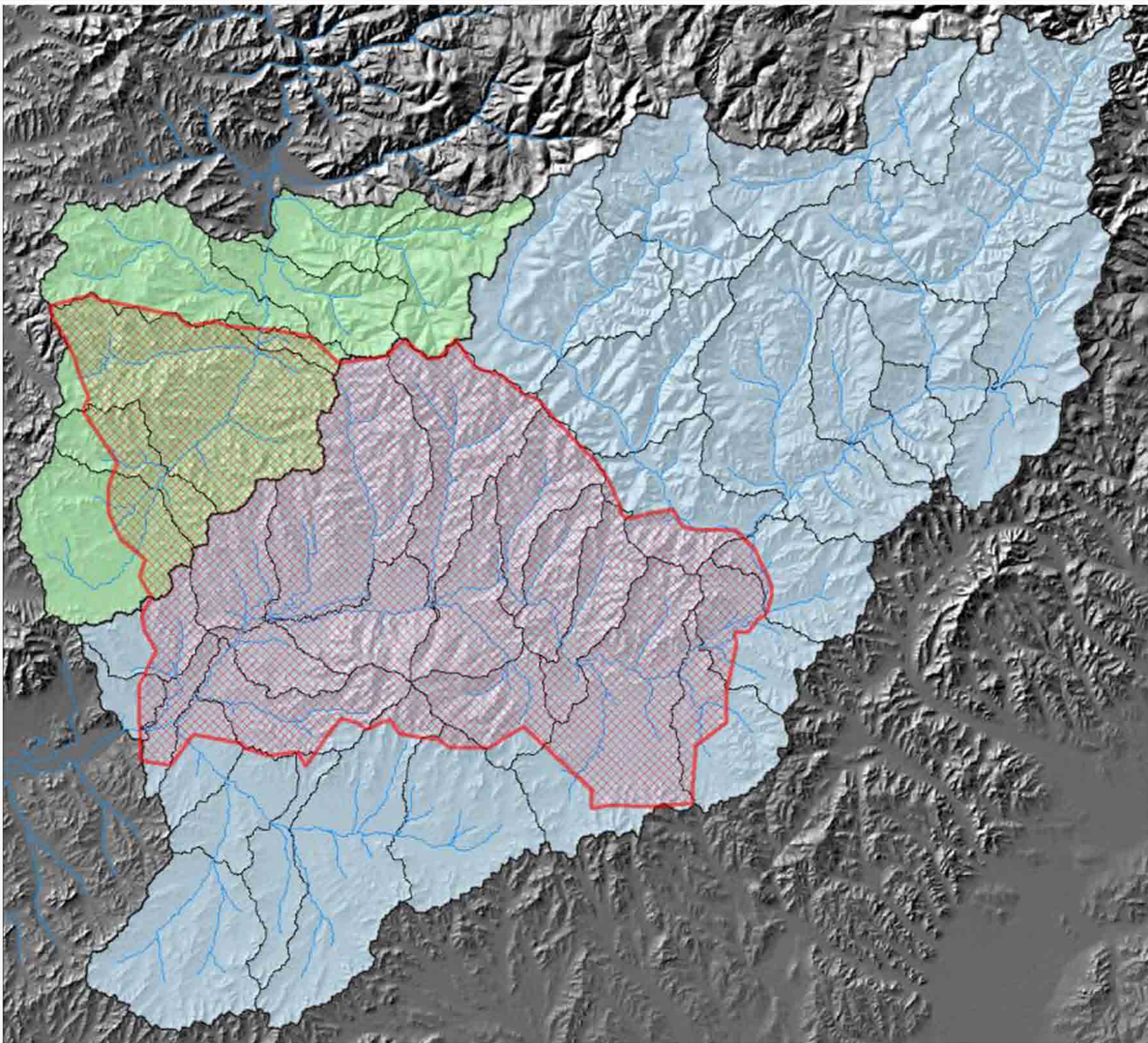
-  Ulaanbaatar City
-  Khoroo Boundary in 2007
-  Main River
-  Main Watershed Zone

Slope Class (degree)

-  0 - 3
-  3 - 8
-  8 - 15
-  15 - 20
-  More than 20



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Watershed Sub-boundary

Legend

-  Ulaanbaatar Metropolitan Area
-  Main River
- Main Watershed Zone**
 -  Khul-Kharaa River
 -  Tuul River

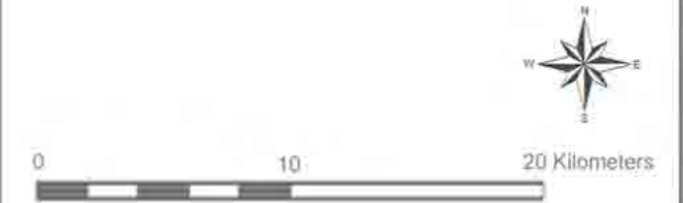
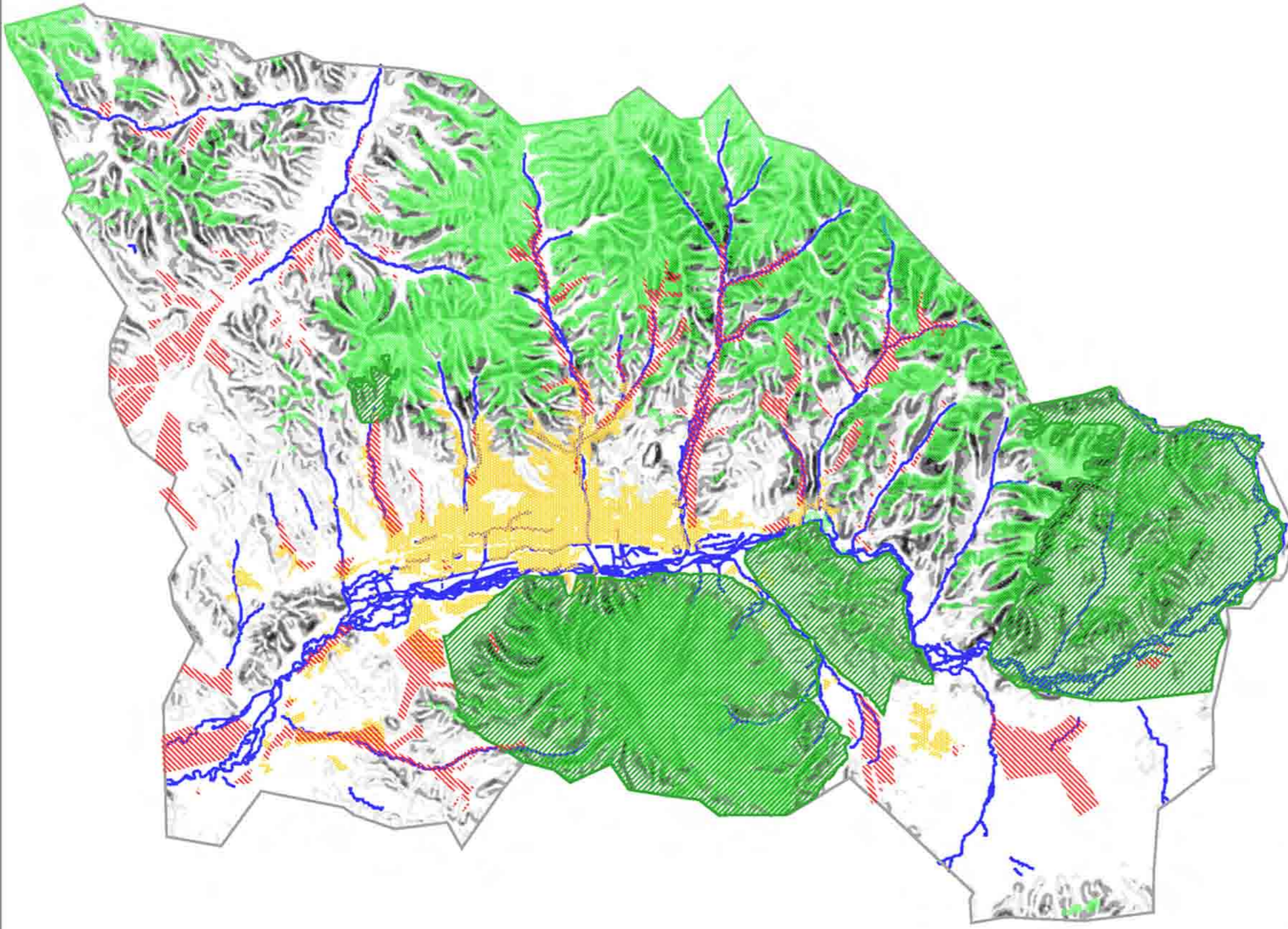


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Natural Resources Condition

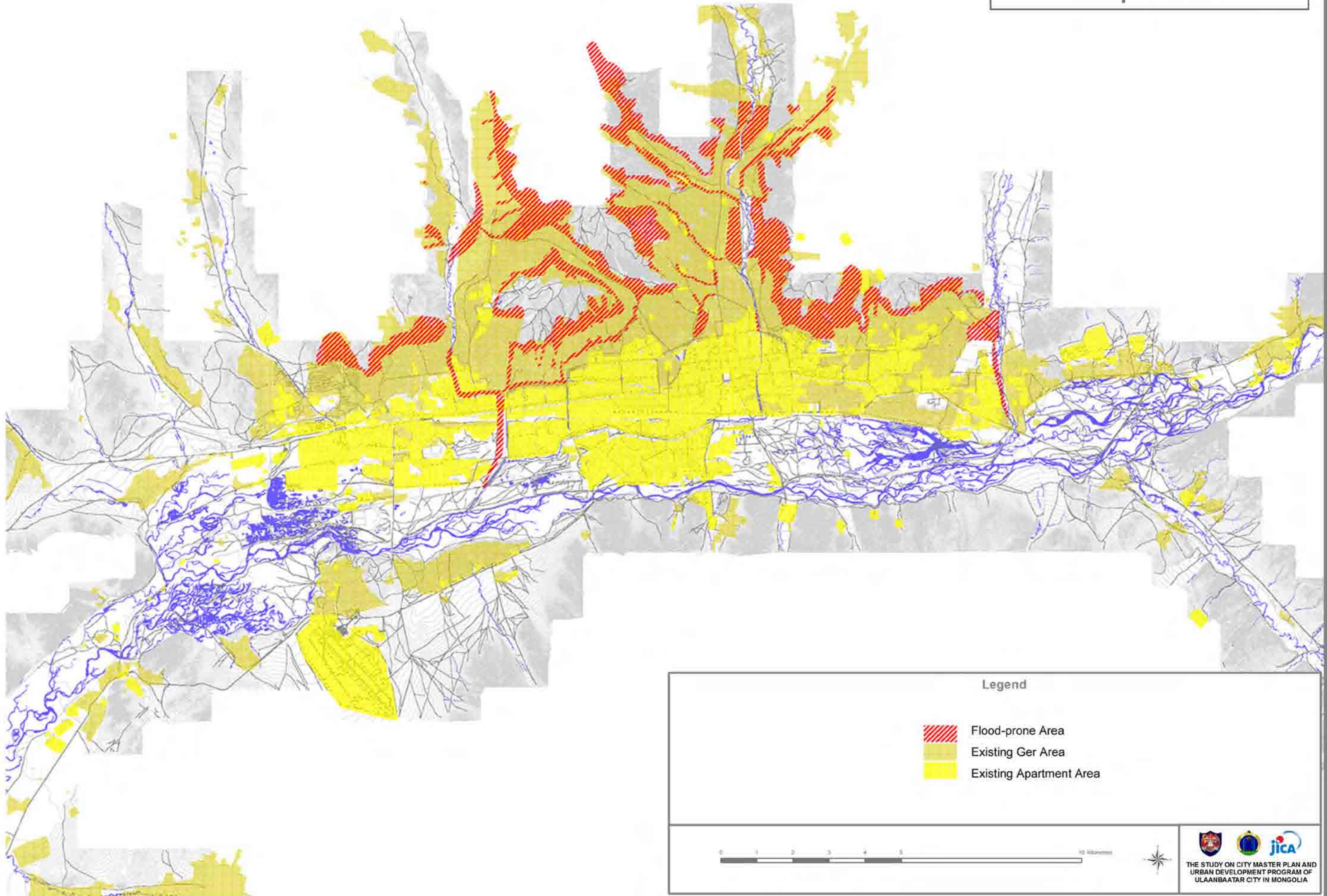
Legend

- Forest Area
- Fertile Land for Agriculture
- Environmental Protection Area
- Existing Urbanized Area
- River






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Flood-prone Area

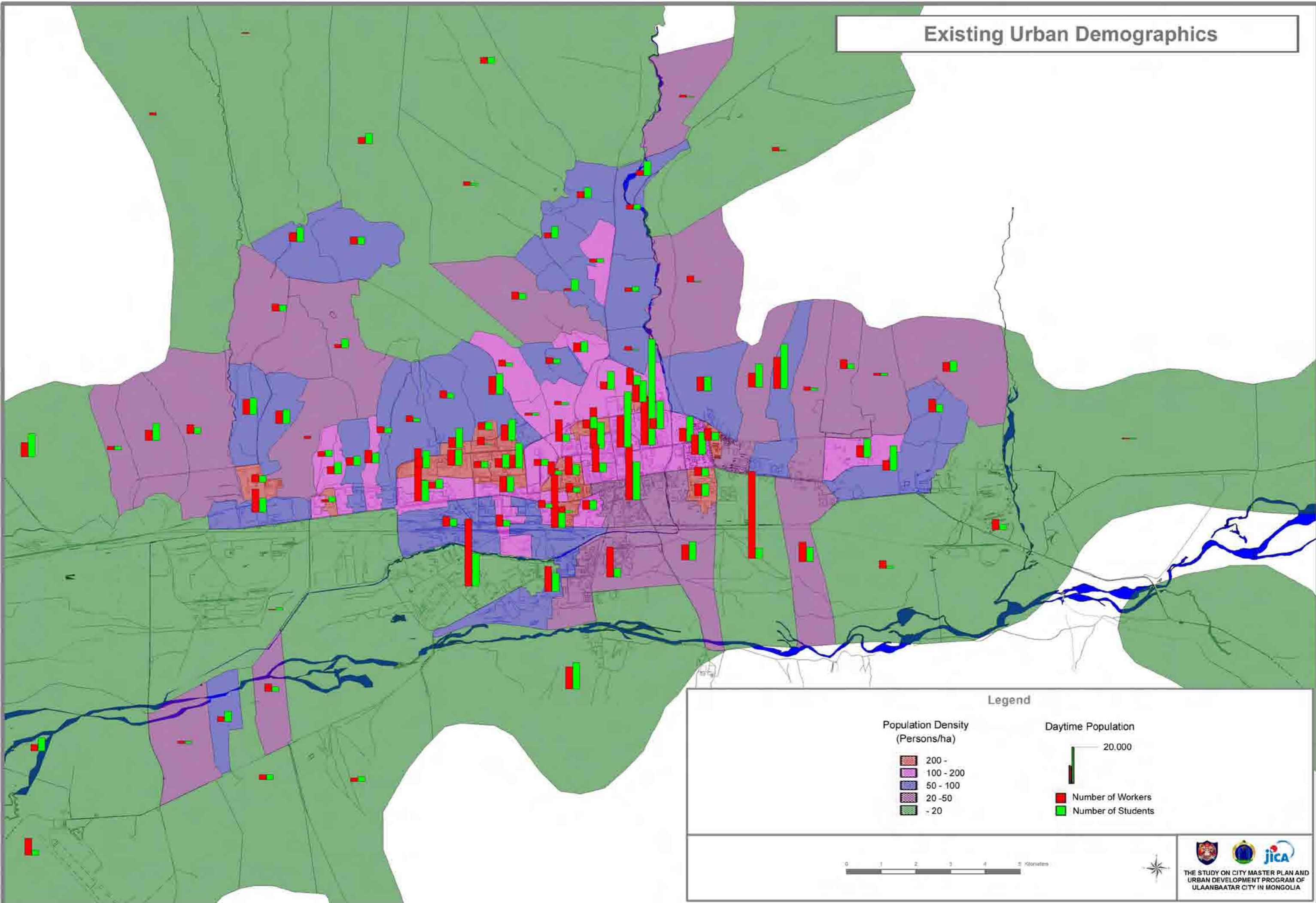


Legend

-  Flood-prone Area
-  Existing Ger Area
-  Existing Apartment Area



Existing Urban Demographics



Legend

Population Density
(Persons/ha)

- 200 -
- 100 - 200
- 50 - 100
- 20 - 50
- 20

Daytime Population

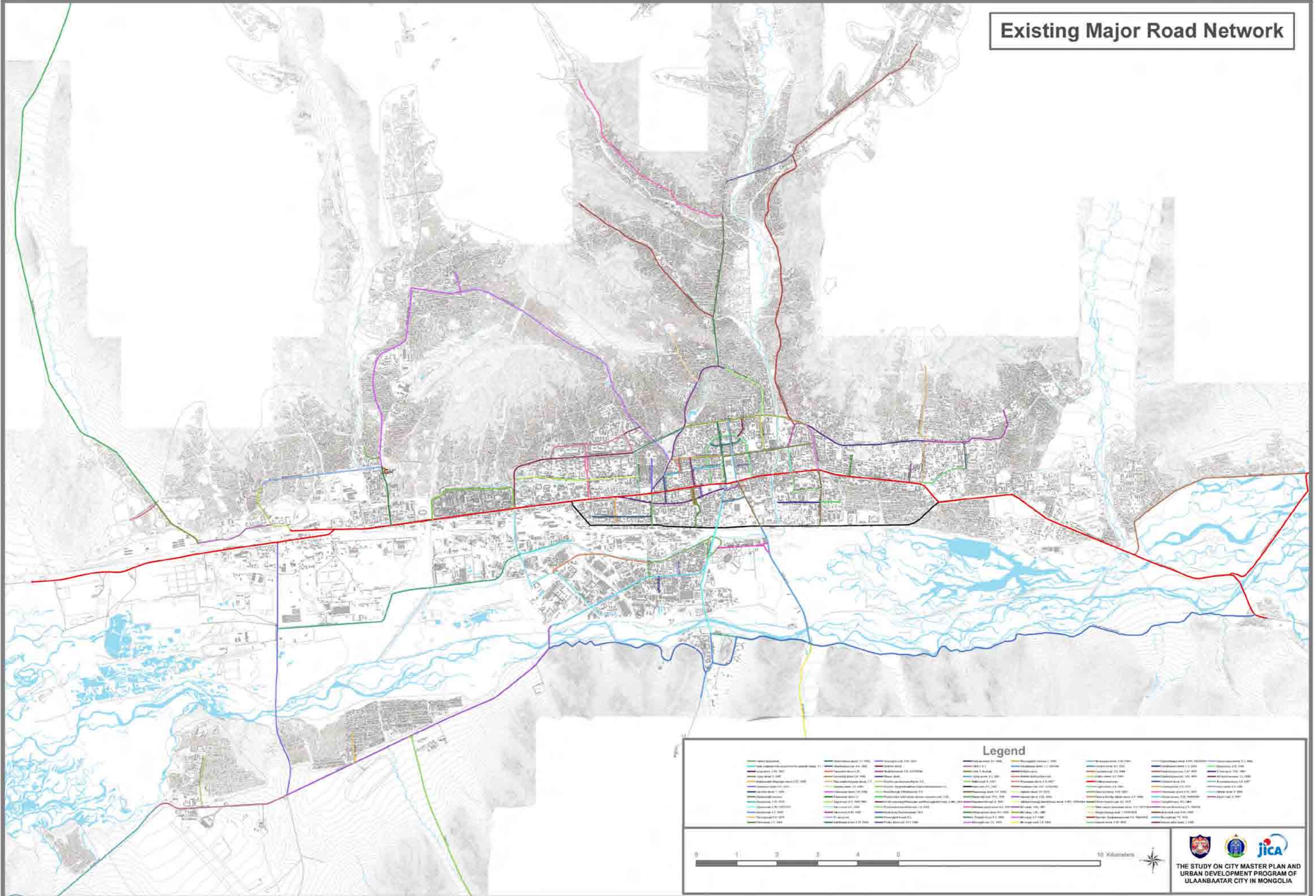
- 20,000
- Number of Workers
- Number of Students

0 1 2 3 4 5 Kilometers



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Existing Major Road Network

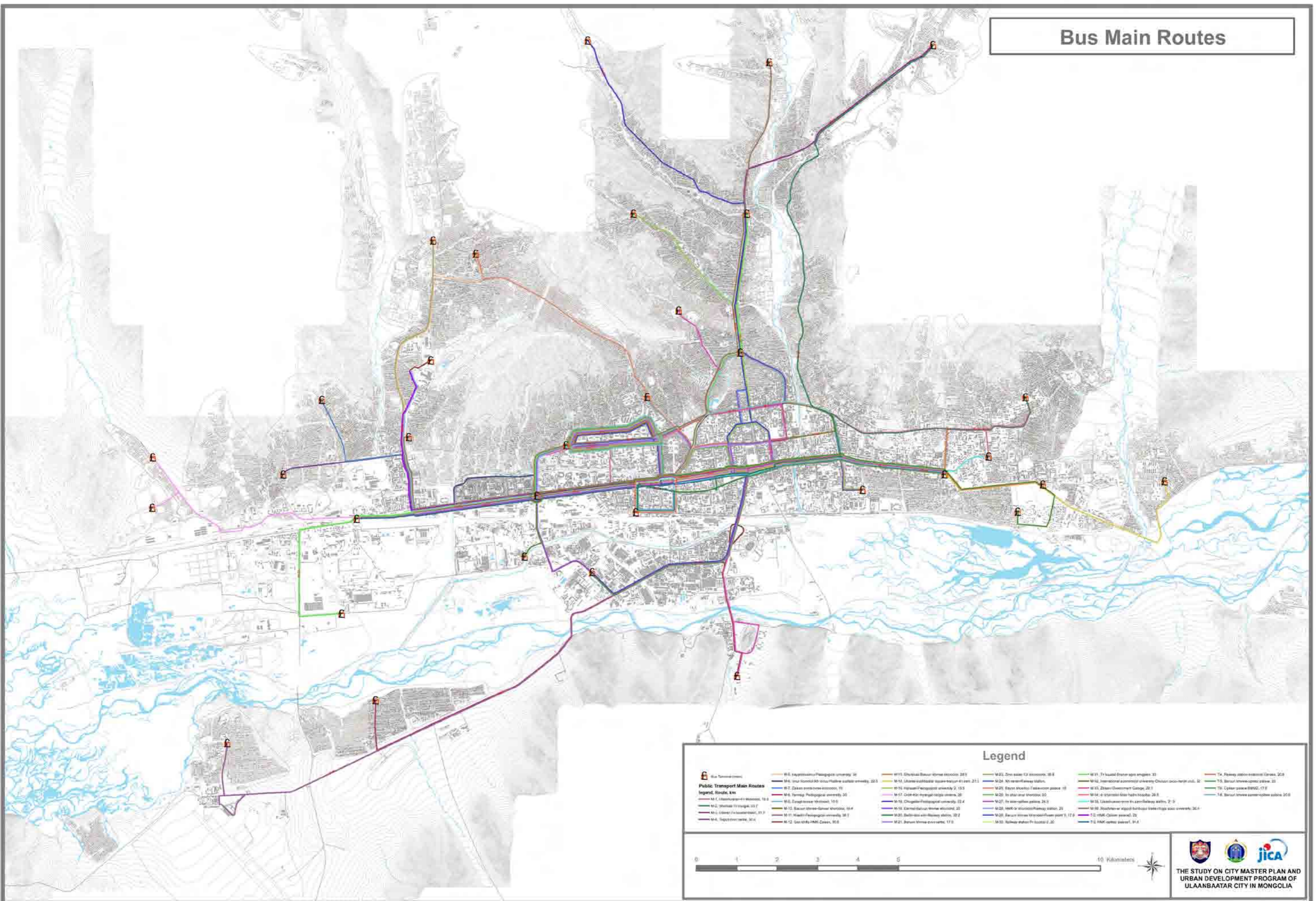


Legend

International Road	Regional Road	Urban Road	Local Road	Other Road	Waterway	Other
Red	Orange	Yellow	Green	Blue	Blue	Grey
100m	50m	20m	10m	5m	10m	10m
...



Bus Main Routes



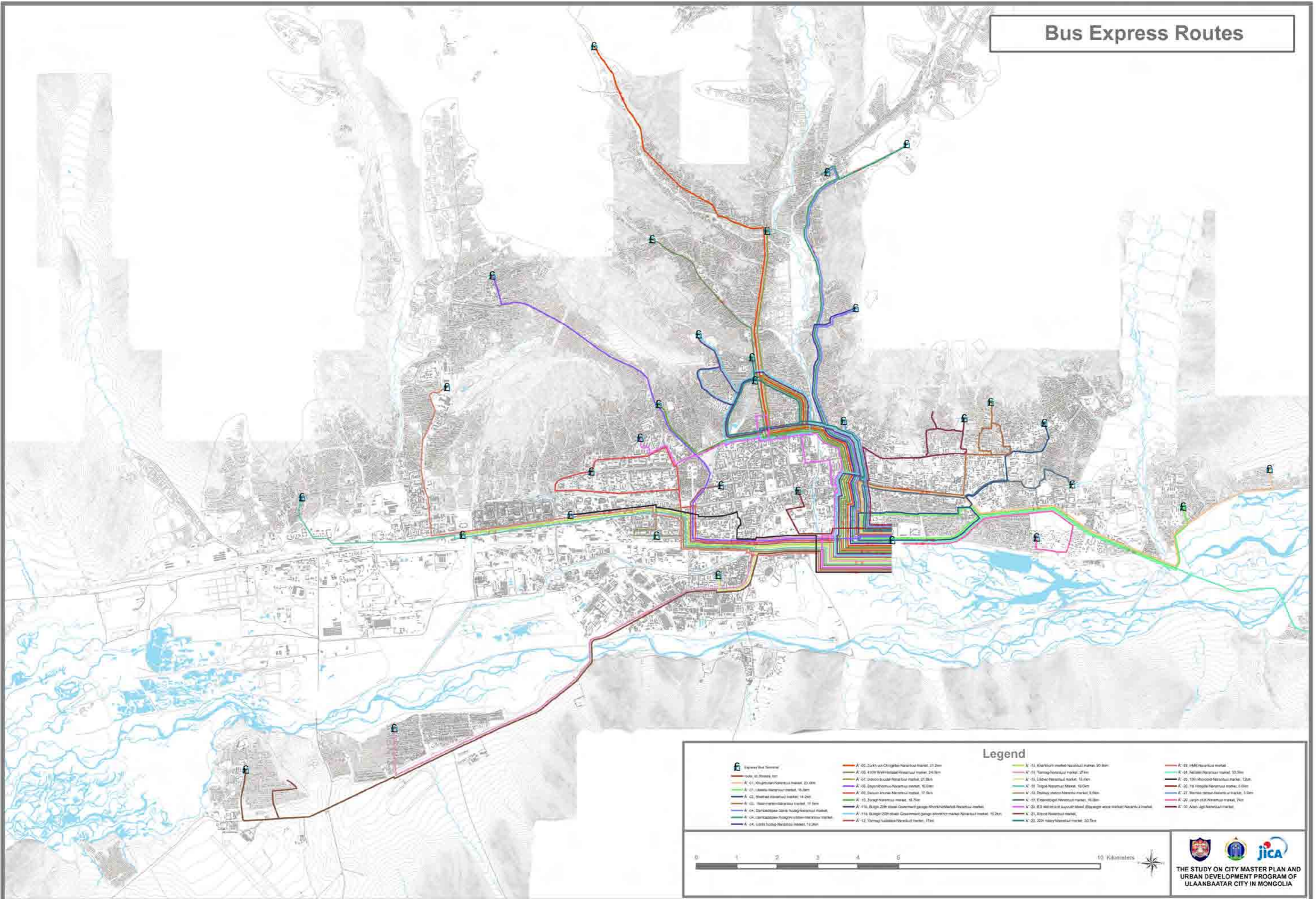
Public Transport Main Routes
 legend. Route, km

M-1. Ulaanbaatar - Khovdsgol, 16.0	M-6. Zaisan - Pedagogical university, 30	M-11. Khural Bayar - Khovdsgol, 24.9	M-16. Zhovdsgol - Khovdsgol, 28.8	M-21. Zhovdsgol - Khovdsgol, 28.8	M-26. Zhovdsgol - Khovdsgol, 28.8	M-31. Zhovdsgol - Khovdsgol, 28.8	M-36. Zhovdsgol - Khovdsgol, 28.8
M-2. Ulaanbaatar - Khovdsgol, 16.0	M-7. Zaisan - Pedagogical university, 30	M-12. Gantymur - HMK Zaisan, 30.8	M-17. Khural Bayar - Khovdsgol, 24.9	M-22. Zhovdsgol - Khovdsgol, 28.8	M-27. Zhovdsgol - Khovdsgol, 28.8	M-32. Zhovdsgol - Khovdsgol, 28.8	M-37. Zhovdsgol - Khovdsgol, 28.8
M-3. Ulaanbaatar - Khovdsgol, 16.0	M-8. Zaisan - Pedagogical university, 30	M-13. Khural Bayar - Khovdsgol, 24.9	M-18. Khural Bayar - Khovdsgol, 24.9	M-23. Zhovdsgol - Khovdsgol, 28.8	M-28. Zhovdsgol - Khovdsgol, 28.8	M-33. Zhovdsgol - Khovdsgol, 28.8	M-38. Zhovdsgol - Khovdsgol, 28.8
M-4. Ulaanbaatar - Khovdsgol, 16.0	M-9. Zaisan - Pedagogical university, 30	M-14. Khural Bayar - Khovdsgol, 24.9	M-19. Khural Bayar - Khovdsgol, 24.9	M-24. Zhovdsgol - Khovdsgol, 28.8	M-29. Zhovdsgol - Khovdsgol, 28.8	M-34. Zhovdsgol - Khovdsgol, 28.8	M-39. Zhovdsgol - Khovdsgol, 28.8
M-5. Ulaanbaatar - Khovdsgol, 16.0	M-10. Zaisan - Pedagogical university, 30	M-15. Khural Bayar - Khovdsgol, 24.9	M-20. Khural Bayar - Khovdsgol, 24.9	M-25. Zhovdsgol - Khovdsgol, 28.8	M-30. Zhovdsgol - Khovdsgol, 28.8	M-35. Zhovdsgol - Khovdsgol, 28.8	M-40. Zhovdsgol - Khovdsgol, 28.8

0 1 2 3 4 5 10 Kilometers

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Bus Express Routes



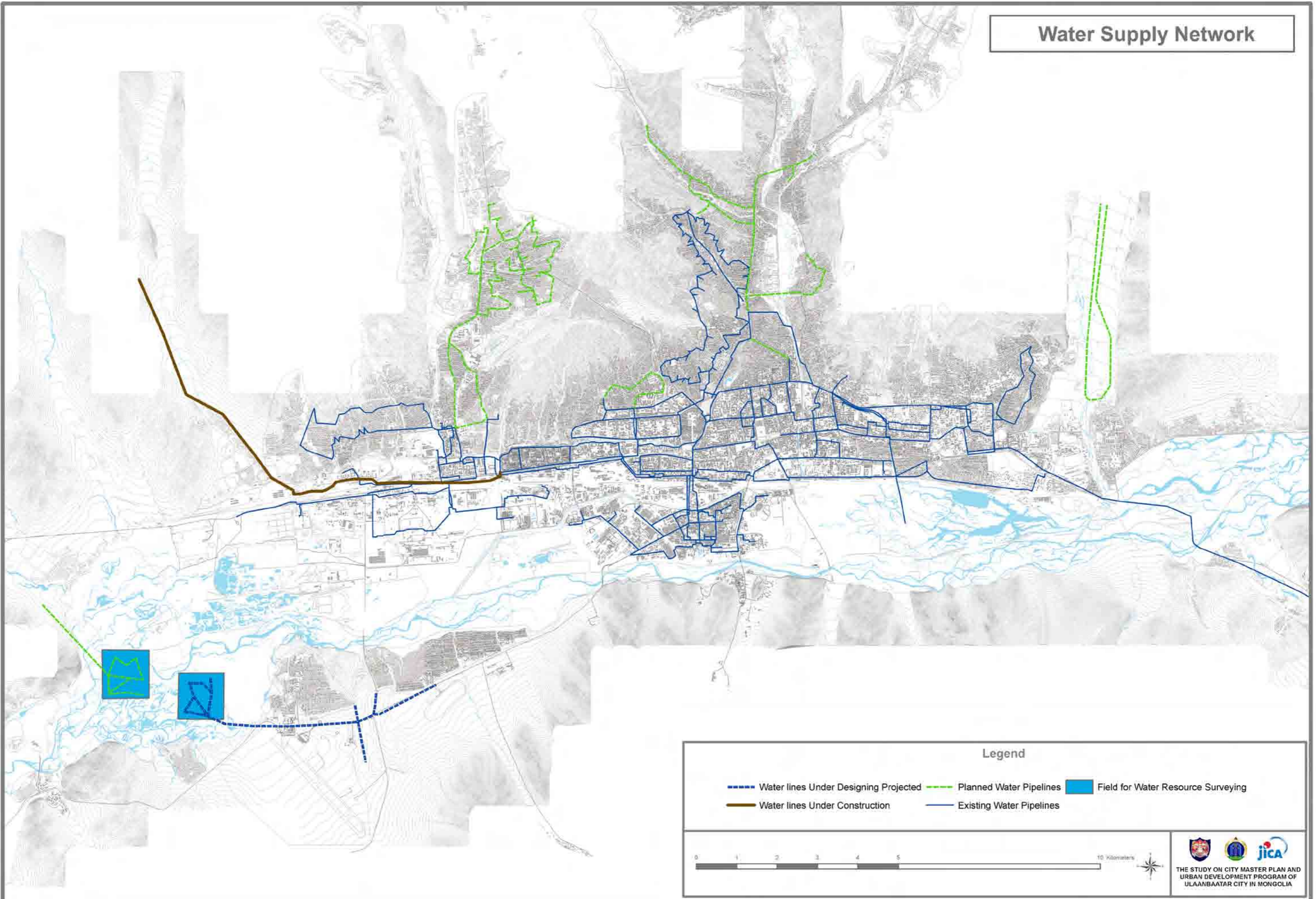
Legend

<ul style="list-style-type: none"> Express Bus Terminal Subj. ul. Shiree, km A-01, Khujirjan Narantuu market, 23.4km A-02, Khaidan-Narantuu market, 16.0km A-03, Shantuu-Daaranj market, 14.2km A-04, Naarmyn-Narantuu market, 17.6km A-04, Dambatsagaan-Ganzhig-Narantuu market A-04, Lamsaibayev-Khuyrjav-Narantuu market A-04, Lubsan-Narantuu market, 13.3km 	<ul style="list-style-type: none"> A-05, Zuvk ul. Chinghis-Narantuu market, 11.2km A-06, 410th Bvkhinjal-Narantuu market, 24.0km A-07, Doolon-buud-Narantuu market, 21.2km A-08, Bayan-Olzii-Narantuu market, 10.0km A-09, Buzan-Khulan-Narantuu market, 17.5km A-10, Zuvkh-Narantuu market, 18.7km A-11, Bulgan 20th street Government garage-shovkhor-Narantuu market A-11a, Bulgan 20th street Government garage-shovkhor market-Narantuu market, 15.2km A-12, Yonag-Narantuu market, 17km 	<ul style="list-style-type: none"> A-13, KhasArin market-Narantuu market, 30.6km A-14, Yonag-Narantuu market, 27km A-15, Lubsan-Narantuu market, 14.0km A-16, Tsagaan-Narantuu market, 19.0km A-16, Tsagaan station-Narantuu market, 5.6km A-17, Eerdenegul-Narantuu market, 16.0km A-20, 8th street with support street Bayegol wood market-Narantuu market A-21, Altod-Narantuu market A-22, 20th Khary-Narantuu market, 50.7km 	<ul style="list-style-type: none"> A-23, 14th-Narantuu market A-24, Kalluu-Narantuu market, 33.0km A-25, 15th Khosoid-Narantuu market, 12km A-26, 1st Khongor-Narantuu market, 6.0km A-27, Marba-Daaranj-Narantuu market, 3.5km A-28, Jarjig ul. Narantuu market, 7km A-29, Altan Jigi-Narantuu market
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0 1 2 3 4 5 10 Kilometers

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Water Supply Network

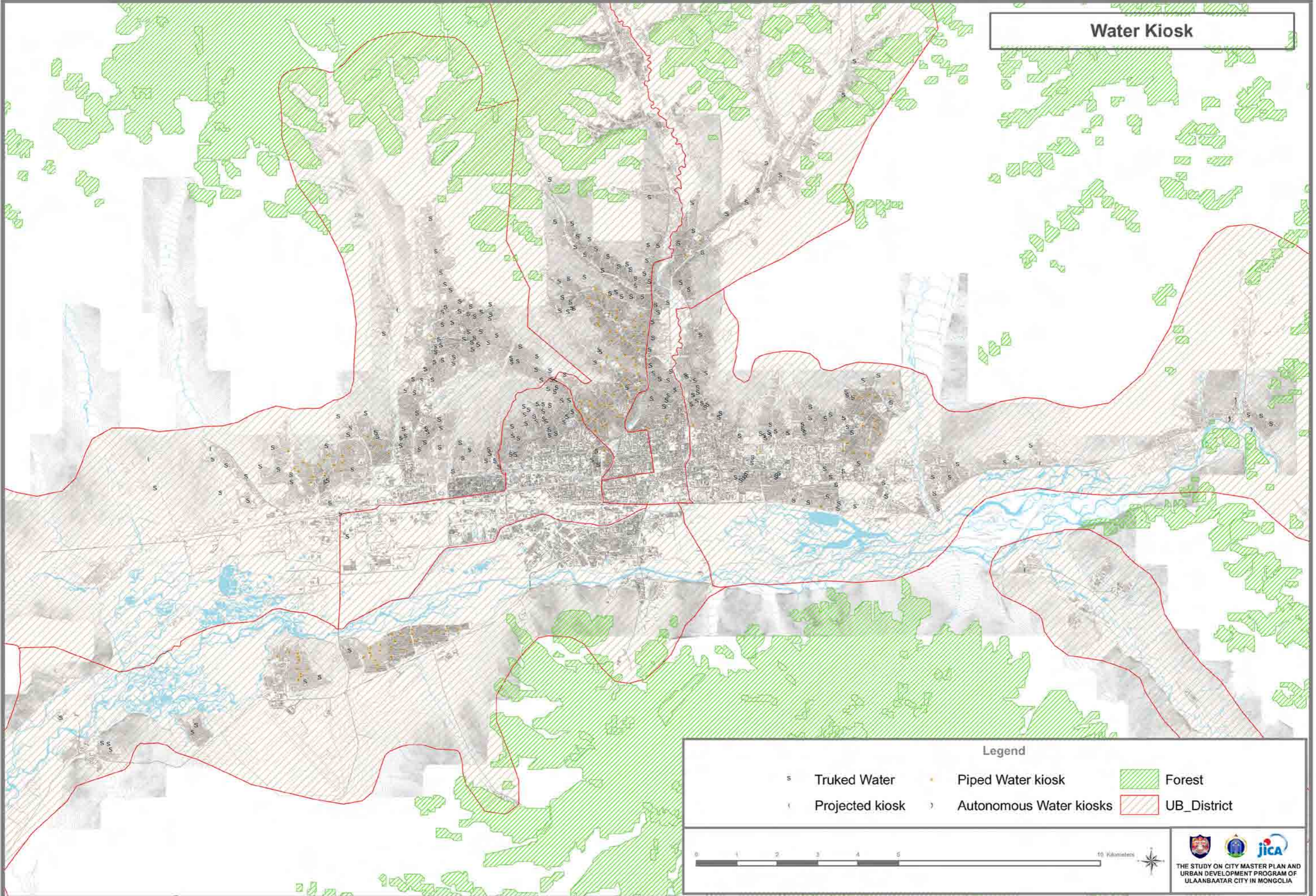


Legend

- Water lines Under Designing Projected
- Water lines Under Construction
- Planned Water Pipelines
- Existing Water Pipelines
- Field for Water Resource Surveying



Water Kiosk



Legend

- Trucked Water
- Projected kiosk
- Piped Water kiosk
- Autonomous Water kiosks
- Forest
- UB_District



Sewage Network

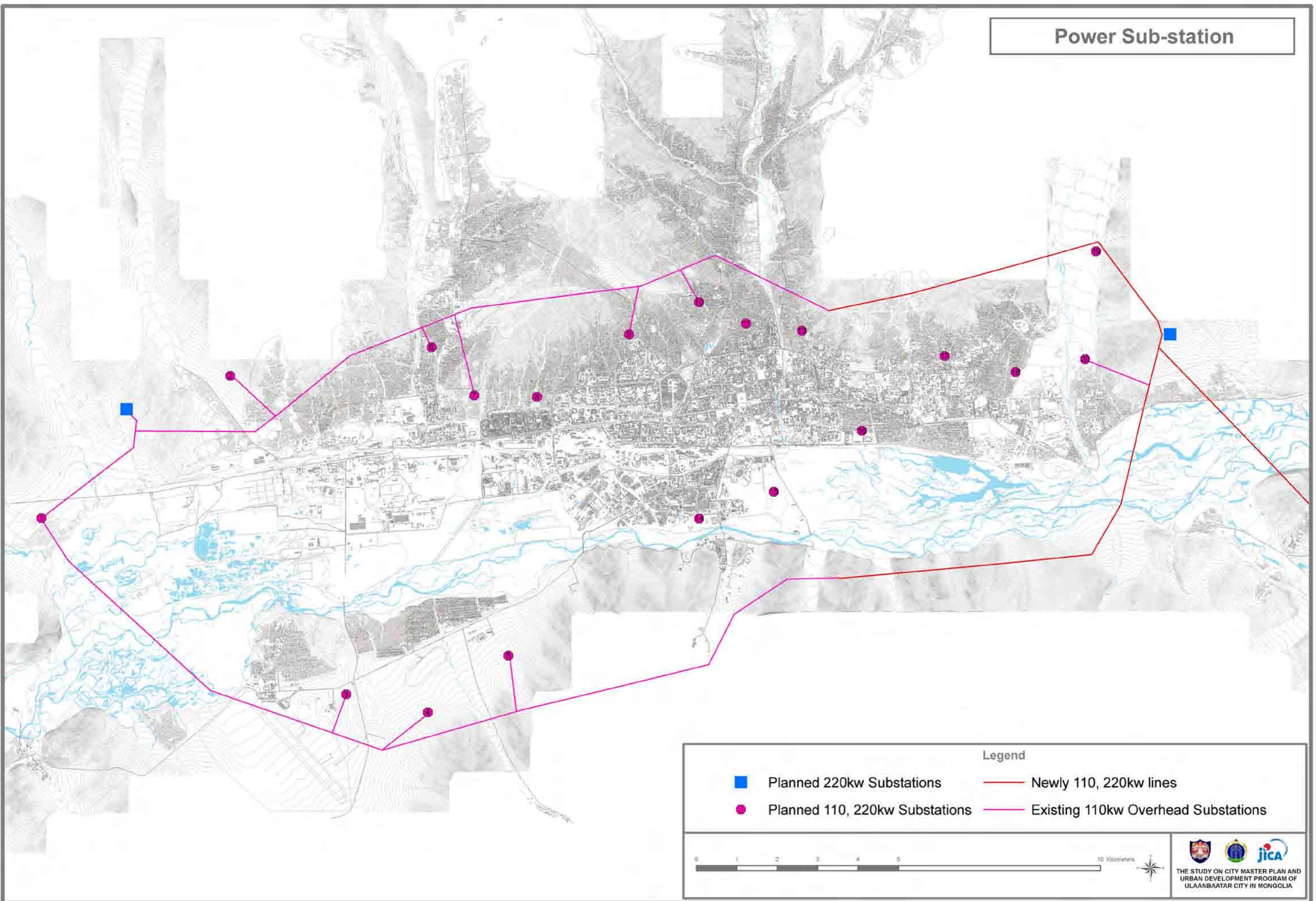


Legend




- Sewerage Pipeline Which the Construction is Started
- Planned Sewerage lines
- Sewerage lines Which Under Designing and Projected
- Existing Sewerage Pipelines
- Sewerage lines Under Construction
- Planned Sewerage Treatment Plant




Power Sub-station




Legend

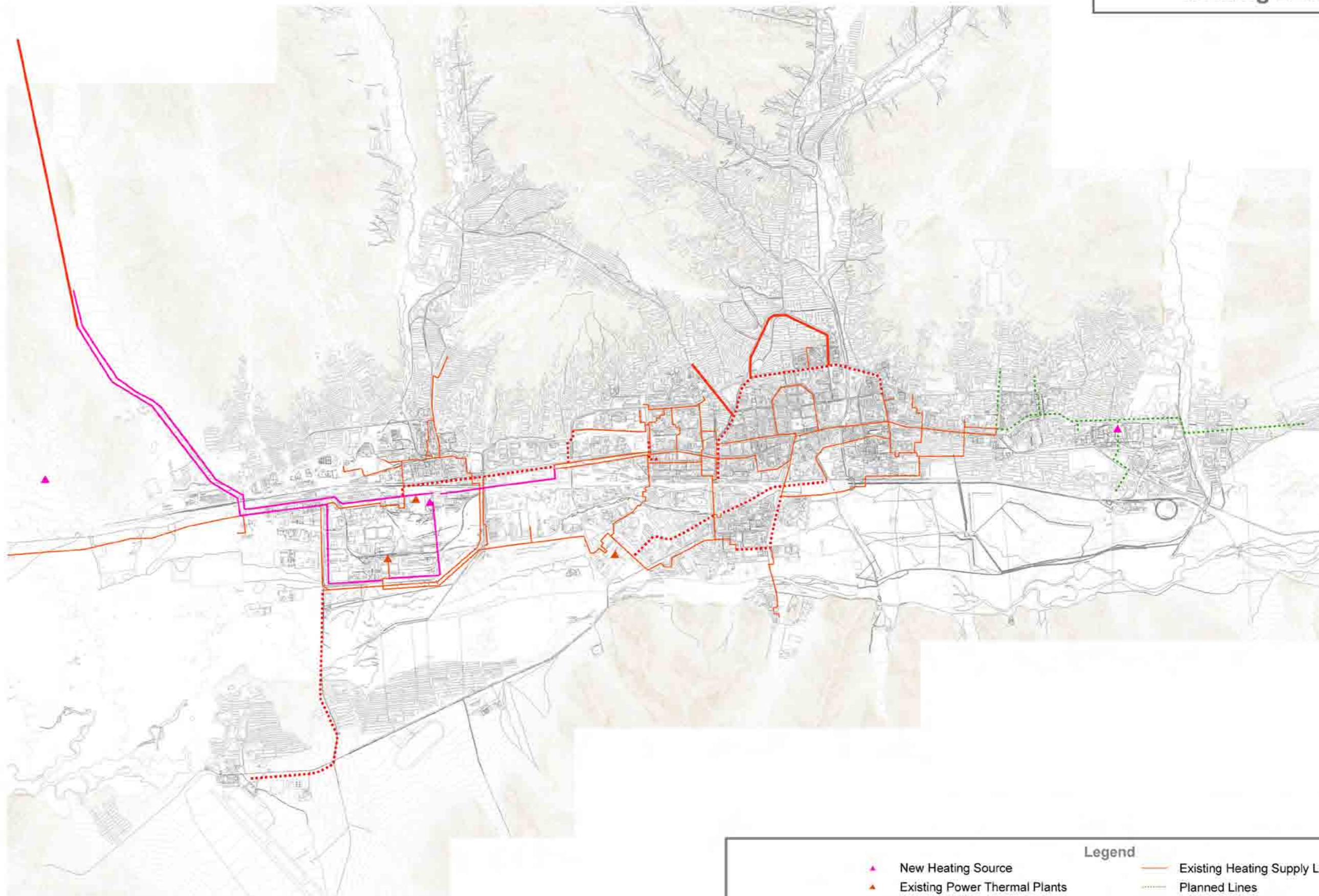
 Planned 220kw Substations	 Newly 110, 220kw lines
 Planned 110, 220kw Substations	 Existing 110kw Overhead Substations

0 1 2 3 4 5 10 Kilometers




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Heating Network



Legend

▲ New Heating Source	— Existing Heating Supply Lines
▲ Existing Power Thermal Plants	- - - Planned Lines
— Heating Lines under Design and Survey	⋯ Heating Lines for Expansion
— Heating Lines under Construction	

0 1 2 3 4 5 10 Kilometers

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