

# Kazan

Urban planning -Current situation

HSE Vysokovsky Graduate School of Urbanism

Master in Prototyping future cities

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·Высшая.....  
·школа.....  
·урбанистики...

*shukhov  
lab*

This research examines **the distribution and the quality of facilities and social services** in the city of Kazan with the purpose of evaluating **the degree of its accessibility for the inhabitants**, and of being able to take decisions to improve them in the future.

To do this we

- have listed all of the facilities possible in the city,
- have studied the standards that the Russian government has defined in relation to them,
- have represented the facilities on the map of the city of Kazan.

The analysis has been developed at the multiscale level, that is to say, we were analyzing the facilities of

- the neighborhood
- the district
- the city levels.

Also this study has analyzed the quality of the design of the equipment and parks, comparing them with those of Moscow and Barcelona.

The result is a series of more than **100 graphics** that reveals that

- Kazan is a city relatively well-equipped city at the level of neighborhoods,
- the equipment and social services that project Kazan to the world are very concentrated in the central area of the city,
- the quality of the architecture of the facilities are of a low quality, while the parks and public gardens could be comparable to other major cities of the world.

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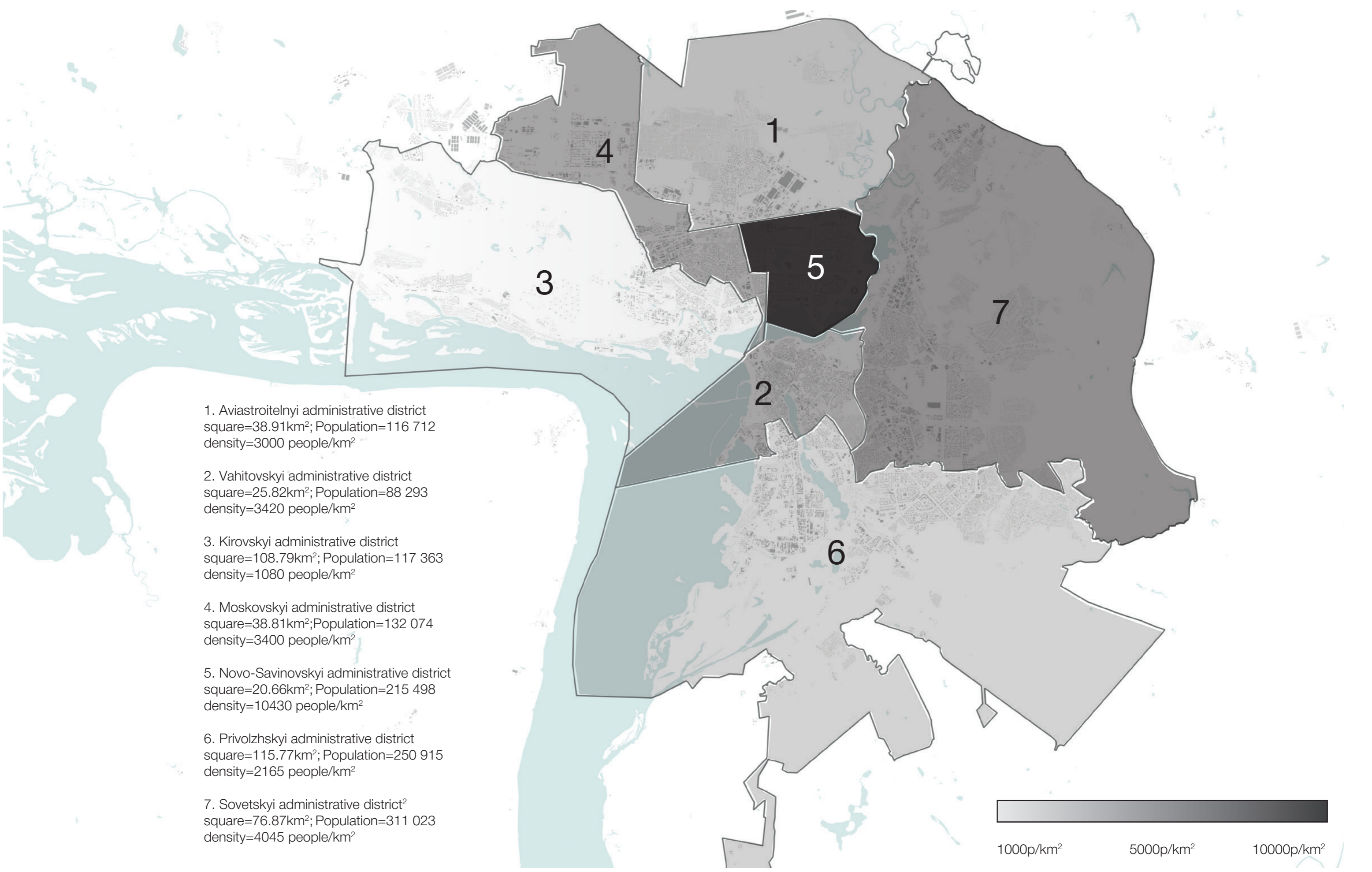
Kamila Ravzieva



Kazan is the capital and largest city of the Republic of Tatarstan, Russia. With a population of 1,143,535, it is the eighth most populous city in Russia. Kazan lies at the confluence of the Volga and Kazanka Rivers in European Russia. The Kazan Kremlin is a World Heritage Site. In April 2009, the Russian Patent Office granted Kazan the right to brand itself as the «Third Capital» of Russia. In 2009 it was chosen as the «Sports capital of Russia» and it still is referred to as such.

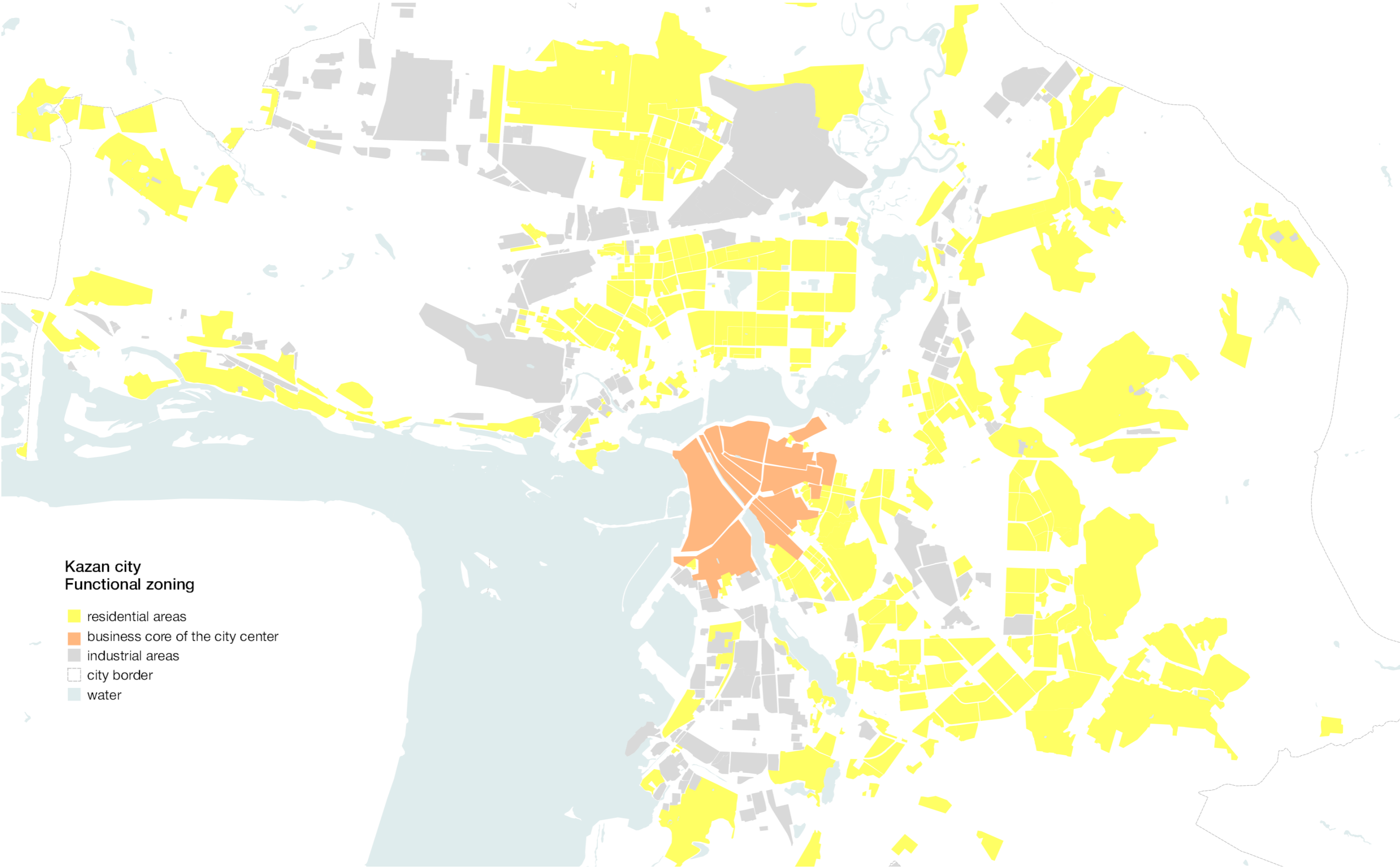
The city hosted the 2013 Summer Universiade, 2014 World Fencing Championships, the 2015 World Aquatics Championships, and is one of the host cities for the 2017 FIFA Confederations Cup and the 2018 FIFA World Cup. In 2015, Kazan was visited by 2.1 million tourists, which is a 20% increase in comparison with 2014. The Kazan Kremlin was visited by 1.5 million tourists in 2015, and the city's hotel and entertainment complex with an aquapark called «Kazan Riviera» was visited by 1 million tourists.

# City districts



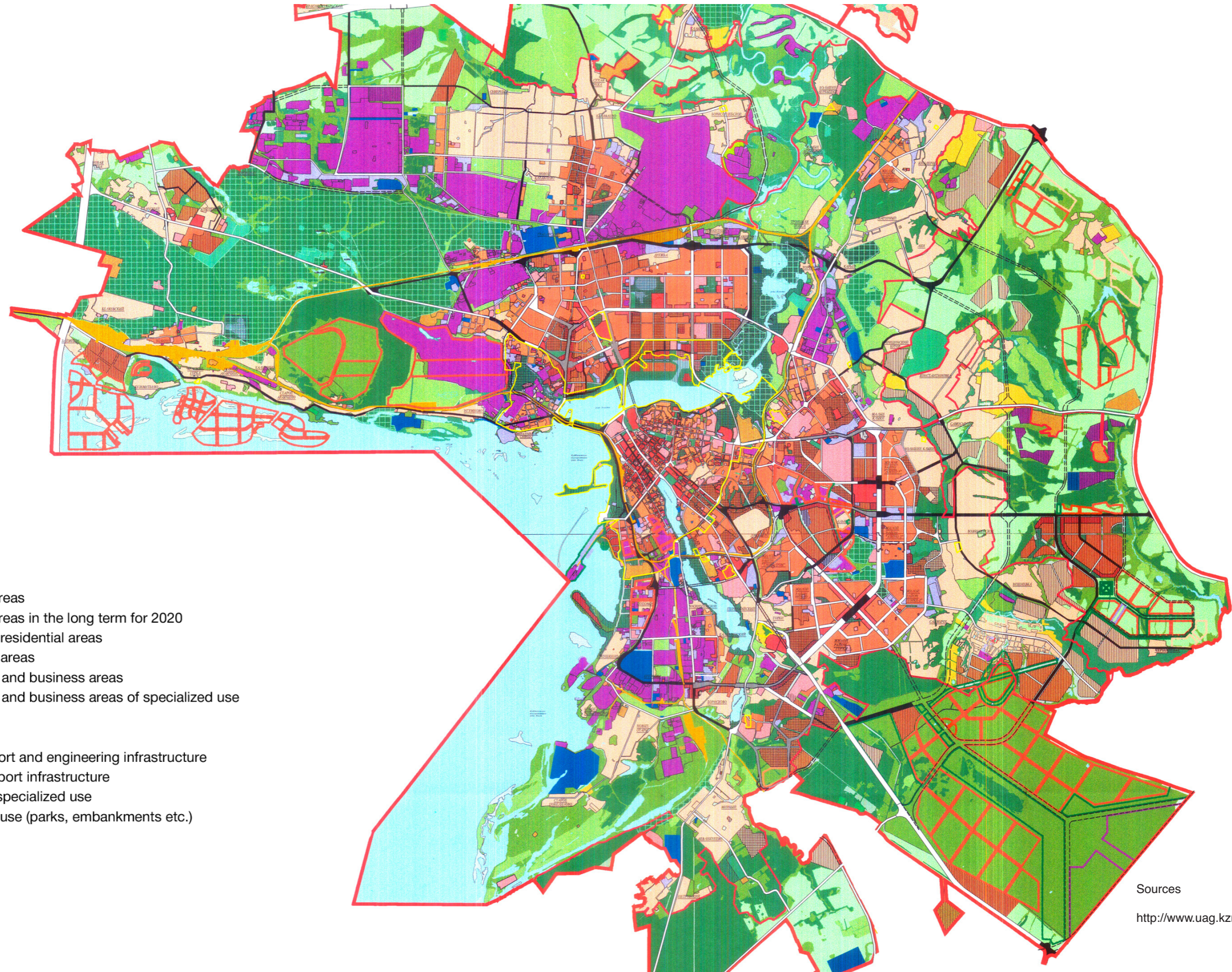
# Zoning of Kazan

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Functional zoning

- residential areas
- business core of the city center
- industrial areas
- city border
- water



## Kazan city Functional zoning

- high-rise residential areas
- high-rise residential areas in the long term for 2020
- mid-rise and low-rise residential areas
- single-family housing areas
- multifunctional public and business areas
- multifunctional public and business areas of specialized use
- industrial areas
- storage areas
- areas of urban transport and engineering infrastructure
- areas of railway transport infrastructure
- recreational areas of specialized use
- green areas of public use (parks, embankments etc.)
- other green areas
- forest areas
- rivers and lakes

Sources  
<http://www.uag.kzn.ru/gradostroitelstvo>



**The subject of the Russian Federation** - the legal entity that constitutes the Russian Federation. In the constitutional and legal meaning, the subject of the Russian Federation is a national-state or territorial-administrative entity that is part of a single federal state. The Russian Federation includes republics, territories, regions, cities of federal significance, autonomous regions, and the autonomous region

**Republic** - a type of subject of the Russian Federation, which has its constitutional and legal status, which is fixed by the relevant articles of the Constitution of Russia.

**City** - Municipal formation - the inhabited territory on which local self-management government is carried out, that is mainly questions of local value are solved.

**District** - administrative-territorial unit - district (district in the city), not a municipal entity.

| Healthcare                               |  | Education  |                    | Culture                    |                    | Trading |  |
|--|--|--|--------------------|----------------------------|--------------------|---------|--|
| Polyclinic for adults                    | Kindergarten In large city                               | City ice rink                                      | Legal consultation | Public ice rink            | Police station     | MFC     |  |
| Polyclinic for kids                      | Kindergarten In city's residential areas and small towns |  |                    | Public library             | Register office    |         |  |
| City-scale hospital                      | Primary school (1-8 years)                               | Children's library                                 | Tax service        | Youth's library            | Post office        |         |  |
| Republic-scale hospital                  | Senior school (9-11 years)                               | Point of access to full-text information resources | Migration office   | Museum of regional history | Mayor's office     |         |  |
| Maternity hospital                       | College  | Thematic museum                                    | Theatre            | Theatre of Young Viewer    | Shopping center    |         |  |
| Ambulance station                        | Technical college  | Theatre for child                                  | Hypermarket        | Supermarket                | Neighborhood store |         |  |
| <b>Parks</b>                             | Institute  | Palace of culture                                  | Market square      |                            |                    |         |  |
| City parks of culture and recreation     | Academy  | Concert hall                                       |                    |                            |                    |         |  |
| Parks and gardens in residential areas   | State university   | Circus collective                                  |                    |                            |                    |         |  |
| Boulevards, squares, plants, embankments | Special/high schools (for children before university)    | Cinema   |                    |                            |                    |         |  |
| Parklands                                | Special courses (for adults after school)                |  |                    |                            |                    |         |  |
| Parks in neighborhood and quarters       | <b>Sport</b>   | Fire station of subject of the RF                  |                    |                            |                    |         |  |
| Parks in schools and kindergartens       | International Stadium                                    | International-scale fire station                   |                    |                            |                    |         |  |
| Parks in cultural public institutions    | City stadium   | Regional court                                     |                    |                            |                    |         |  |
| Meadow                                   | Public stadium   | City court   |                    |                            |                    |         |  |
| Conservancy area                         | International sport center                               |  |                    |                            |                    |         |  |
| Sport open stadiums                      | City sport center  |  |                    |                            |                    |         |  |
| Villages                                 | Public sport center                                      |  |                    |                            |                    |         |  |
| Botanical and zoological gardens         | International swimming pool                              |  |                    |                            |                    |         |  |
| Cemetery, crematorium                    | Public swimming pool                                     |  |                    |                            |                    |         |  |

| Healthcare facility  | Availability                          | Radius,m   | Time,min                         | Scale         | Capacity |
|----------------------|---------------------------------------|--|----------------------------------|---------------|----------|
| 1. Pharmacy          | 1.1 In high-rise building environment | 1/10000people or<br>50m <sup>2</sup> /1000people <sup>(2)</sup>      | 500 <sup>(1)</sup>               |               |          |
|                      | 1.2 In low-rise building environment  |  | 800 <sup>(1)</sup>               |               |          |
| 2. Polyclinic        | ■ 2.1 For adults                      | 18,15 visits perworking shift<br>/1000people(minimum) <sup>(2)</sup> | 1000 <sup>(1)</sup>              | Precinct      |          |
|                      | ■ 2.2 For children                    |  |                                  |               |          |
| 3. Hospital          | 3.1 For adults                        | 13,47place/1000people<br>(minimum) <sup>(2)</sup>                    |                                  | City/republic |          |
|                      | 3.2 For children                      | 1,5place/1000people<br>(minimum) <sup>(2)</sup>                      |                                  | City/republic |          |
|                      | ■ 3.3 Maternity                       | 0,85place/1000 people<br>(minimum) <sup>(2)</sup>                    |                                  | Precinct      |          |
| 4. Ambulance station | ■                                     | 1car/10000 people <sup>(2)</sup>                                     | 15 minutes by car <sup>(2)</sup> | District      |          |

1. BR 42.13330.2011 Urban planning. Planning and development of urban and rural settlements. Updated version of BRandR 2.07.01-89 \*

2. Republican regulation of the urban-planning Ministry of Construction, Architecture and Housing and communal services of the Republic of Tatarstan, 2012

| Healthcare facility                  | Availability                           | Radius,m                    | Time,min | Scale    | Capacity |
|--------------------------------------|--|-----------------------------|----------|----------|----------|
| 1. Ambulance station (in Kazan)      |  |                             |          |          |          |
| Station №1<br>(Chekhov st. 3)        | 1station/400000 people <sup>(22)</sup> | >10000 <sup>(22)</sup>      |          | District |          |
| Station №2<br>(Gorsovetskaya st. 25) | 1station/250000 people <sup>(22)</sup> | >10000 <sup>(22)</sup>      |          | District |          |
| Station №3<br>(Belinskogo st. 35)    | 1station/120000 people <sup>(22)</sup> | 20000 <sup>(22)</sup>       |          | District |          |
| Station №4<br>(Lipatova st. 4a)      | 1station/45000 people <sup>(22)</sup>  | 7000 <sup>(22)</sup>        |          | District |          |
| Station №5<br>(L.Krasikova st. 8)    | 1station/52000 people <sup>(22)</sup>  | 20000-30000 <sup>(22)</sup> |          | District |          |
| Station №6<br>(Safiullina st. 10)    | 1station/270000 people <sup>(22)</sup> | <20000 <sup>(22)</sup>      |          | District |          |
| Station №7<br>(Rybatskaya st. 2a)    |  | <15000 <sup>(22)</sup>      |          | District |          |
| Station №8<br>(Adoratskogo st. 29v)  | 1station/350000 people <sup>(22)</sup> | >5000 <sup>(22)</sup>       |          | District |          |
| Station №9<br>(U.Fuchika st. 135)    | 1station/250000 people <sup>(22)</sup> | 8000-20000 <sup>(22)</sup>  |          | District |          |

22. <https://zdrav.tatar.ru/ssmp/section/substation-9> (Tatarstan Republic healthcare official web-portal)

**Precinct** - Establishment of service areas and the consolidation of the population, for out-patient polyclinic and stationary-polyclinic institutions is carried out by the healthcare authorities of municipalities in order to comply with the principle of primary health care at the place of residence, taking into account the number, density, age and sex composition of the population, the incidence rate , geographical and other features of the territories.

**Polyclinic** - is medical-prophylactic institution intended for rendering out-of-hospital medical care to the population and carrying out a complex of preventive measures aimed at reducing the incidence.

**Hospital** - is a medical and preventive institution that provides inpatient medical care to the population. The main task of hospitals is to provide medical care in cases when treatment or complex diagnostic studies are not possible in outpatient and outpatient settings; if the recovery or improvement in the patient's condition can be achieved more quickly in the hospital than with outpatient treatment; If the stay of a sick home is a threat to others.

# Location of healthcare facilities in Kazan city on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Healthcare facilities

- hospital republic
- hospital city
- polyclinic adult
- polyclinic kids
- maternity hospital
- ambulance station
- buildings
- water
- city border

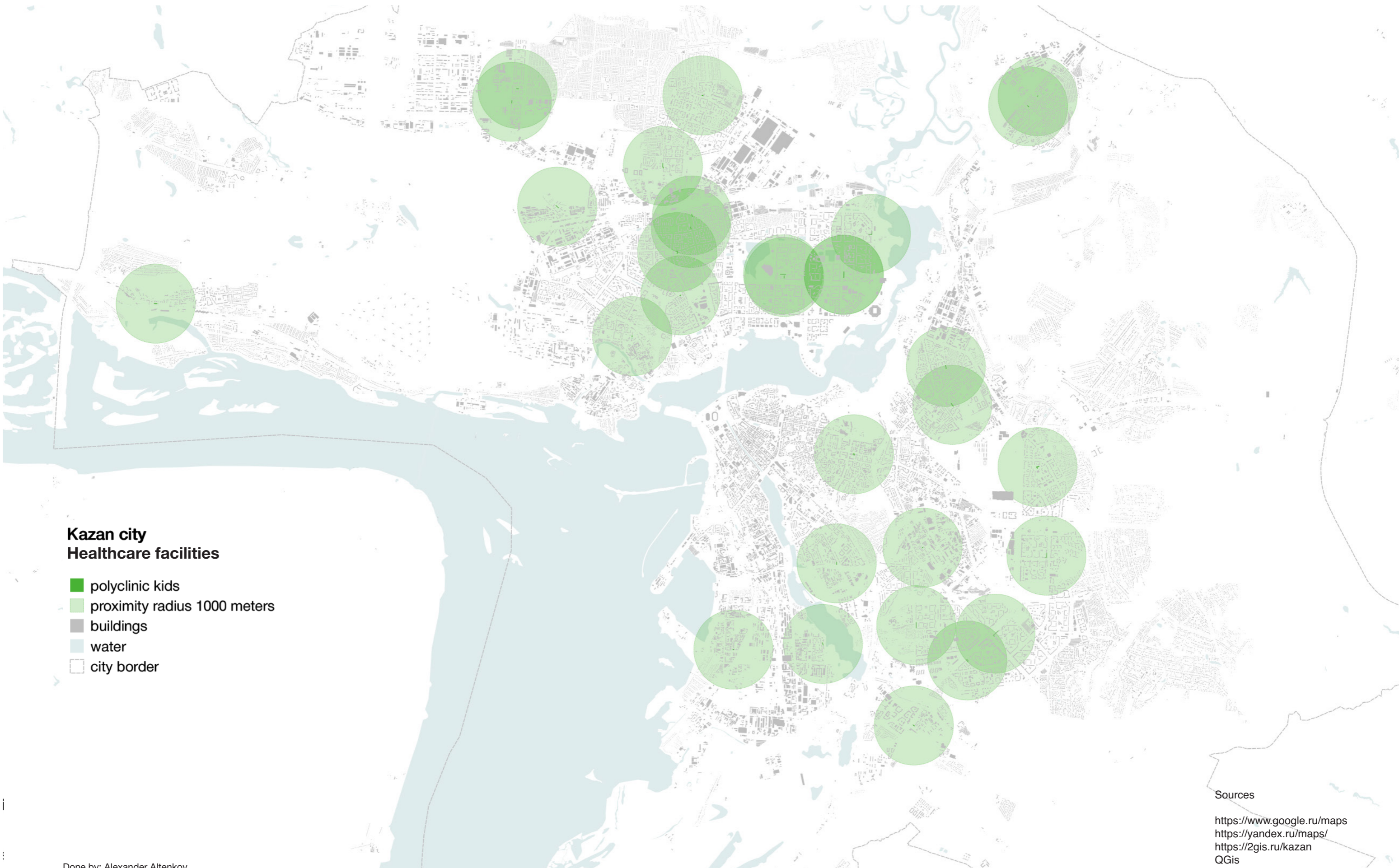
## Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

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Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

# Scheme of children polyclinic proximity zones in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



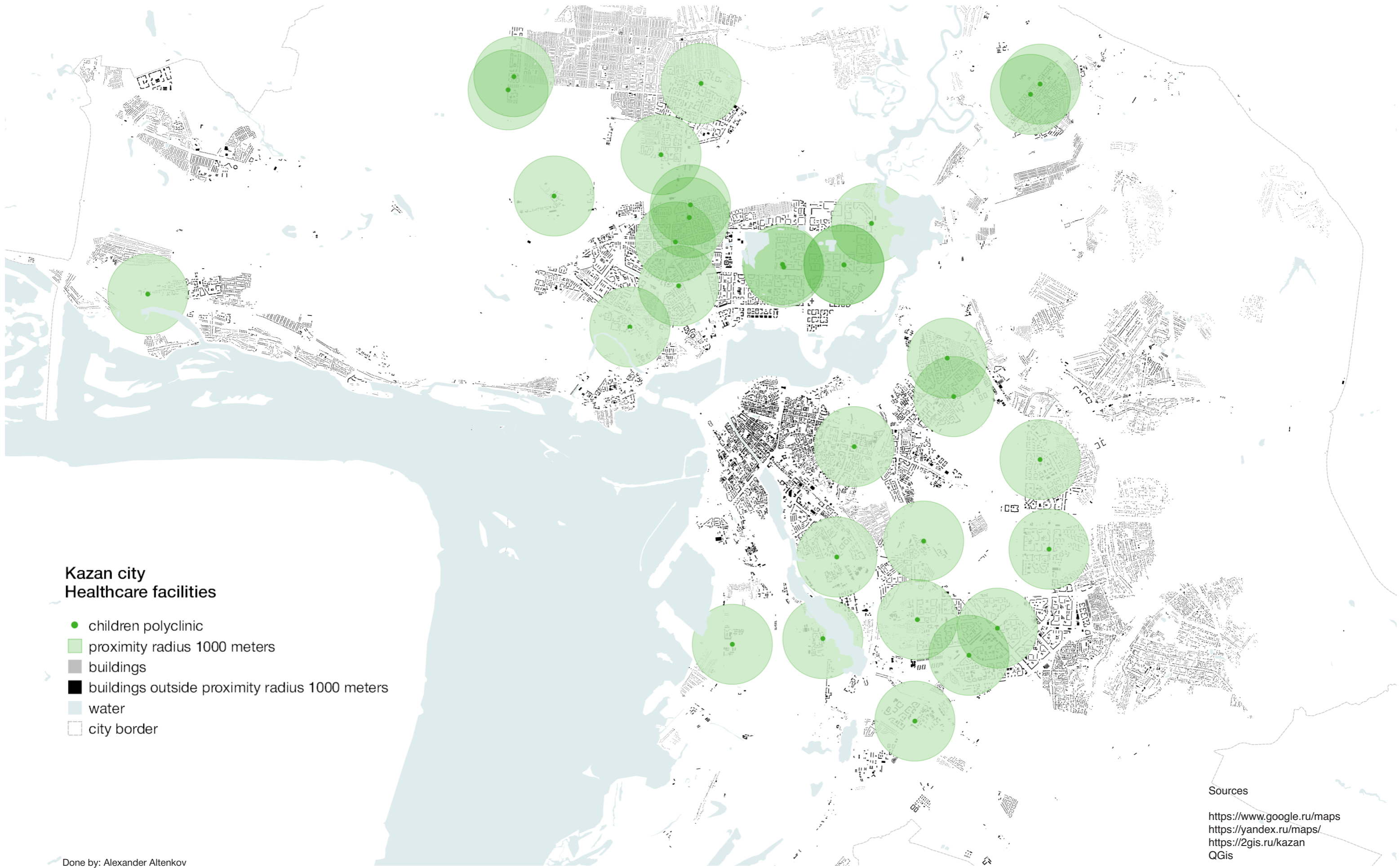
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# Analysis of children polyclinic in Kazan city on 2017 year

Graduate .....  
School .....  
of Urbanism ...



## Kazan city Healthcare facilities

- children polyclinic
- proximity radius 1000 meters
- buildings
- buildings outside proximity radius 1000 meters
- water
- city border

## Sources

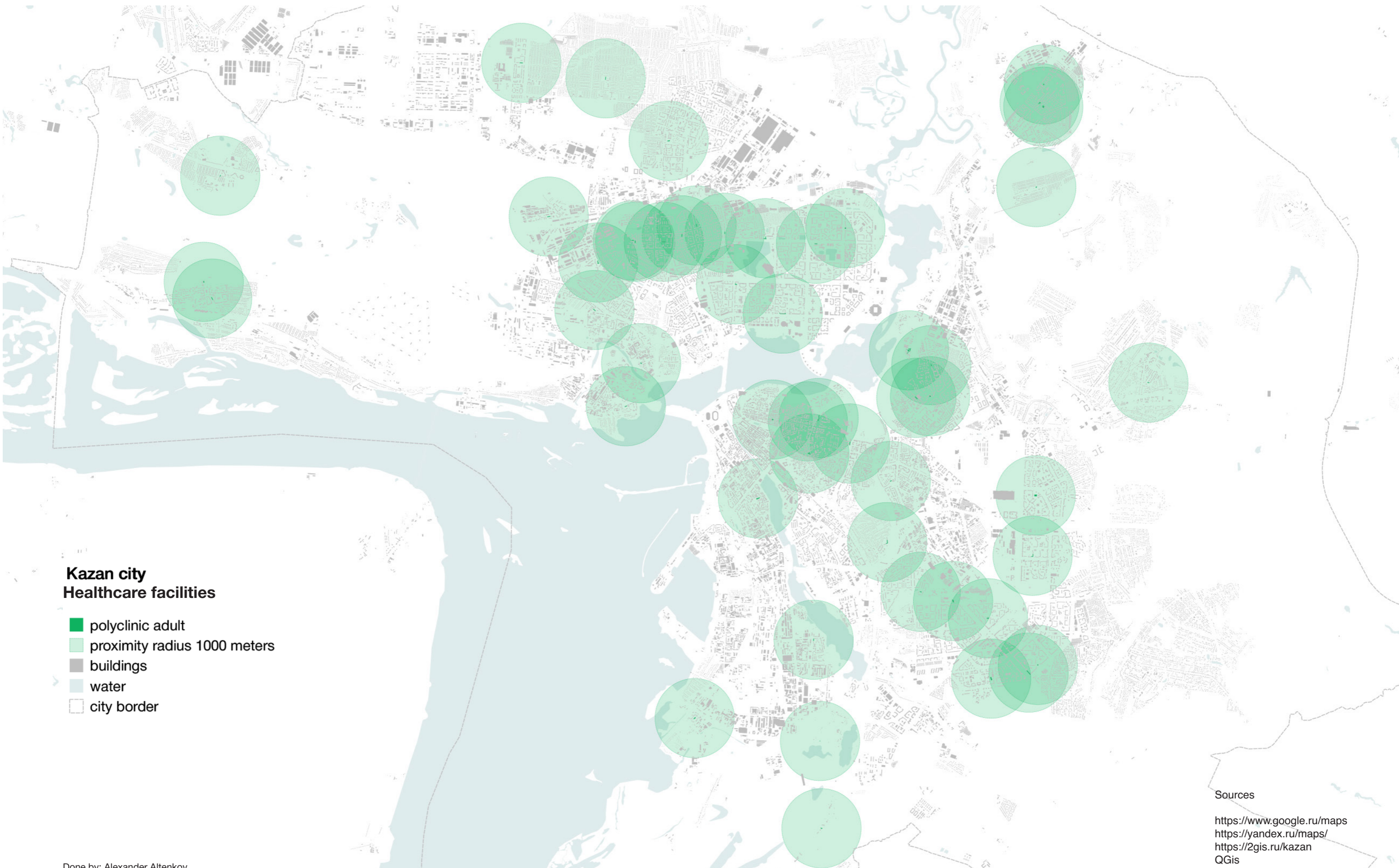
<https://www.google.ru/maps>  
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# Scheme of adult polyclinic proximity zones in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



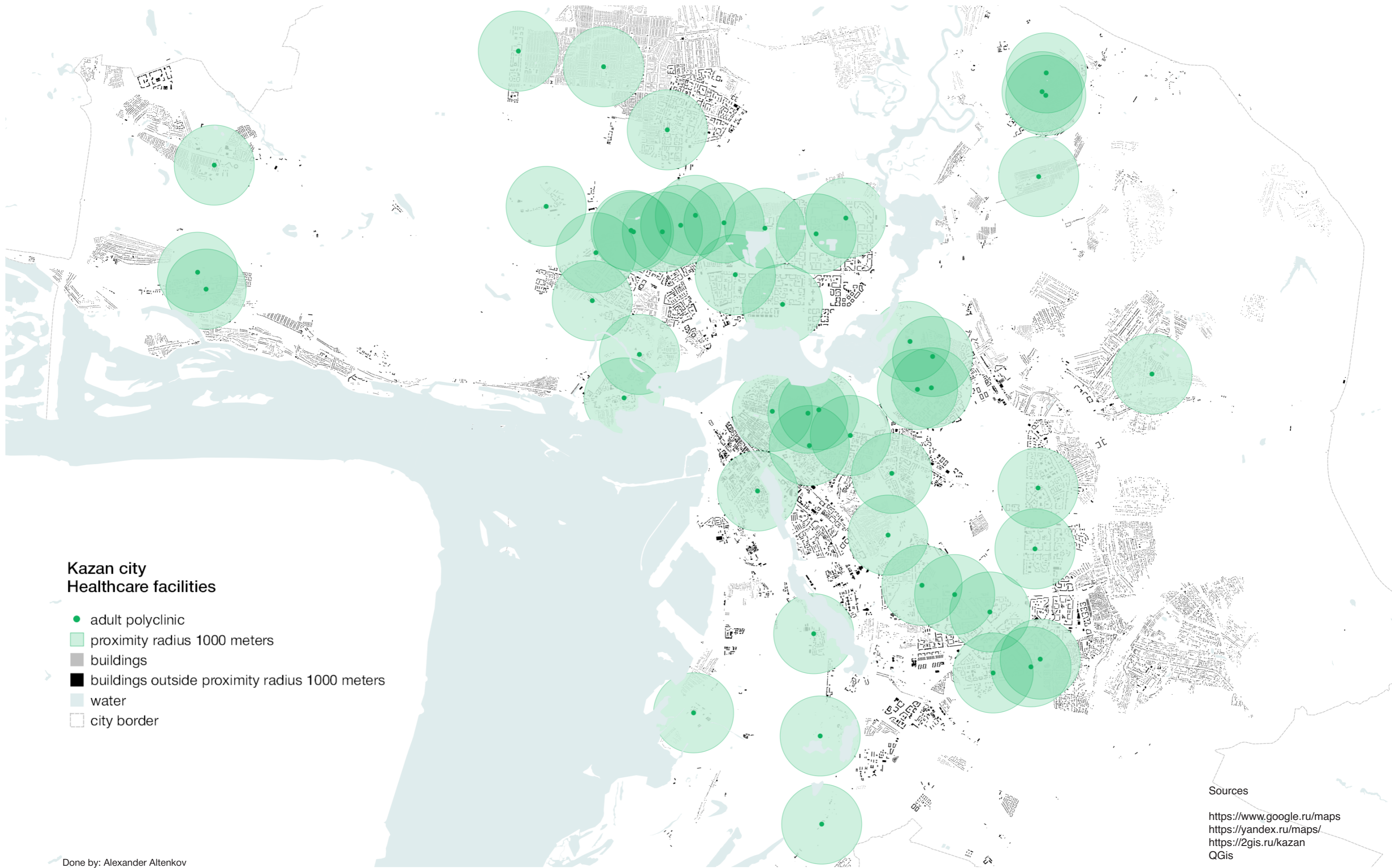
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# Analysis of adult polyclinic in Kazan city on 2017 year

Graduate .....  
School .....  
of Urbanism ...



## Kazan city Healthcare facilities

- adult polyclinic
- proximity radius 1000 meters
- buildings
- buildings outside proximity radius 1000 meters
- water
- city border

## Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
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# Analysis of green areas (parks) facilities

| Green areas (parks) facility |   | Availability                      | Radius, m     | Time, min | Scale        | Square, ha |
|------------------------------|---|-----------------------------------|---------------|-----------|--------------|------------|
| 1. General use               | 1.1 City parks of culture and recreation    | 3000 m2/<br>1000 people(11)       | 5000(11)      | 20(11)    | City         | 25         |
|                              | 1.2 Parks and gardens in residential areas  | 3000 m2/<br>1000 people(11)       | 2000(11)      | 10(11)    | District     | 10         |
|                              | 1.3 Boulevards, squares, plants, embanments | 3000 m2/<br>1000 people(11)       | -             | -         | City         | 50         |
|                              | 1.4 Parklands                               | 150000 m2/<br>1000 people(11)     | 5000-7000(11) | 30(11)    | City         | 1          |
| 2. Limited use               | 2.1 In neighborhoods and quarters*          | 7000-19000 m2/<br>1000 people(11) | 500(1)        | 5-7(11)   | Neighborhood | -          |
|                              | 2.2 Schools and kindergardens               | 1500 m2/<br>1000 people(11)*      | -             | -         | Neighborhood | -          |
|                              | 2.3 Cultural public institutions            | 1500 m2/<br>1000 people(11)       | -             | -         | Neighborhood | -          |
|                              | 2.4 Meadow                                  | -                                 | -             | -         | Neighborhood | -          |
|                              | 2.5 Conservancy area                        | -                                 | -             | -         | City         | -          |
| 3. Special purpose           | 3.1 Sport open stadiums                     | 1200 m2/<br>1000 people(11)       | -             | -         | District     | -          |
|                              | 3.2 Villages                                | -                                 | -             | -         | District     | -          |
|                              | 3.3 Botanical, zoological gardens           | -                                 | -             | -         | City         | -          |
|                              | 3.4 Cemetery, crematorium                   | -                                 | -             | -         | City         | -          |

\* At least 50% of residential area should being occupied by grean zones

1 BR 42.13330.2011 Urban planning. Planning and development of urban and rural settlements. Updated version of BRandR 2.07.01-89 \*

11 Norms of green plantations of the city

12 BRandR II-60-75\* Planning and construction of cities, towns and rural settlements

13 On the Introduction into practice of recommendations to the subjects of The Russian Federation

**Parks of general use** - available to all city residents and visitors plantations, protecting from dust, excessive solar radiation, creating comfortable conditions for short-term and long-term rest, physical education and sports, cultural and educational and entertaining events. They include parks of culture and recreation (city-wide, district), children's, sports parks (stadiums), parks of quiet rest and walks, gardens of residential areas and neighborhoods, squares, boulevards, green stripes along the streets and embankments, green areas with city-wide shopping and administrative centers, forest parks, etc. (11)

**City parks** of culture and recreation - object of landscape architecture, which provides a recreational zone, an amusement zone and a service zone. (3)

Parks and gardens in residential areas - object of landscape architecture, which provides a recreational area for short-term and long-term rest. (3)

**Boulevards, squares, street's plants, embankments** - green areas of the city, pedestrian green spaces along (usually in the midst of) the street (originally - on the site of the former city ramparts), along the riverbank, the sea designed for walks. (11)

**Parklands** - protective forest plantations in the form of rows of trees and shrubs created among arable land, in pastures, in gardens, along irrigation and navigable canals, railways and highways, along ravine ravines, on slopes, etc. (11)

**Parks of limited use** – green areas for outdoor activities in physical culture and sports, for classes in special subjects and children's games, medical and preventive procedures, rest in between work breaks. They include green areas in residential areas of neighborhoods and quarters, plantations in the territories of children's and educational institutions, sports and cultural and educational institutions, public and health institutions, research institutions, sanitary territories of harmless industrial enterprises. (11)

**Conservancy area** - site of land territory or water area completely excluded from economic activities of a person, in which the genetic fund of plant and animal life is preserved, and also the natural course of natural processes and phenomena is studied; the main category of specially protected natural areas of Russia and a number of neighboring countries. (11)

**Parks of special purpose** – green areas that are created to reduce the adverse impact of industry and transport on the environment. They include plantings along streets, highways and in areas, plantation of communal and storage areas and sanitary protection zones, botanical, zoological gardens and parks, exhibitions, plantings of windproof, water and health significance, fire plantations, plantations for reclamation, nurseries, greenhouse farms, plantations of cemeteries and crematoria. (11)

**Specialized parks (children's, sports, zoological, etc.)** - parks, which are designed to meet the needs of all categories of urban residents in a variety of recreation. (11)

**Sport open stadiums** - a large field with treadmills around and places for spectators, located step-by-step around the field. It also contains additional areas and ancillary facilities for training and changing teams. Stadiums are used not only for various sports in the open air (for example, athletics and football), but also for concerts and other events. (11)

**Green spaces of protective and sanitary areas** - green areas that are created to reduce the adverse impact of industry and transport on the environment.

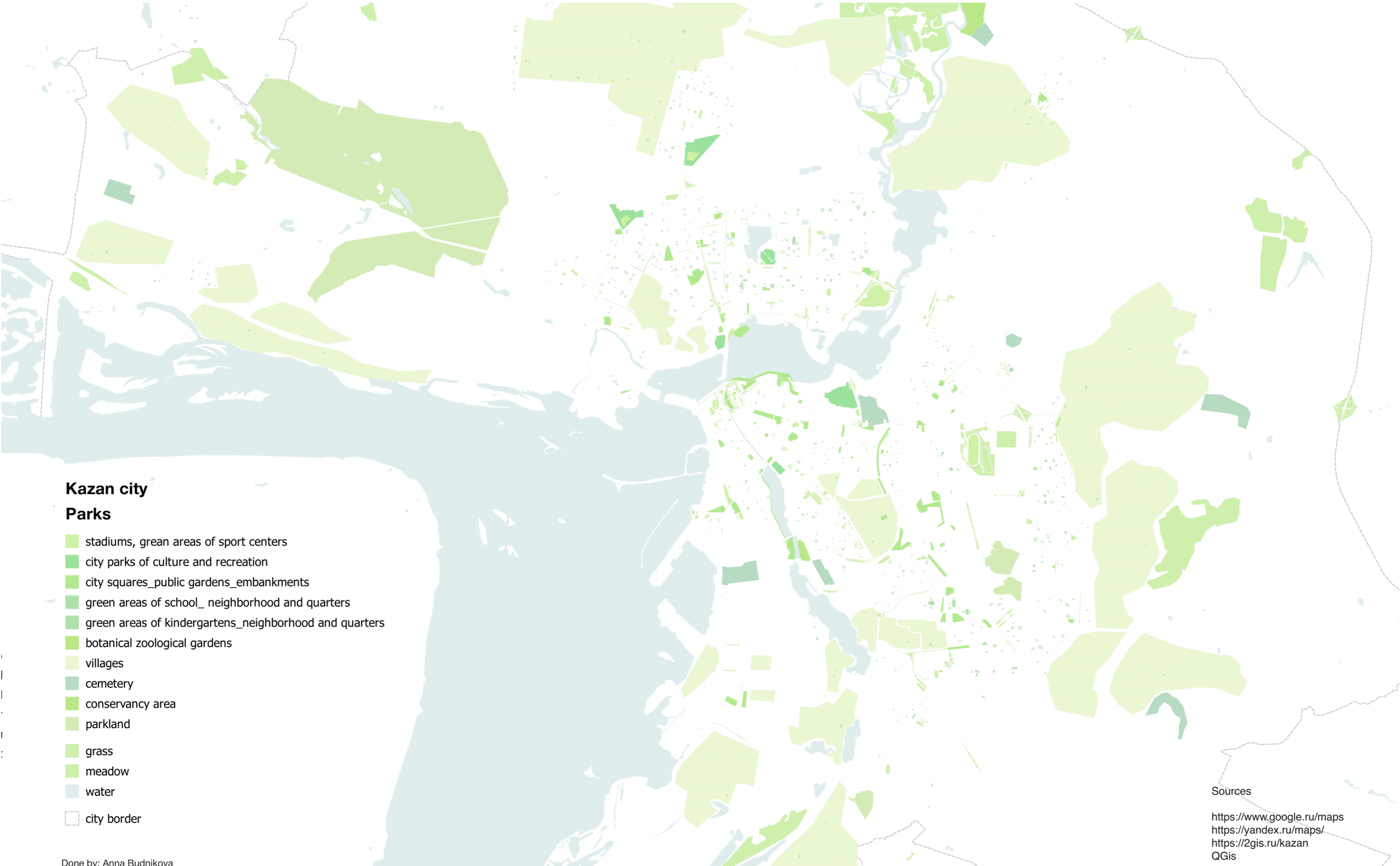
**Botanical and zoological gardens** - green areas that are created on the basis of a specialized landscape environment, subject to the availability of a collection of animals and plants for demonstrating to the population various species of fauna and flora, conducting research and cultural and educational activities for the protection of nature and wildlife. (11)

**Cemetery, crematorium** – green site specially intended for burial of the dead or their ashes after cremation. (11)

3 Order of the Ministry of Culture of the Russian Federation No. R-547 of April 29, 2016 On Methodological Recommendations to Subjects of the Russian Federation and Local Governments for the Development of the Network of Cultural Organizations and the Provision of Population with the Services of Cultural Organizations  
11 Norms of green plantations of the city

# Location of parks (green areas)

· Graduate .....  
 · School .....  
 · of Urbanism ...



**Kazan city**

**Parks**

- stadiums, green areas of sport centers
- city parks of culture and recreation
- city squares\_public gardens\_embankments
- green areas of school\_ neighborhood and quarters
- green areas of kindergartens\_neighborhood and quarters
- botanical zoological gardens
- villages
- cemetery
- conservancy area
- parkland
- grass
- meadow
- water
- city border

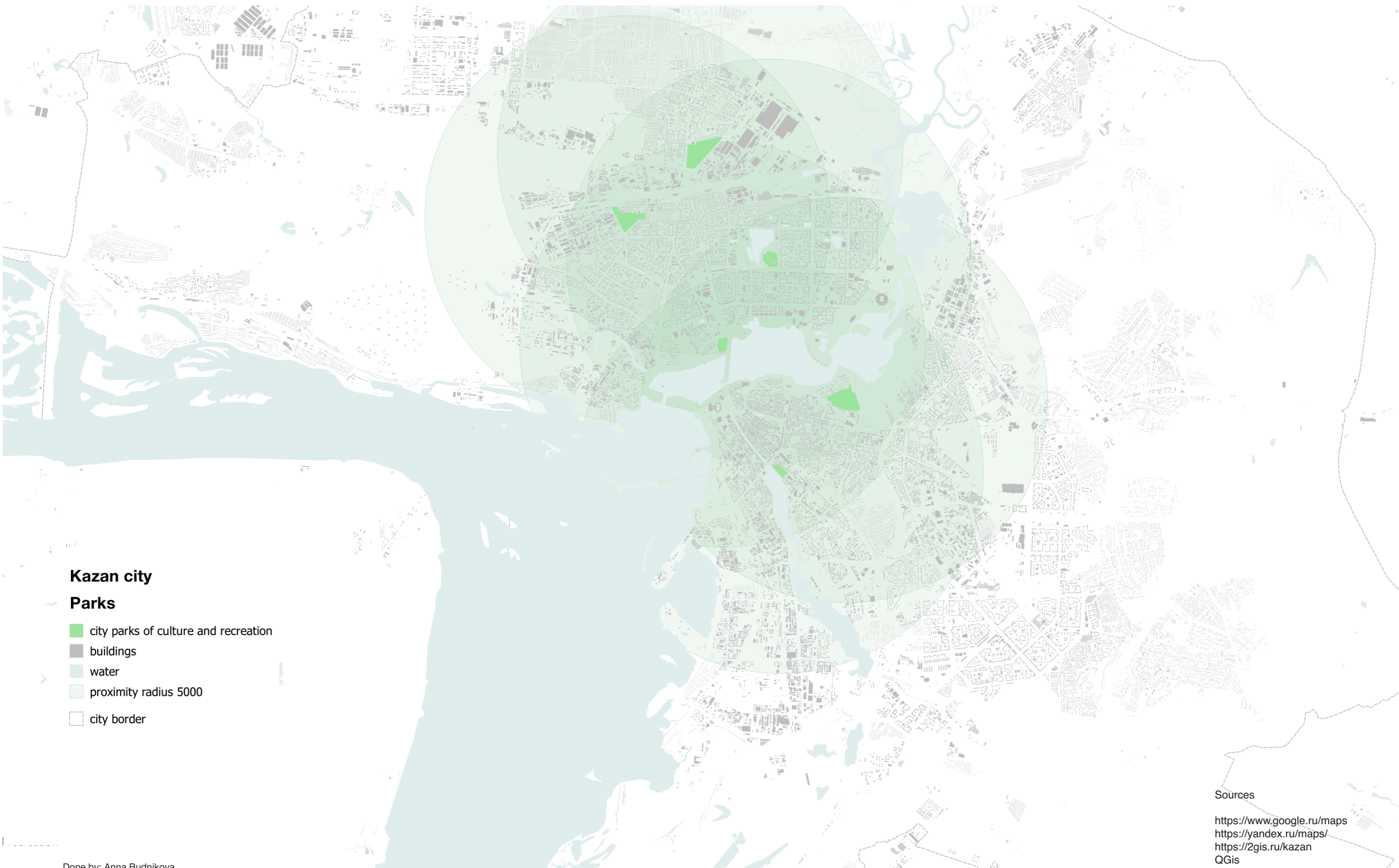
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# Scheme of city parks of culture and recreation proximity zones

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city

### Parks

- city parks of culture and recreation
- buildings
- water
- proximity radius 5000
- city border

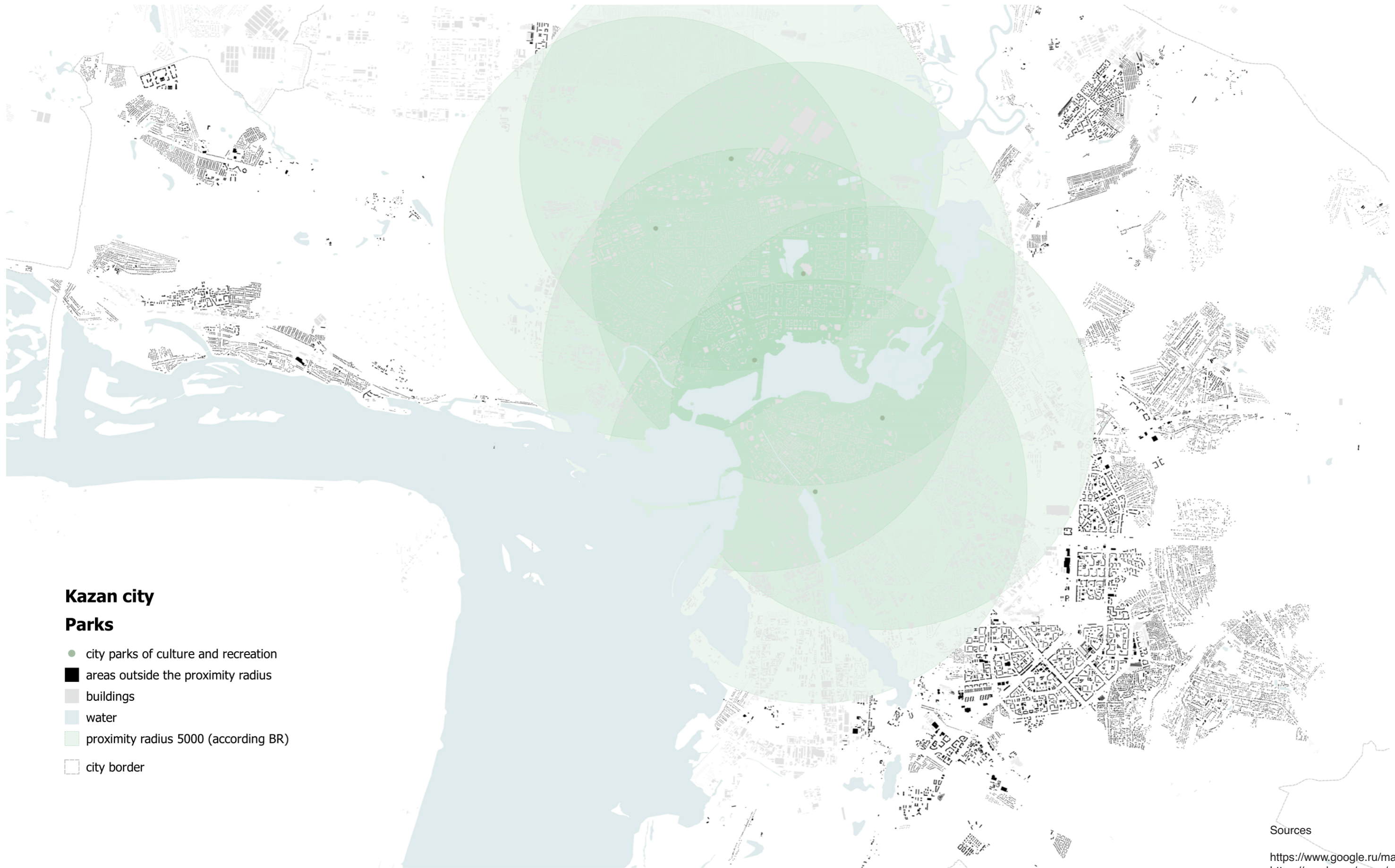
### Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

Done by: Anna Budnikova  
Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

# Analysis of city parks of culture and recreation in Kazan city on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city

### Parks

- city parks of culture and recreation
- areas outside the proximity radius
- buildings
- water
- proximity radius 5000 (according BR)
- city border

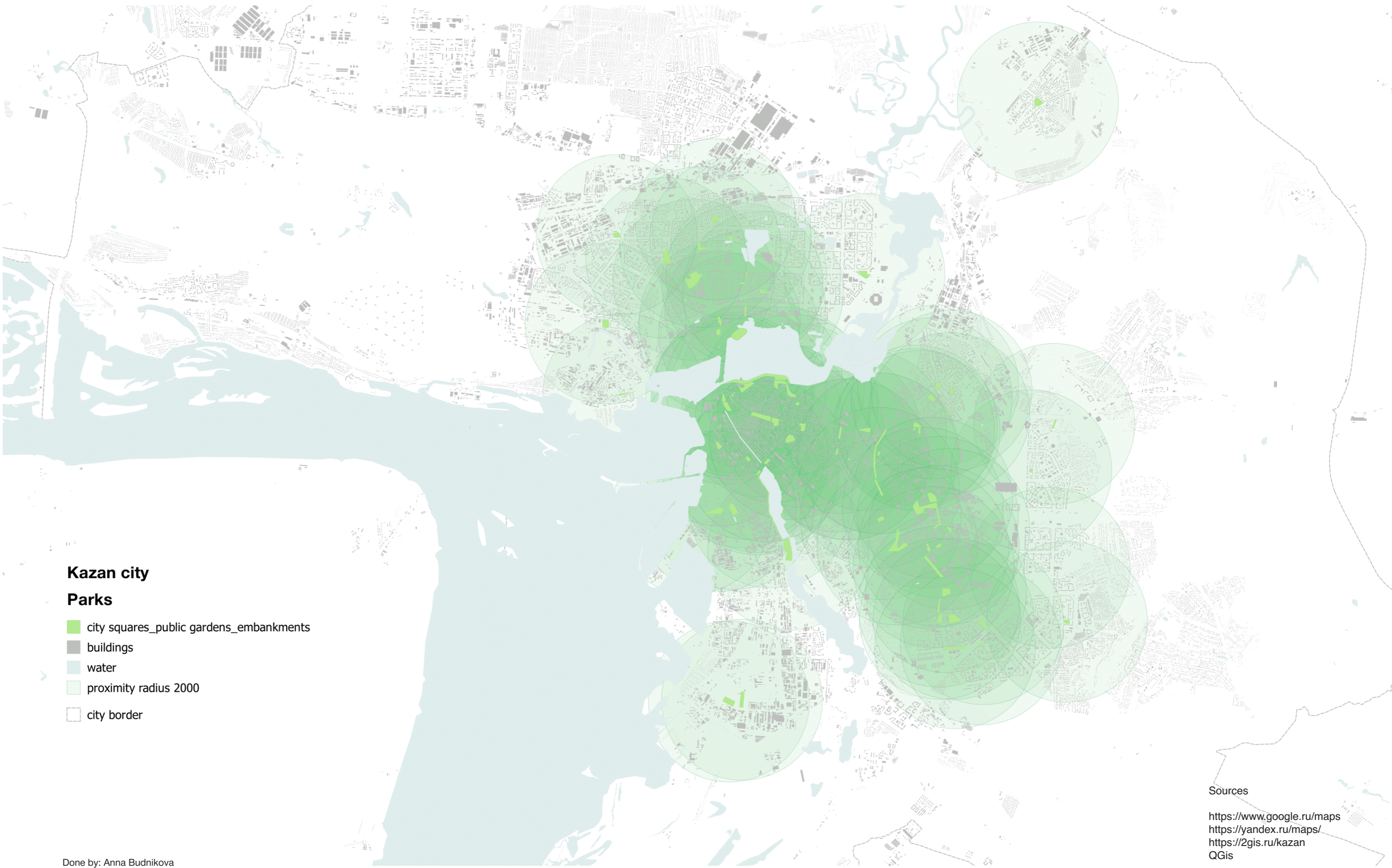
### Sources

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QGis

Done by: Anna Budnikova  
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Curator of the project: Elena Mitrofanova

# Scheme of city squares proximity zones in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city

### Parks

city squares\_public gardens\_embankments

buildings

water

proximity radius 2000

city border

### Sources

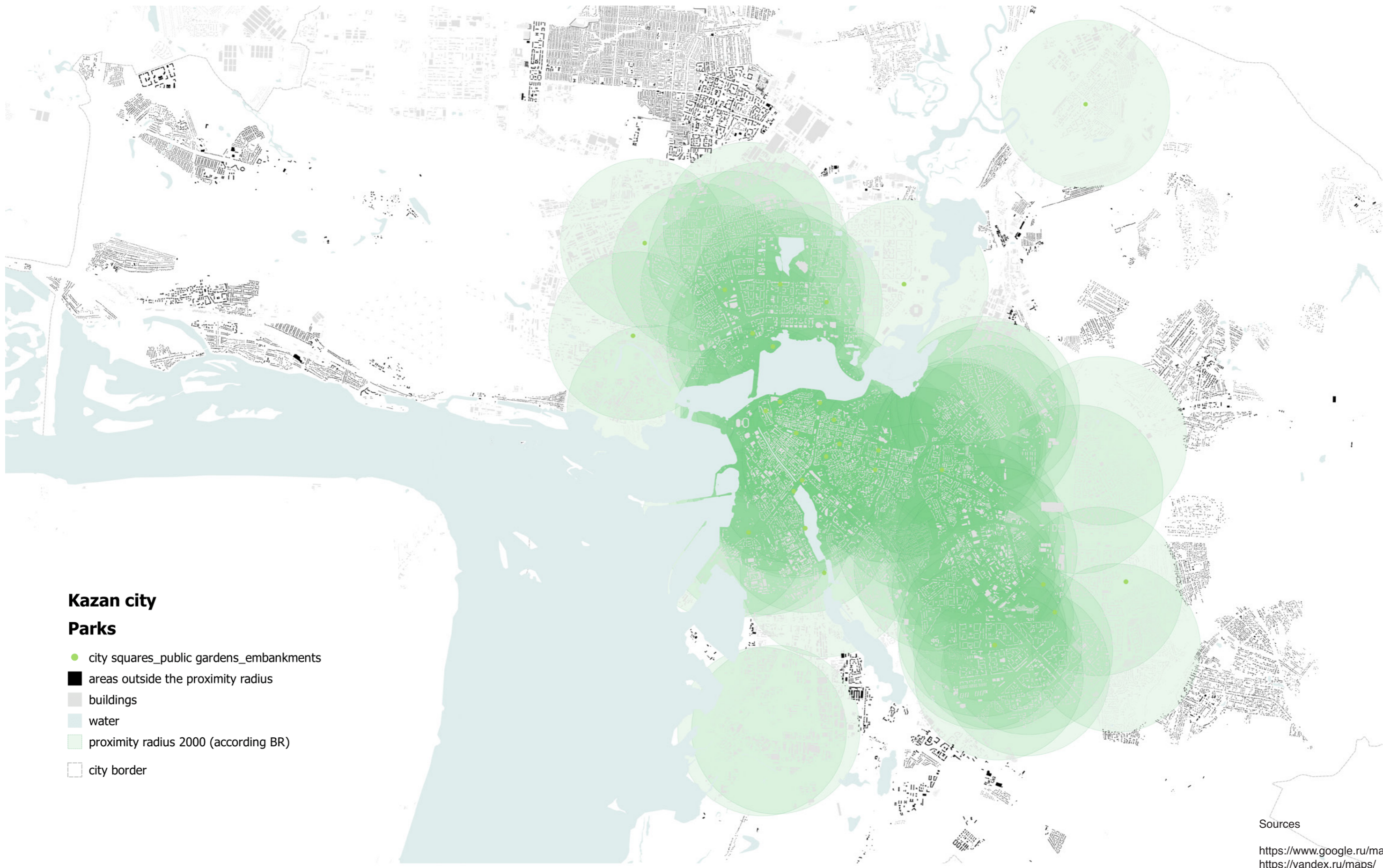
<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

Done by: Anna Budnikova  
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# Analysis of city squares in Kazan city on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city

### Parks

- city squares\_public gardens\_embankments
- areas outside the proximity radius
- buildings
- water
- proximity radius 2000 (according BR)
- city border

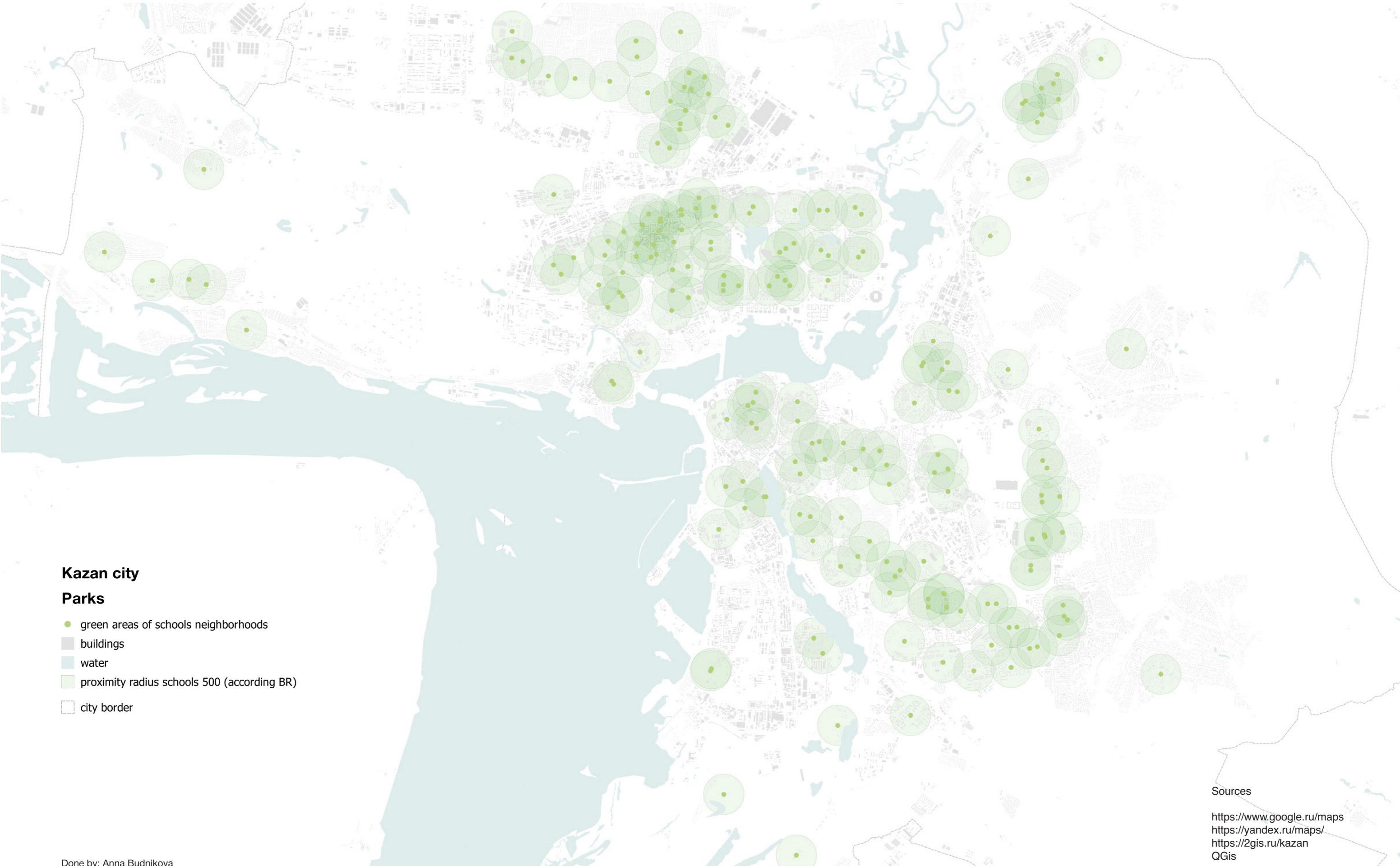
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QGis

Done by: Anna Budnikova  
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# Scheme of green areas of kindergardens proximity zones in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



### Kazan city

### Parks

- green areas of schools neighborhoods
- buildings
- water
- proximity radius schools 500 (according BR)
- city border

### Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

Done by: Anna Budnikova  
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# Analysis of green areas of kindergartens in Kazan city on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



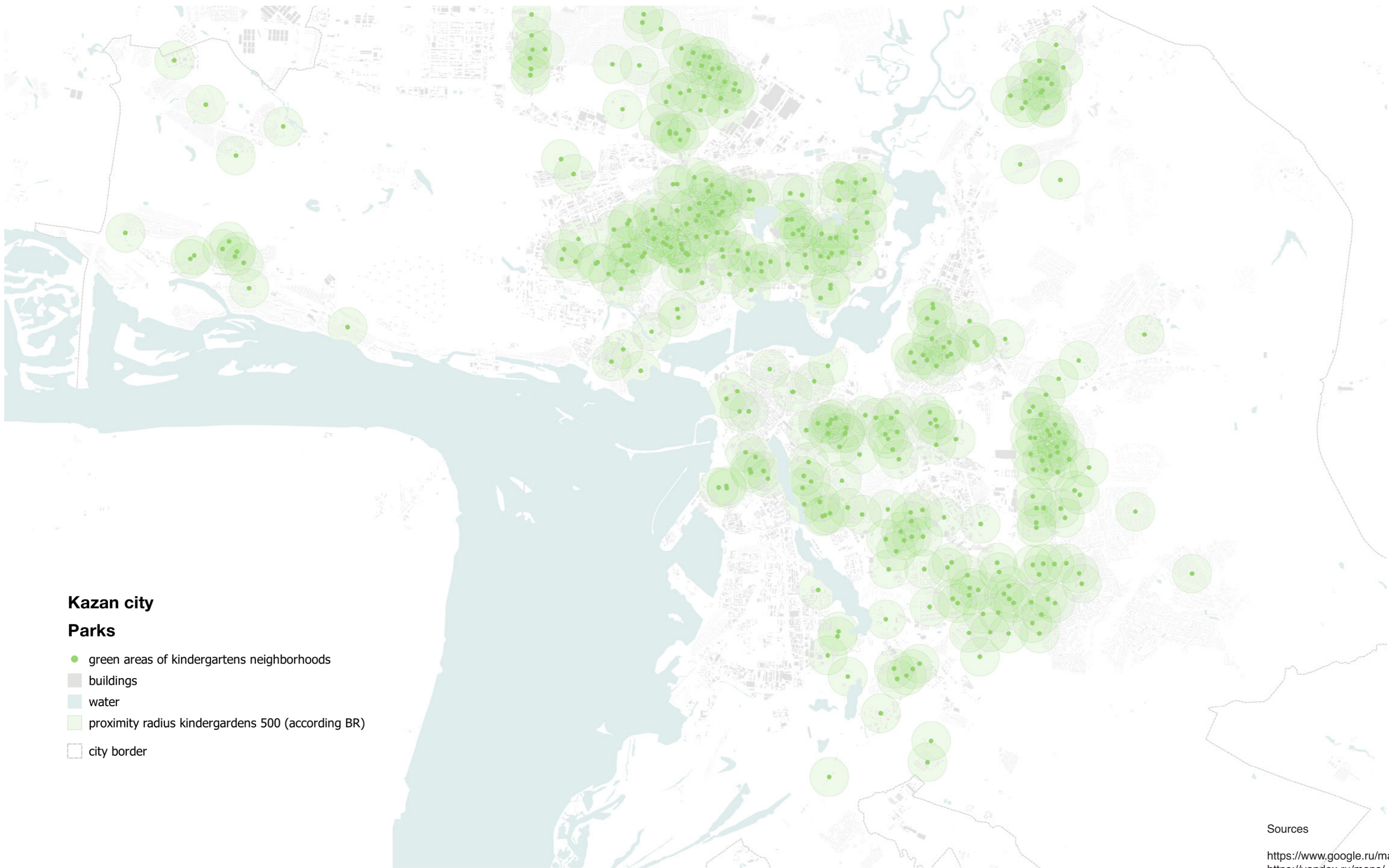
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QGis

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Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

# Scheme of green areas of schools proximity zones in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



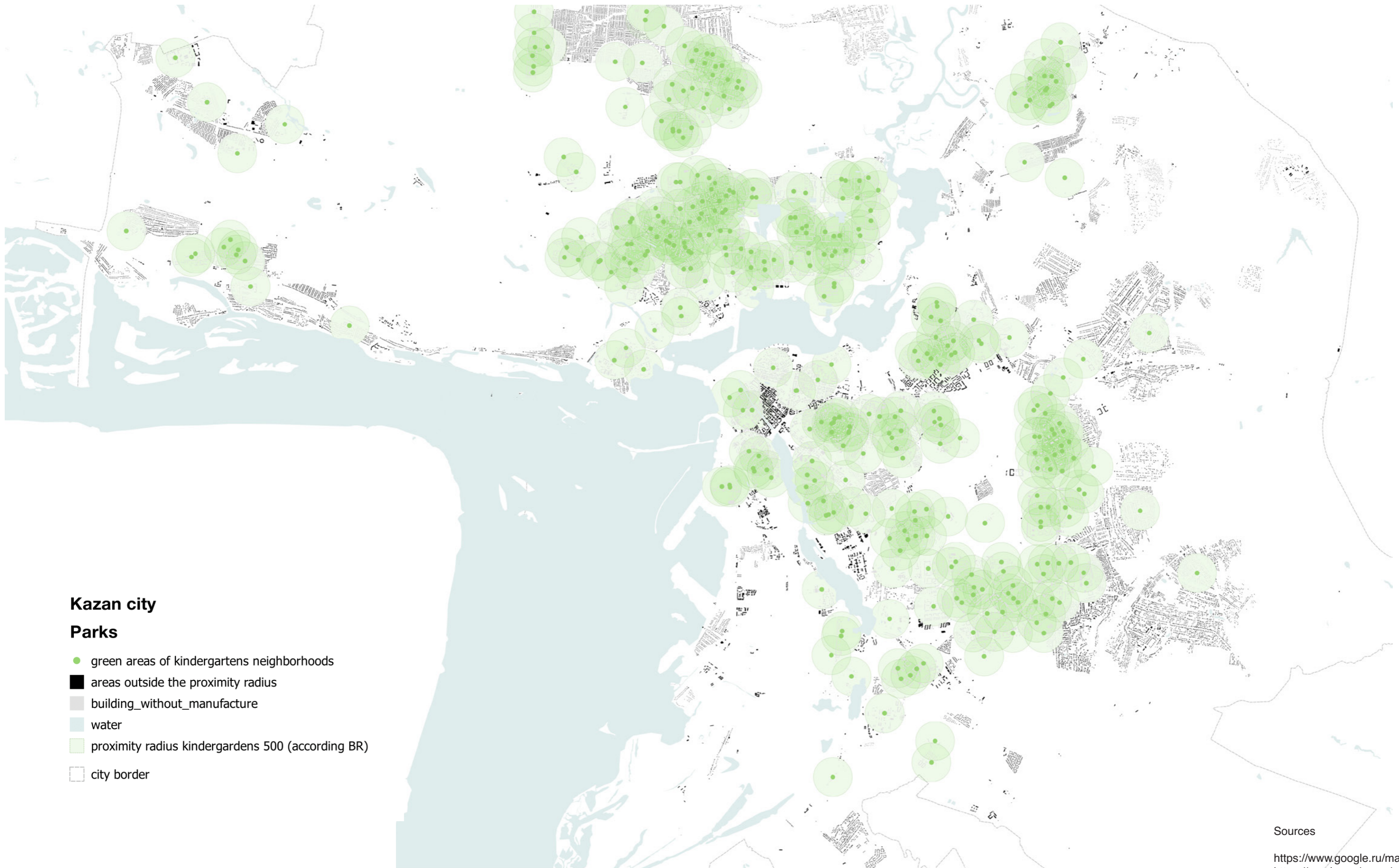
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<https://www.google.ru/maps>  
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QGis

Done by: Alexandr Altenkov  
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Curator of the project: Elena Mitrofanova

# Analysis of green areas of schools in Kazan city on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city

### Parks

- green areas of kindergartens neighborhoods
- areas outside the proximity radius
- building\_without\_manufacture
- water
- proximity radius kindergartens 500 (according BR)
- city border

### Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

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# Norms of educational in Kazan city on 2017 year

| Educational facility    | Availability  | Radius, m        | Time, min | Scale | Capacity |                                  |
|-------------------------|---|------------------|-----------|-------|----------|----------------------------------|
| 1. Kindergarten         | 1.1 In large cities                                       | 1/1000 people(7) | 300(1)    | 31)   | District | 100-180 seats/<br>1000 people(1) |
|                         | 1.2 In residential areas and small towns                  | 1/1000 people(7) | 500(1)    | 5(1)  | District | 100-180 seats/<br>1000 people(1) |
| 2. School               | 2.1 Primary (1-8 years)                                   | 1/1000 people(7) | 500(1)    | 5(1)  | District | 135-180 seats/<br>1000 people(1) |
|                         | 2.2 Senior (9-11 years)                                   | 1/1000 people(7) | 750(1)    | 8(1)  | District | 30-35 seats/<br>1000 people(1)   |
| 3. College              | 3.1 College   | -                | -         | -     | City     | -                                |
|                         | 3.2 Technical college                                     | -                | -         | -     | City     | -                                |
| 4. University           | 4.1 Institute   | -                | -         | -     | City     | -                                |
|                         | 4.2 Academy   | -                | -         | -     | City     | -                                |
|                         | 4.2 State university                                      | -                | -         | -     | City     | -                                |
| 5. Additional education | 5.1 Special high schools (for children before university) | -                | -         | -     | City     | -                                |
|                         | 5.2 Special courses (for adults after school)             | -                | -         | -     | City     | -                                |

1 BR 42.13330.2011 Urban planning. Planning and development of urban and rural settlements. Updated version of BBrandR 2.07.01-89 \*

7 BR 252. 1325800.2016 Buildings of preschool educational organizations. Design rules

**Kindergarten** - preschool educational institution that implements the basic general education program of preschool education in groups of general developmental orientation; educational activity on educational programs of preschool education, supervision and care of children.(6)

**School** - educational institution for general education.(8)

**Primary school** - school, where educational period is the first 3-4 years. It can be organized as an independent school or a part of general education.(8)  
Senior school includes 8-11, 9-11 or 10-11 years, which can be multi-profile (special) or monoprofile. General education school combines both primary and high schools.(8)

**College** - secondary special educational institution that implements the basic professional educational programs of secondary vocational education of basic training and the program of secondary vocational education in-depth training.(9)

**Technical college** - secondary specialized educational institution that realizes the basic professional educational programs of secondary vocational education of basic training.(9)

**University** - higher educational institution that: realizes the educational programs of higher and postgraduate professional education in a wide range of areas of training (specialties); realizes training, retraining and (or) professional development of highly qualified specialists, scientific and scientificpedagogical specialists; performs fundamental and applied scientific research on a wide range of sciences; is a leading scientific and methodological center in the field of its activities.(10)

**Academy** - higher educational institution that: realizes the educational programs of higher and postgraduate professional education; realizes training, retraining and (or) raises the level of qualification of employees of the highest qualification for the certain field of scientific and scientificpedagogical activity; performs fundamental and applied scientific research; is a leading scientific and methodological center in the field of its activities.(10)

**Institute** - higher educational institution that: implements educational programs of higher professional education, as well as, as a rule, educational programs of post-graduate professional education; realizes training, retraining and (or) professional development of specialists for the certain field of professional activity; conducts fundamental and (or) applied scientific research.(10)

**Additional education for children (and adults)** - kind of education that aims to fully satisfy the educational needs of person in intellectual, spiritual, moral, physical and (or) professional development and is not accompanied by an increase the level of education. It can include special schools (mainly for children of school

and preschool age) and refresher courses and professional retraining (mainly for the adult generation).(10)

**Special schools (for children before university)** – school in broad meaning with special course, such as music school, art school, sports school, as a rule, for children before university.(10)

**Special courses (for adults after school)** - additional professional education of various forms, obtained in addition to the primary, secondary or higher.(10)

6 MGSN 4.07-05 Preschool educational institutions

8 MGSN 4.07-03 General educational institutions

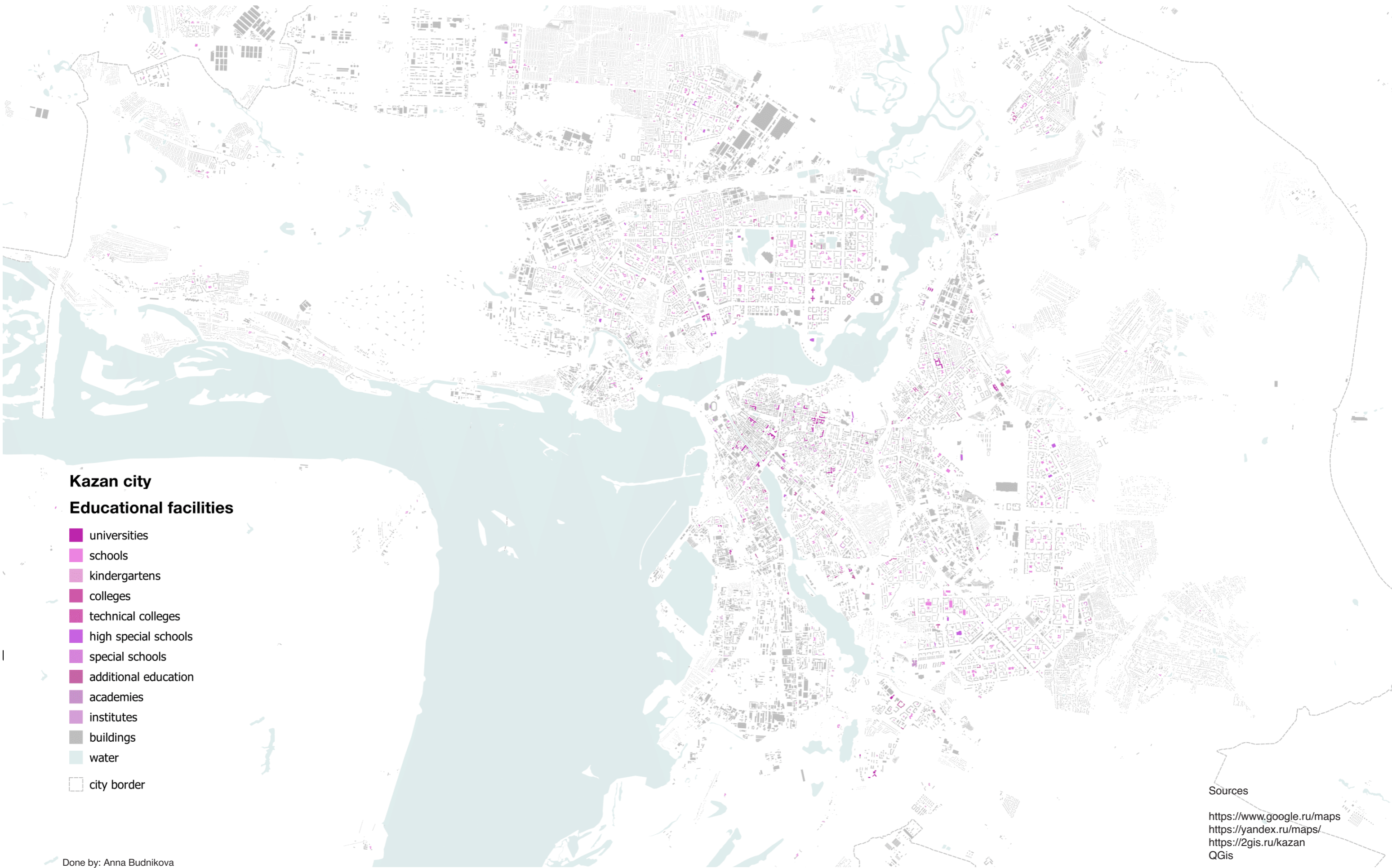
9 The Decree of the Government of the Russian Federation, 18.07.2008 N 543 «On approval of the Model Regulations on

the educational institution of secondary education (secondary special educational institution)»

10 The Federal Law No. 273-FZ of December 29, 2012 (as amended on July 29, 2017) «On Education in the Russian Federation»

# Location of educational facilities in Kazan on 2017 year

Graduate .....  
School .....  
of Urbanism ...



Sources

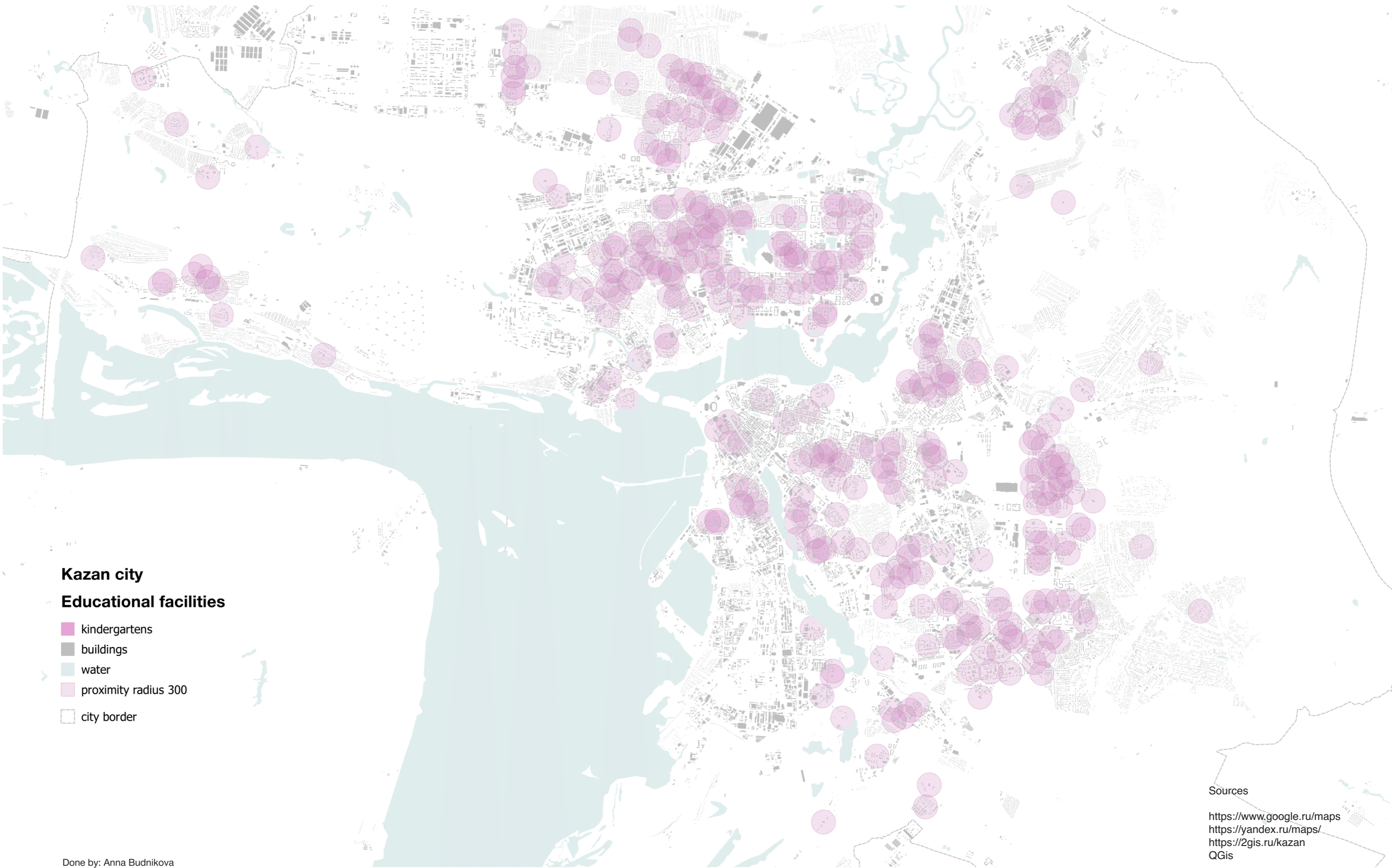
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QGis

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# Scheme of kindergartens proximity zones in Kazan on 2017 year

Graduate .....  
School .....  
of Urbanism ...



## Kazan city

### Educational facilities

- kindergartens
- buildings
- water
- proximity radius 300
- city border

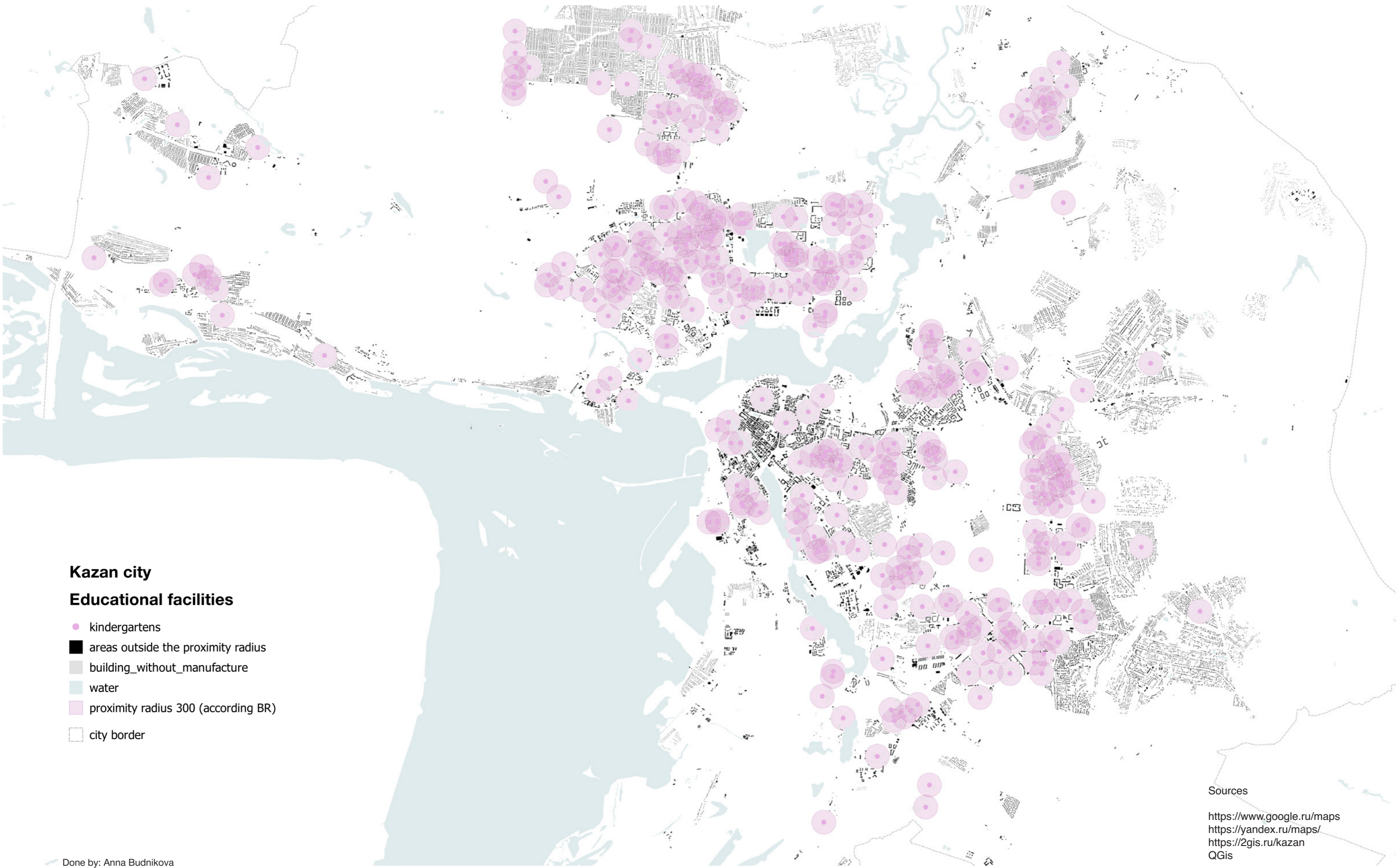
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# Analysis of kindergartens in Kazan on 2017 year

Graduate .....  
School .....  
of Urbanism ...



## Kazan city

### Educational facilities

- kindergartens
- areas outside the proximity radius
- building\_without\_manufacture
- water
- proximity radius 300 (according BR)
- city border

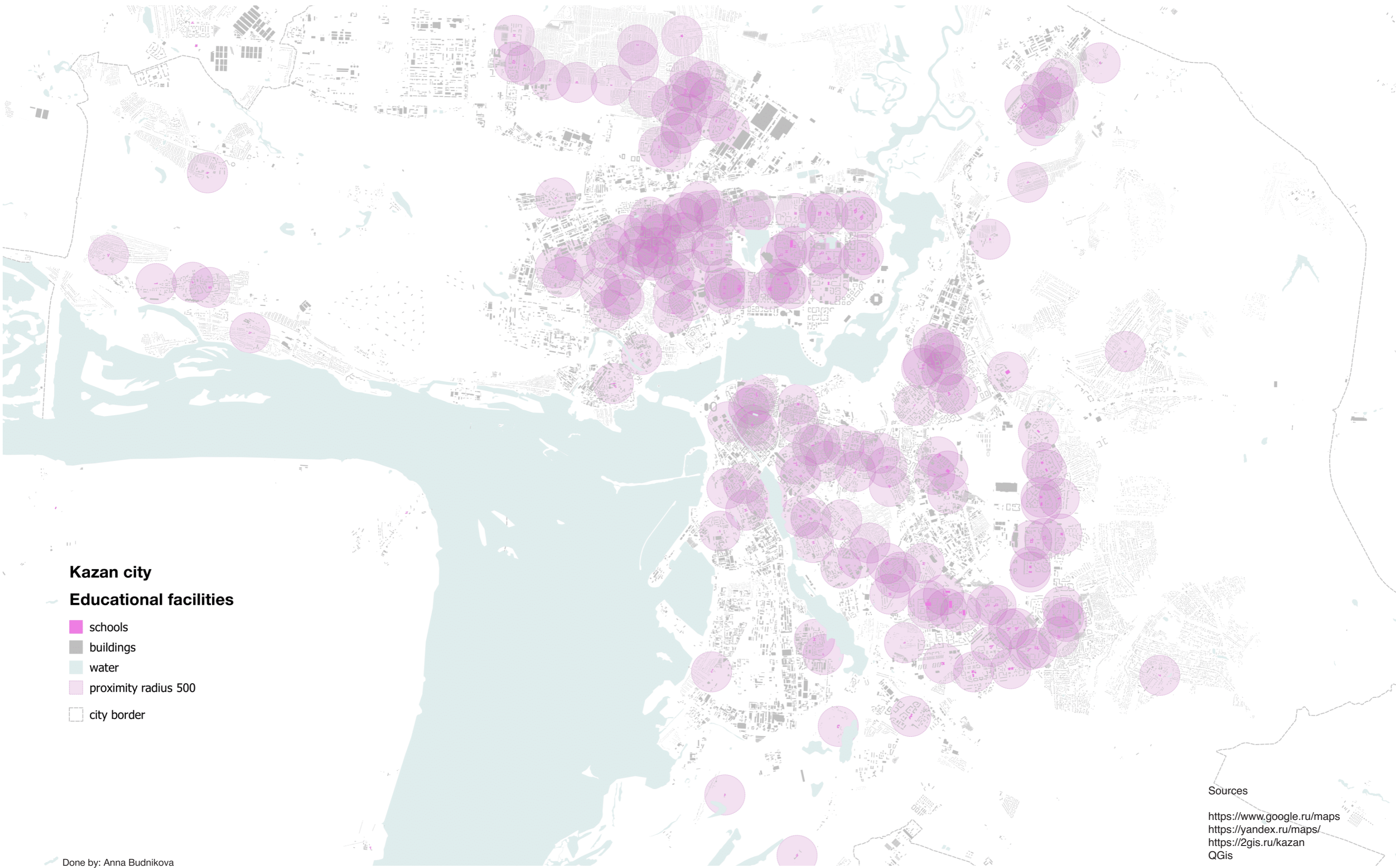
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# Scheme of schools proximity zones in Kazan on 2017 year

Graduate .....  
School .....  
of Urbanism ...



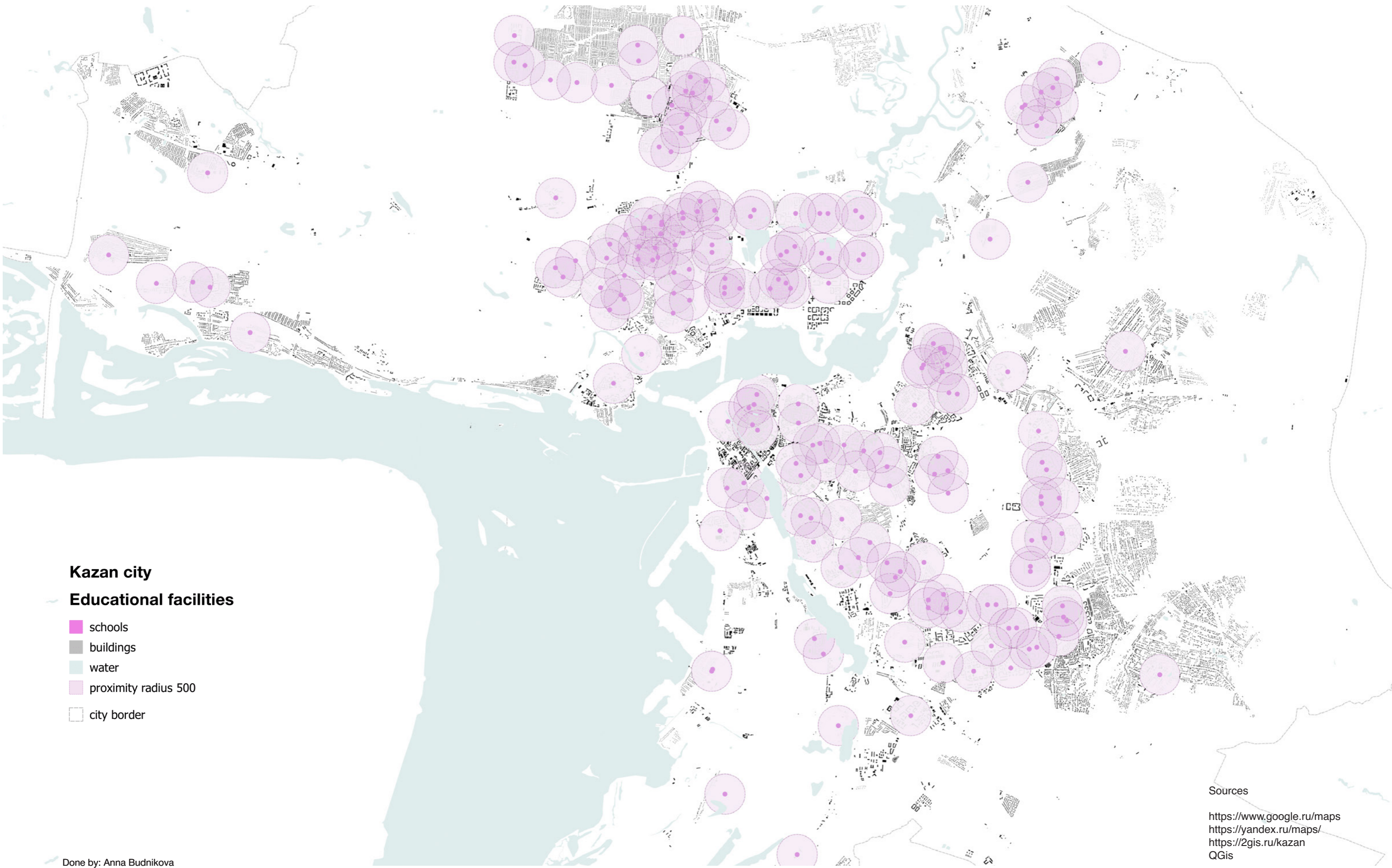
### Sources

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<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

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# Analysis of schools in Kazan on 2017 year

Graduate .....  
School .....  
of Urbanism ...



- Kazan city**
- Educational facilities**
- schools
  - buildings
  - water
  - proximity radius 500
  - city border

Sources  
<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

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# Norms of sport facilities

| Sport facility   |                     | Availability           | Radius, m           | Time, min         | Scale    | Capacity |
|------------------|---------------------|------------------------|---------------------|-------------------|----------|----------|
| 1. Stadium       | ■ 1.1 International | 1/city <sup>(2)</sup>  | -                   | -                 | City     | -        |
|                  | ■ 1.2 City          | 5/city <sup>(2)</sup>  | -                   | -                 | City     | -        |
|                  | ■ 1.3 Public        | 1/1000p <sup>(2)</sup> | 1500 <sup>(1)</sup> | 30 <sup>(1)</sup> | District | -        |
| 2. Sport center  | ■ 2.1 International | 1/city <sup>(2)</sup>  | 3000                | -                 | City     | -        |
|                  | ■ 2.2 City          | -                      | 1500 <sup>(1)</sup> | -                 | City     | -        |
|                  | ■ 2.3 Public        | -                      | 800 <sup>(2)</sup>  | -                 | -        | -        |
| 3. Swimming pool | ■ 2.2 City          | 1/city <sup>(2)</sup>  | 1500 <sup>(1)</sup> | -                 | District | -        |
|                  | ■ 2.3 Public        | 5/city <sup>(2)</sup>  | -                   | -                 | -        | -        |
| 4. Ice rink      | ■ 4.1 City          | 5/city <sup>(2)</sup>  | -                   | -                 | City     | -        |
|                  | ■ 4.2 Public        | -                      | -                   | -                 | -        | -        |

1 BR 42.13330.2011 Urban planning. Planning and development of urban and rural settlements. Updated version of BBrandR 2.07.01-89 \*

2. Republican regulation of the urban-planning Ministry of Construction, Architecture and Housing and communal services of the Republic of Tatarstan, 2012

**The stadium** is a complex sports facility, including a set of sports facilities (one of which is central - the core, including a football field, running tracks, jumping and throwing areas, surrounded by stands for spectators) and football and other grounds on the same territory.

**The international sport center** is a public or private organization that unites athletes and sports fans; there are sports clubs of a general type and specialized (by sport). The total area is 1000 and more square meters.

**The city sport center** is a public or private organization that unites athletes and sports fans; there are sports clubs of a general type and specialized (by sport). The total area is 500 square meters.

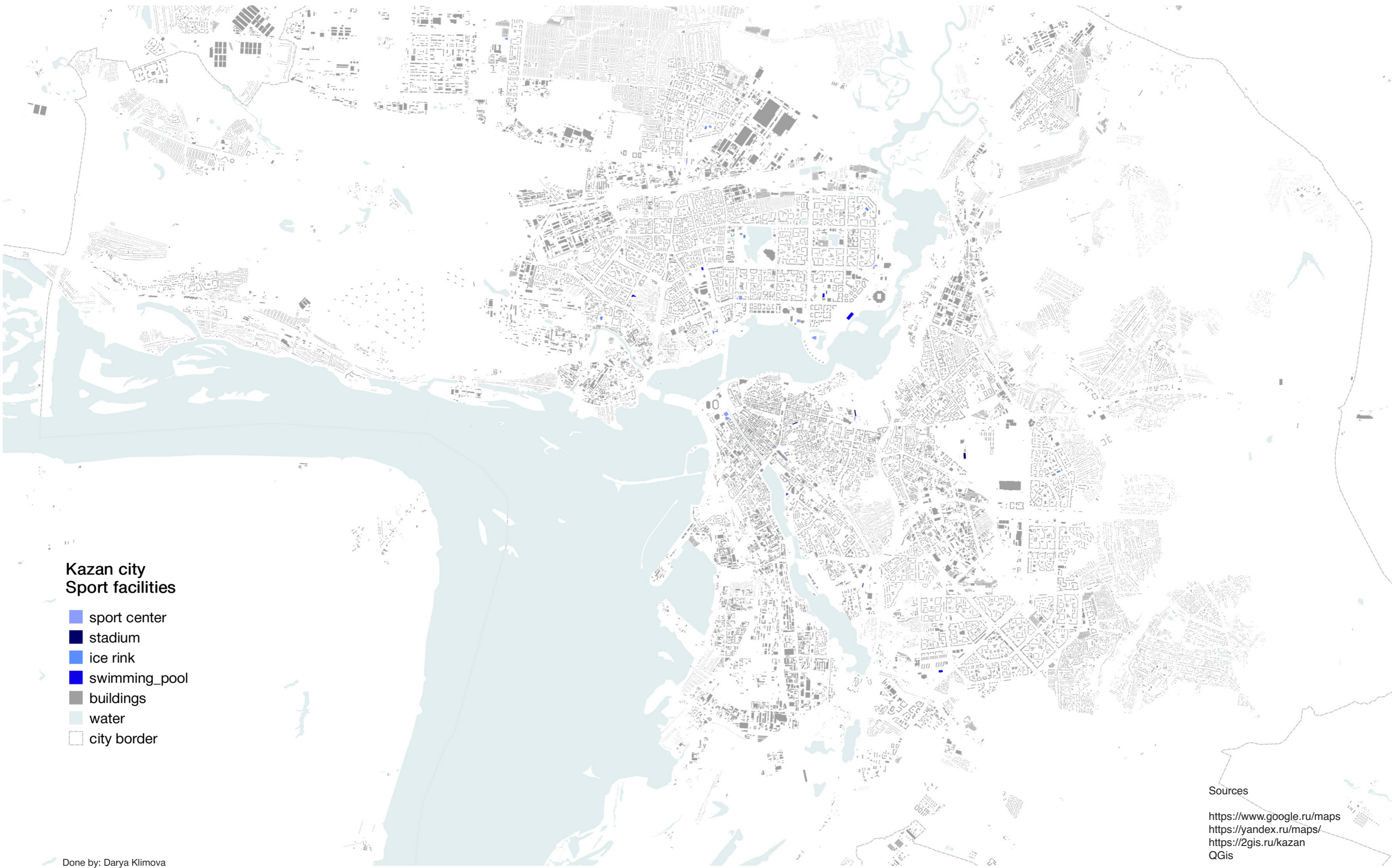
**The public sport center** is a public or private organization that unites athletes and sports fans; there are sports clubs of a general type and specialized (by sport). The total area is 100 square meters.

**The swimming pool** is a hydraulic structure designed for water sports such as swimming, diving, underwater sports, water polo, underwater rugby, synchronized swimming, etc.

**The ice rink** is a frozen body of water and/or hardened chemicals where people can ice skate or play winter sports. Besides recreational ice skating, some of its uses include ice hockey, bandy, rink bandy, ringette, broomball, speed skating, figure skating, ice stock sport and curling as well as exhibitions, contests and ice shows.

# Location of sport facilities in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Sport facilities

- sport center
- stadium
- ice rink
- swimming\_pool
- buildings
- water
- city border

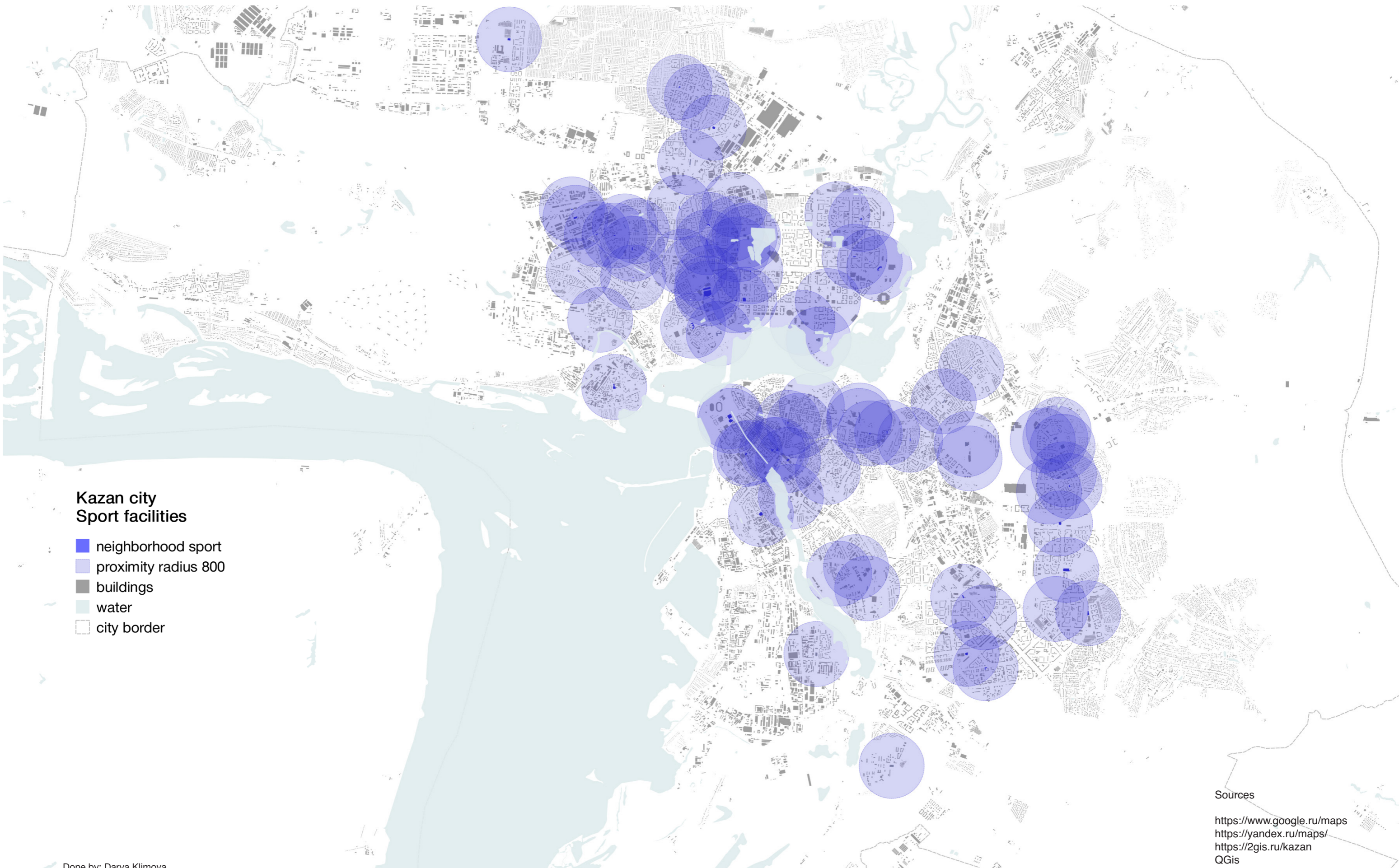
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QGis

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# Scheme of local sport centers proximity zones in Kazan on 2017 year

Graduate .....  
School .....  
of Urbanism ...



## Kazan city Sport facilities

- neighborhood sport
- proximity radius 800
- buildings
- water
- city border

## Sources

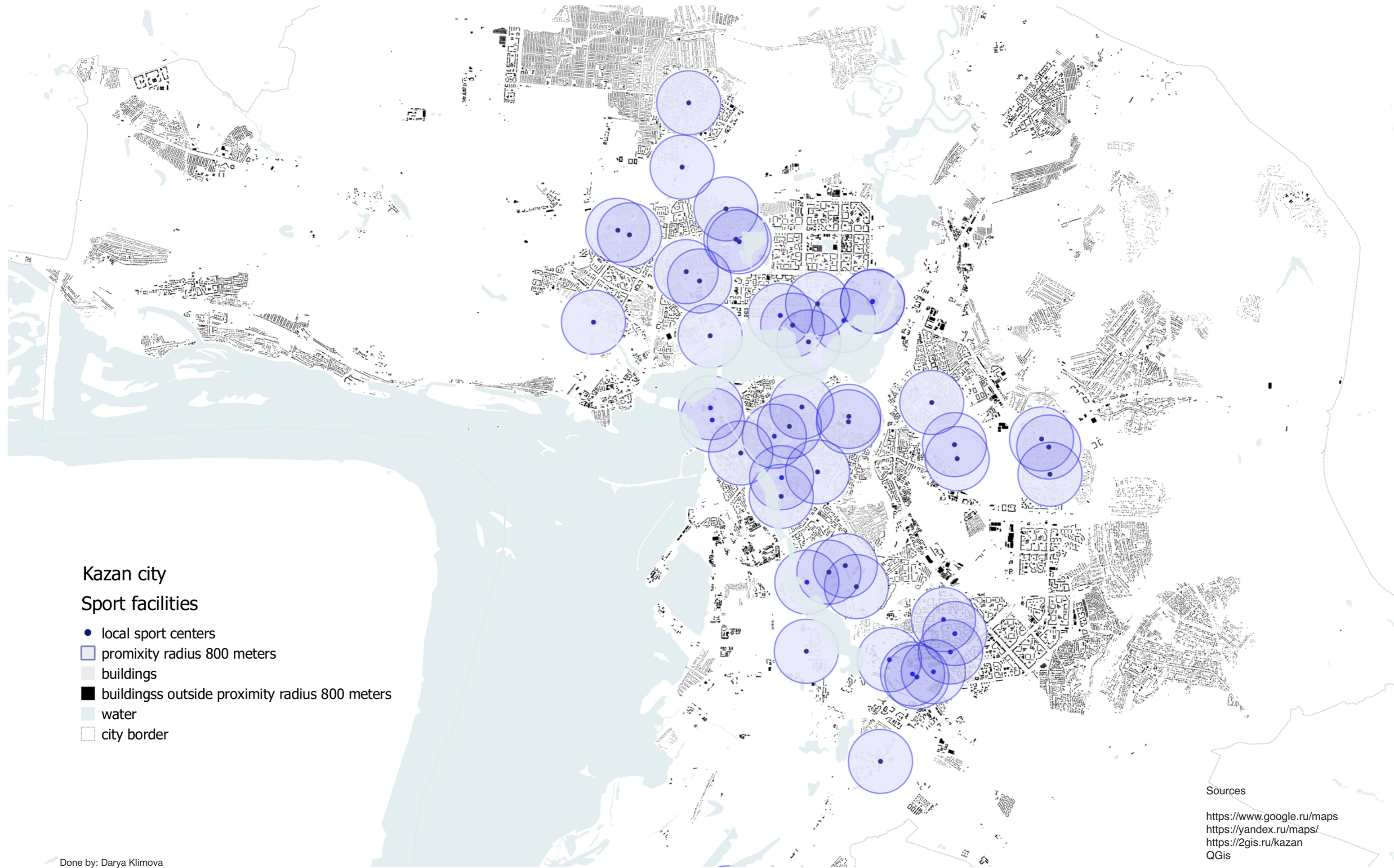
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<https://2gis.ru/kazan>  
QGis

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Curator of the project: Elena Mitrofanova



# Analysis of local sport centers in Kazan on 2017 year

Graduate .....  
School .....  
of Urbanism ...



Kazan city

Sport facilities

- local sport centers
- proximity radius 800 meters
- buildings
- buildings outside proximity radius 800 meters
- water
- city border

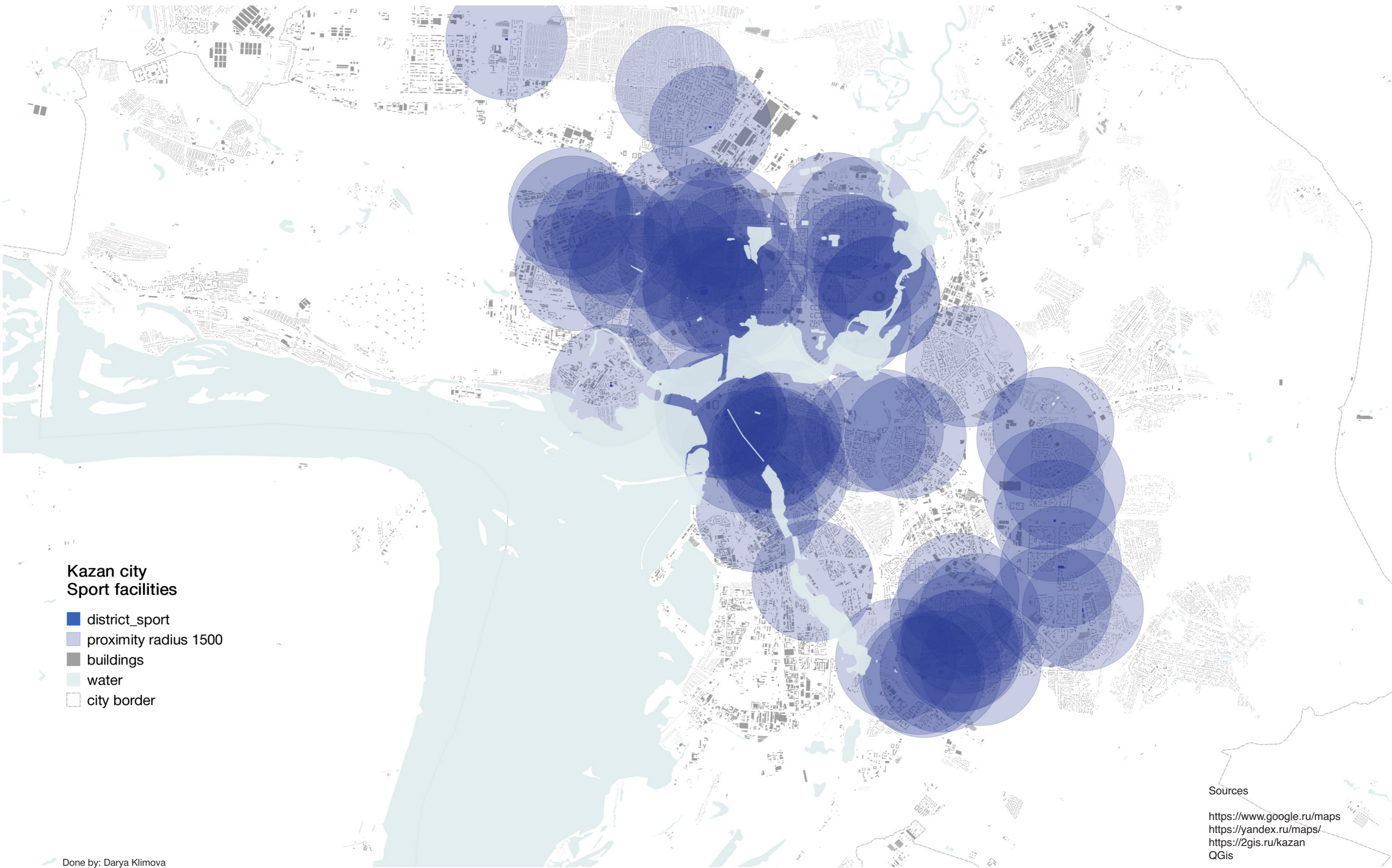
Sources

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Curator of the project: Elena Mitrofanova

# Scheme of district sport centers proximity zones in Kazan on 2017

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Sport facilities

- district\_sport
- proximity radius 1500
- buildings
- water
- city border

## Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

Done by: Darya Klimova  
Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

# Analysis of district sport centers in Kazan on 2017 year

Graduate .....  
School .....  
of Urbanism ...



Kazan city

Sport facilities

- local sport centers
- proximity radius 800 meters
- buildings
- buildings outside proximity radius 800 meters
- water
- city border

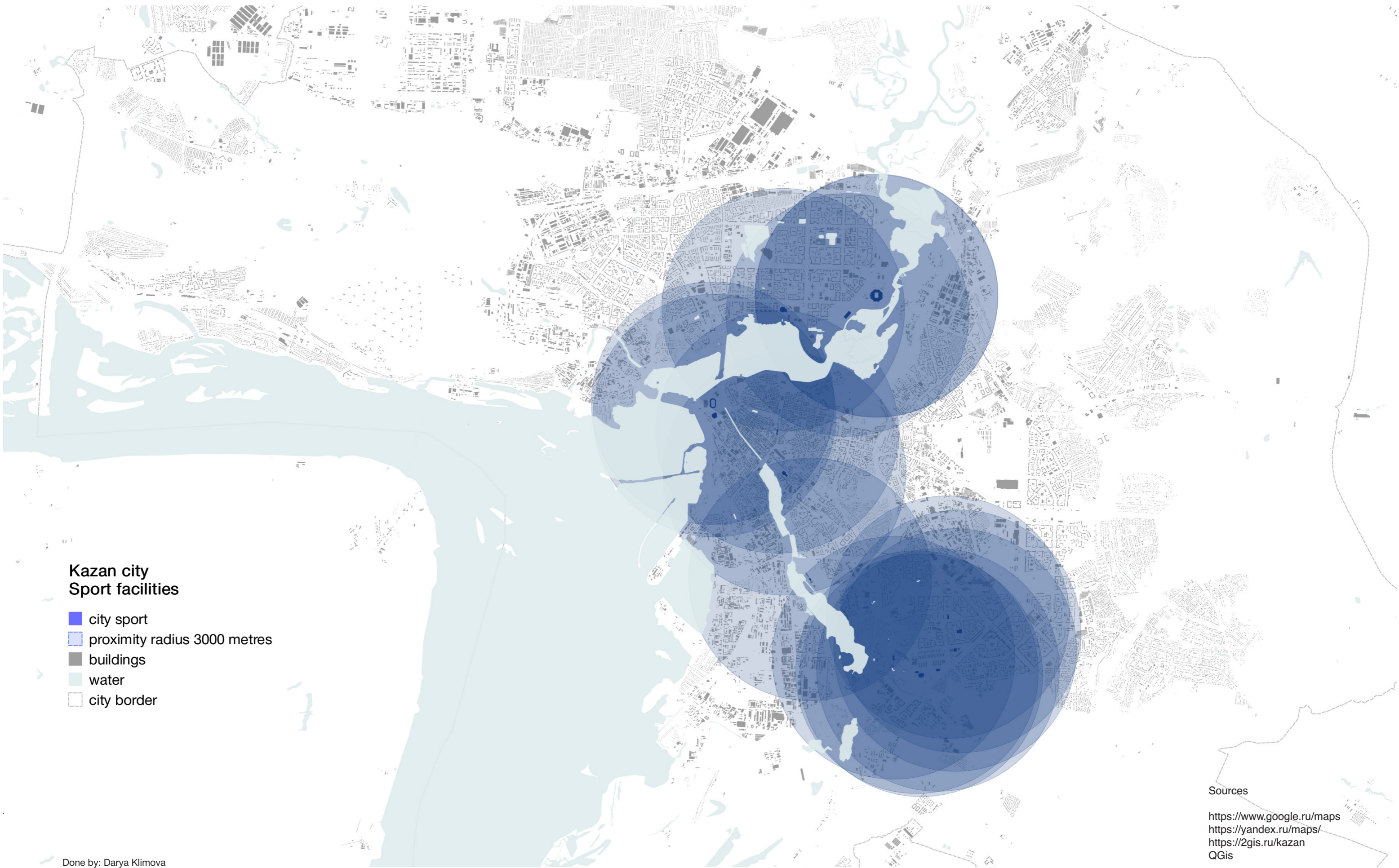
Sources

<https://www.google.ru/maps>  
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QGis

Done by: Darya Klimova  
Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

# Scheme of city sport centers proximity zones in Kazan on 2017

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Sport facilities

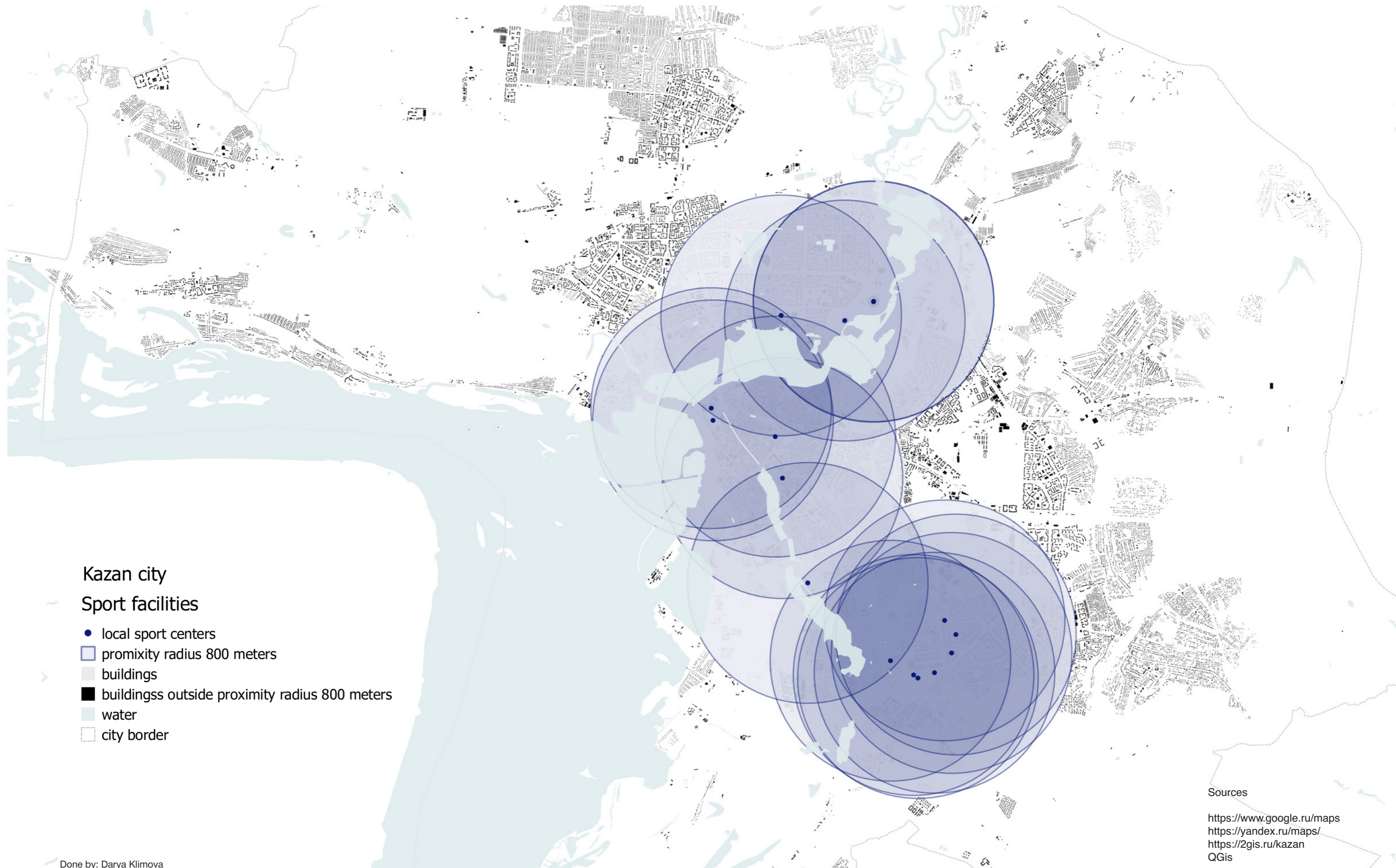
- city sport
- proximity radius 3000 metres
- buildings
- water
- city border

## Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

Done by: Darya Klimova  
Academic director: Vicente Guallart  
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# Analysis of city sport centers in Kazan on 2017 year



Kazan city

Sport facilities

- local sport centers
- ◻ proximity radius 800 meters
- buildings
- buildings outside proximity radius 800 meters
- water
- city border

Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

# Norms of cultural facilities

| Cultural facility | Availability   | Radius, m                    | Time, min           | Scale             | Capacity |  |
|-------------------|--|------------------------------|---------------------|-------------------|----------|--|
| 1. Library        | 1.1 Public   | 1/city <sup>(3)</sup>        | 3000 <sup>(7)</sup> | -                 | City     | 3 books/person in service area;<br>0.1 books/person in city dweller <sup>(7)</sup> |
|                   | 1.2 Children's   | 1/city <sup>(3)</sup>        | 3000 <sup>(7)</sup> | -                 | City     | -  |
|                   | 1.3 Youth's  | 1/city <sup>(3)</sup>        | 3000 <sup>(7)</sup> | -                 | City     | -  |
|                   | 1.4 For visually impaired                              | 1/city <sup>(3)</sup>        | 3000 <sup>(7)</sup> | -                 | City     | -  |
|                   | 1.5 Virtual reading room                               | 4/city <sup>(3)</sup>        | 3000 <sup>(7)</sup> | -                 | City     | -  |
|                   | 1.6 Public   | 1/25000people <sup>(3)</sup> | 3000 <sup>(7)</sup> | -                 | District | -  |
|                   | 1.7 Children's   | 1/15000people <sup>(3)</sup> | 3000 <sup>(7)</sup> | -                 | District | -  |
|                   | 1.8 Youth's  | 1/20000people <sup>(3)</sup> | 3000 <sup>(7)</sup> | -                 | District | -  |
|                   | 1.9 Point of access to full-text information resources | 3/city <sup>(3)</sup>        | 3000 <sup>(7)</sup> | -                 | District | -  |
| 2. Museum         | 2.1 Of regional history                                | 1/city <sup>(3)</sup>        | -                   | 60 <sup>(3)</sup> | City     | 2,5 m2/person <sup>(3)</sup>   |
|                   | 2.2 Artistic   | 1/city <sup>(3)</sup>        | -                   | 60 <sup>(3)</sup> | City     | 1,3 m2/person <sup>(3)</sup>   |
|                   | 2.3 Thematic   | 5/city <sup>(3)</sup>        | -                   | 60 <sup>(3)</sup> | City     | -  |
|                   | 2.4 Of regional history                                | 1 <sup>(3)</sup>             | -                   | -                 | District | -  |
|                   | 2.5 Thematic   | 1/10000people <sup>(3)</sup> | -                   | -                 | District | -  |
| 3. Theatre        | 3.1 Drama  | 1/city <sup>(3)</sup>        | -                   | 60 <sup>(3)</sup> | City     | 2,5 m2/person <sup>(3)</sup>   |
|                   | 3.2 Music  | 1/city <sup>(3)</sup>        | -                   | 60 <sup>(3)</sup> | City     | 1,3 m2/person <sup>(3)</sup>   |
|                   | 3.3 Opera and ballet                                   | 1/city <sup>(3)</sup>        | -                   | 60 <sup>(3)</sup> | City     | -  |
|                   | 3.4 Puppet show  | 1/city <sup>(3)</sup>        | -                   | 60 <sup>(3)</sup> | City     | -  |
|                   | 3.5 Young viewer                                       | 1/city <sup>(3)</sup>        | -                   | 60 <sup>(3)</sup> | City     | -  |
|                   | 3.6 Other  | 6/city <sup>(3)</sup>        | -                   | 60 <sup>(3)</sup> | City     | -  |

| Cultural facility   | Availability            | Radius, m              | Time, min          | Scale             | Capacity |  |
|---------------------|-------------------------|------------------------|--------------------|-------------------|----------|--|
| 4. Concert building | 4.1 Concert hall        | 2/city <sup>(3)</sup>  | -                  | 60 <sup>(3)</sup> | City     | -  |
|                     | 4.2 Philharmonic        | 1/city <sup>(3)</sup>  | -                  | 60 <sup>(3)</sup> | City     | -  |
|                     | 4.3 Concert hall        | 2/city <sup>(3)</sup>  | -                  | -                 | District | -  |
| 5. Circus           | 5.1 Stationary          | 1/city <sup>(3)</sup>  | -                  | 60 <sup>(3)</sup> | City     | -  |
| 6. Club type        | 6.1 National art center | 1/city <sup>(3)</sup>  | -                  | 60 <sup>(3)</sup> | City     | -  |
|                     | 6.2 Palace of culture   | 1/city <sup>(3)</sup>  | -                  | 60 <sup>(3)</sup> | City     | -  |
|                     | 6.3 Palace of culture   | -                      | 500 <sup>(1)</sup> | -                 | District | 50-60m <sup>2</sup> /person <sup>(2)</sup> |
| 13. Cinema          | 13.1 Cinema             | 15/city <sup>(3)</sup> | -                  | -                 | District | -  |

1 BR 42.13330.2011 Urban planning. Planning and development of urban and rural settlements. Updated version of BBrandR 2.07.01-89 \*

3 Order of the Ministry of Culture of the Russian Federation No. R-547 of April 29, 2016 On Methodological Recommendations to Subjects of the Russian Federation and Local Governments for the Development of the Network of Cultural Organizations and the Provision of Population with the Services of Cultural Organizations

7 Basic norms of network organization and resource provision of public libraries of municipal entities

**Library** is an information, cultural, educational organization or structural subdivision of the organization that has an organized fund of documents and provides them for temporary use to individuals and legal entities.(16)

Full-text information resources, access to which the library receives for free, include:

- funds of the National Electronic Library, which unites the funds of public libraries of Russia at the federal, regional, municipal level, libraries of scientific and educational institutions, as well as rights holders. The NEA includes: a catalog of all the editions kept in the collections of Russian libraries; a centralized, daily updated archive of digitized publications, both publicly accessible and limited by copyright; - The funds of the Presidential Library. (16)

**The museum** is a non-profit cultural institution created by the owner for storing, studying and publicly introducing museum items and museum collections included in the Museum Fund of the Russian Federation, as well as for achieving other goals defined by this Federal Law;(17 )

The object of the local history museum is the documentation and presentation of the historical, natural and cultural development of a certain locality or geographical region. The main funds of such a museum are the exhibits related to the history of the region, among which there may be, for example, archaeological finds; works of art or craft; documents and visual materials that record the historical events of the area; Houseware; Memorial items associated with famous countrymen; materials reflecting the economic and technical development of the region. On the implementation of methodological recommendations to the subjects of the Russian Federation and local self-government bodies on the development of a network of cultural organizations and the provision of services to the services of cultural organizations (17)

**The theater** is an organization that carries out theatrical activities in order to satisfy and form the spiritual needs of the audience in theatrical art, as well as the development of theatrical art, which provides for the expansion of the accessibility of theatrical art to various groups of the population. For the network unit are accepted theaters (theater-studios), which are legal entities, or branches of theaters. Considered as a single network unit theater, which operates several theatrical companies (working in different languages or having an independent repertoire), united by a common administration and representing a unified

balance. If there are theaters of different genre orientation working on one theatrical site, they are independent legal entities, then each of them is counted as an independent network unit.(18)

The minimum list of subspecies of theaters is drama theaters, musical theaters, young spectator theaters, puppet theaters and theaters by kinds of arts. The musical theater, which includes such genre scenes as opera, ballet, operetta, musical, is recommended to create if there is an educational institution in the territory of the constituent entity of the Russian Federation that produces relevant performers (conservatory or other specialized university or college). Other theaters by kinds of arts (pantomime, miniatures, dance, songs, etc.) or by target group (youth theater, children's theater) are created in order to ensure the accessibility of the population to various genres of theatrical art.(18)

**A concert organization** is an organization that implements the creation, display (public performance), and (or) the organization of a concert program. Concert organizations include:

**Philharmonic** - the main kind of concert organization in the field of academic music, which has at its disposal one or several philharmonic concert halls and (or) creative groups, and organizing tours of other creative groups of philharmonic orientation (orchestras, choirs, ensembles);  
Philharmonic Concert Hall - a special venue that meets the acoustic standards for the performance of academic music, or a kind of concert organization that performs the functions of forming and satisfying social needs in academic musical art;  
independent concert groups that are legal entities. Concert groups include symphony orchestras, orchestras of folk, wind instruments, choral chapels, folk choirs, choreographic and folklore ensembles, etc. (19)

**Circus** is a generalized name of all kinds of entertainment numbers, attractions, programs, performances, solved by means of circus expressiveness, and also as a special spectacular structure with a dome-shaped cover and an arena designed to create and (or) display circus works.(20)



## **The republican (regional, district) House (Center) of national art**

- palace of culture, which ensures coordination of the activities of cultural institutions of the club type operating on the territory of the constituent entities of the Russian Federation, on the development.

Under the establishment of the club type is understood an organization whose main activity is the creation of conditions for studying amateur artistic creativity, providing the population with services of social, cultural, educational and recreational nature.

16 The federal law about librarianship

17 About the Museum Fund of the Russian Federation and museums in the Russian Federation

18 On the approval of the Concept of the long-term development of theater in the Russian Federation until 2020

of the Russian Federation and Local Governments for the Development of the Network of Cultural Organizations and the Provision of Population with the Services of Cultural Organizations

19 Order of the Government of the Russian Federation from 24.11.2015 N 2395-r «On the Concept of Development of

Concert Activities in the Field of Academic Music in the Russian Federation»

20 Order of the Government of the Russian Federation of 02.04.2012 No. 434-r «On the concept of the development of

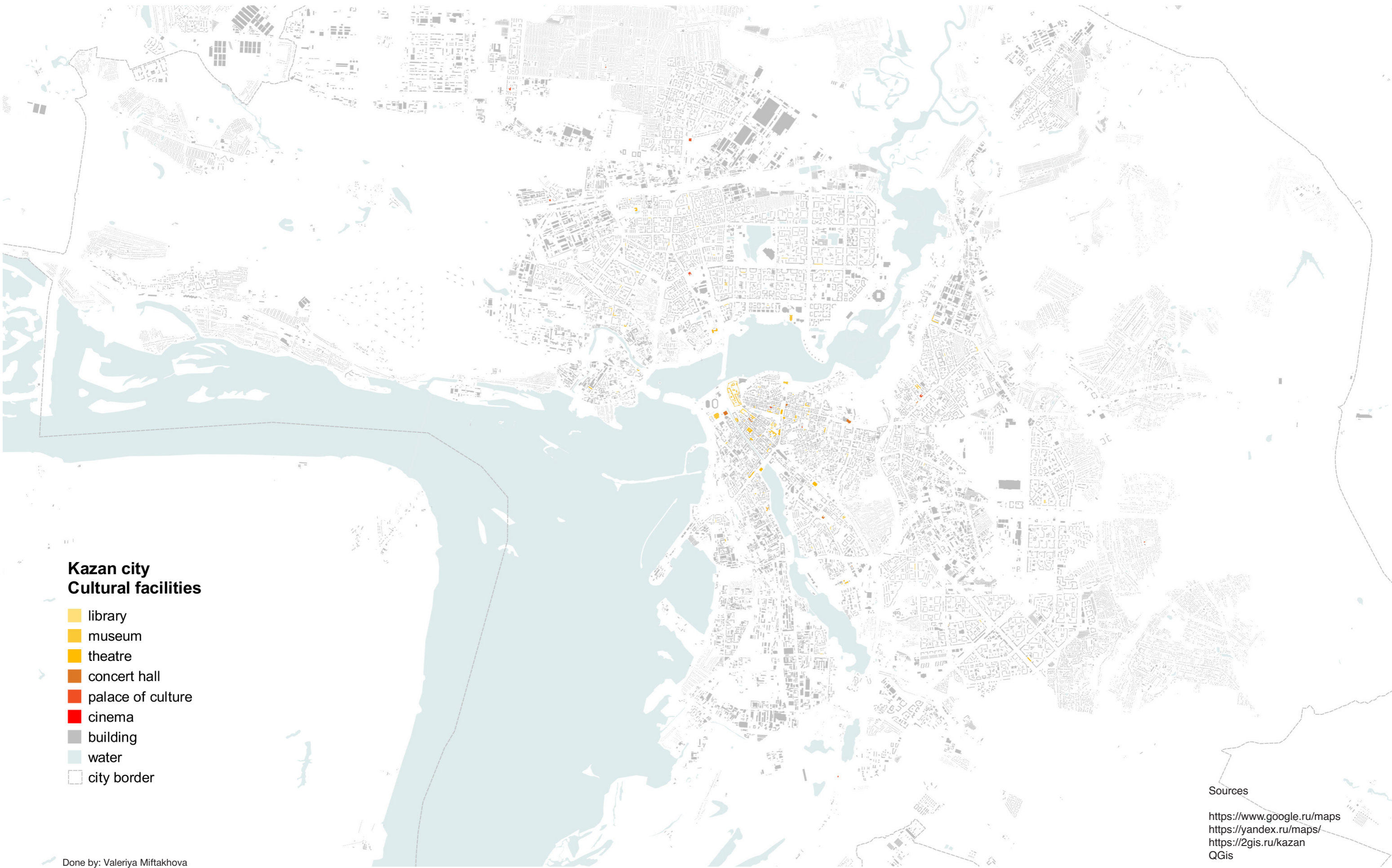
circus in the Russian Federation for the period until 2020»

21 Order of the Ministry of Culture of the Russian Federation No. R-547 of April 29, 2016 On Methodological

Recommendations to Subjects

# Location of cultural facilities in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Cultural facilities

- library
- museum
- theatre
- concert hall
- palace of culture
- cinema
- building
- water
- city border

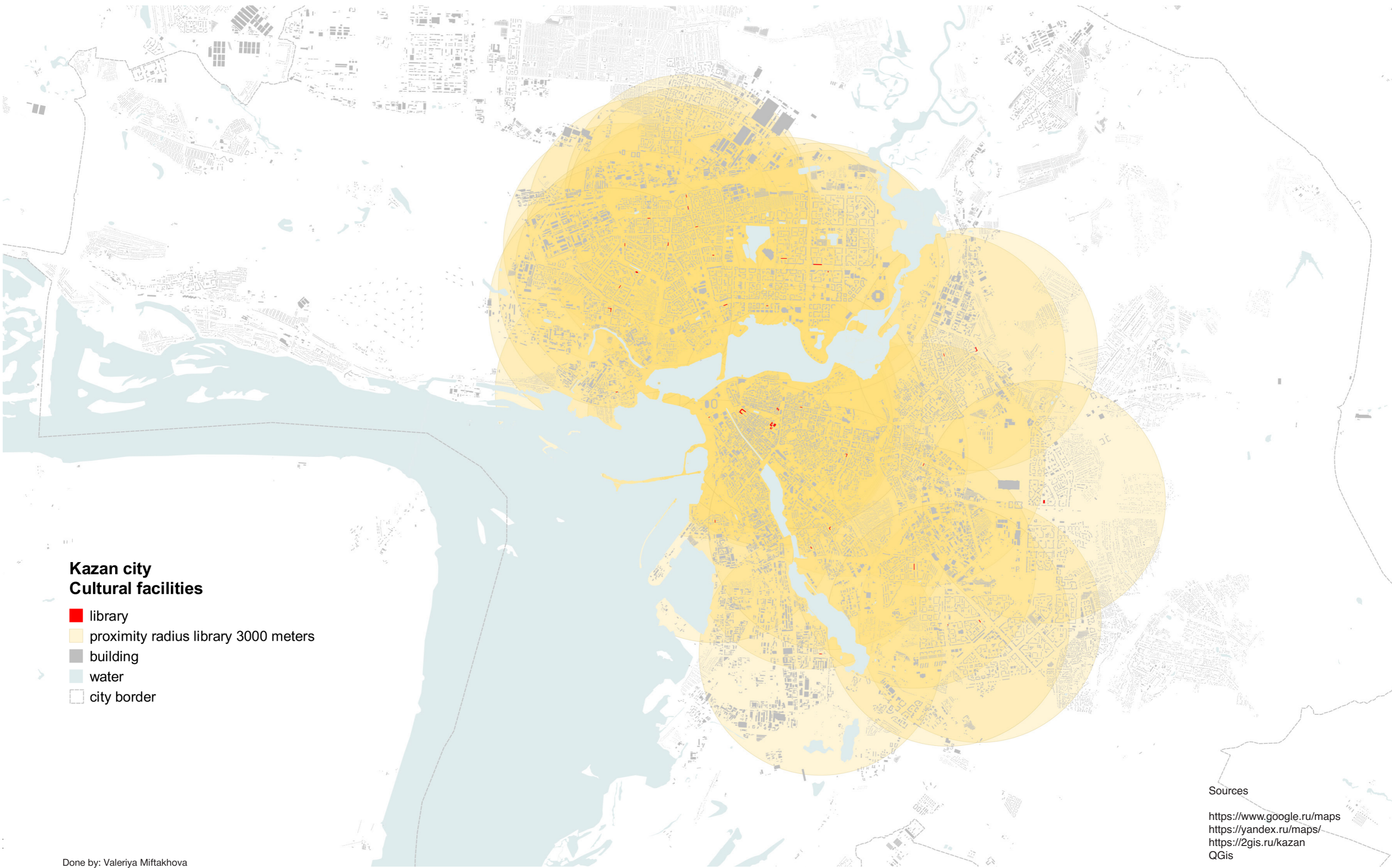
### Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

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# Scheme of libraries proximity zones in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Cultural facilities

- library
- proximity radius library 3000 meters
- building
- water
- city border

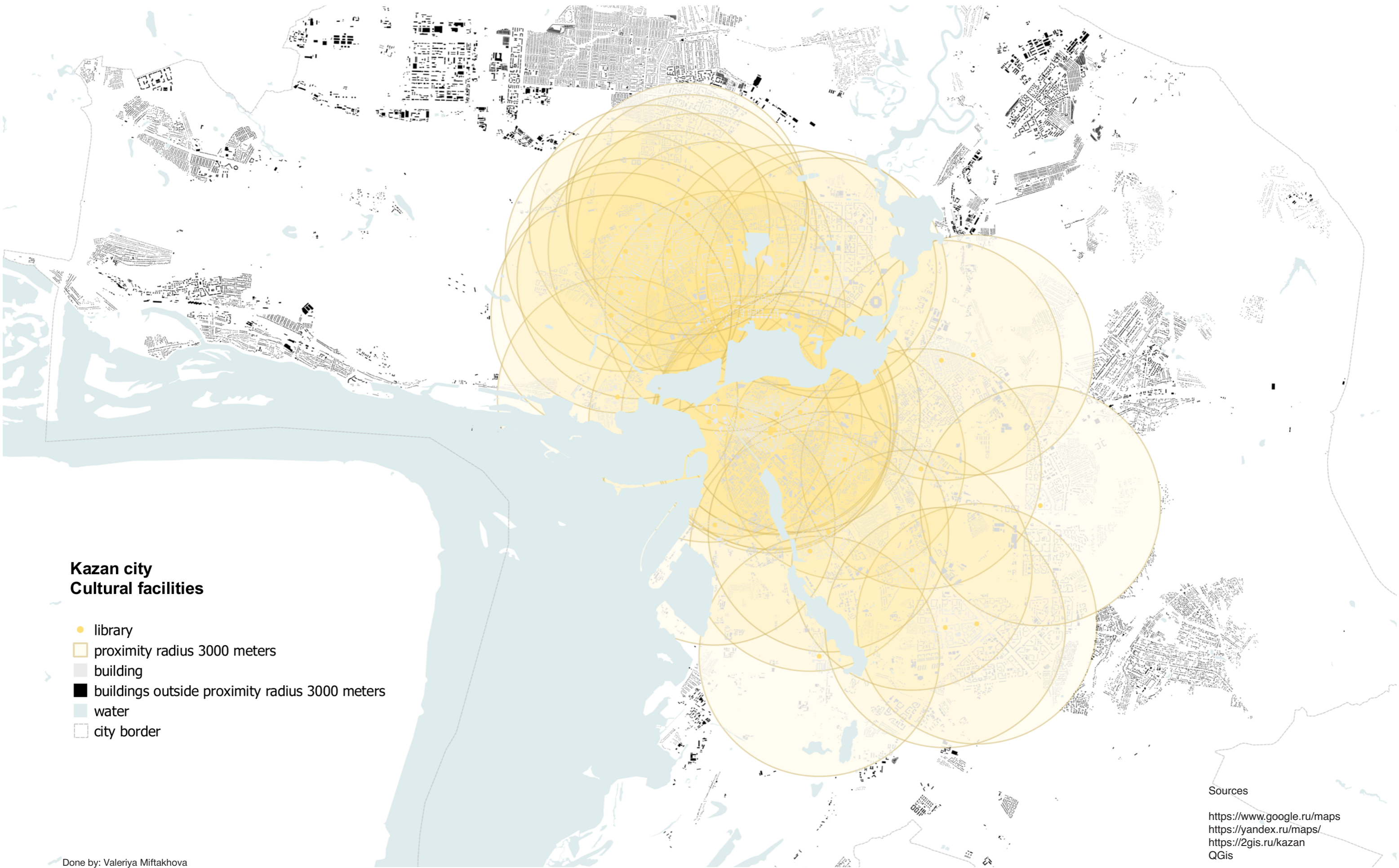
## Sources

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QGis

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# Analysis of libraries in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Cultural facilities

- library
- proximity radius 3000 meters
- building
- buildings outside proximity radius 3000 meters
- water
- city border

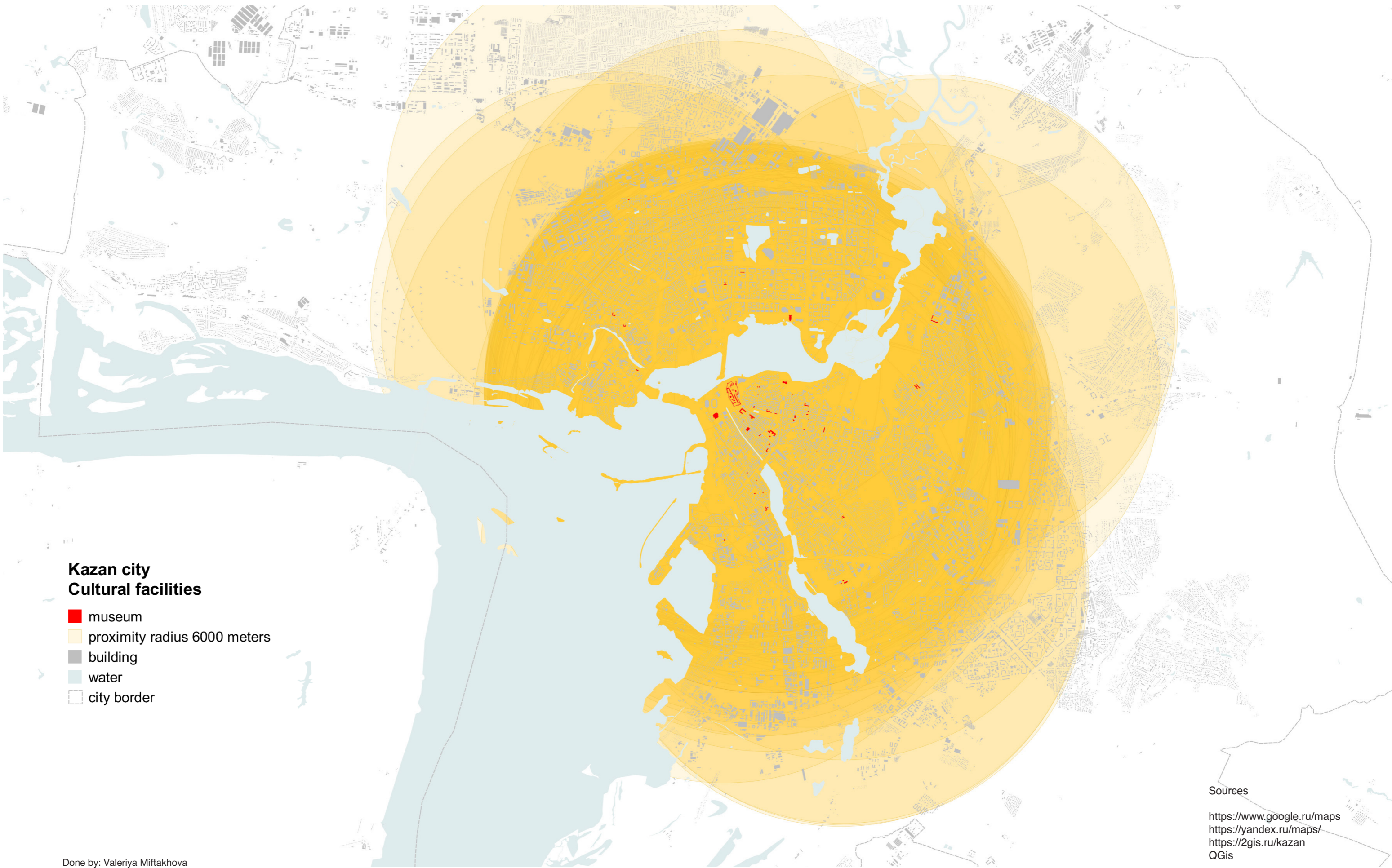
## Sources

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<https://yandex.ru/maps/>  
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QGis

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# Scheme of museums proximity zones in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Cultural facilities

- museum
- proximity radius 6000 meters
- building
- water
- city border

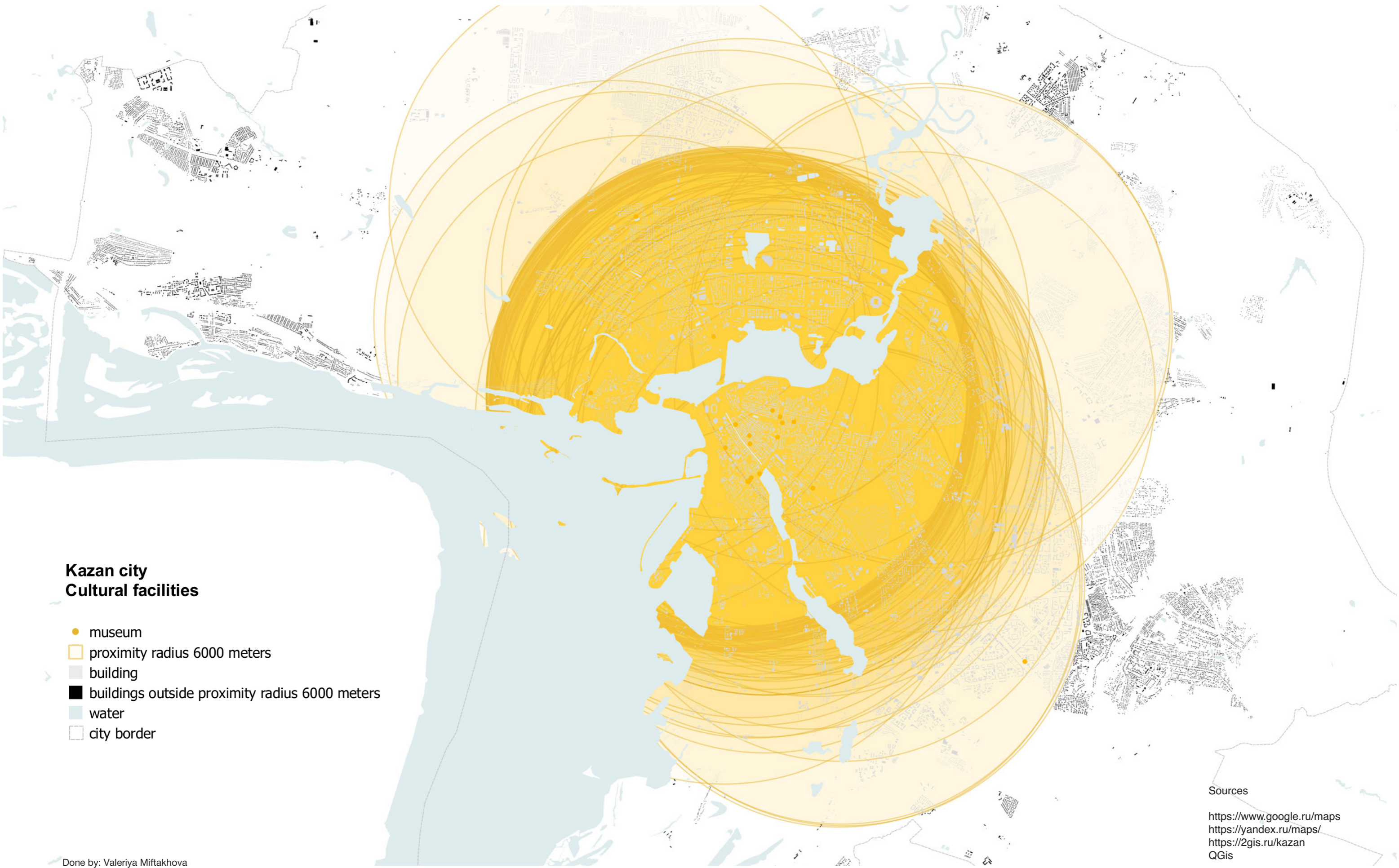
### Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
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QGis

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# Analysis of museums in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Cultural facilities

- museum
- proximity radius 6000 meters
- building
- buildings outside proximity radius 6000 meters
- water
- city border

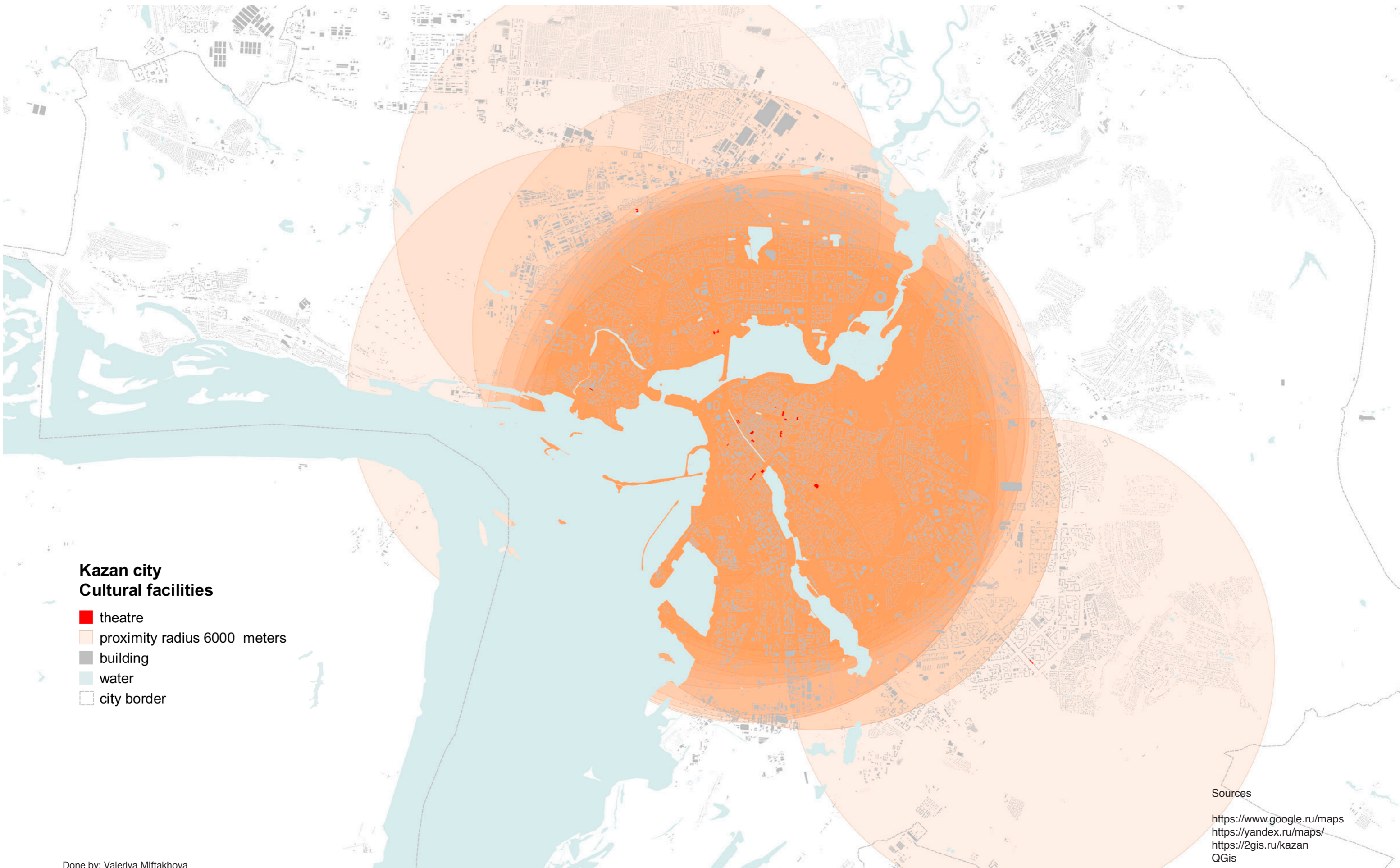
## Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

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# Scheme of theaters proximity zones in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



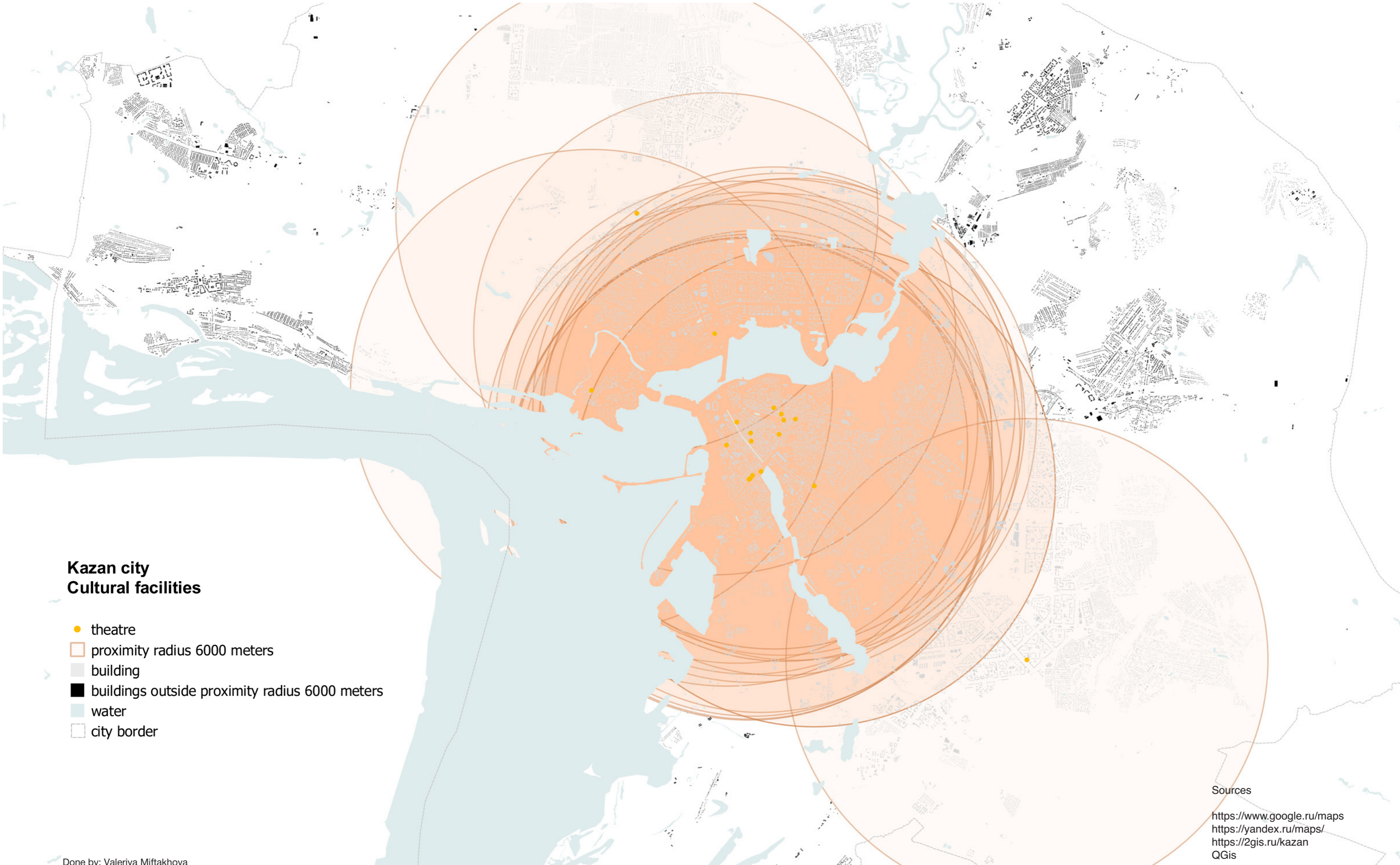
#### Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

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# Analysis of theaters in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Cultural facilities

- theatre
- proximity radius 6000 meters
- building
- buildings outside proximity radius 6000 meters
- water
- city border

## Sources

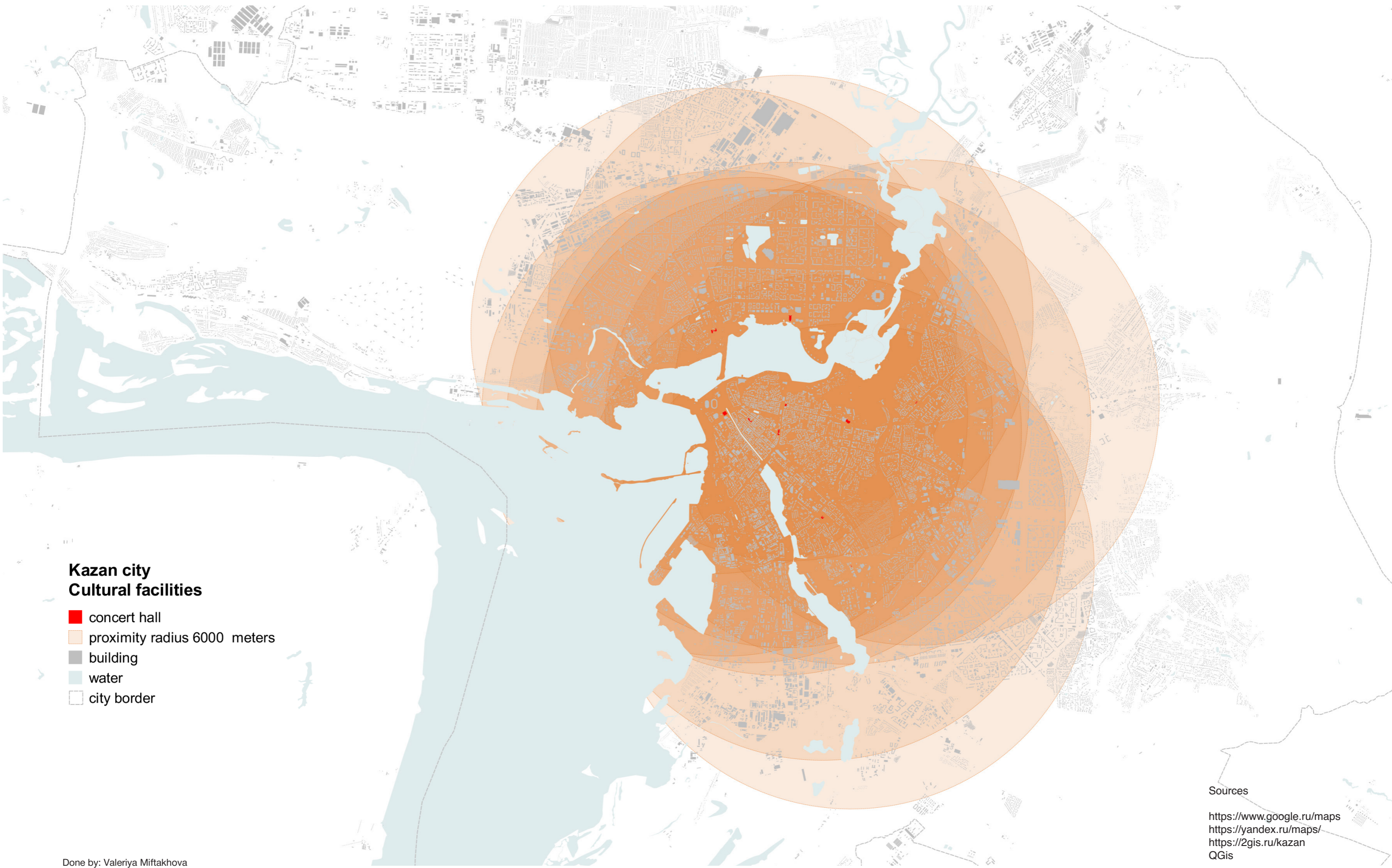
<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
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# Scheme of concert halls proximity zones in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Cultural facilities

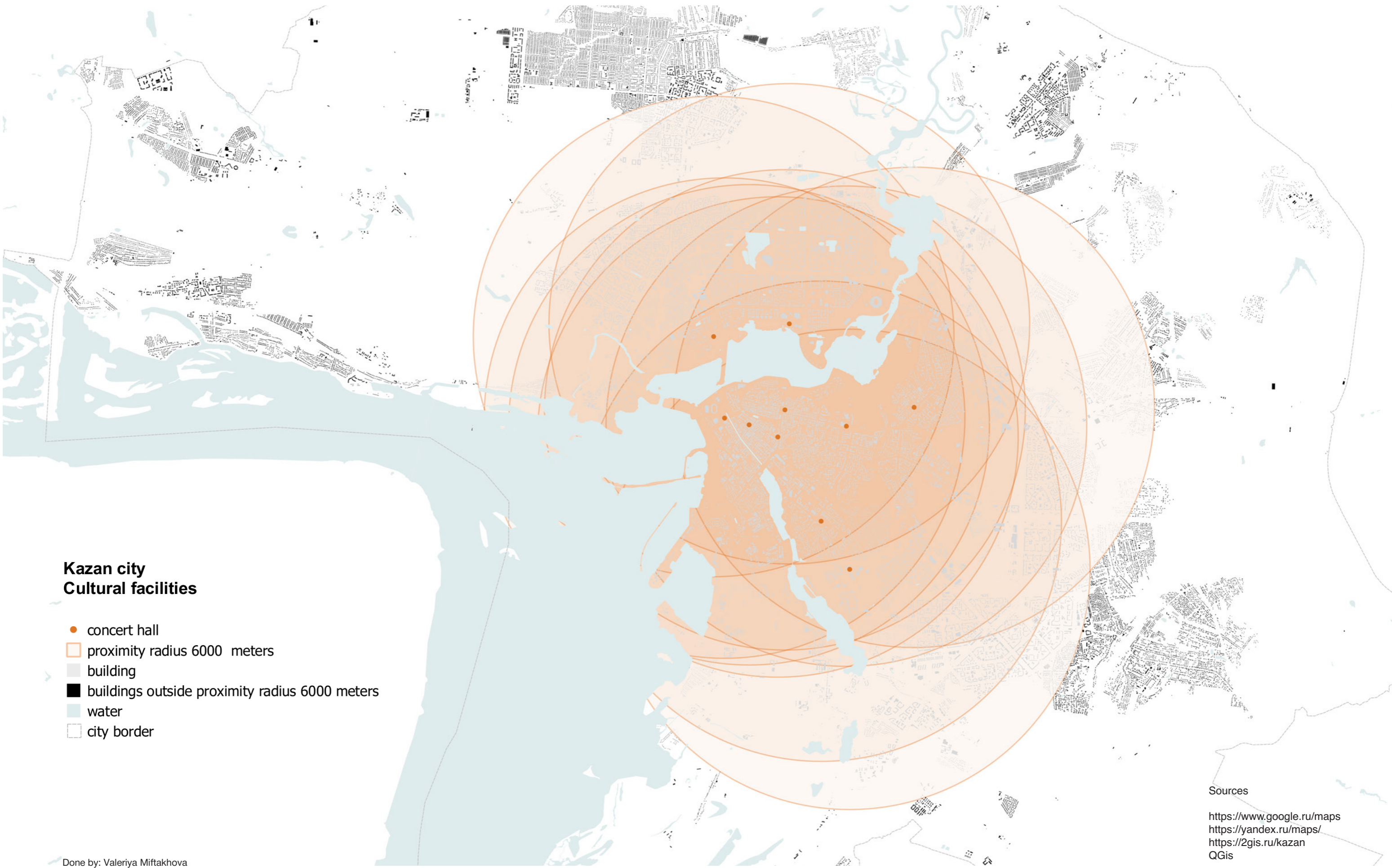
- concert hall
- proximity radius 6000 meters
- building
- water
- city border

## Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

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# Analysis of concert halls in Kazan on 2017 year



## Kazan city Cultural facilities

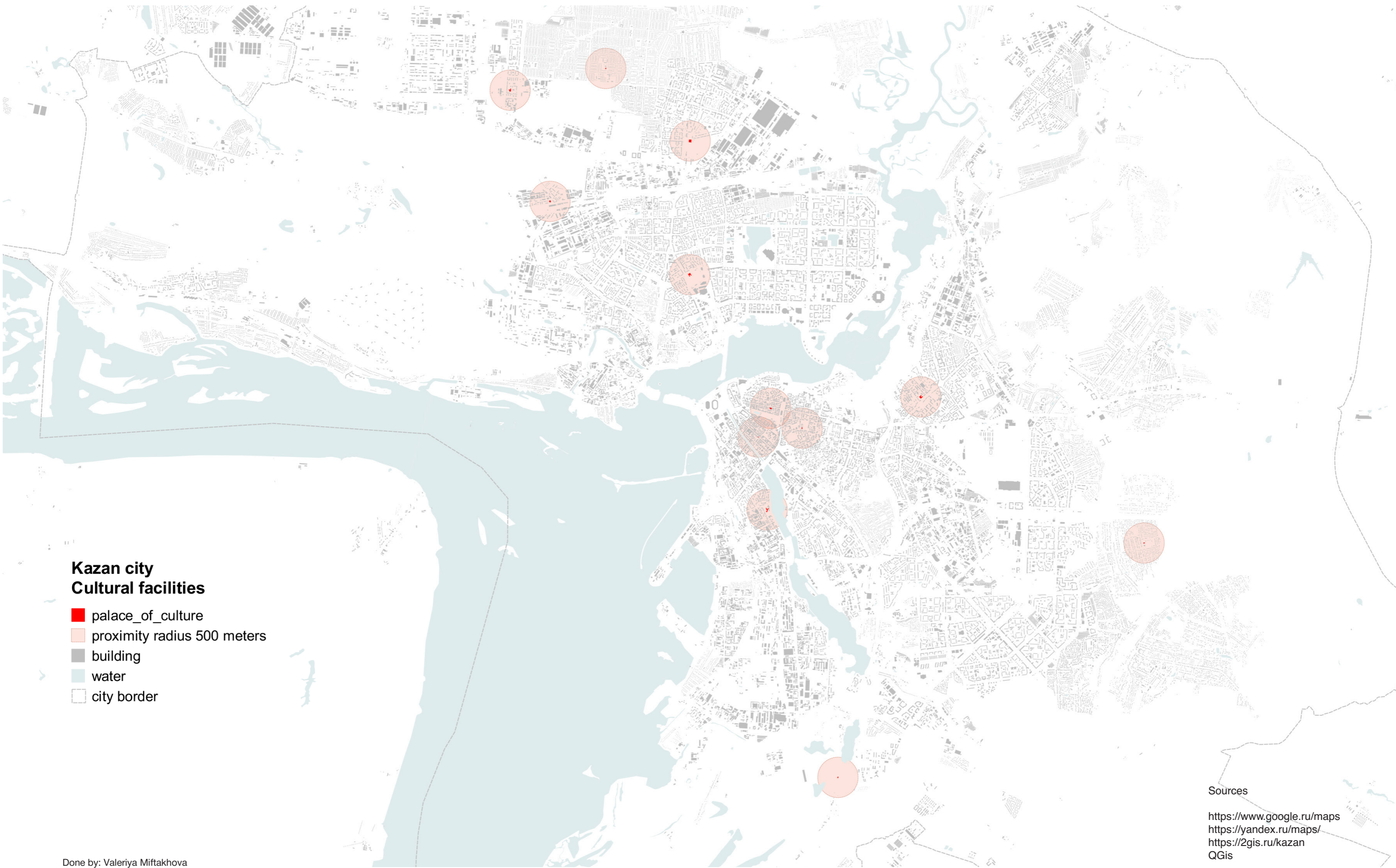
- concert hall
- proximity radius 6000 meters
- building
- buildings outside proximity radius 6000 meters
- water
- city border

## Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

# Scheme of palaces of culture proximity zones in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Cultural facilities

- palace\_of\_culture
- proximity radius 500 meters
- building
- water
- city border

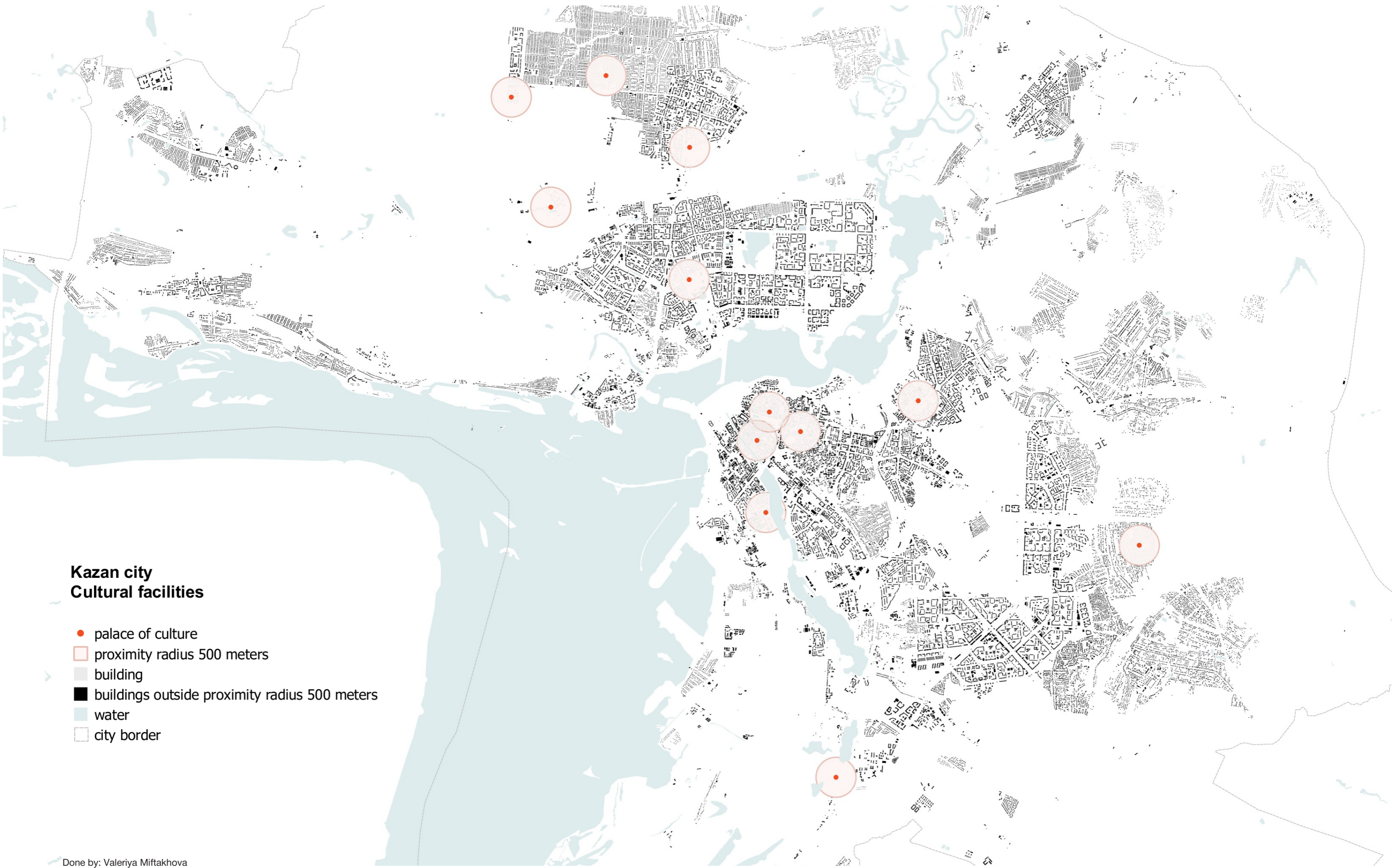
## Sources

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<https://yandex.ru/maps/>  
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QGis

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# Analysis of palace of culture in Kazan on 2017 year

Graduate .....  
School .....  
of Urbanism ...



## Kazan city Cultural facilities

- palace of culture
- proximity radius 500 meters
- building
- buildings outside proximity radius 500 meters
- water
- city border

Done by: Valeriya Miftakhova  
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| Administrative facility | Availability                | Radius, m                      | Time, min           | Scale              | Capacity |   |
|-------------------------|-----------------------------|--------------------------------|---------------------|--------------------|----------|---|
| 1. Fire station         | 1.1 Of subject of the RF    | -                              | -                   | 10 <sup>(12)</sup> | City     | - |
|                         | 1.2 International           | -                              | 3000 <sup>(1)</sup> | -                  | City     | - |
| 2. Law court            | 2.1 Regional court          | 1/60 000 people <sup>(2)</sup> | -                   | -                  | City     | - |
|                         | 2.2 City court              | 1/30 000 people <sup>(2)</sup> | -                   | -                  | City     | - |
|                         | 2.3 legal consultation      | 1/10 000 people <sup>(2)</sup> | -                   | -                  | District | - |
|                         | 2.4 Notarial office         | 1/10 000 people <sup>(2)</sup> | -                   | -                  | -        | - |
| 3. Police station       |                             | 1/5000 people <sup>(12)</sup>  | -                   | -                  | District | - |
| 4. MFC**                |                             | 1/district                     | -                   | -                  | District | - |
| 5. Register office      |                             | -                              | -                   | -                  | District | - |
| 6. Tax service          |                             | -                              | -                   | -                  | District | - |
| 7. Post office          |                             | -                              | 500 <sup>(1)</sup>  | -                  | -        | - |
| 8. Migration office     |                             | -                              | -                   | -                  | City     | - |
| 9. City government      | 9.1 Mayor's office          | 1/city                         | -                   | -                  | City     | - |
|                         | 9.2 District administration | 1/district                     | -                   | -                  | District | - |

\*\* Multifunctional center

- BR 42.13330.2011 Urban planning. Planning and development of urban and rural settlements. Updated version of BBrandR 2.07.01-89 \*
- Republican regulation of the urban-planning Ministry of Construction, Architecture and Housing and communal services of the Republic of Tatarstan, 2012
- Methodical recommendations of the Ministry of Emergency Measures to local governments on the implementation of Federal Law No. 131-FZ of October 6, 2003 «On General Principles of Local Self-Government in the Russian Federation» in the field of civil defense, protection of the population and territories against emergencies, provision of fire safety and human security water bodies.

**Fire station** is the object of fire protection, in which the premises for storing fire equipment and its technical maintenance are located, service rooms for personnel accommodation, a room for receiving fire announcements, technical and auxiliary premises necessary for performing tasks assigned to fire protection.

**Law court** is state service responsible for resolving civil disputes and considering criminal cases.

**Police station** is a building which serves to accommodate police officers and other members of staff.

**The multifunctional center** for the provision of state and municipal services (multifunctional center, **MFC**) is a Russian organization, regardless of the organizational and legal form that meets the established requirements and is authorized to organize the provision of state and municipal services.

**Register office** is government office in Russia that perform state registration of civil status acts, which include: birth, conclusion and divorce, adoption, establishment paternity, name change and death.

**The Federal Tax Service of the Russian Federation** (the Federal Tax Service of Russia) is a federal executive service that exercises control over and supervises compliance with the legislation of the Russian Federation on taxes and fees.

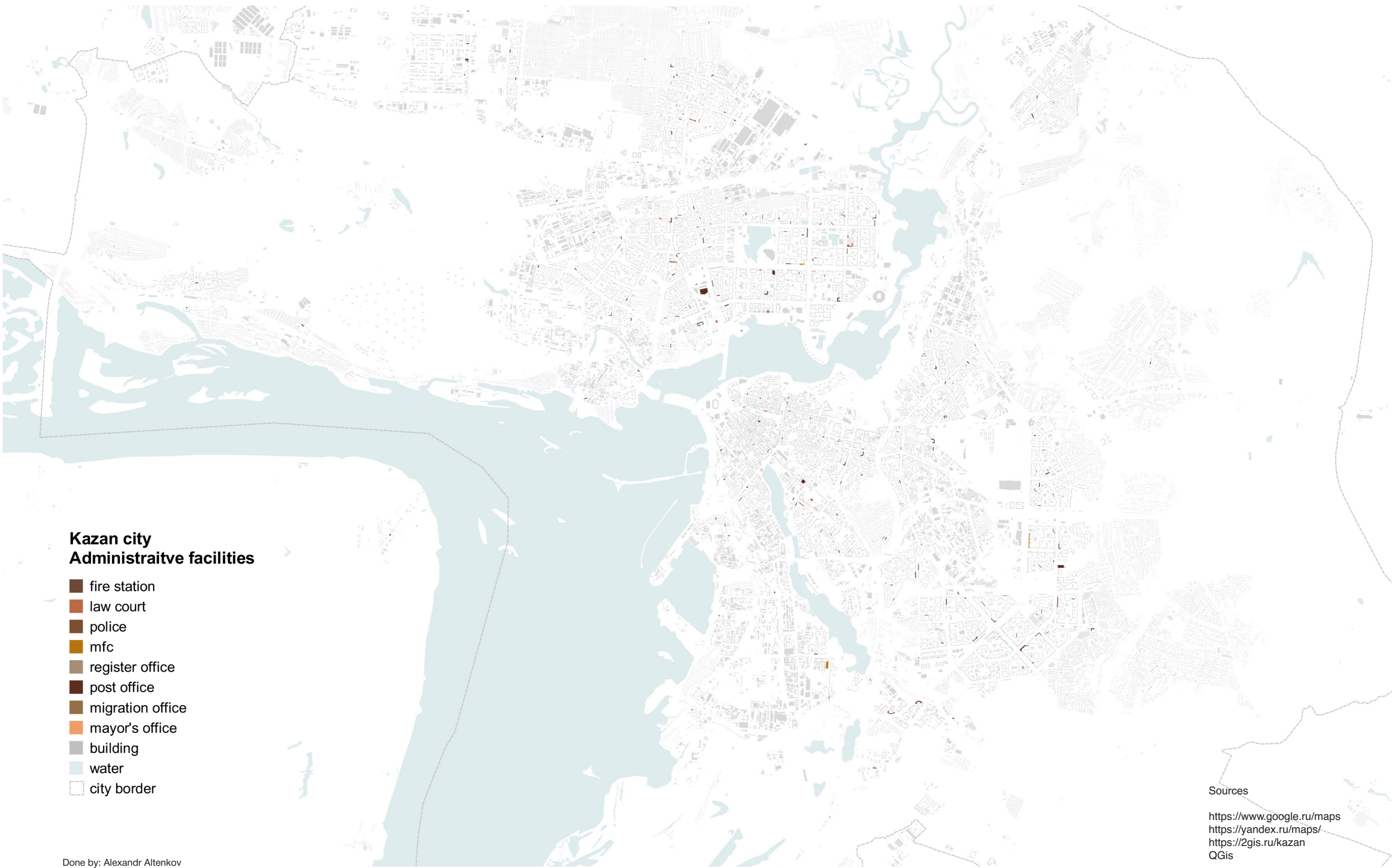
**A post office** is a customer service facility forming part of a national postal system.

**The Federal Migration Service (FMS of Russia)** is a federal executive service that implemented state policy in the sphere of migration and exercised law enforcement functions, control, supervision and provision of public services in the field of migration.

**Mayor's office** is the local city executive authority; the building where this organ is placed

# Location of administrative facilities in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Administrative facilities

- fire station
- law court
- police
- mfc
- register office
- post office
- migration office
- mayor's office
- building
- water
- city border

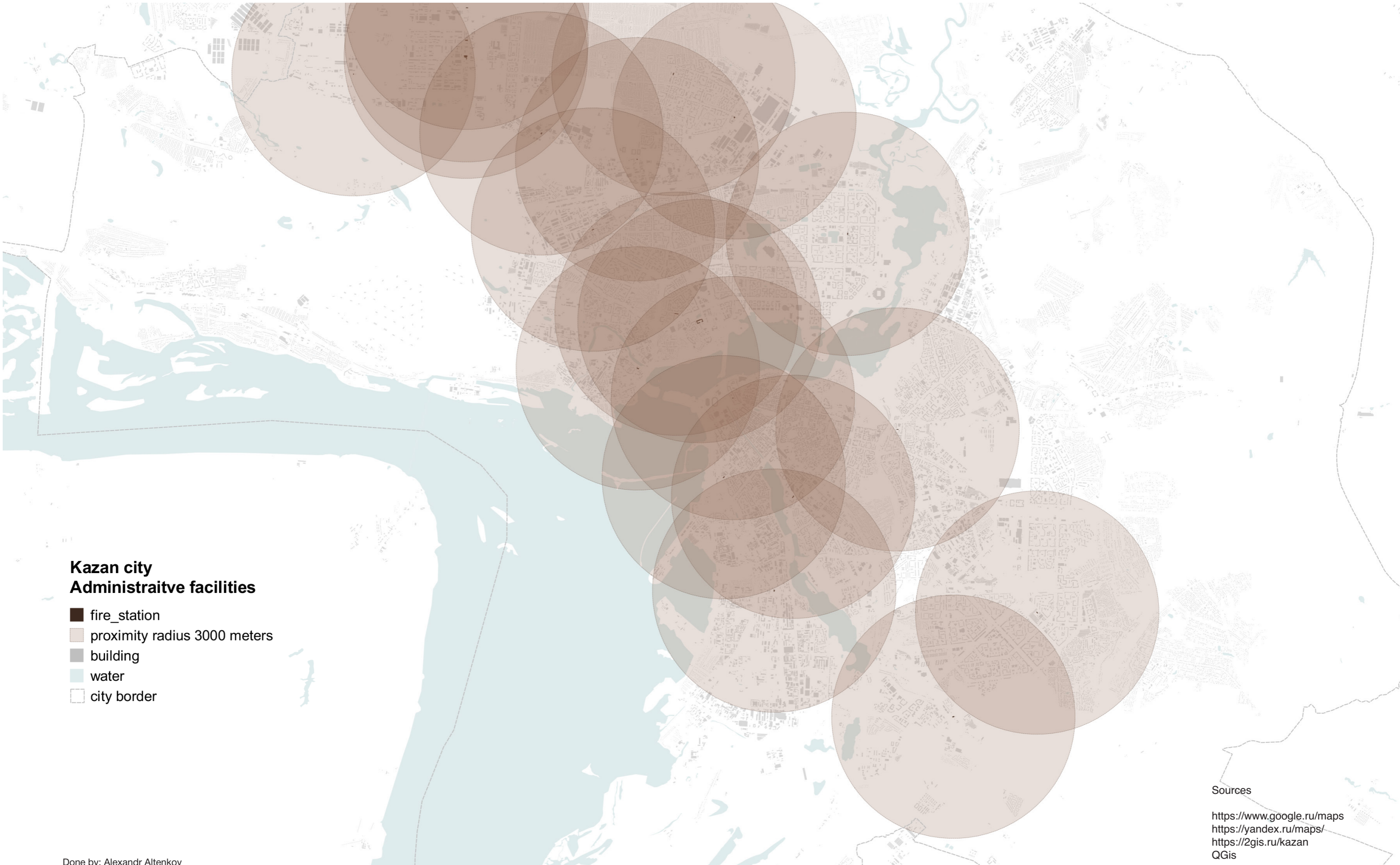
### Sources

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<https://2gis.ru/kazan>  
QGis

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# Scheme of fire station proximity zones in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Administrative facilities

- fire\_station
- proximity radius 3000 meters
- building
- water
- city border

## Sources

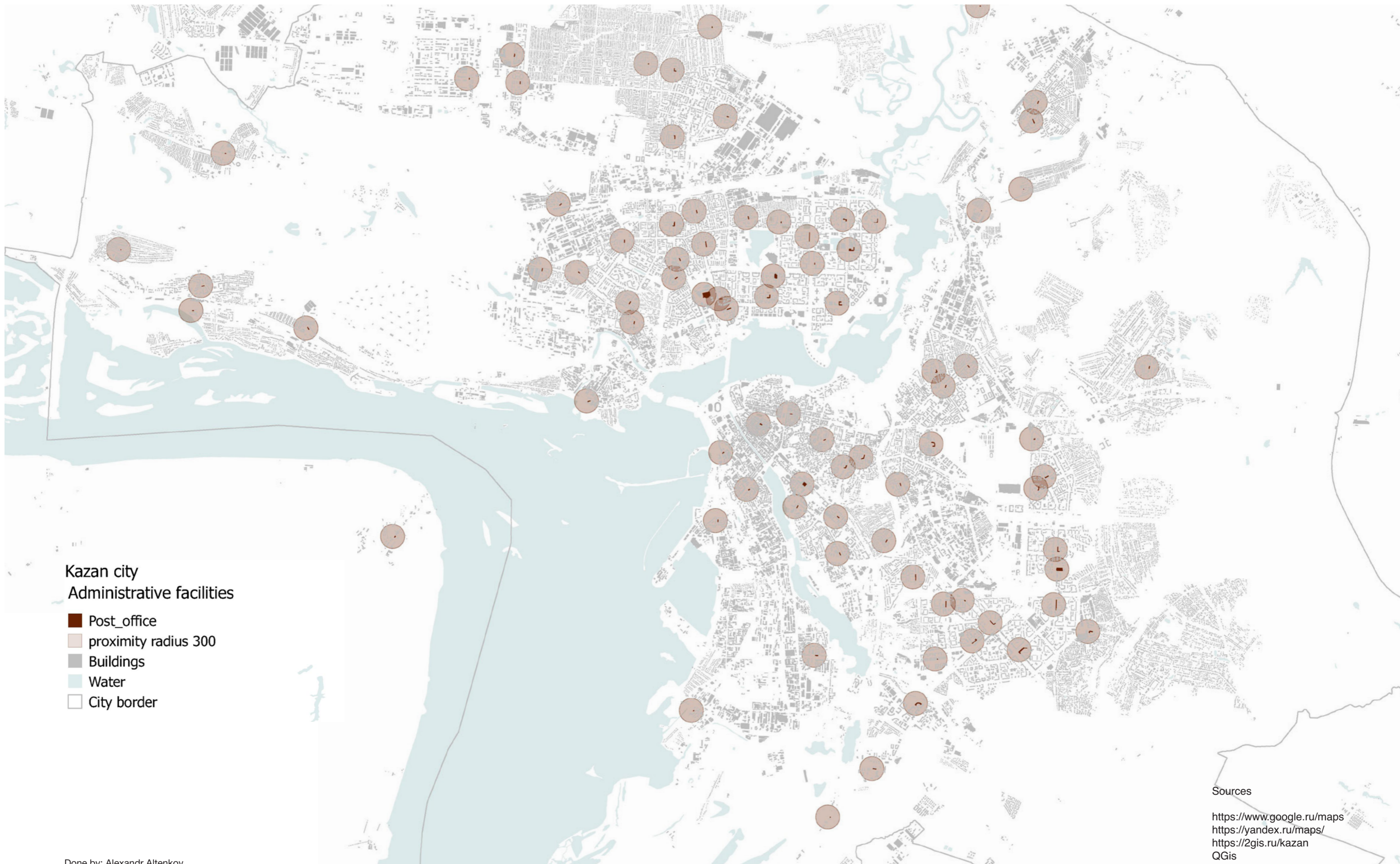
<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

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# Scheme of post offices proximity zones in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



Kazan city  
Administrative facilities

- Post\_office
- proximity radius 300
- Buildings
- Water
- City border

Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

Done by: Alexandr Altenkov  
Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

| Market facility       |   | Availability | Radius, m              | Time, min | Scale        | Capacity |
|-----------------------|---|--------------|------------------------|-----------|--------------|----------|
| 1. Shopping center    | ■ | -            | 500-800 <sup>(2)</sup> | -         | Republic     | -        |
| 2. Hypermarket        | ■ | -            | 500-800 <sup>(2)</sup> | -         | City         | -        |
| 3. Supermarket        | ■ | -            | 500-800 <sup>(2)</sup> | -         | District     | -        |
| 4. Neighborhood store | ■ | -            | 500-800 <sup>(2)</sup> | -         | Neighborhood | -        |
| 5. Non-Food market    | ■ | -            | 500-800 <sup>(2)</sup> | -         | Neighborhood | -        |
| 6. Market square      | ■ | -            | 500-800 <sup>(2)</sup> | -         | District     | -        |

1. BR 42.13330.2011 Urban planning. Planning and development of urban and rural settlements. Updated version of BBrandR 2.07.01-89 \*
2. Republican regulation of the urban-planning Ministry of Construction, Architecture and Housing and communal services of the Republic of Tatarstan, 2012

**Shopping center** is a set of trade companies and / or companies providing services that sell a universal assortment of goods and services located on a certain territory, planned, constructed and managed as a single entity and providing parking for vehicles within the boundaries of their territory.

**Market square** is an organization that creates conditions for trading on the basis of sales contracts.

**Supermarket** is a providing a universal range of food and narrow range of non-food products, including under their own brands.

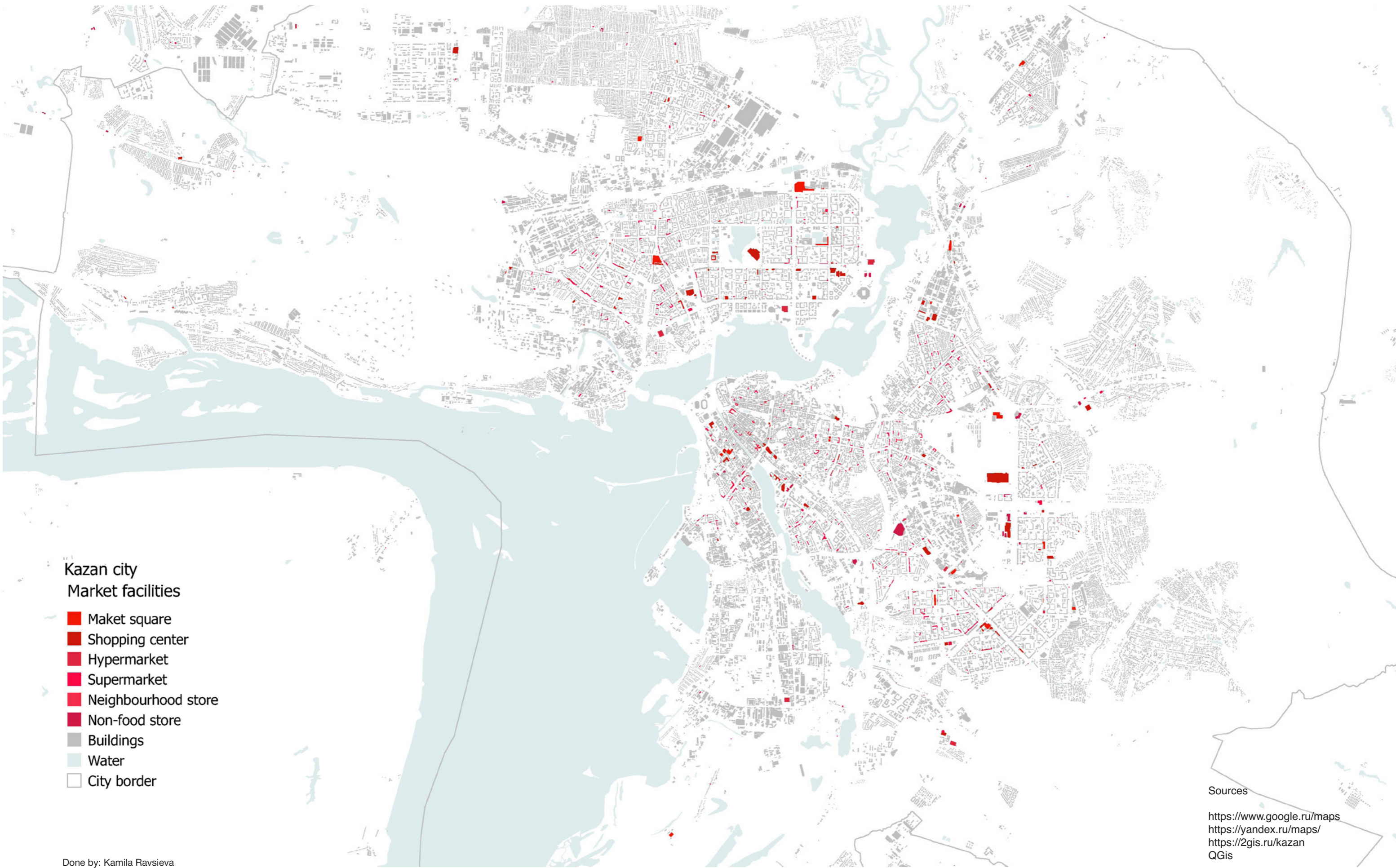
**Hypermarket** is a versatile assortment of food and non-food products predominantly of everyday demand, including under their own trademarks.

**Non-food market** is a wide range of non-food products of one group in accordance with the specialization of the enterprise.

**Neighbourhood market** is a limited range of food and non-food products of frequent (daily) demand. supermarket is a roviding a universal range of

# Location of trading facilities in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



Kazan city

Market facilities

- Market square
- Shopping center
- Hypermarket
- Supermarket
- Neighbourhood store
- Non-food store
- Buildings
- Water
- City border

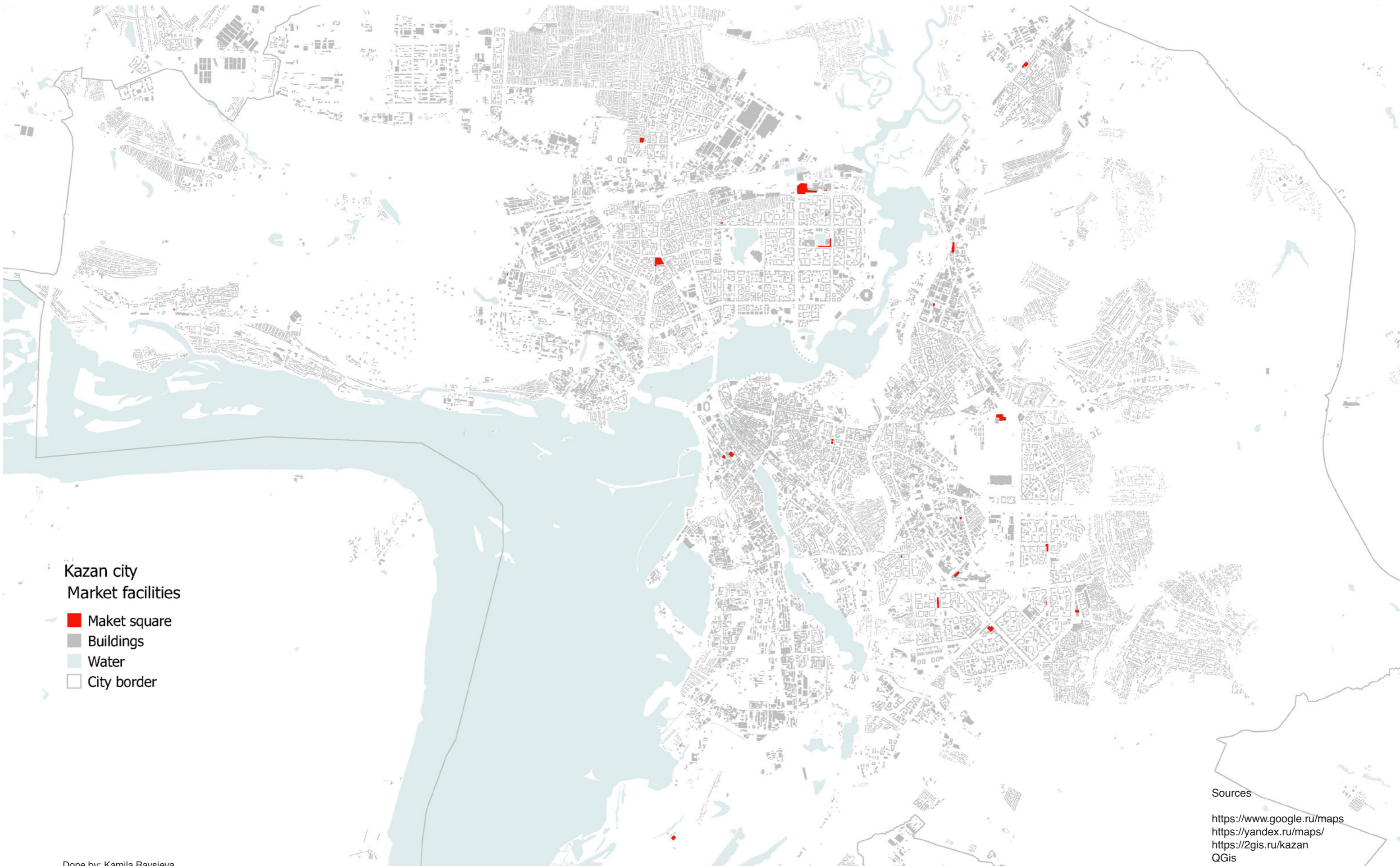
Sources

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<https://2gis.ru/kazan>  
QGis

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# Location of market squares in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



Kazan city  
Market facilities

- Market square
- Buildings
- Water
- City border

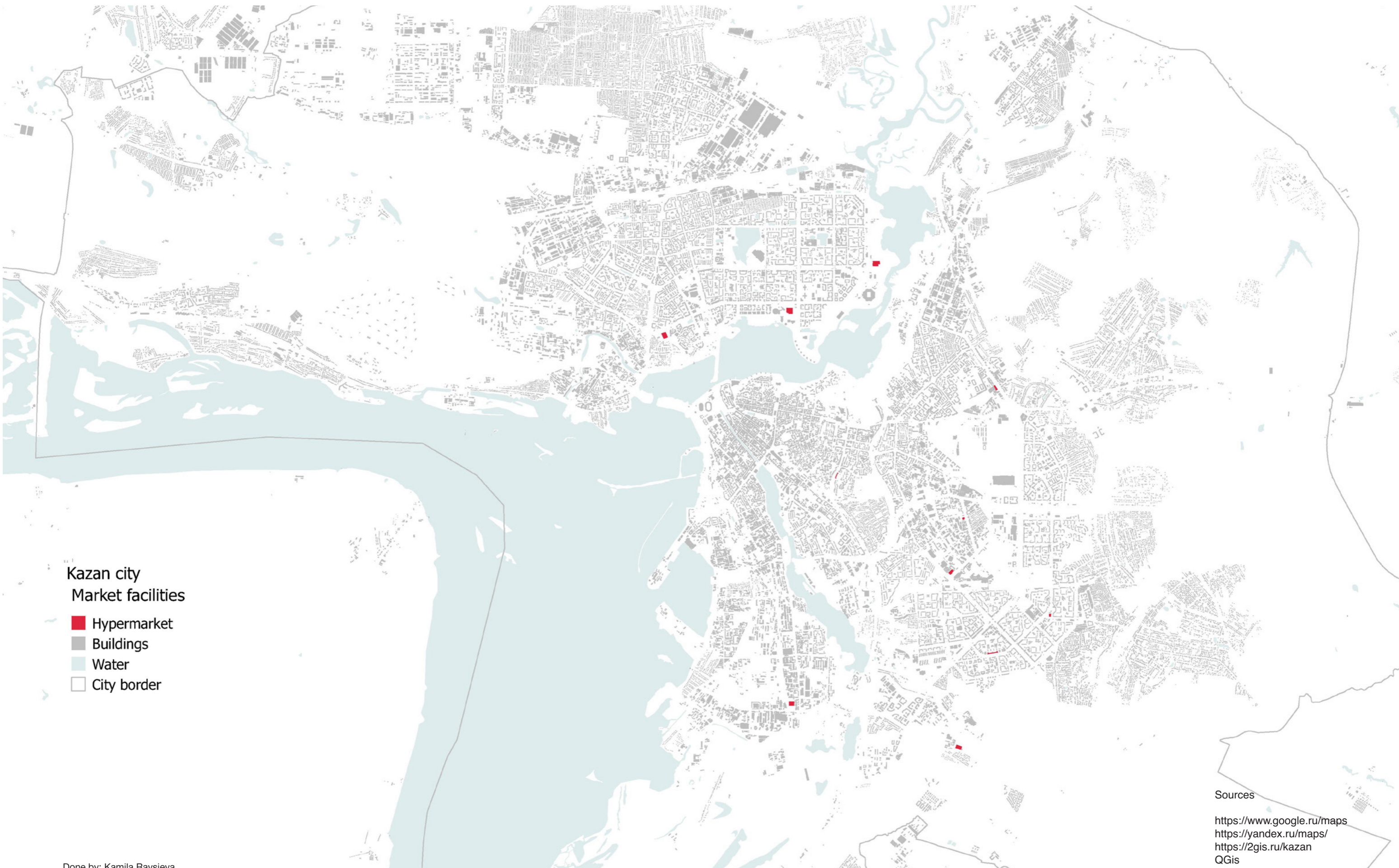
Sources

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<https://2gis.ru/kazan>  
QGis

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# Location of hypermarkets in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Market facilities

- Hypermarket
- Buildings
- Water
- City border

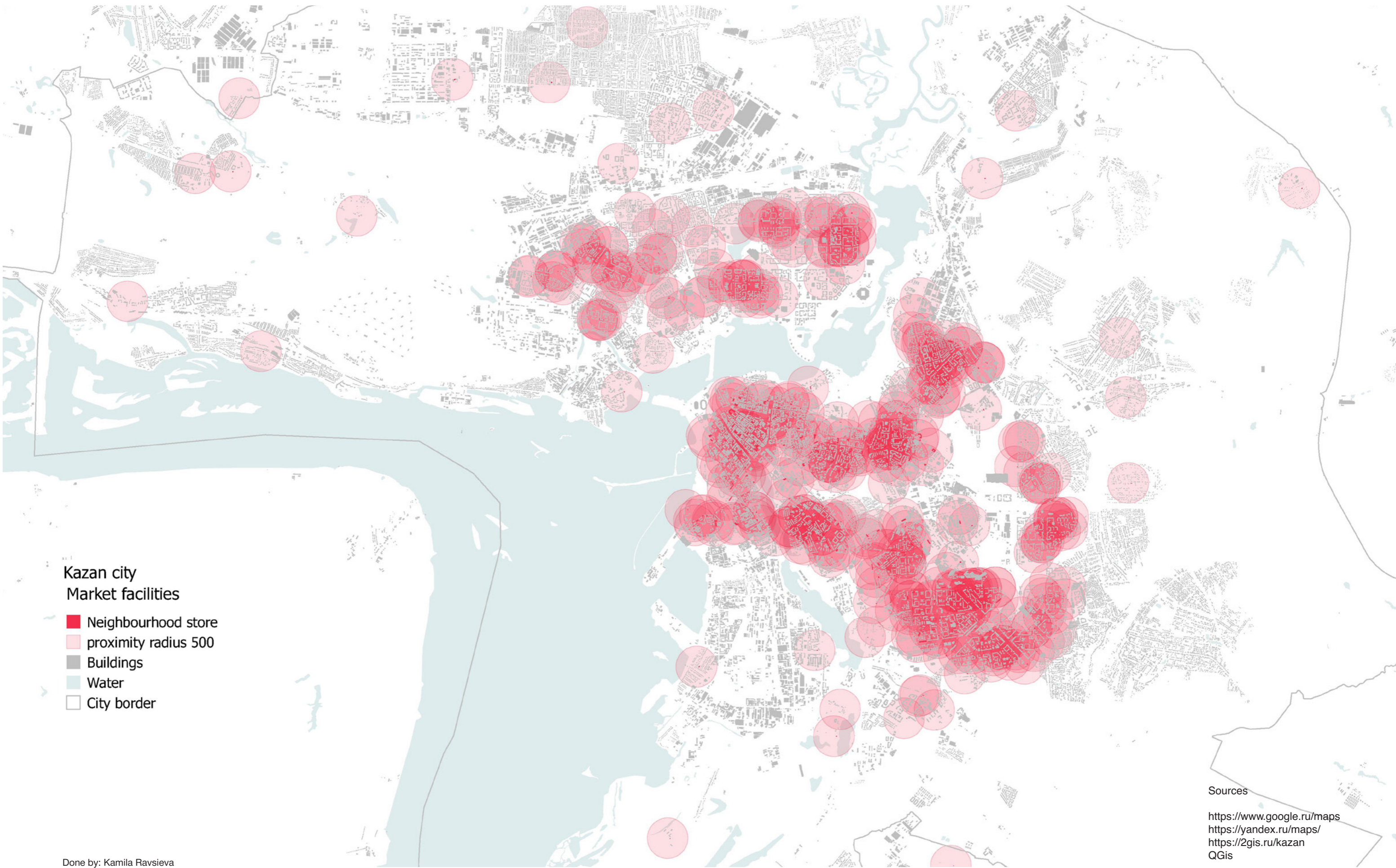
## Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

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Program coordinator: Nadezhda Khort  
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# Scheme of neighbourhood stores proximity zones in Kazan on 2017 year

Graduate .....  
School .....  
of Urbanism ...



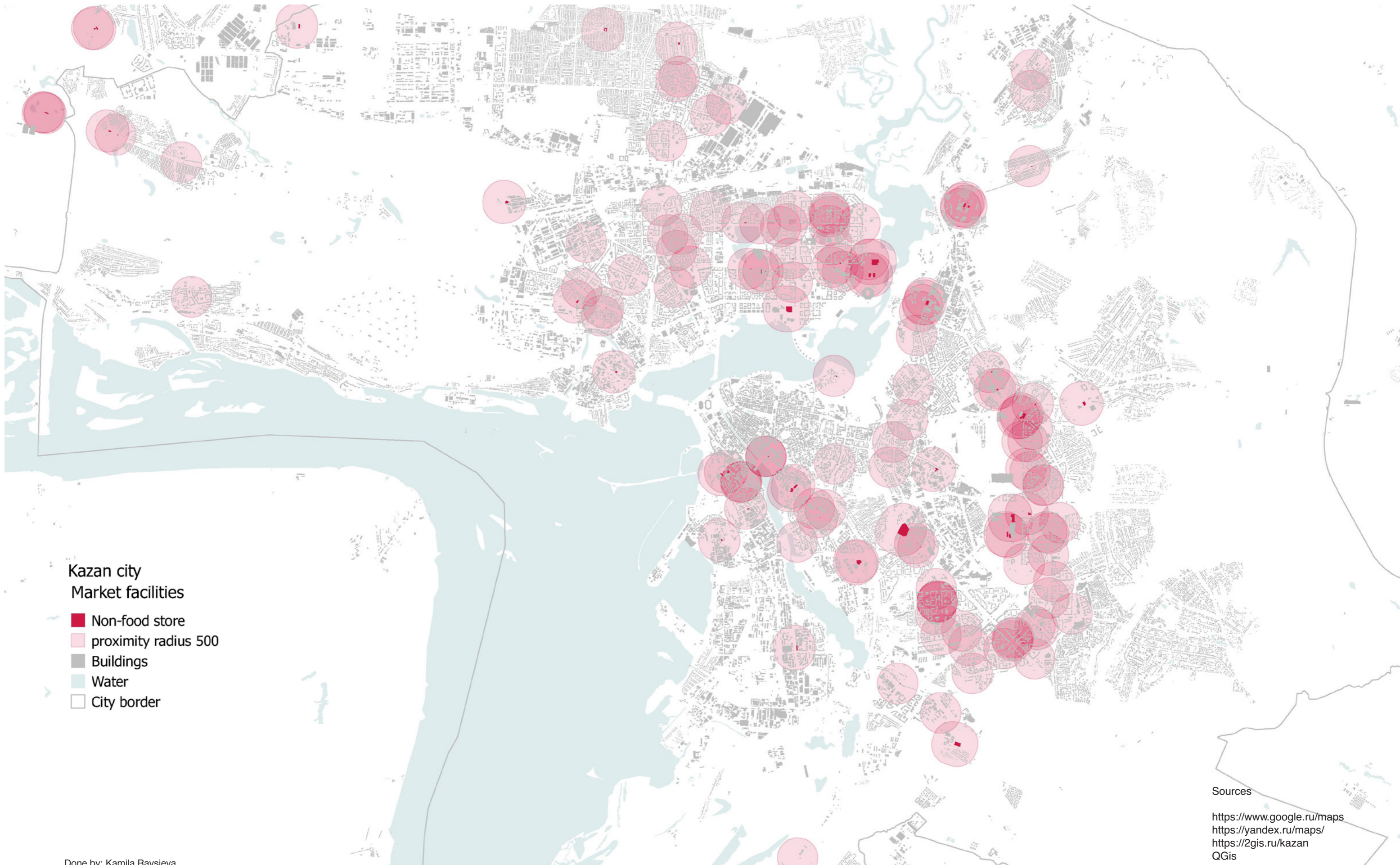
Kazan city  
Market facilities  
■ Neighbourhood store  
■ proximity radius 500  
■ Buildings  
■ Water  
□ City border

Sources  
<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

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# Scheme of non-food stores proximity zones in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



Sources

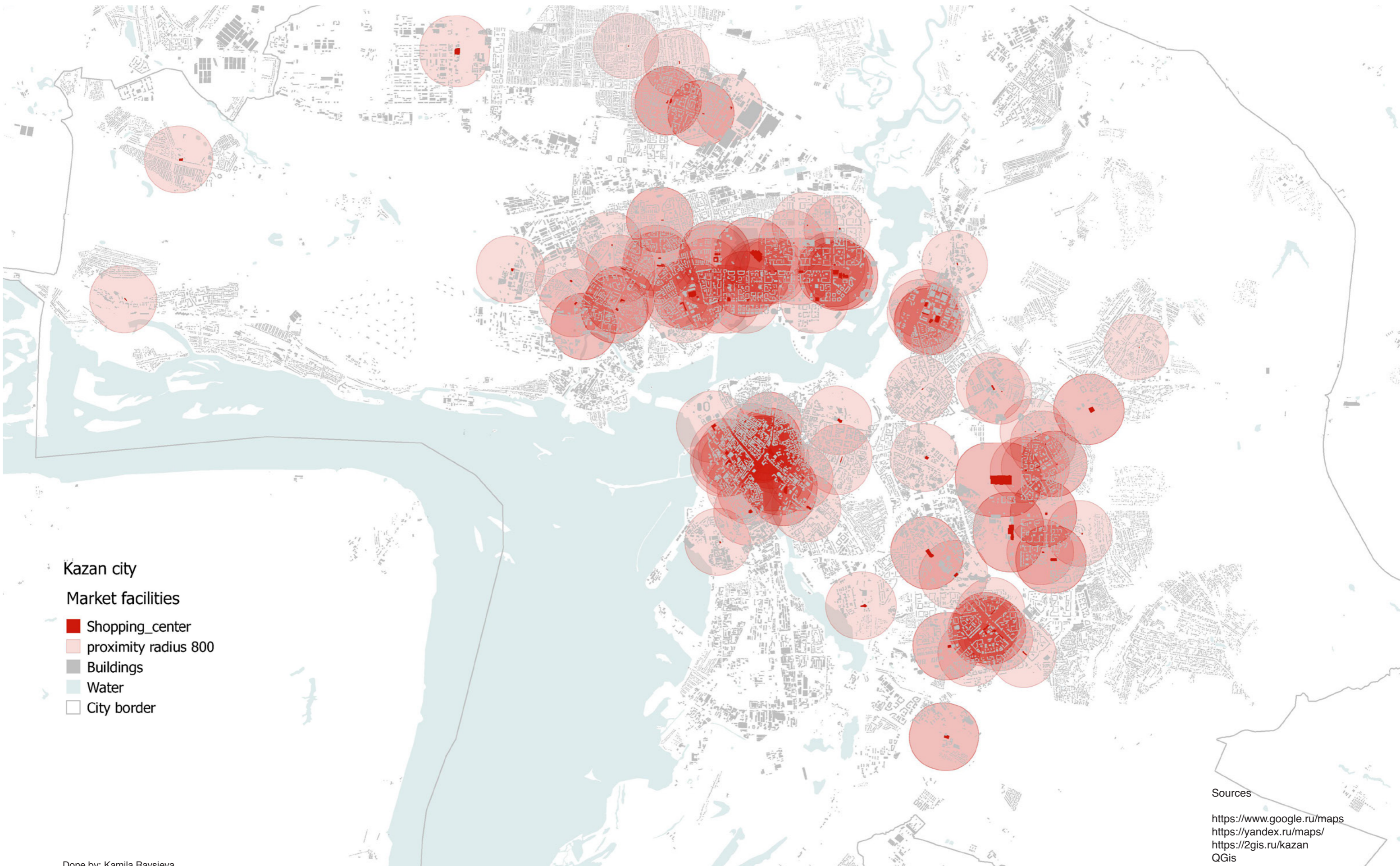
<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

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# Scheme of shopping centers proximity zones in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



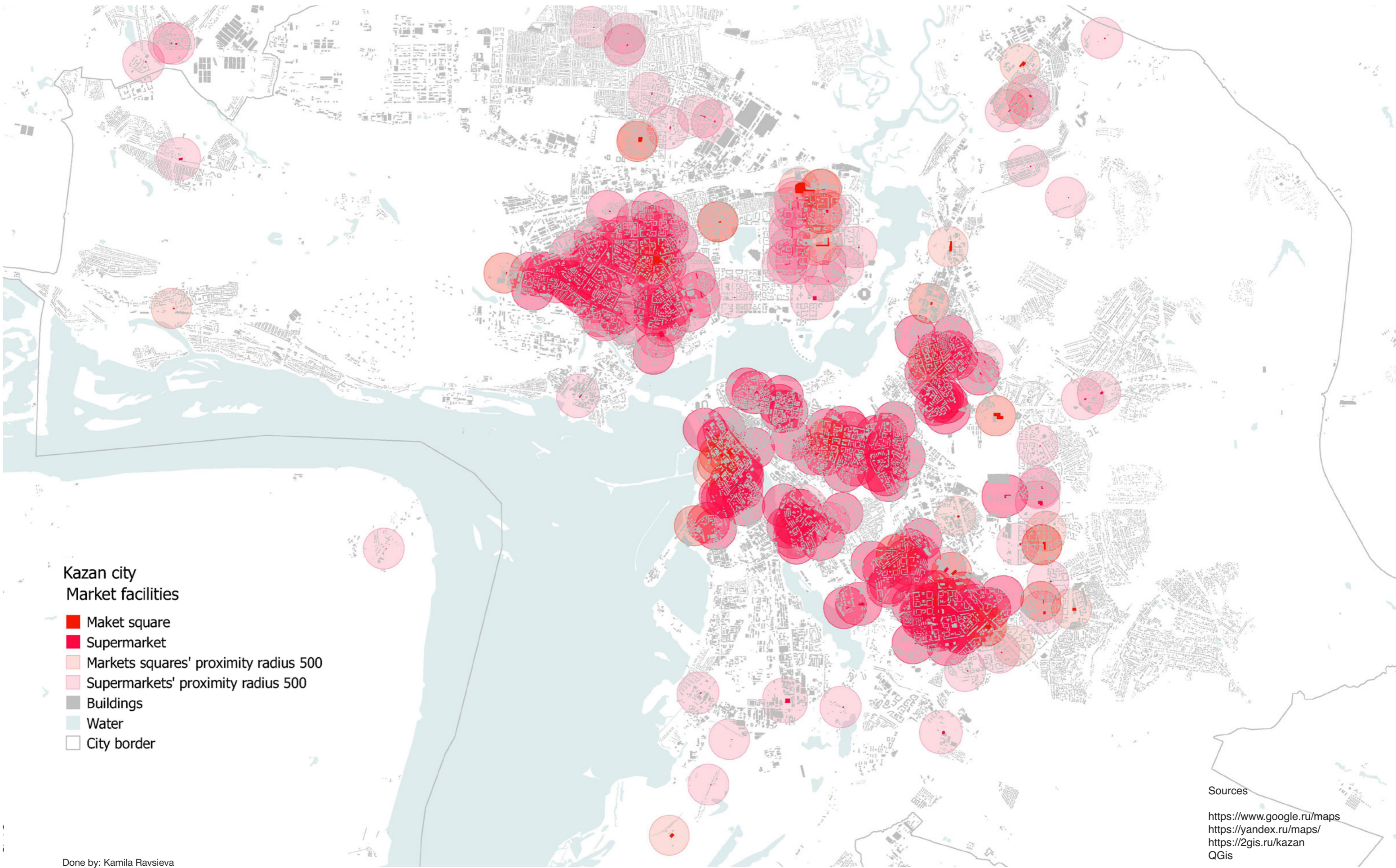
Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

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Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

# Scheme of market squares proximity zones in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Kazan city Market facilities

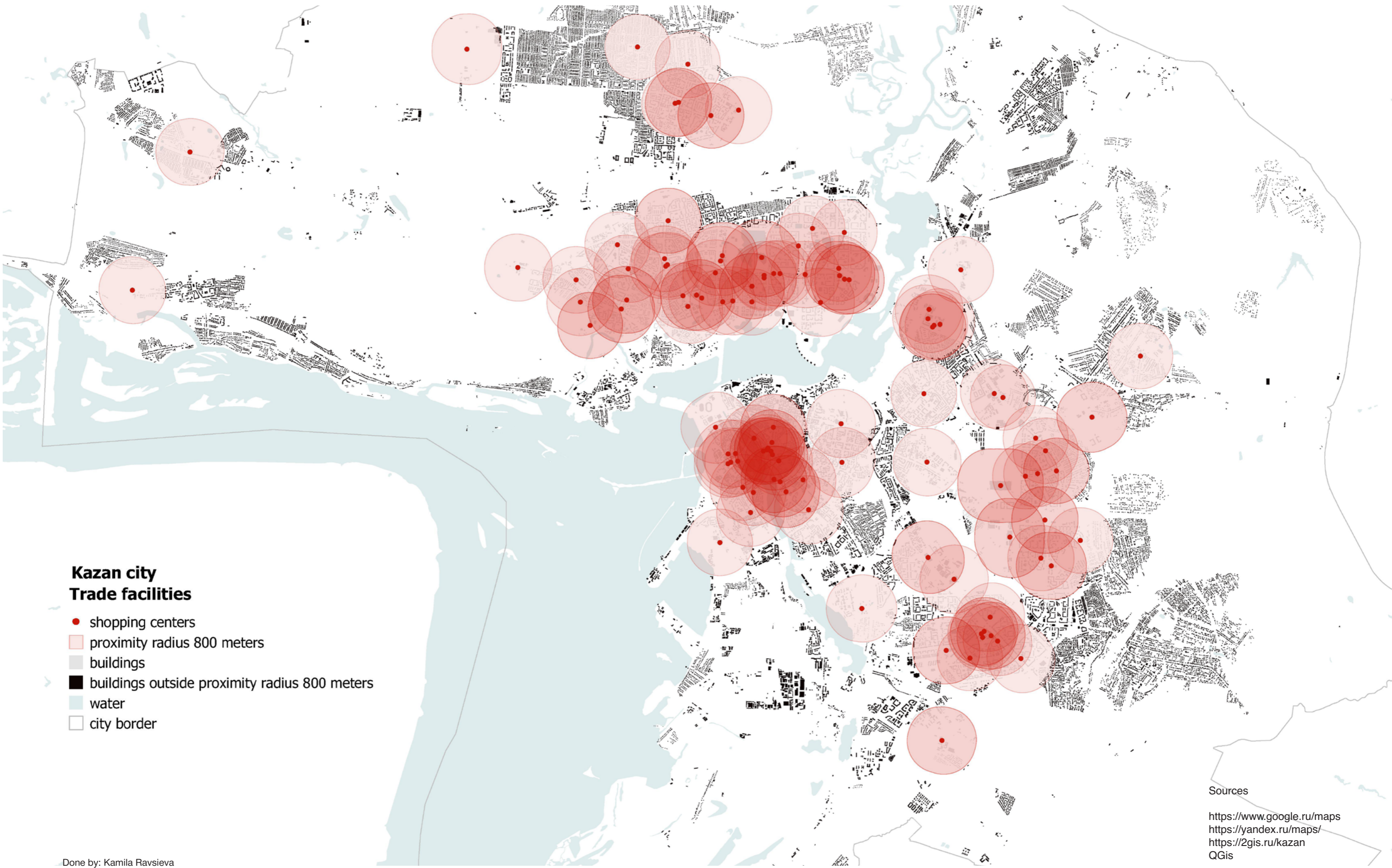
- Market square
- Supermarket
- Markets squares' proximity radius 500
- Supermarkets' proximity radius 500
- Buildings
- Water
- City border

## Sources

<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

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Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

# Analysis of shopping centers in Kazan on 2017 year



## Kazan city Trade facilities

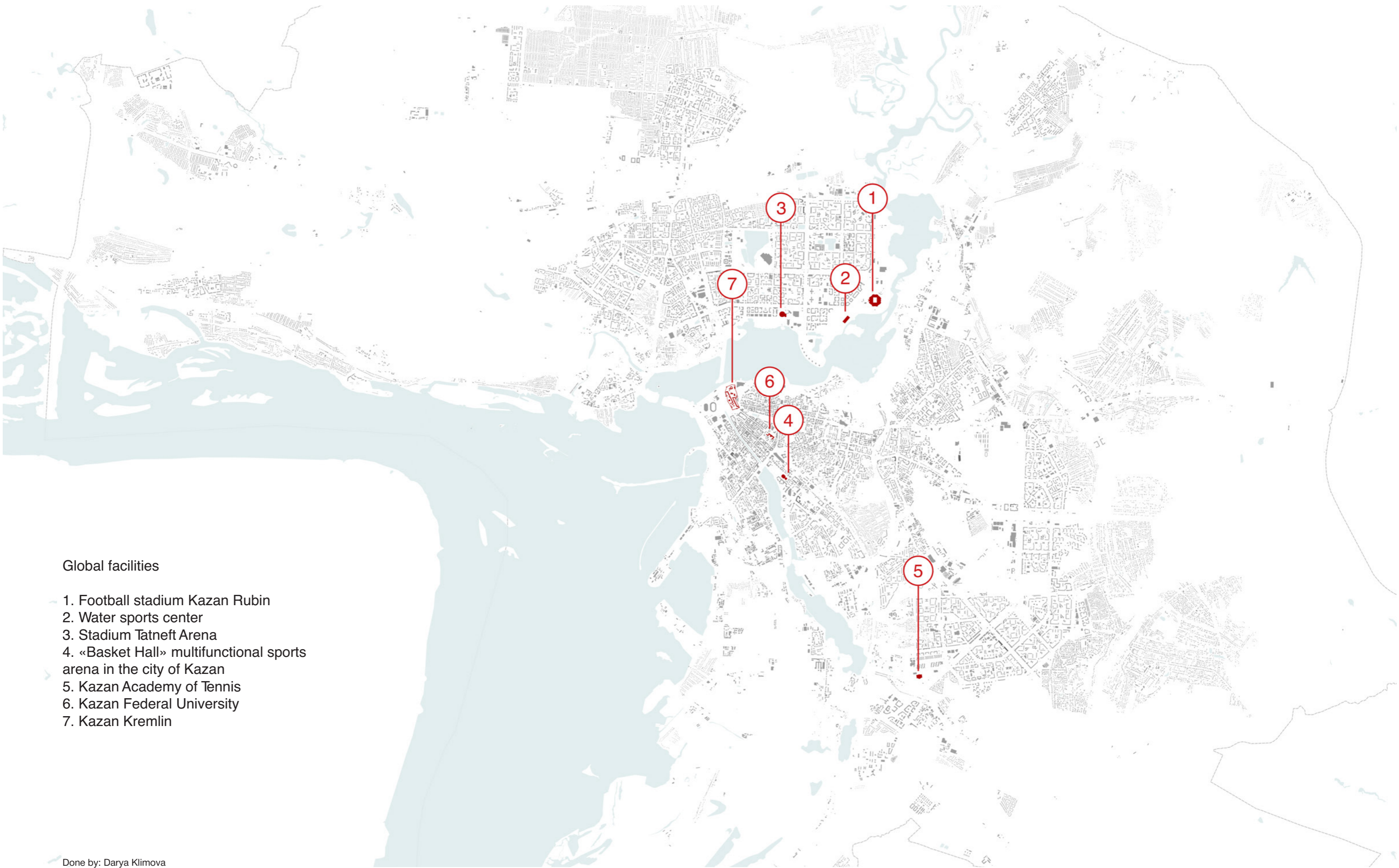
- shopping centers
- proximity radius 800 meters
- buildings
- buildings outside proximity radius 800 meters
- water
- city border

Sources  
<https://www.google.ru/maps>  
<https://yandex.ru/maps/>  
<https://2gis.ru/kazan>  
QGis

Done by: Kamila Ravsieva  
Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

# Location of global facilities in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



## Global facilities

1. Football stadium Kazan Rubin
2. Water sports center
3. Stadium Tatneft Arena
4. «Basket Hall» multifunctional sports arena in the city of Kazan
5. Kazan Academy of Tennis
6. Kazan Federal University
7. Kazan Kremlin

Done by: Darya Klimova  
Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

# Scale of facilities in Kazan on 2017 year

| Healthcare           | Local | City | Global |
|----------------------|-------|------|--------|
| 1. Pharmacy          | ■     |      |        |
| 2. Polyclinic        | ■     |      |        |
| 3. Hospital          |       | ■    |        |
| 4. Ambulance station | ■     |      |        |

| Parks              | Local | City | Global |
|--------------------|-------|------|--------|
| 1. General use     | ■     | ■    |        |
| 2. Limited use     | ■     | ■    |        |
| 3. Special purpose | ■     | ■    |        |

| Education               | Local | City | Global |
|-------------------------|-------|------|--------|
| 1. Kindergarten         | ■     |      |        |
| 2. School               | ■     |      |        |
| 3. College              |       | ■    |        |
| 4. University           |       | ■    | ■      |
| 5. Additional education |       | ■    |        |

| Sport            | Local | City | Global |
|------------------|-------|------|--------|
| 1. Stadium       | ■     | ■    | ■      |
| 2. Sport center  |       | ■    |        |
| 3. Swimming pool | ■     |      |        |
| 4. Ice rink      |       | ■    |        |

| Culture             | Local | City | Global |
|---------------------|-------|------|--------|
| 1. Library          | ■     | ■    |        |
| 2. Museum           | ■     | ■    | ■      |
| 3. Theatre          |       | ■    |        |
| 4. Concert building | ■     | ■    |        |
| 5. Circus           |       | ■    |        |
| 6. Club type        | ■     | ■    |        |
| 7. Cinema           | ■     |      |        |

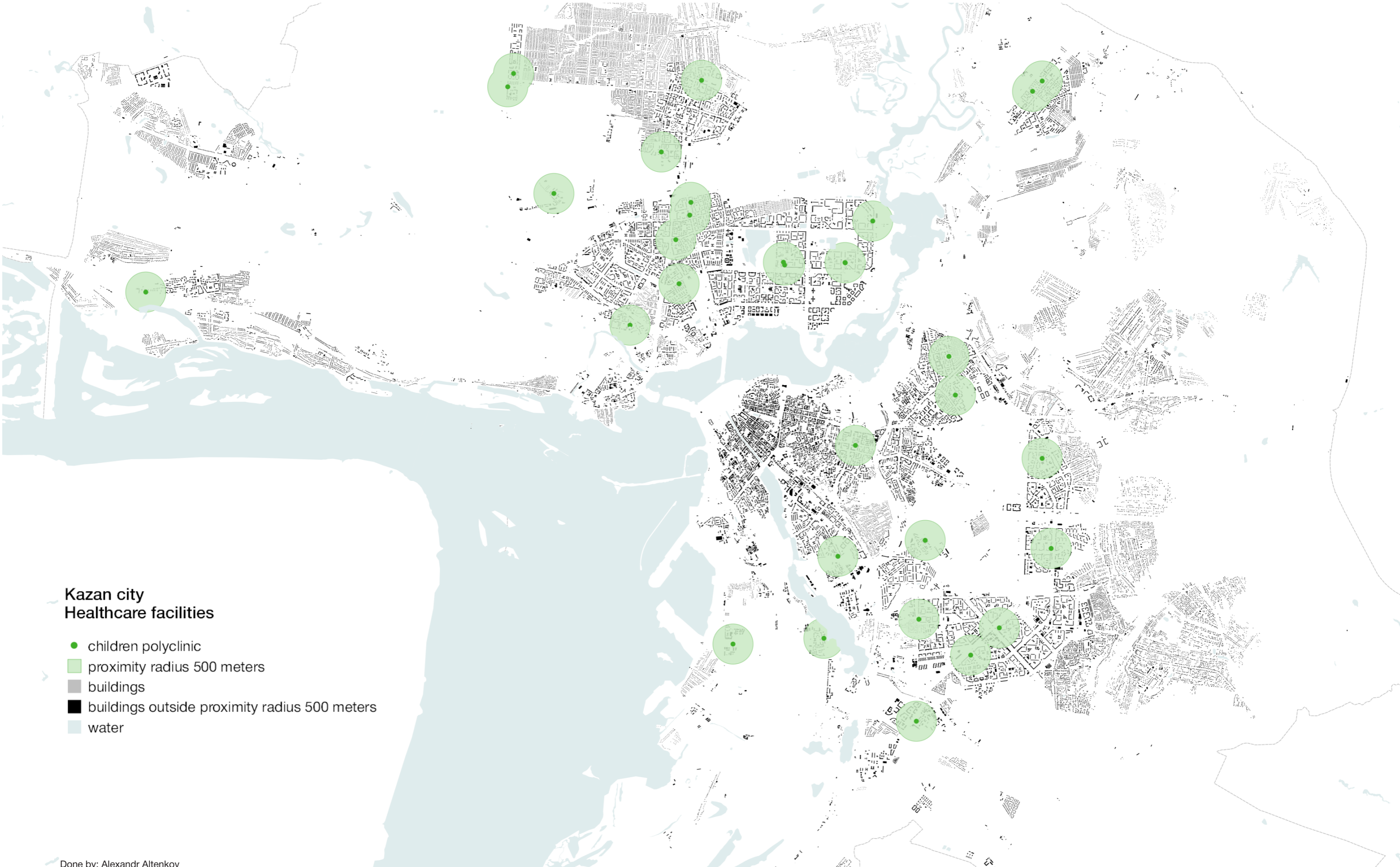
# Scale of facilities in Kazan on 2017 year

| Administration        | Local | City | Global |
|-----------------------|-------|------|--------|
| 1. Fire station       |       | ■    |        |
| 2. Law court          | ■     | ■    |        |
| 3. Police station     | ■     |      |        |
| 4. MFC**              | ■     |      |        |
| 5. Register office    | ■     |      |        |
| 6. Tax service        | ■     |      |        |
| 7. Post office        | ■     |      |        |
| 8. Migration office   |       | ■    |        |
| 9. City government    | ■     | ■    |        |
| Markets               | Local | City | Global |
| 1. Shopping center    |       | ■    |        |
| 2. Hypermarket        |       | ■    |        |
| 3. Supermarket        | ■     |      |        |
| 4. Neighborhood store | ■     |      |        |

|                    |   |
|--------------------|---|
| 5. Non-Food market | ■ |
| 6. Market square   | ■ |

# Proposition of the pedestrian availability of children polyclinics in Kazan on 2017

· Graduate .....  
· School .....  
· of Urbanism ...



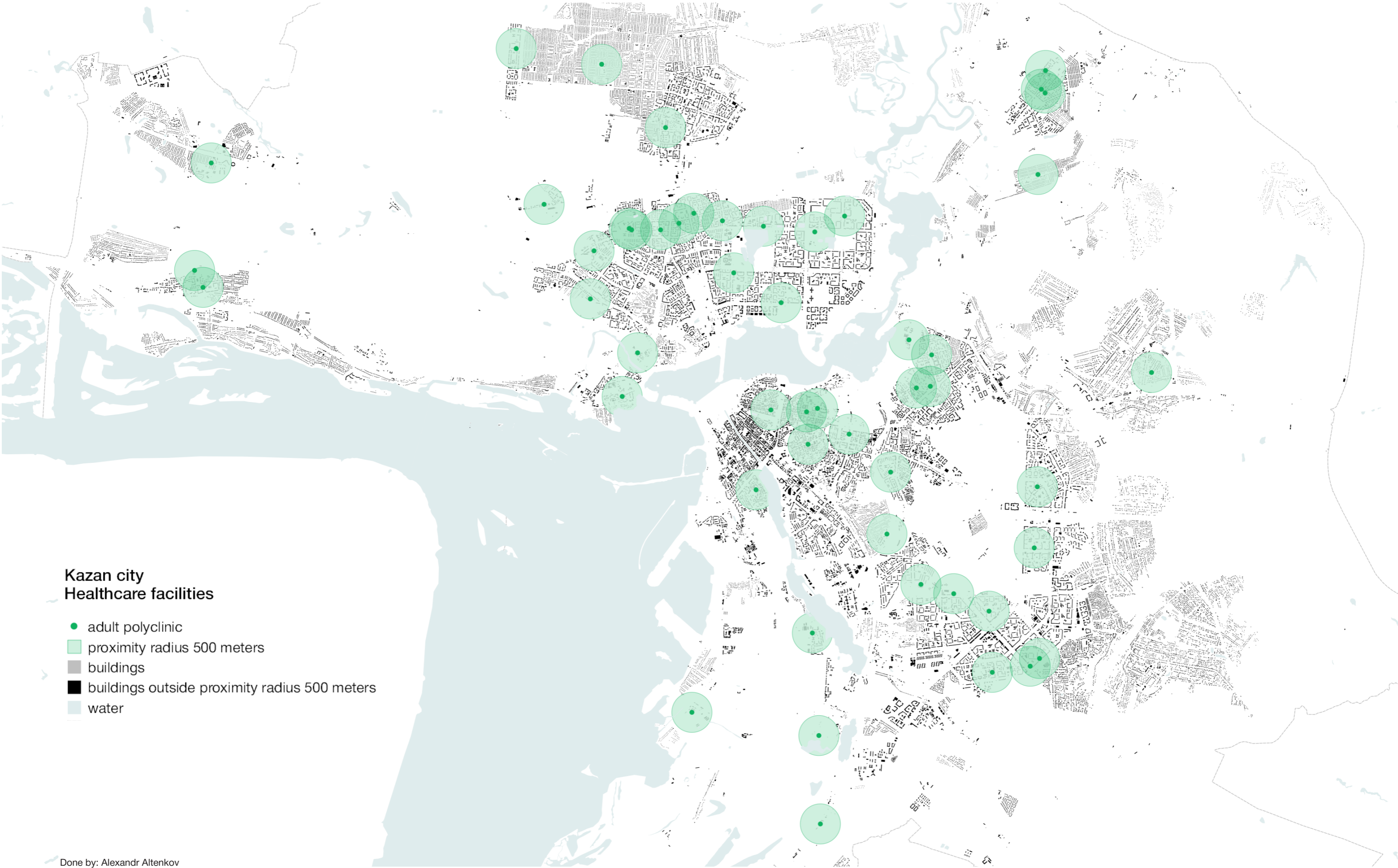
## Kazan city Healthcare facilities

- children polyclinic
- proximity radius 500 meters
- buildings
- buildings outside proximity radius 500 meters
- water

Done by: Alexandr Altenkov  
Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

# Proposition of the pedestrian availability of adult polyclinics in Kazan on 2017 year

Graduate .....  
School .....  
of Urbanism ...



## Kazan city Healthcare facilities

- adult polyclinic
- proximity radius 500 meters
- buildings
- buildings outside proximity radius 500 meters
- water

Done by: Alexandr Altenkov  
Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

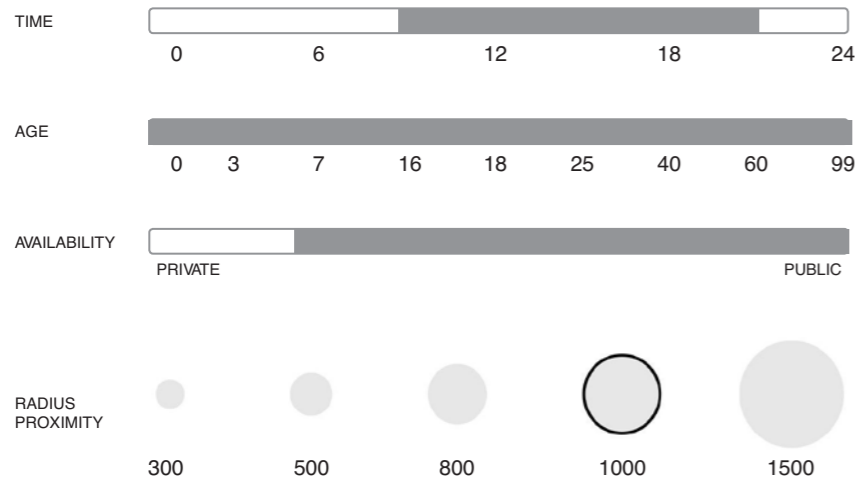


# Local polyclinics

Kazan



polyclinic №18  
«Azino» children polyclinic



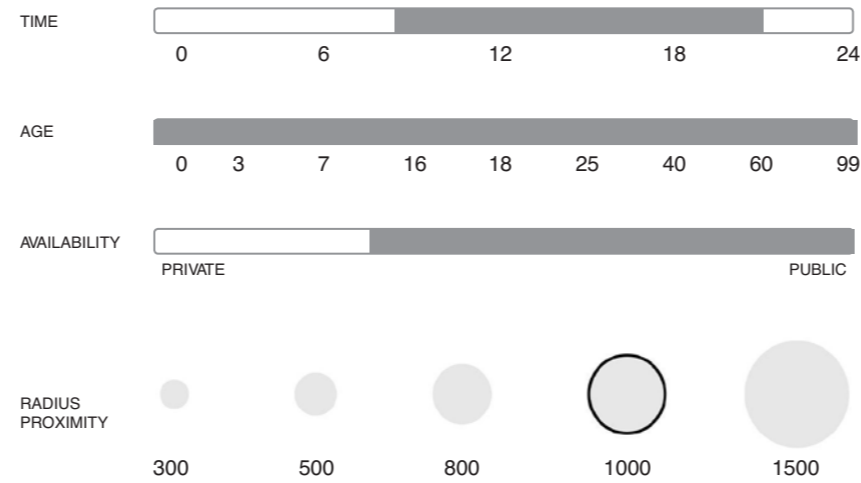
FUNCTIONAL CONTENT

Free service  
Paid service

Moscow



Moscow children polyclinic  
Polyclinic in «New» Moscow



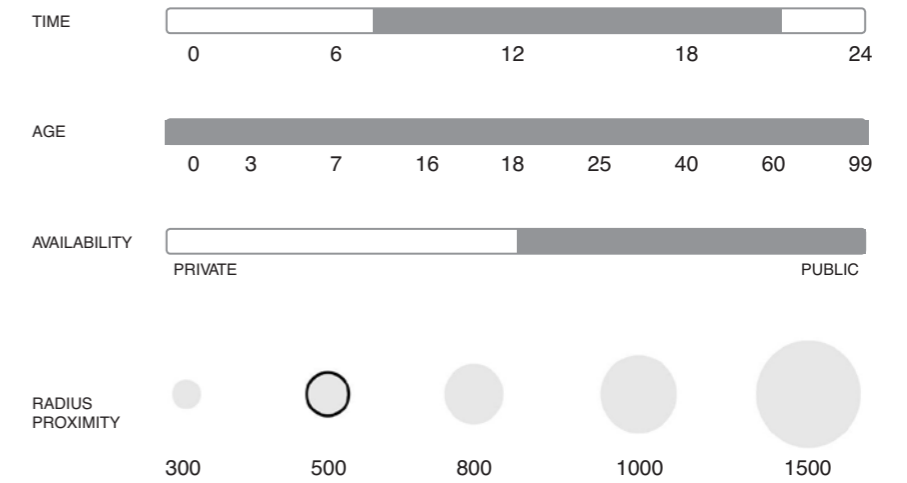
FUNCTIONAL CONTENT

Free service  
Paid service

Barcelona



Barcelona polyclinic

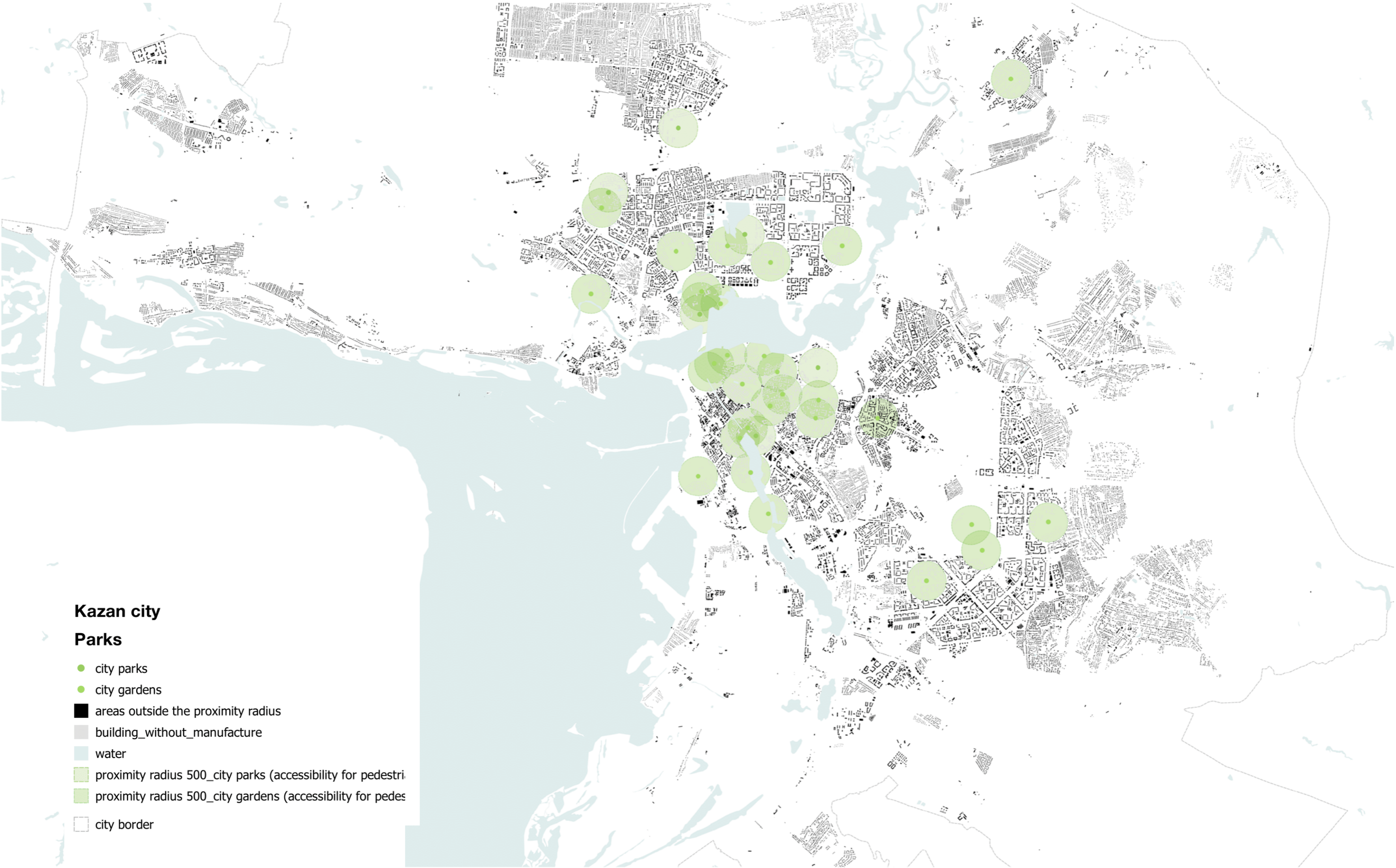


FUNCTIONAL CONTENT

Free service  
Paid service

# Proposition of the pedestrian availability of parks in Kazan on 2017 year

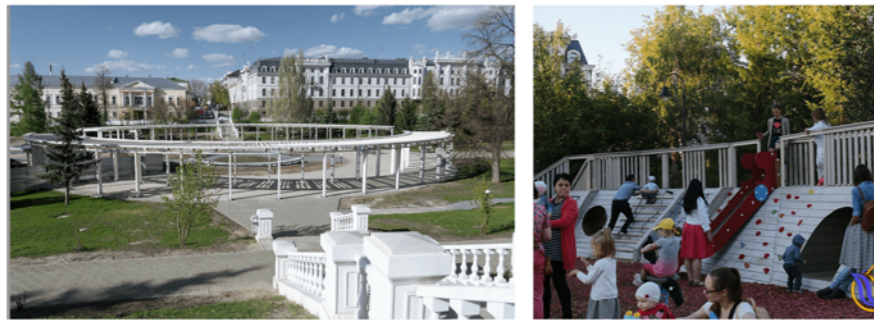
· Graduate .....  
 · School .....  
 · of Urbanism ...



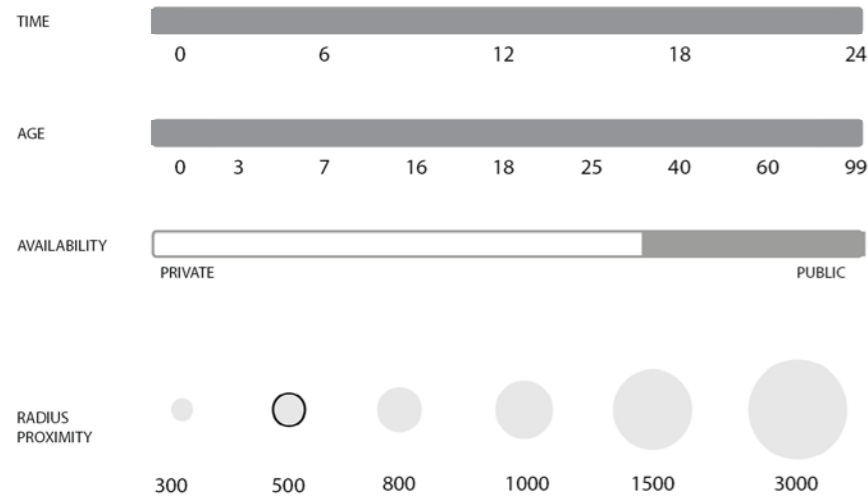
Done by: Anna Budnikova  
 Academic director: Vicente Guallart  
 Program coordinator: Nadezhda Khort  
 Curator of the project: Elena Mitrofanova

# Local parks

Kazan



Urizkogo park, Gorkinsko-Ometevsky forest, Black Lake park



FUNCTIONAL CONTENT

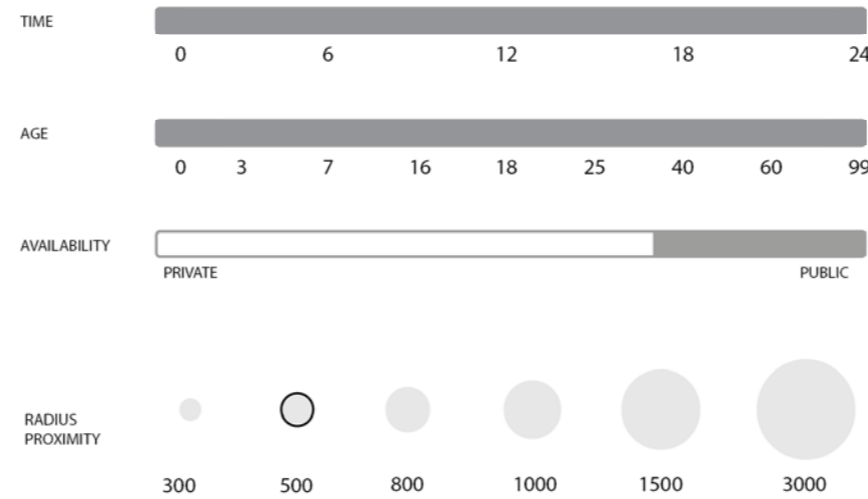
promenade  
children's and sports playgrounds  
pavilions  
amphitheater

Done by: Anna Budnikova  
Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

Moscow



Sokolniki park, Izmailovskii park, Kolomenskoe park



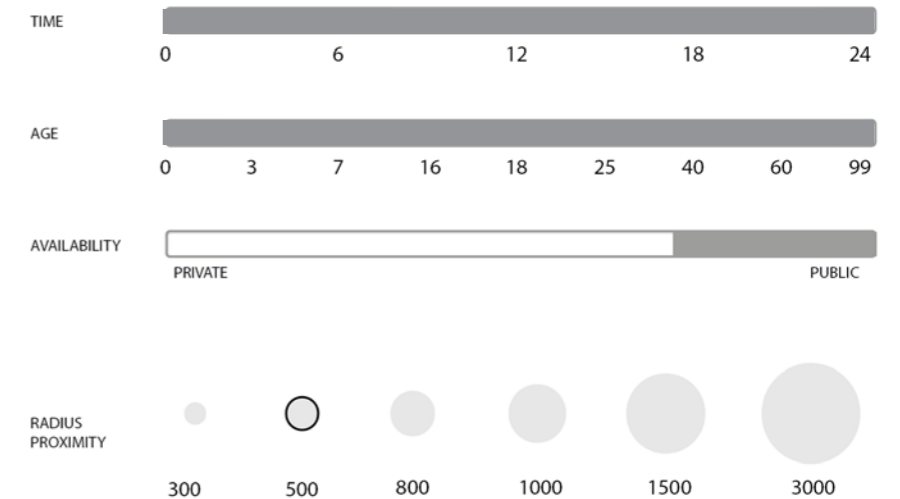
FUNCTIONAL CONTENT

promenade  
children's and sports playgrounds  
diverse pavilions, art objects  
amphitheater, lecture hall  
embankment

Barcelona



Parc de la Ciutadella, Park of Joan Miro, Parc del Centre del Poblenou

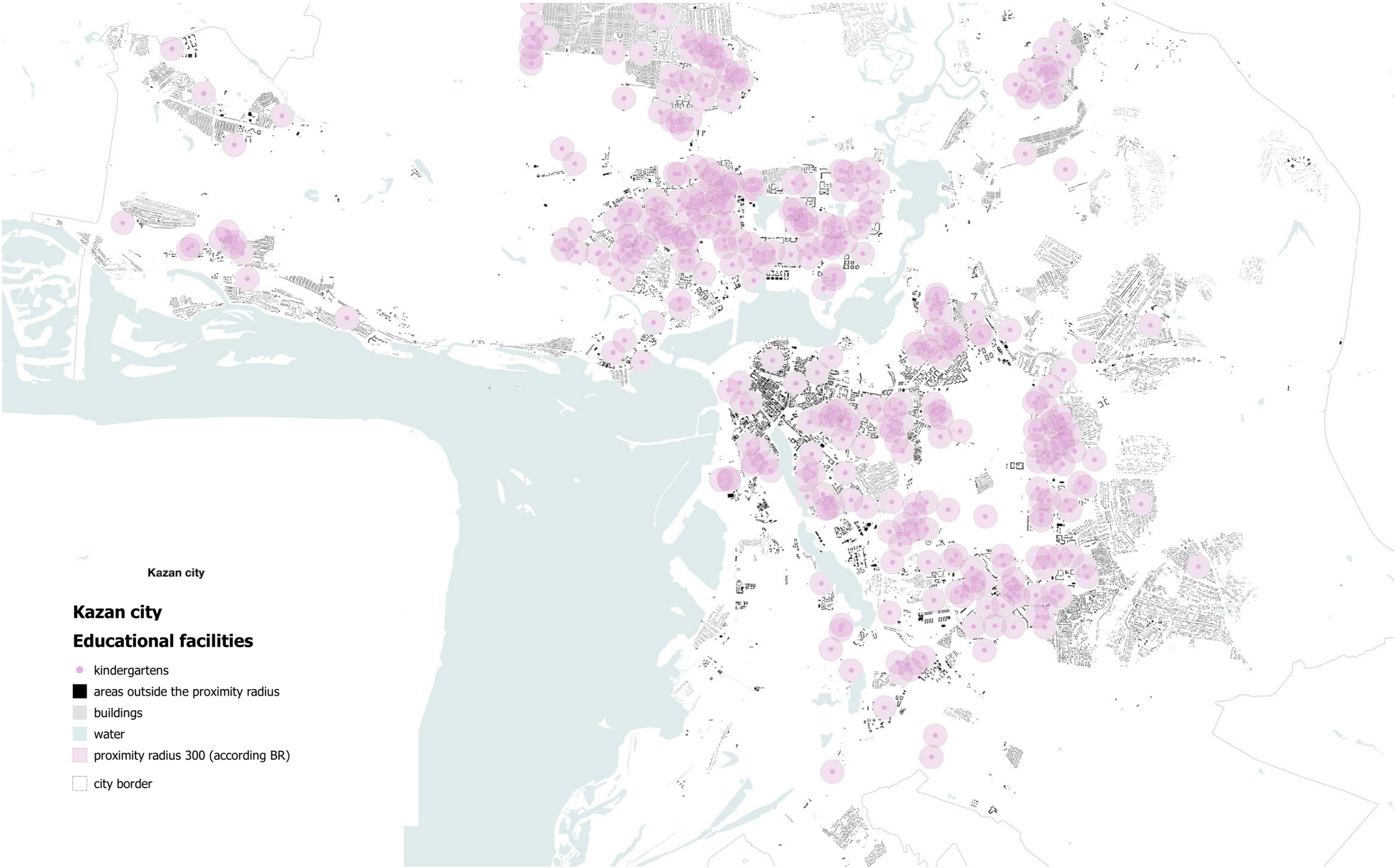


FUNCTIONAL CONTENT

promenade  
children's and sports playgrounds  
diverse pavilions, art objects  
amphitheater, lecture hall  
sculptures

# Proposition of the pedestrian availability of kindergartens in Kazan on 2017 year

· Graduate .....  
 · School .....  
 · of Urbanism ...

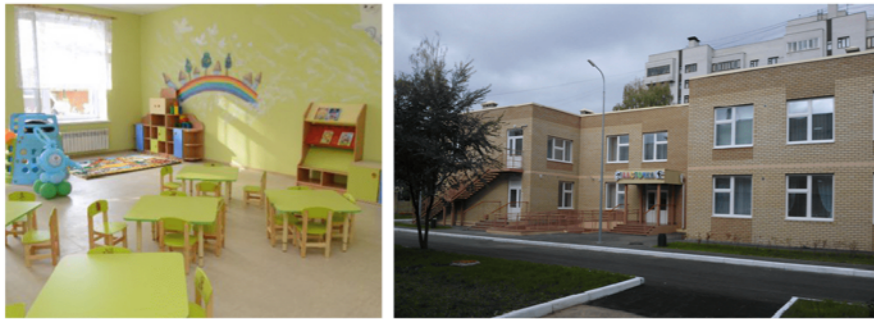


- Kazan city**
- Kazan city**
- Educational facilities**
- kindergartens
  - areas outside the proximity radius
  - buildings
  - water
  - proximity radius 300 (according BR)
  - city border

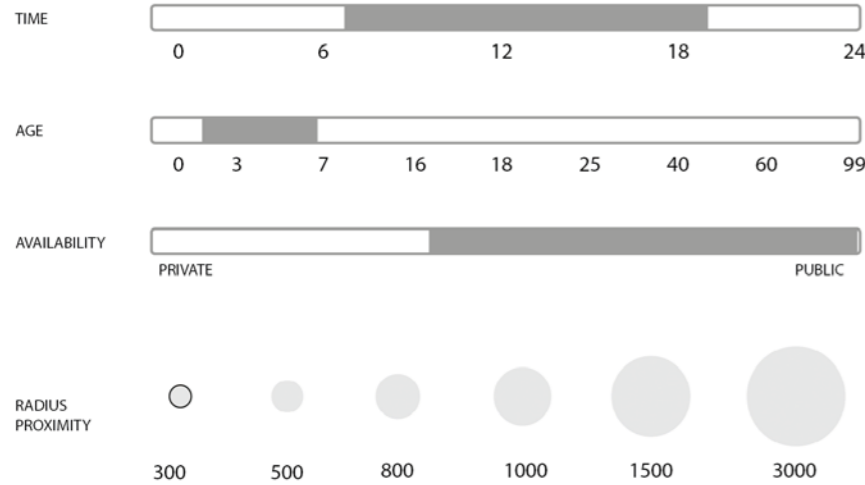
Done by: Anna Budnikova  
 Academic director: Vicente Guallart  
 Program coordinator: Nadezhda Khort  
 Curator of the project: Elena Mitrofanova

# Local kindergarden

Kazan



Khalezov kindergarten, Guards kindergarten, Solnechni kindergarten



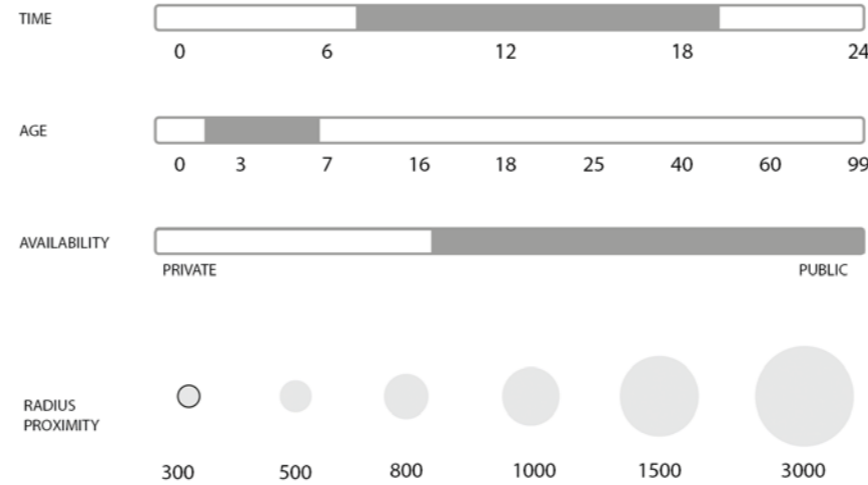
FUNCTIONAL CONTENT

- playground
- common space
- restrooms
- canteen

Moscow



Kindergarten on Parkovaya street, Kindergarten on Marshal street



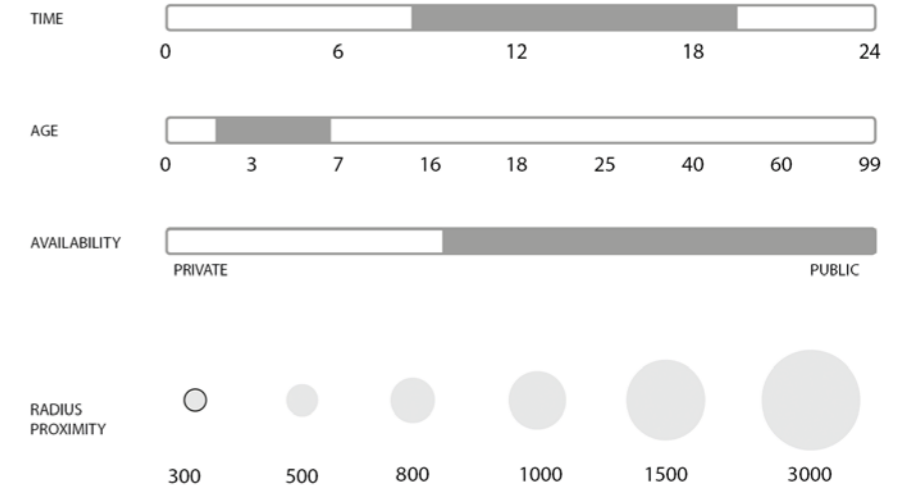
FUNCTIONAL CONTENT

- playground
- common spaces
- special areas for activity and study
- restrooms
- canteen

Barcelona



Els Colors Kindergarten, The kindergarten Xiroi



FUNCTIONAL CONTENT

- playground
- common spaces
- special areas for activity and study
- restrooms
- canteen|cafe

Done by: Anna Budnikova  
 Academic director: Vicente Guallart  
 Program coordinator: Nadezhda Khort  
 Curator of the project: Elena Mitrofanova

# Proposition of the pedestrian availability of schools in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



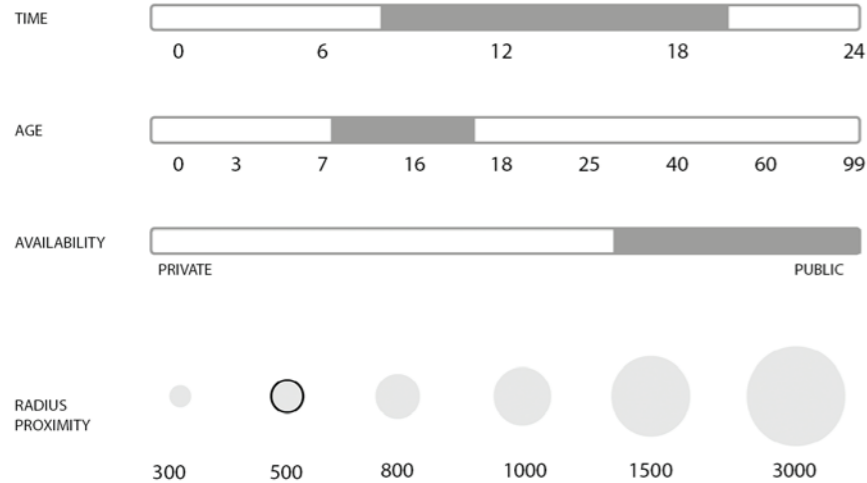
Done by: Anna Budnikova  
Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

# Local school

## Kazan



98th secondary school, 161th school, 152th school



### FUNCTIONAL CONTENT

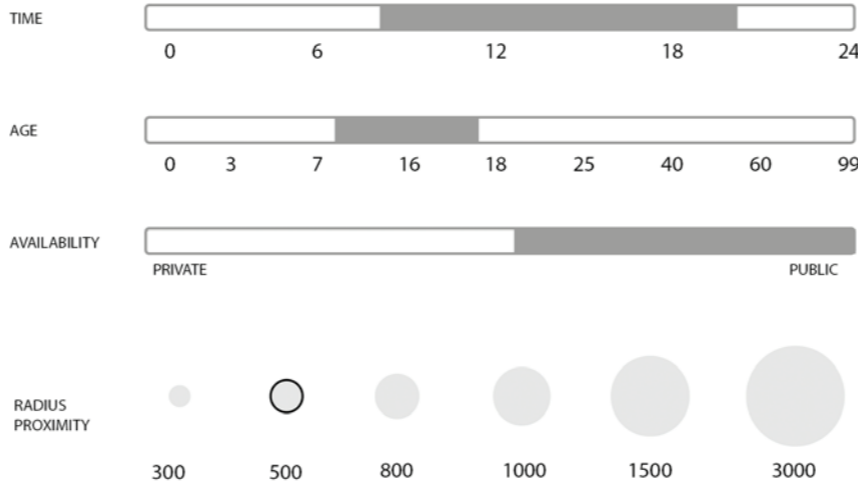
classes  
sport hall  
canteen

Done by: Anna Budnikova  
Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

## Moscow



School on Narvskaya street, School in New Moscow, 1249th school in Kurkino



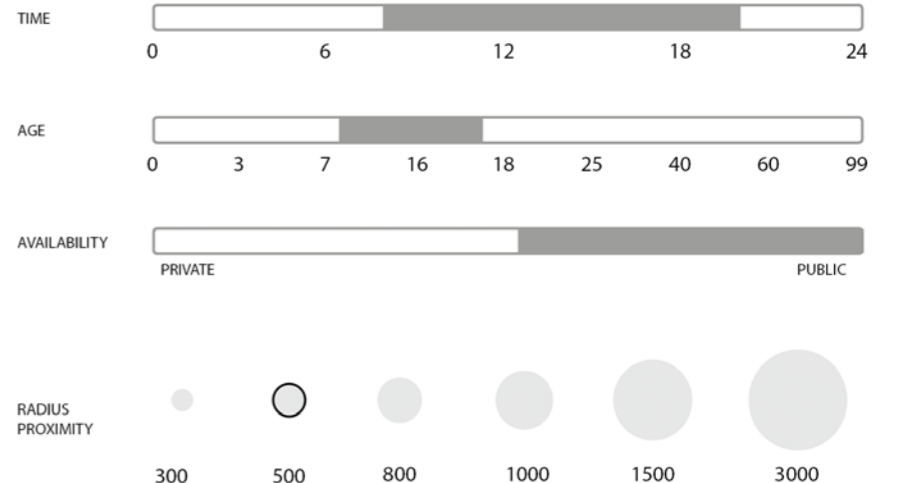
### FUNCTIONAL CONTENT

classes, common areas  
sport hall, gym hall,  
different grounds outside  
canteen|cafe

## Barcelona



Barcelona Elementary School, Kensington School Barcelona, EU Business School Barcelona

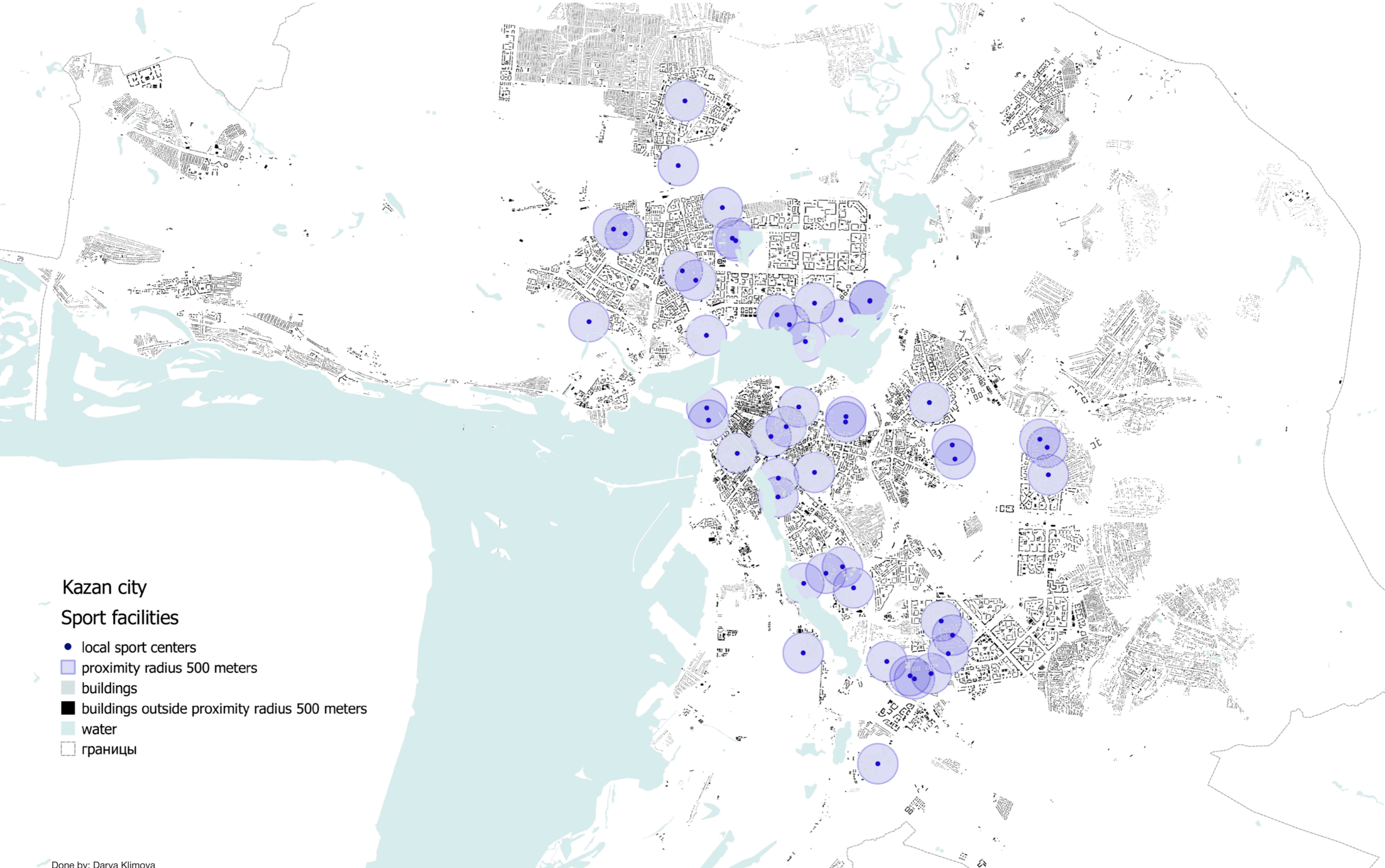


### FUNCTIONAL CONTENT

classes, common areas, coworkings  
sport hall, gym hall,  
different grounds outside  
canteen|cafe, coffee points

# Proposition of the pedestrian availability of local sport centers in Kazan on 2017 year

· Graduate .....  
· School .....  
· of Urbanism ...



### Kazan city

### Sport facilities

- local sport centers
- proximity radius 500 meters
- buildings
- buildings outside proximity radius 500 meters
- water
- границы

Done by: Darya Klimova  
Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

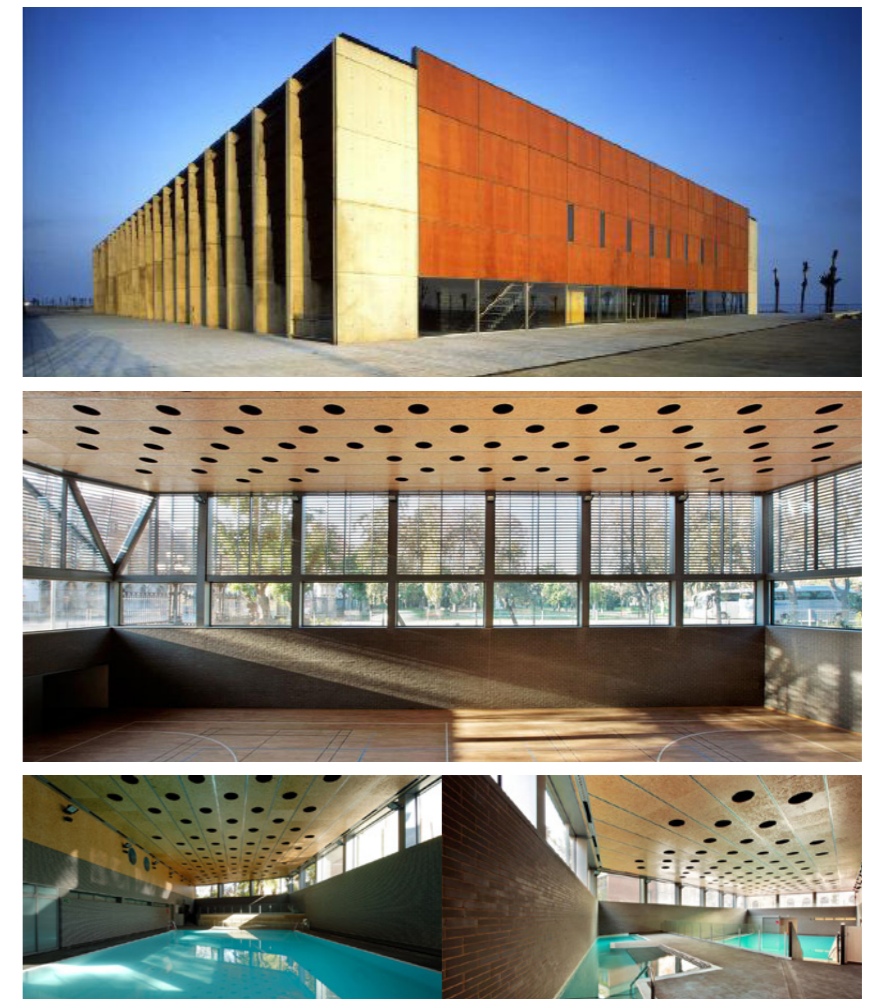
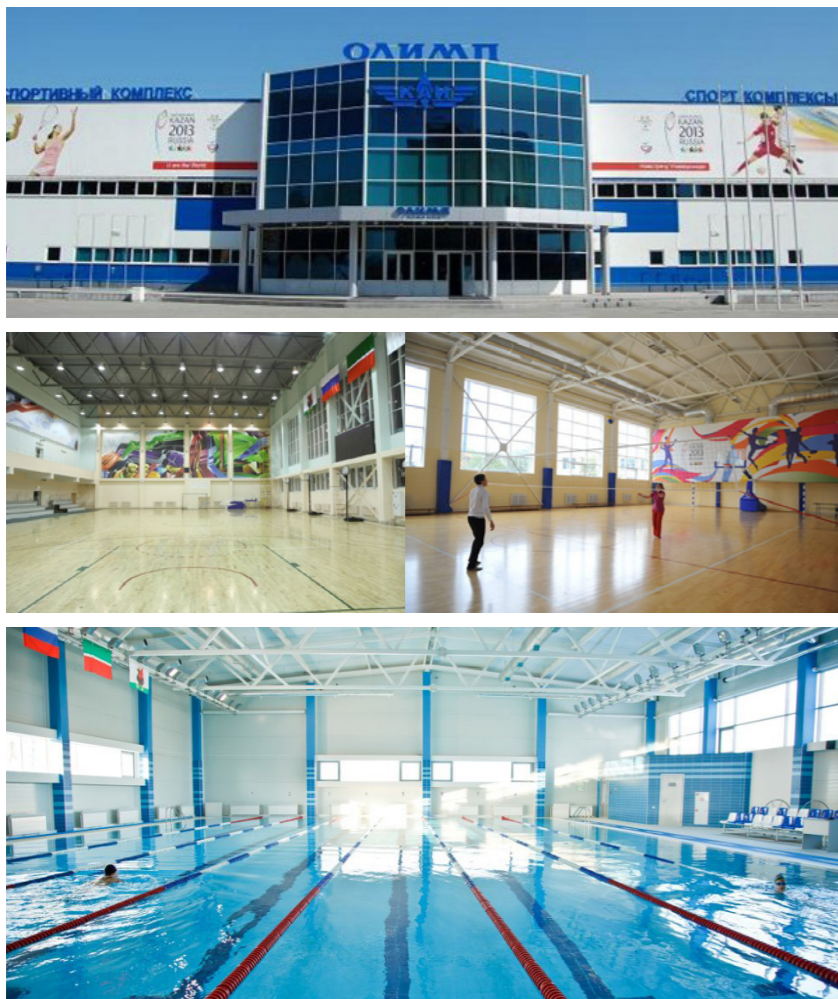


# Local sport centers

Kazan

Moscow

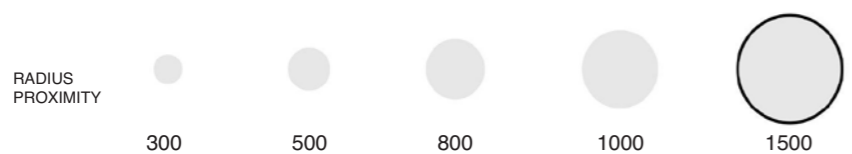
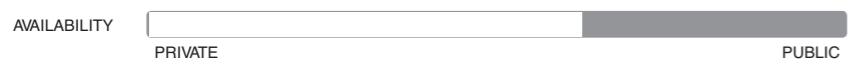
Barcelona



Kazan multifunctional sport center Butan  
University sport center

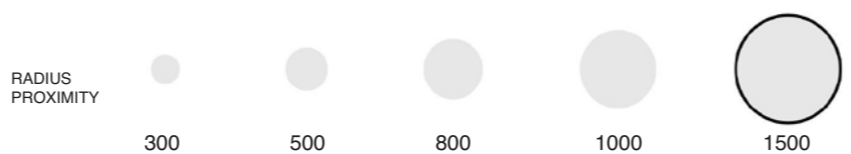
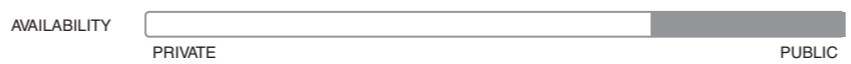
Moscow multifunctional sport center Dinamo  
Moscow public ice rink

Barcelona sports park citadel



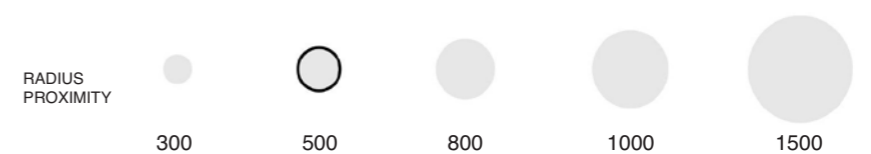
FUNCTIONAL CONTENT

- Team sports
- Gym
- Swimming pool



FUNCTIONAL CONTENT

- Team sports
- Gym
- Swimming pool
- Stadium

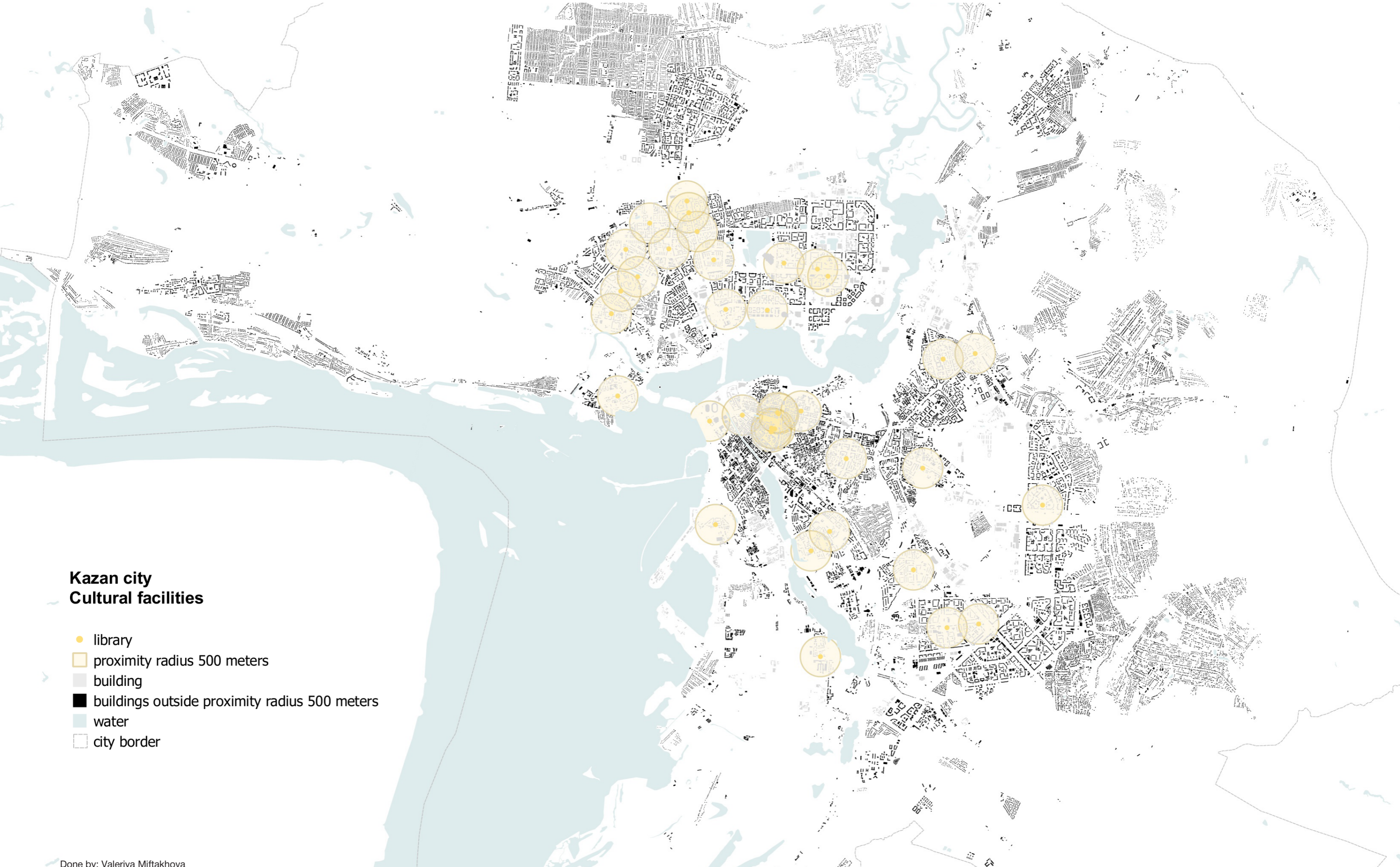


FUNCTIONAL CONTENT

- Team sports
- Gym
- Swimming pool
- Stadium

# Proposition of the pedestrian availability of libraries in Kazan on 2017 year

Graduate .....  
School .....  
of Urbanism ...



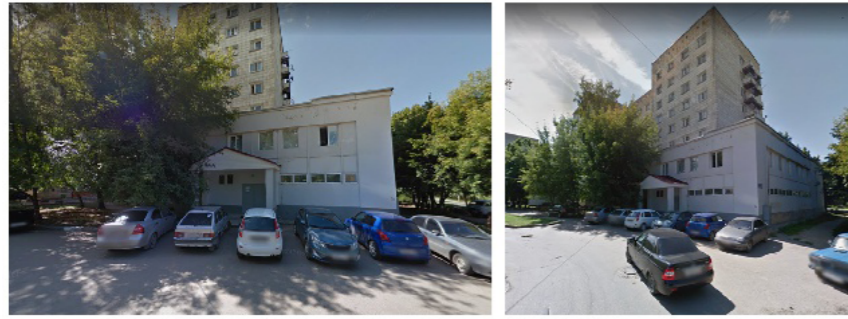
## Kazan city Cultural facilities

- library
- proximity radius 500 meters
- building
- buildings outside proximity radius 500 meters
- water
- city border

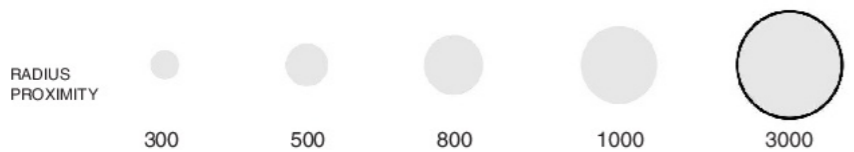
Done by: Valeriya Miftakhova  
Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

# Local libraries

Kazan



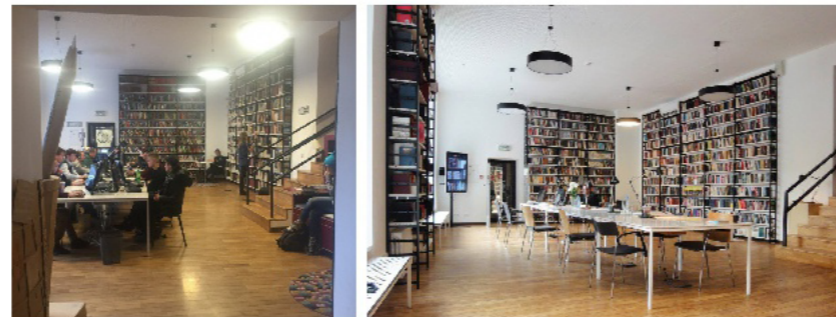
Central Children's Library



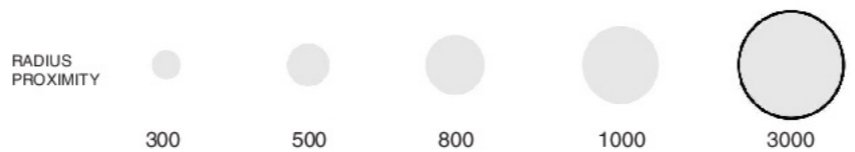
FUNCTIONAL CONTENT

Books rent  
 Reading room

Moscow



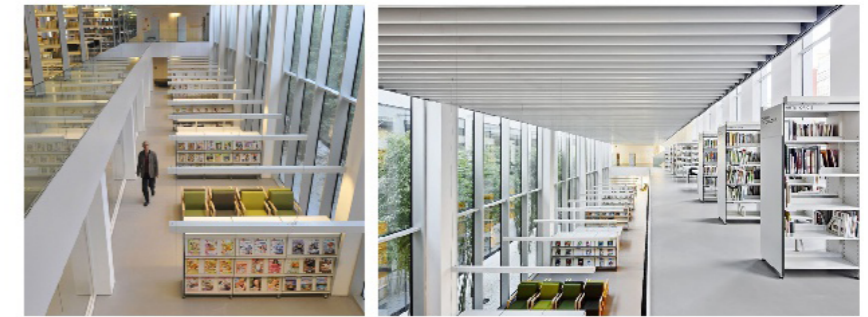
Library named after F.M. Dostoevsky



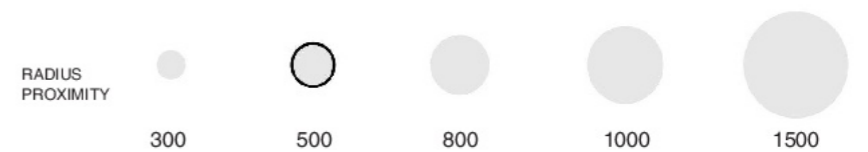
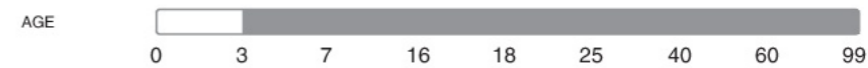
FUNCTIONAL CONTENT

Books rent  
 Reading room  
 Working place  
 Lectures, seminars, round tables and creative meetings

Barcelona



Biblioteca Camp de l'Arpa-Caterina Albert



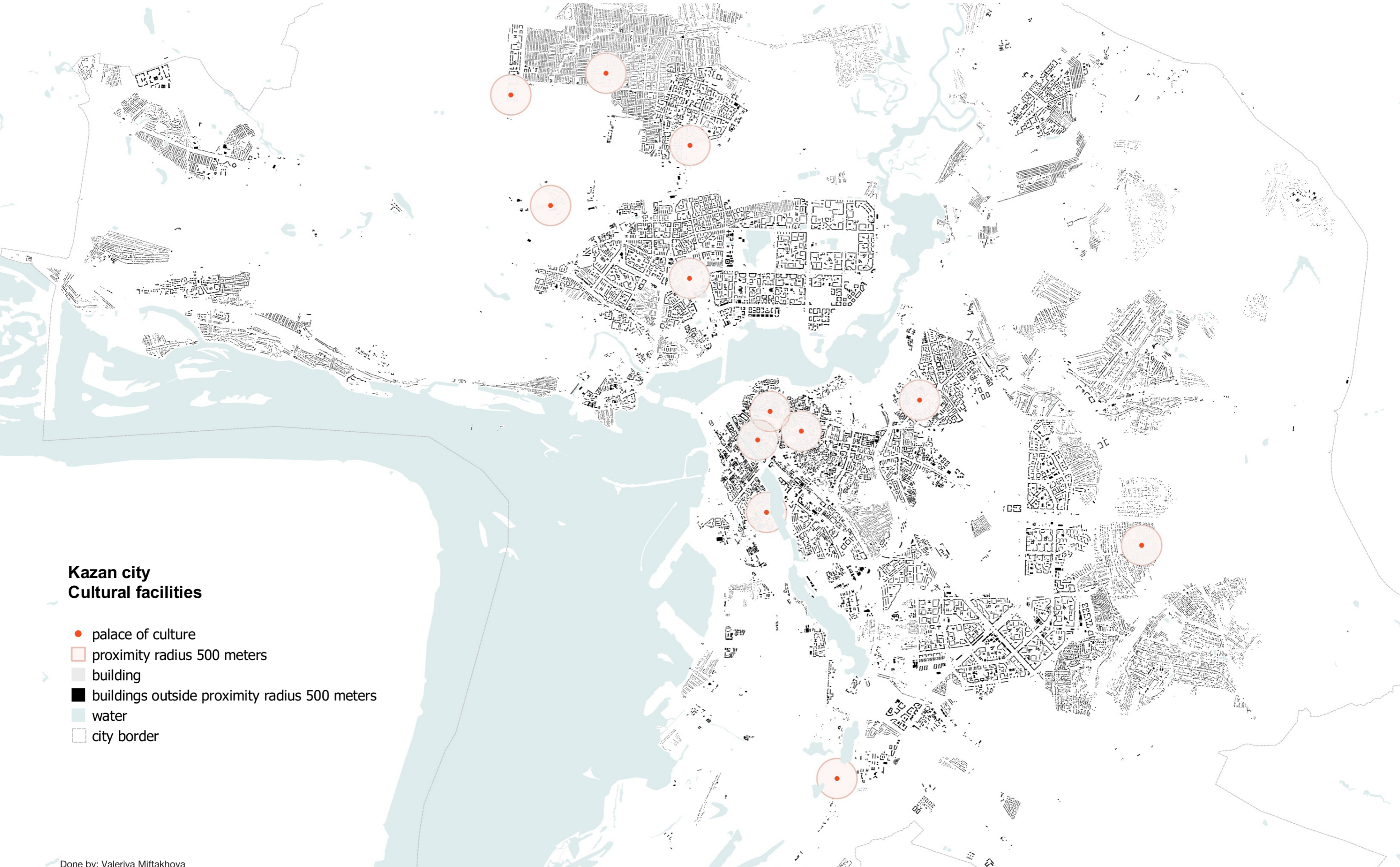
FUNCTIONAL CONTENT

Books rent  
 Reading room  
 Working place  
 Place for lectures, seminars, round tables and creative meetings  
 Multimedia classes, auditoriums and multi-purpose halls  
 Services for people with special needs

Done by: Valeriya Miftakhova  
 Academic director: Vicente Guallart  
 Program coordinator: Nadezhda Khort  
 Curator of the project: Elena Mitrofanova

# Proposition of the pedestrian availability of cultural centers in Kazan on 2017 year

Graduate .....  
School .....  
of Urbanism ...



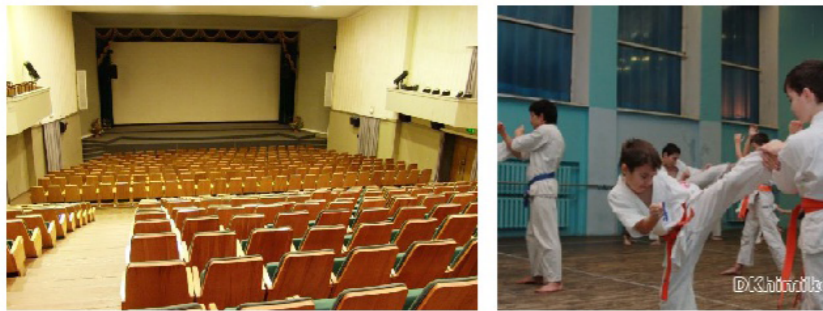
### Kazan city Cultural facilities

- palace of culture
- proximity radius 500 meters
- building
- buildings outside proximity radius 500 meters
- water
- city border

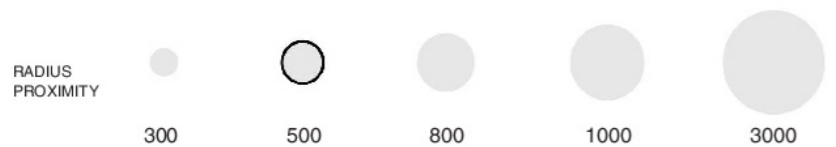
Done by: Valeriya Miftakhova  
Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

# Local palaces of culture

Kazan



Central Children's Library



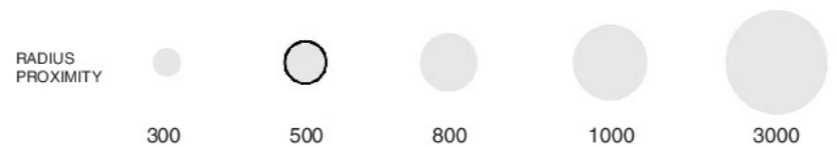
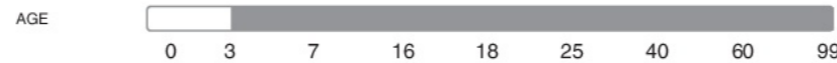
FUNCTIONAL CONTENT

Studios: choreography, karate, music, vocal  
Concerts for inhabitants  
Exhibition and sale of fur products and honey  
Rent of banquet hall  
Driving school

Moscow



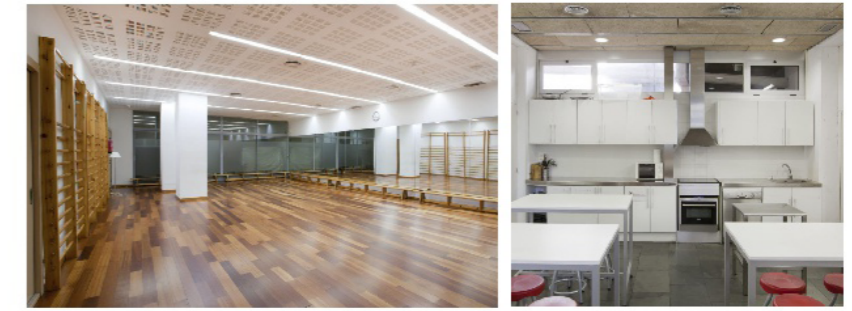
Cultural Center named after I. Astakhov



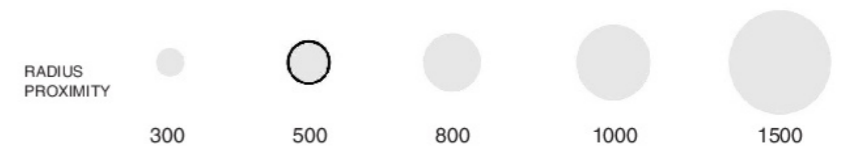
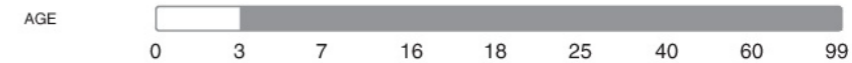
FUNCTIONAL CONTENT

Studios: theater, vocals, choreography, fire mastery, circus art, gymnastics and acrobatics,  
capoeira, yoga, visual arts, drummers, decorative and applied creativity, foreign language  
Exhibitions  
Theatrical and musical concerts

Barcelona



Ateneo Fort Pienc Civic Center

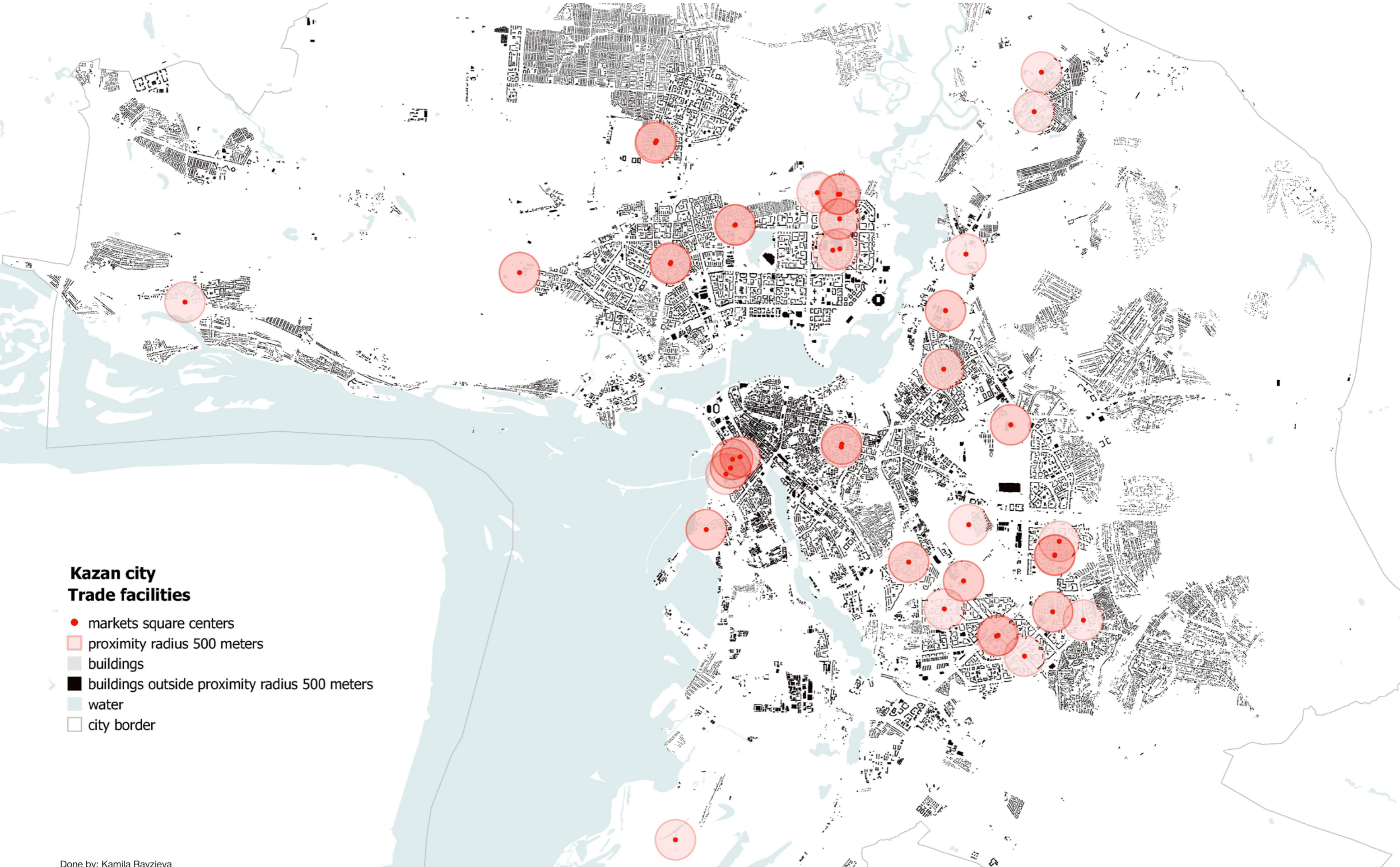


FUNCTIONAL CONTENT

Studios: creativity, expression, gastronomy, humanities and social sciences,  
resources, health and growth, family seminars  
Movies and music  
Exhibitions  
Concert  
Sports halls  
Give residential

# Proposition of the pedestrian availability of local markets in Kazan on 2017 year

Graduate .....  
School .....  
of Urbanism ...



## Kazan city Trade facilities

- markets square centers
- proximity radius 500 meters
- buildings
- buildings outside proximity radius 500 meters
- water
- city border

Done by: Kamila Ravzieva  
Academic director: Vicente Guallart  
Program coordinator: Nadezhda Khort  
Curator of the project: Elena Mitrofanova

# Local markets

Kazan



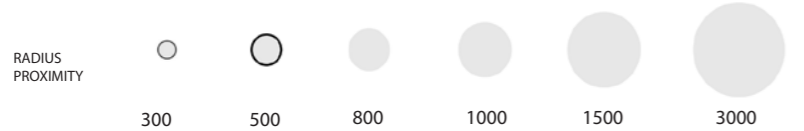
Chehovski Market



Agropark Market



Novaya Tura Market



FUNCTIONAL CONTENT

Local and Import retail commerce

Moscow



Semenovskaya Trade Fair



Danilovski Market



Usachevski Market



FUNCTIONAL CONTENT

Local and Import retail commerce  
 Food courts  
 Social Services  
 Health Life Style and Food

Barcelona



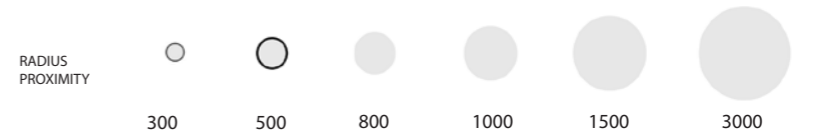
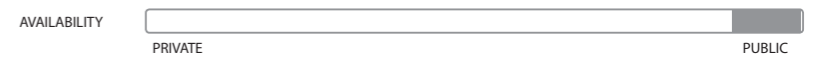
Santa Caterina



Encants Vells



La Boqueria

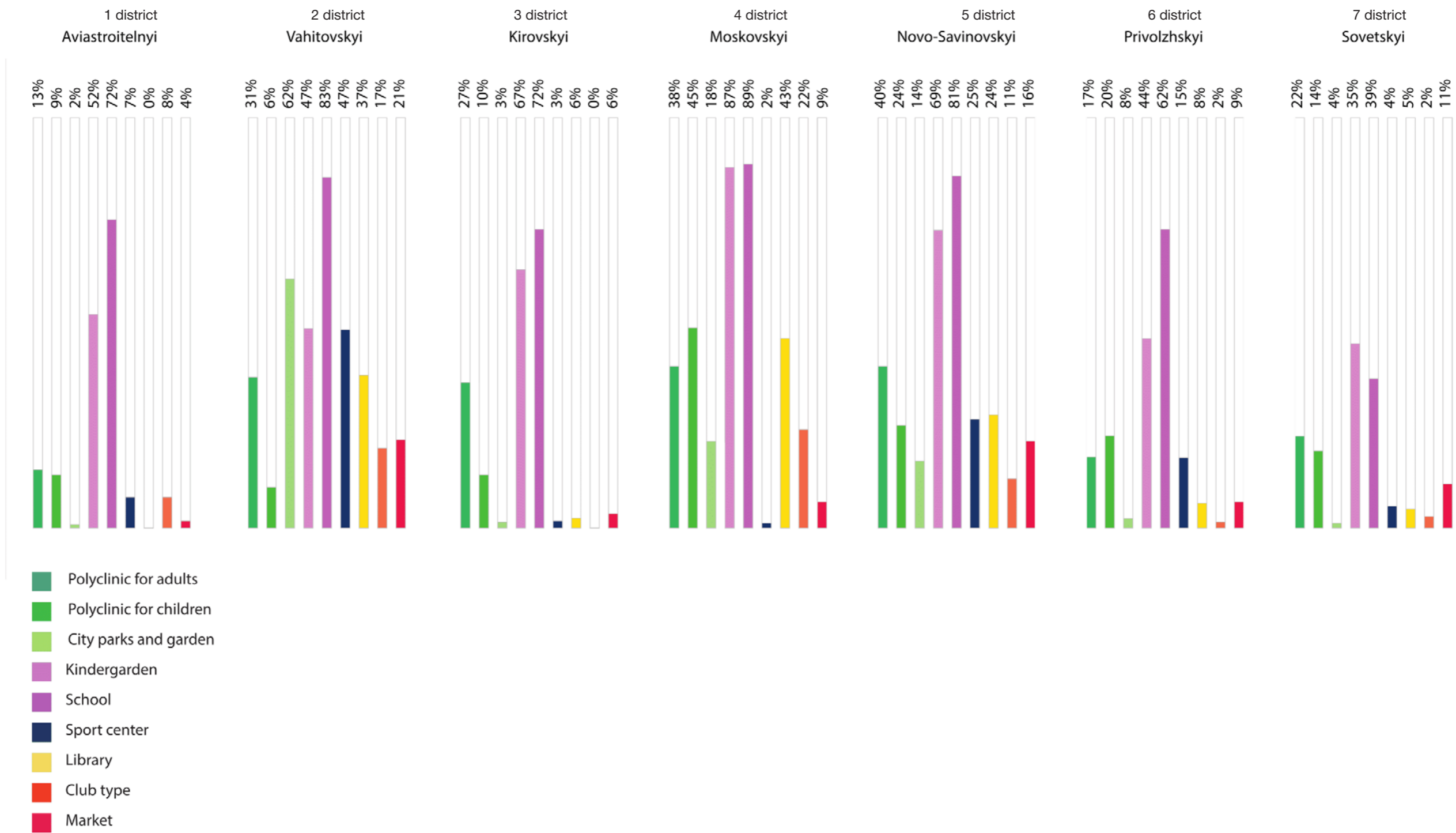


FUNCTIONAL CONTENT

Local retail commerce  
 Social&Cultural Services  
 Health Life Styles and Food  
 Tourism Attraction  
 Improvement of Public Realm  
 Economic&Ecological Added Values  
 Job creation

# Percentage of facilities provision with the pedestrian access in the residential areas

· Graduate .....  
 · School .....  
 · of Urbanism ...





## **Park facilities**

There is a shortage of local daily parks in proximity radius. Aviostroitelny, Kirov, Privolzhsky and Soviet districts are almost not provided such local parks (2-8%). Moscow and Novosavinovsky are low-income (less than 50%), Vakhitov district is provided enough local parks (60%).

## **Educational facilities**

The number of kindergartens and schools is above the average in all city areas (60-90 percent), but there is lack of their in the suburbs (villages).

## **Sport facilities**

Currently Kazan is well provided with different types of sport centers. But most of the centers have city or district scale. There is lack of sport centers in Moskovskiy and Kirov districts. Generally there are not enough local sport centers to provide citizens with sports facilities in pedestrian accessibility.

## **Trade facilities**

The Kazan provided with trade facilities almost equally spaced between district but mostly the trade facilities are located near the residential areas that are concentrated in Moskovskiy, Novo-Savinovskiy and Sovetsky district. The markets square are concentrated respectively in these districts as well. But there are lack of the of market squares at local scale for Kazan city in general.

## **Cultural facilities**

The Kazan has well developed cultural facilities at the city scale. A large number of museums, theaters and concert halls, which, however, are mainly located in the central part of the city. Local facilities libraries and cultural centers serve a small part of the population in pedestrian accessibility. Soviet, Aviostroitelny, Kirov and Privolzhsky are almost not serviced by local facilities from 0 to 11%. Vakhitovsky Moscow and Novosavinovsky are serviced in part from 9 to 37%.

## **Healthcare facilities**

Polyclinics are one of the main facilities, which serve citizens on an everyday basis. According to Russian standards, the proximity radius of the polyclinic is 1000 meters, which does not correspond to pedestrian accessibility. Applying to the existing Kazan adult polyclinics a proximity radius of 500 meters, which corresponds to the international standards of pedestrian accessibility, we can draw the following conclusions: Novo-Savinovsky, Moskovsky and Vakhitovsky districts are most provided with adult polyclinics, their security is equal to 40, 38 and 31 percent, respectively, at the same time the most unsecured areas are the Aviastroitelnyi, Privolzhsky and Sovetsky districts with 13, 17 and 22% respectively. Applying to the existing Kazan children's polyclinics a proximity radius of 500 meters, which corresponds to the international standards of pedestrian accessibility, we can draw the following conclusions: The Moskovskiy, Novo-Savinovsky and Privolzhsky districts are most provided with children's polyclinics, their availability is 46,24 and 20 percent, respectively, at the same time the most unsecured areas are Vakhitovsky, Aviastroitelny and Kirovsky districts with the percentage of availability equal to 6, 9 and 10% respectively.

**Thanks for your attention!**

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