DEVELOPMENT OF PROTECTED NATURAL AREAS IN THE MEGAPOLICES BASED ON COMPLEX MAP ANALYSIS VERONIKA A. SHCHEKOTOVA, GENPLAN INSTITUTE OF MOSCOW,

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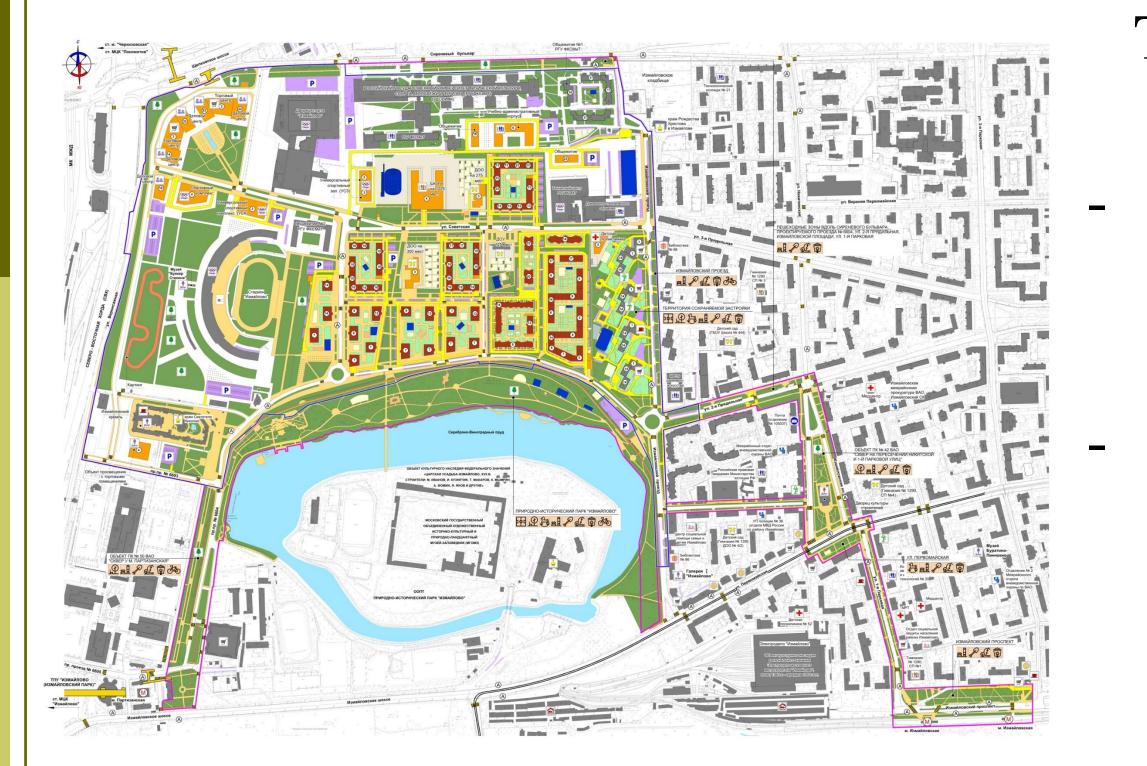
I have been working at the **State Autonomous Institution** «**Research and Project Institute of General Planning for the City of Moscow**», (**Department of natural territories**) since the 2010.

Research and Project Institute of General Planning for the city of Moscow has specialized in a **territory planning** for more than 60 years. During these years the Institute has made notable contributions to the **urban development of Moscow city**, Moscow Region and other **cities of the Russian Federation**.

One of the main tasks of sustainable city planning is **the preservation and creation of conditions for the development of natural and green areas of the Natural Complex** of the city of Moscow.



THE MAIN AREAS OF MY WORK



The main areas of my work are:

development of the master plan materials (section natural areas);

development of projects for planning especially protected natural territories and green areas, schemes of development and preservation of specially protected natural areas.

GEOGRAPHIC INFORMATION SYSTEMS IN TERRITORIAL PLANNING

BASE UNIT

Geographical basis:

vector data:

roads, building, water, urban planning regulation lines, administrative division **raster data:** aerial photography materials

SPECIAL UNIT

Natural areas of Moscow:

vector data:

boundaries of natural areas, SPNT

raster data:

plans, maps of natural objects

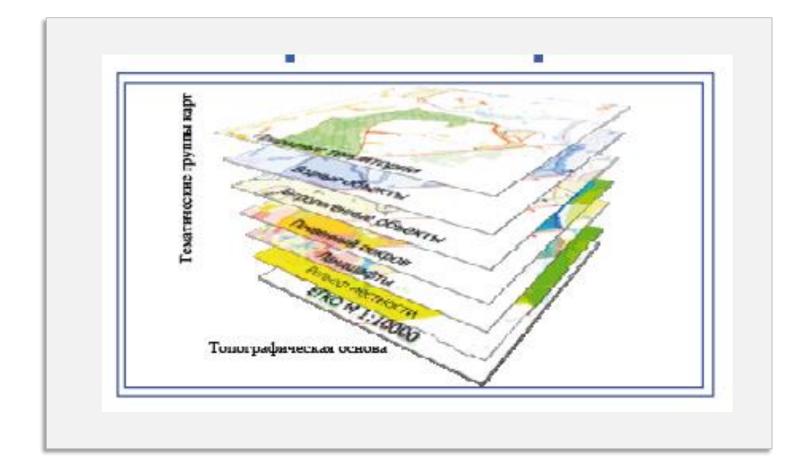
attribute data

THEMATIC UNIT

Thematic layers existing:

- use of territory
- town planning regulations
- engineering communication
- geological conditions and processes

DECISION MAKING UNIT



HISTORICAL DEVELOPMENT OF THE NATURAL FRAMEWORK OF MOSCOW

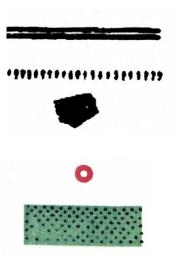
General Development Plan of Moscow, 1935



- Surgeon 1000
- residential quarter
- current border of Moscow
- projected border of Moscow
- and the
- green spaces

General scheme of Moscow Landscaping, 1975

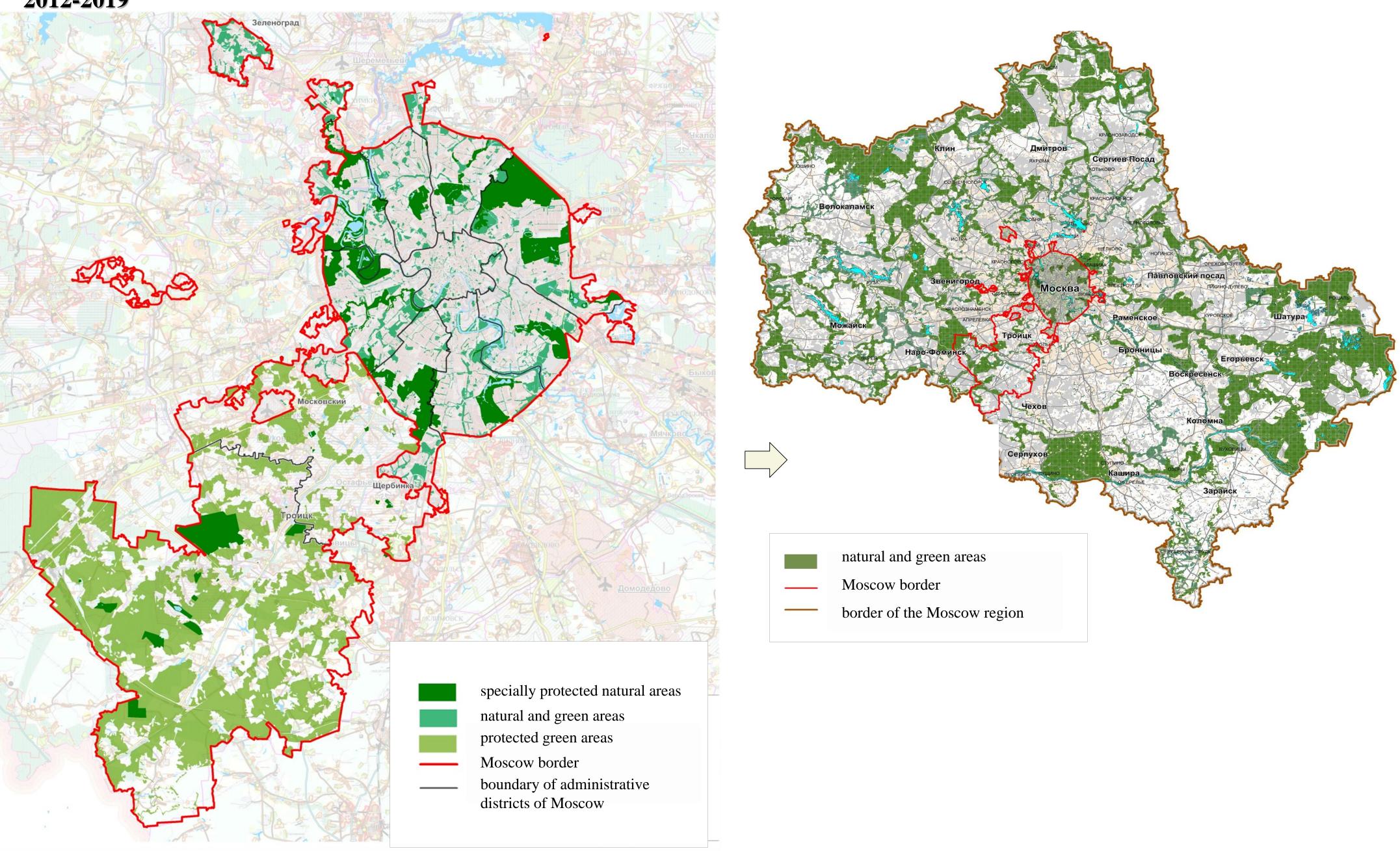




- boundaries of planning zonesboundaries of planning areas
- urban community centers
- planning solution centers
- green spaces

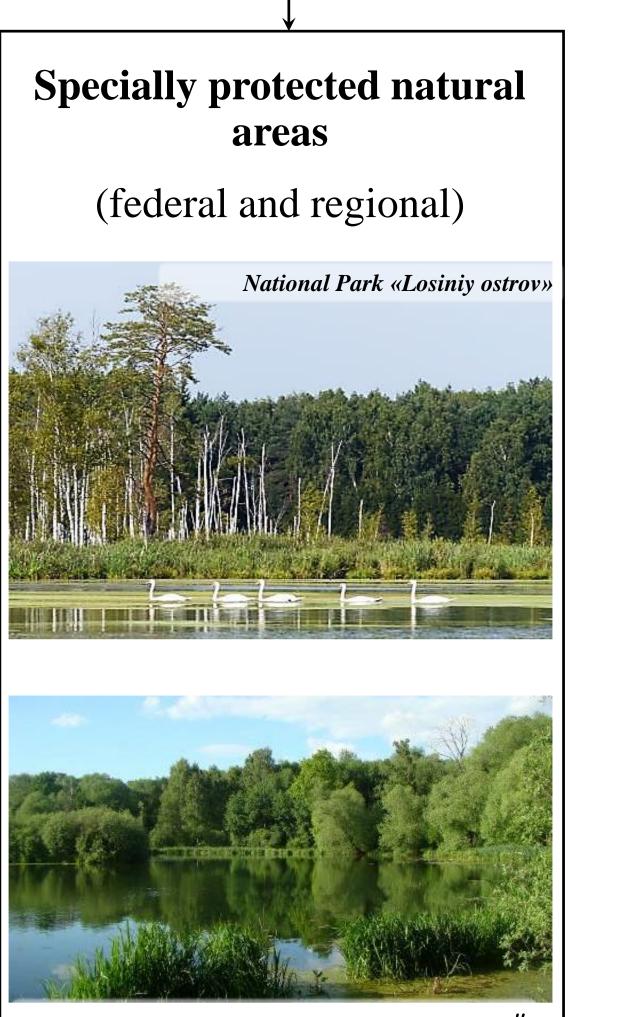
TERRITORIES OF NATURAL ECOLOGICAL FRAMEWORK OF MOSCOW WITH LEGAL STATUS

2012-2019



COMPLEX OF NATURAL AND GREEN AREAS OF MOSCOW

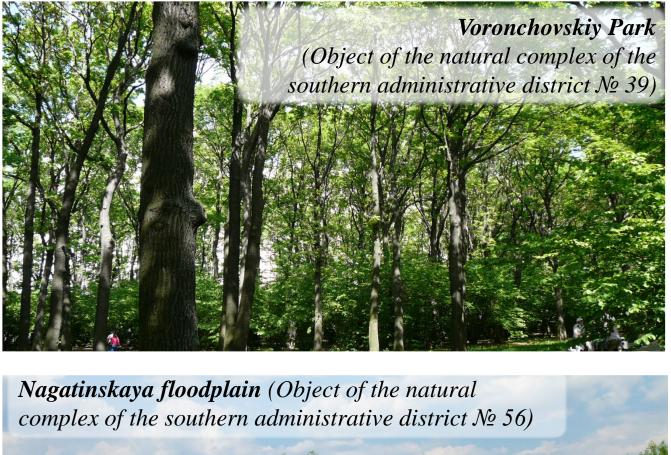
The complex of natural and green areas of Moscow includes (in accordance with the current legislation):



Natural Historical Park "Pokrovskoe-Streshnevo"

Natural areas (including specially protected green areas)

they have environmental, naturerecreational, environmental protection and other natural qualities, but are not classified in a specially established natural protected areas



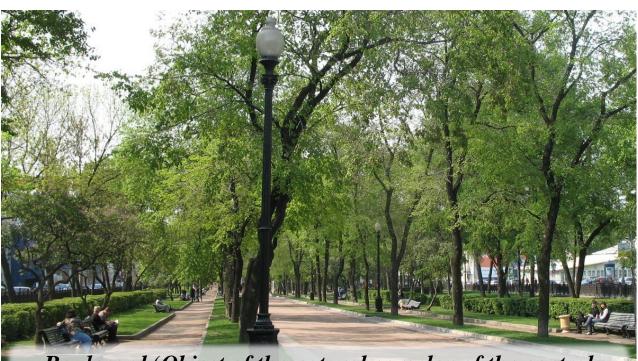


Green areas:

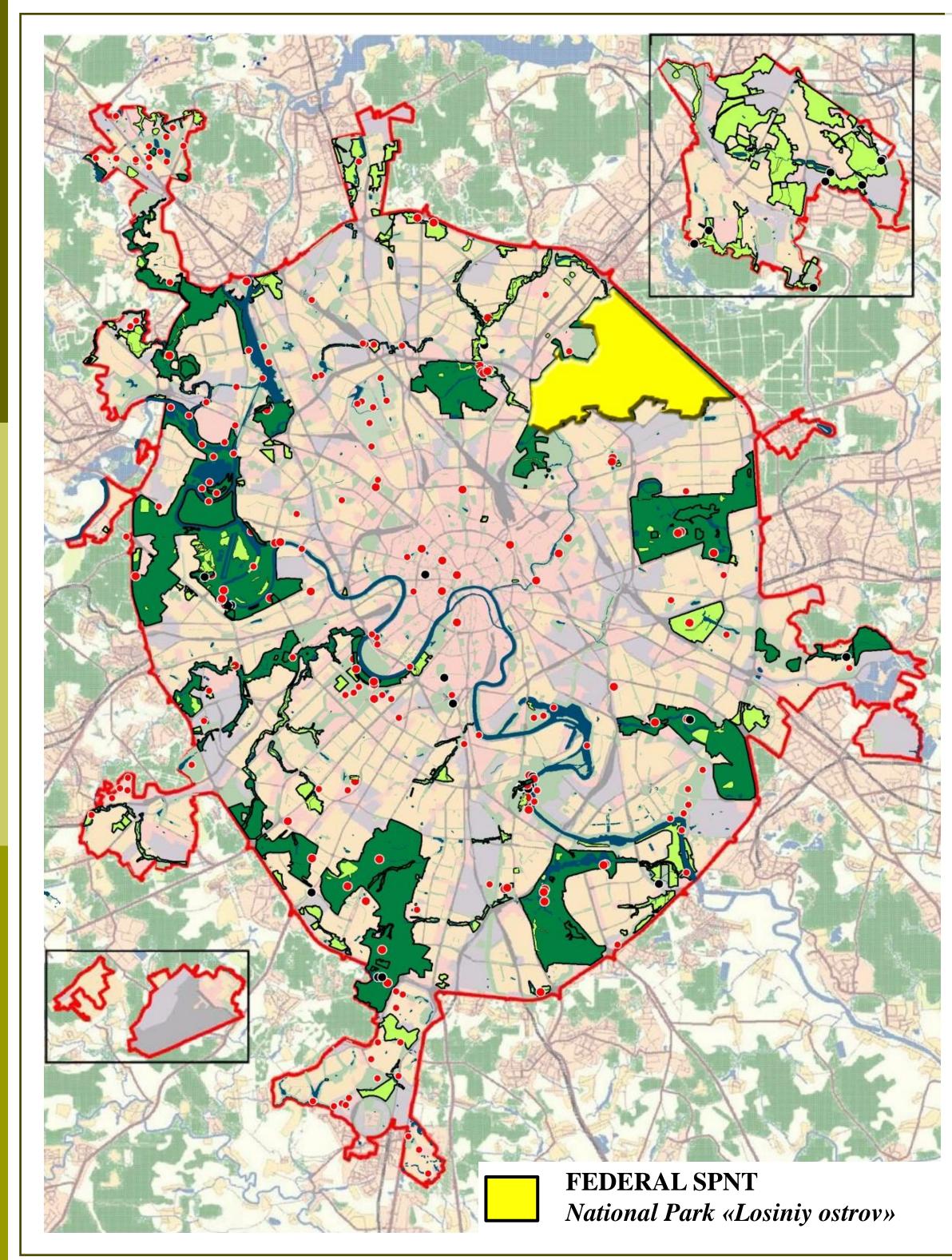
- common use;
- limited use;
- special purpose



Square (Object of the natural complex of the western administrative district № 122)

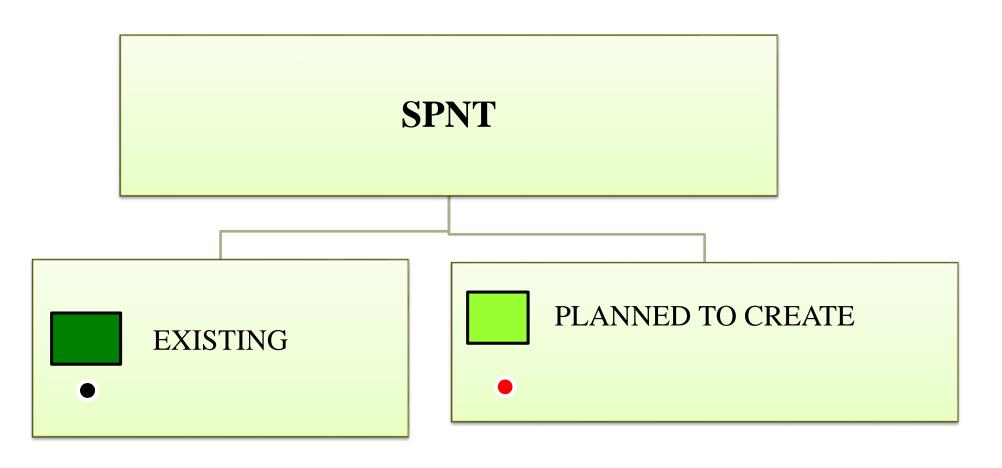


Boulevard (Object of the natural complex of the central *administrative district* № 232)



SCHEME OF DEVELOPMENT AND PLACEMENT OF SPECIALLY PROTECTED NATURAL TERRITORIES (SPNT) IN THE CITY OF MOSCOW (within the borders of Moscow until July 1, 2012)







- GIS are the basis for planning of natural areas of the Moscow region. GIS accumulate, systematize, process and maps-visualize large amount of information.
- GIS allow to use a seamless approach for different scales: from small parks to urban gardening in general.
- The obtained and map-visualized results allow you to track the most valuable natural areas, to keep records of their biodiversity and to analyze in real time the processes occurring in these territories.
- The results obtained are used to update the General Plan of Moscow within its new borders and ensure the rational development of territories.

Thanks for attention!

