



**National geoportal – a center
for interaction between
government organizations and
society based on spatial data**

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Legal basis of the National Geoportal

Statute of the Republic of Belarus “On Geodetic and Cartographic Activities” dated July 14, 2008 No. 396-3 (as amended on December 13, 2021)

- **The National Geoportal** is a state information system that serves as a common access point to the services of the NSDI, the interface of which provides user access to information for searching for feature datasets and services for these datasets by their metadata, as well as other functions in accordance with the purpose of this information system and its target audience



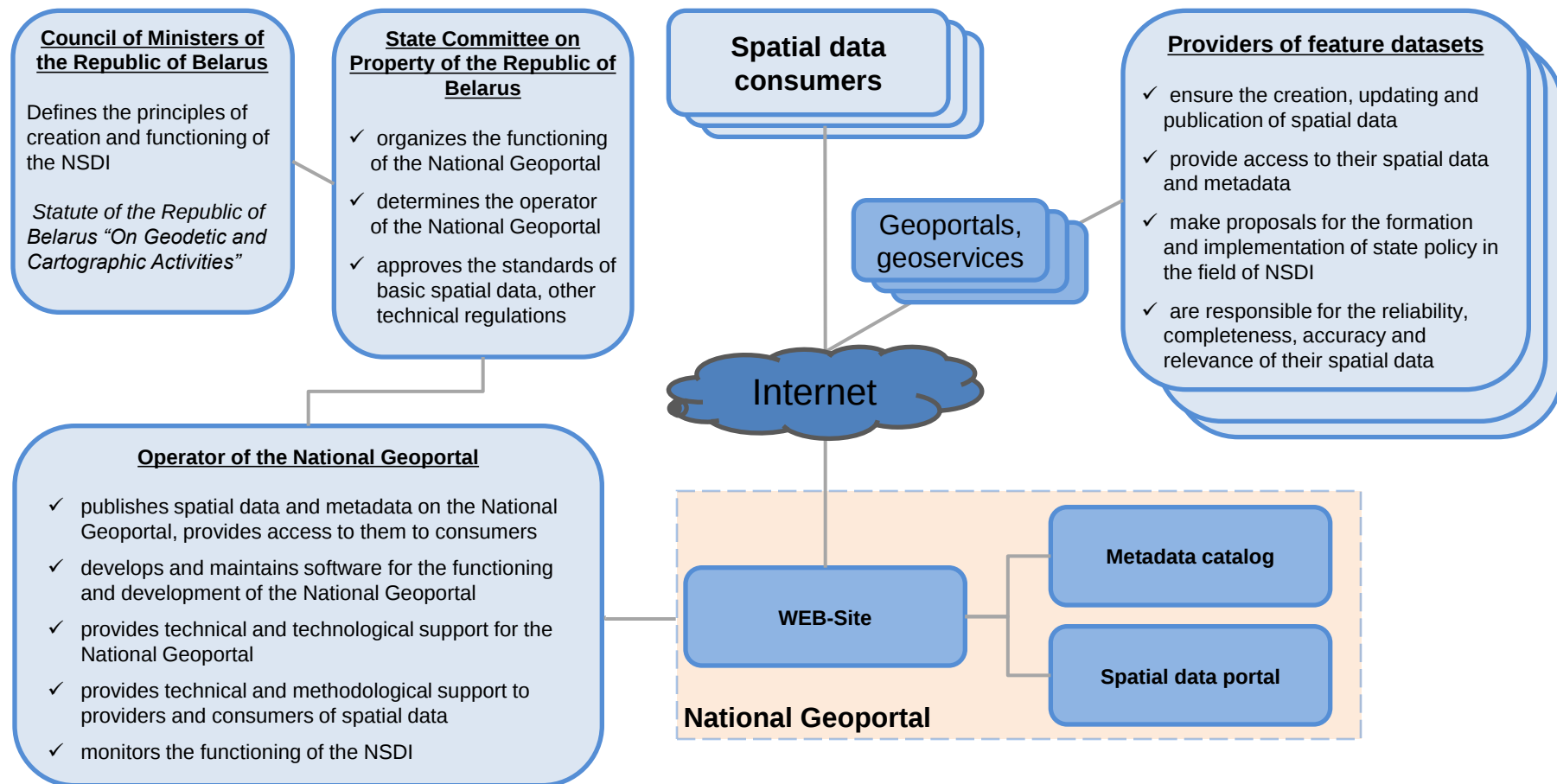
Act of Council of Ministers dated January 16, 2024 No. 32 :

- Regulations on the National Geoportal
- Regulations on the procedure for providing for use and using sets of basic feature datasets and of thematic feature datasets from the list of mandatory feature datasets
- List of mandatory feature datasets, their provider, the composition of information included in such sets, update periods
- List of feature datasets, the distribution and (or) provision of which is limited and which are not subject to open publication

Developed:

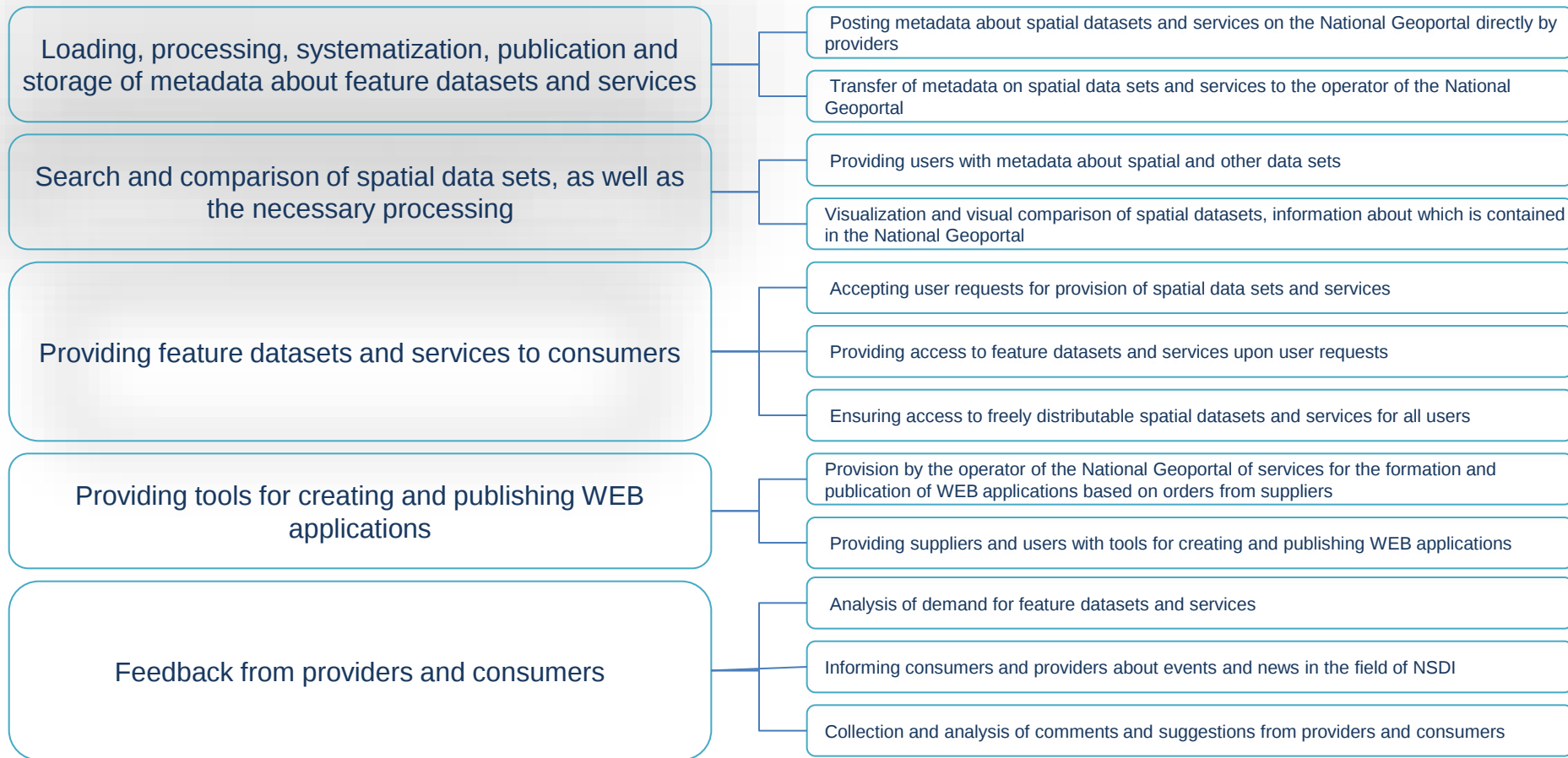
4 instructions, 5 technical codes of good practice (**TCP**), 3 geodetic cartographic norms and rules(**GCNR**)

National Geoportal in the organizational structure of the NSDI



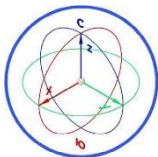


Main functions of the National Geoportal

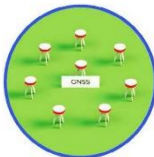


Composition of mandatory feature datasets

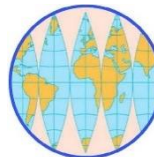
Basic feature datasets



Reference systems for coordinates, heights, and gravimetric measurements used in the territory of the Republic of Belarus



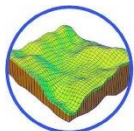
Geodetic points



Map projections



Materials and data of remote sensing of the Earth



Digital Model Elevation



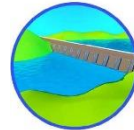
State border of the Republic of Belarus



Administrative-territorial units and territorial units of the Republic of Belarus (names and borders)



Names of geographical objects



Hydrographic objects, including hydraulic structures



Transport networks and transport infrastructure facilities



Vegetation cover



Addresses, including names of elements of the street and road network



Land parcels



Types of land



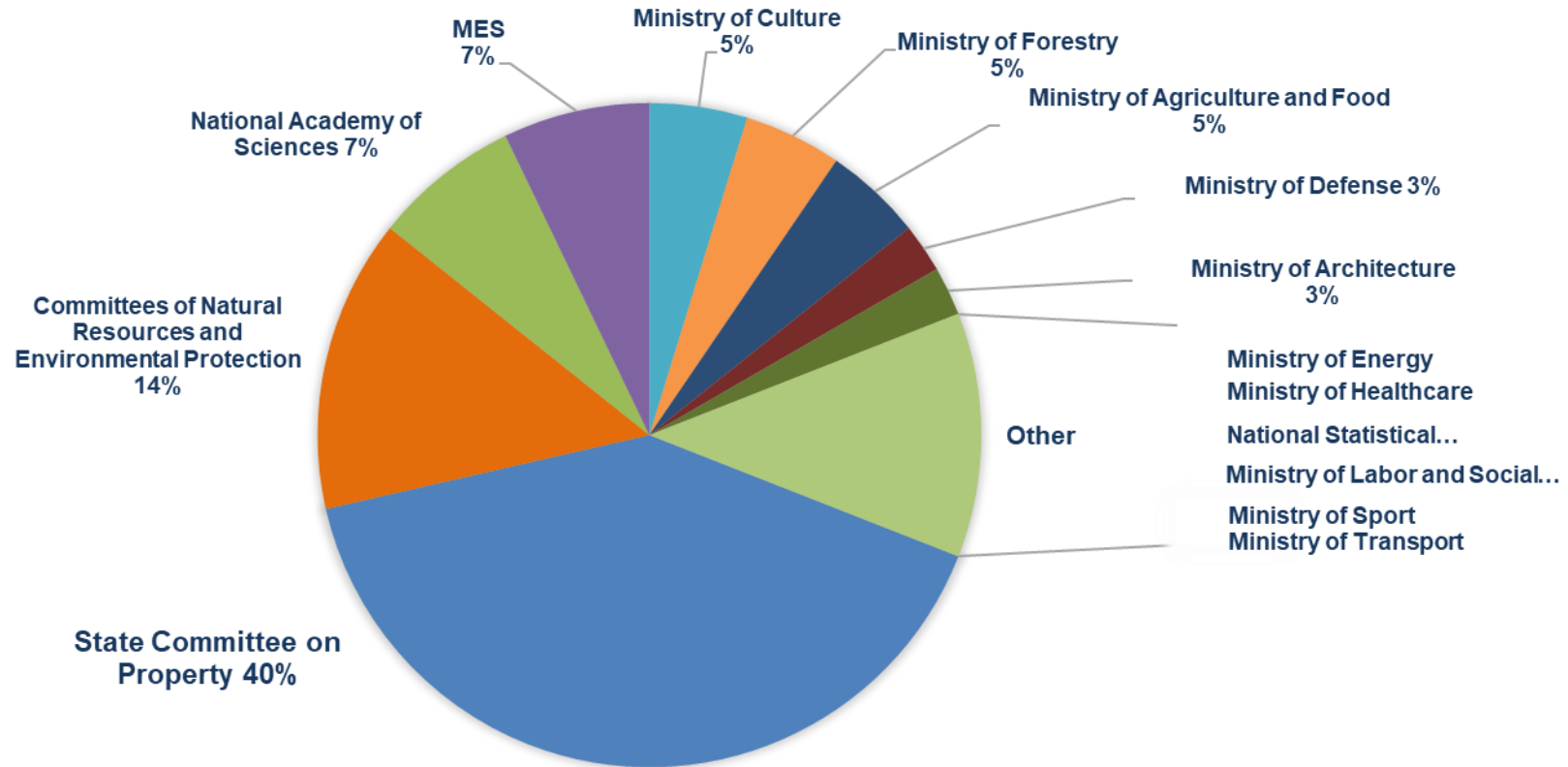
Territories of special use regime



Capital structures (buildings, structures), including utility lines



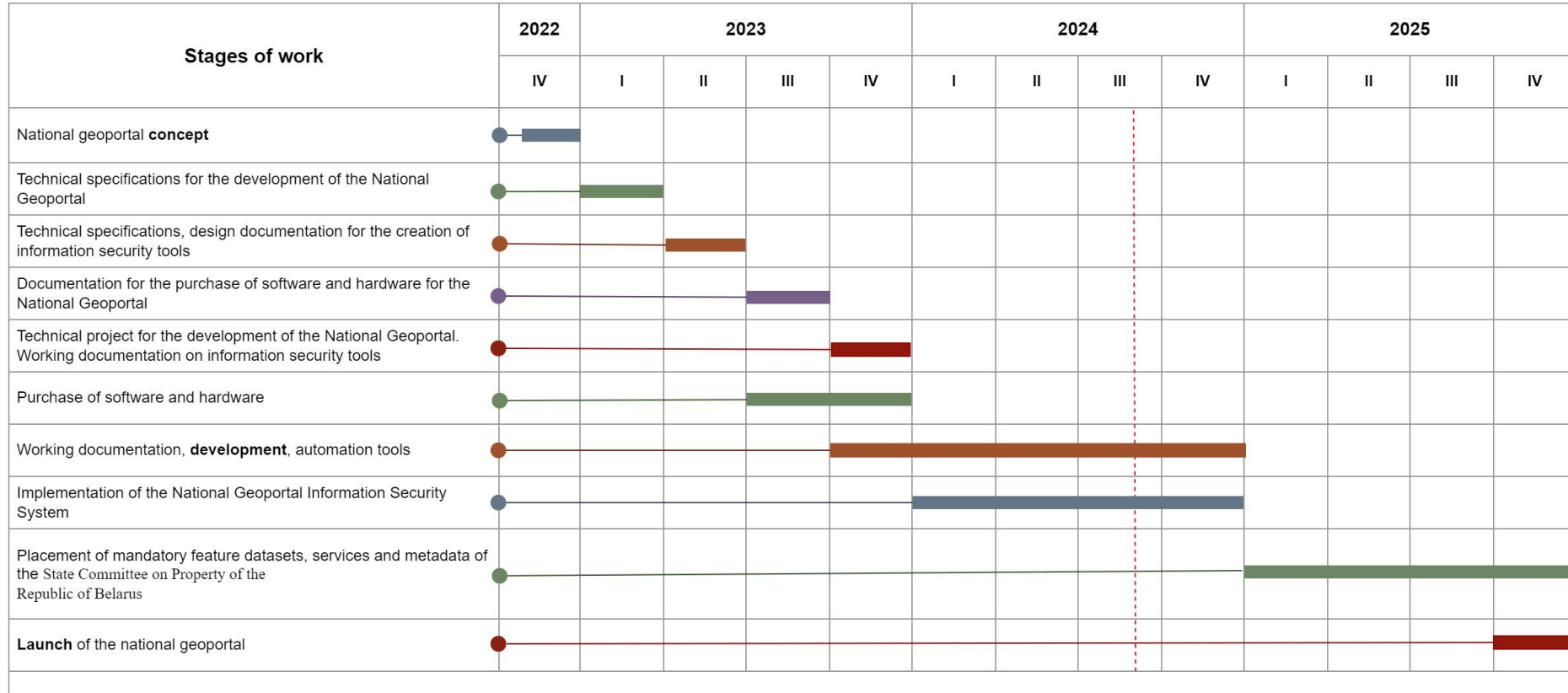
Mandatory spatial datasets supplied by government bodies



in accordance with Act of Council of Ministers dated January 16, 2024 No. 32

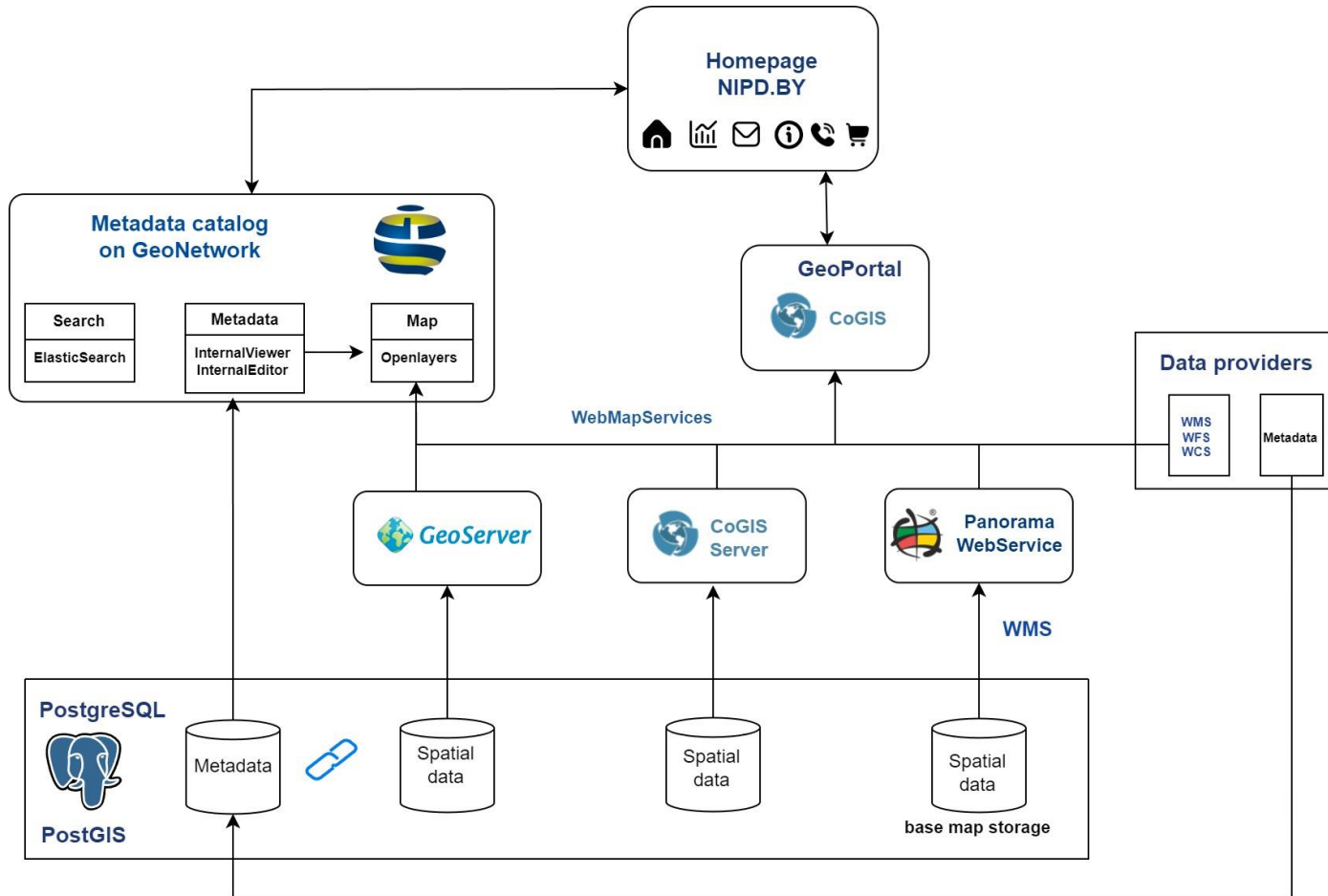


Stages of development of the National Geoportal



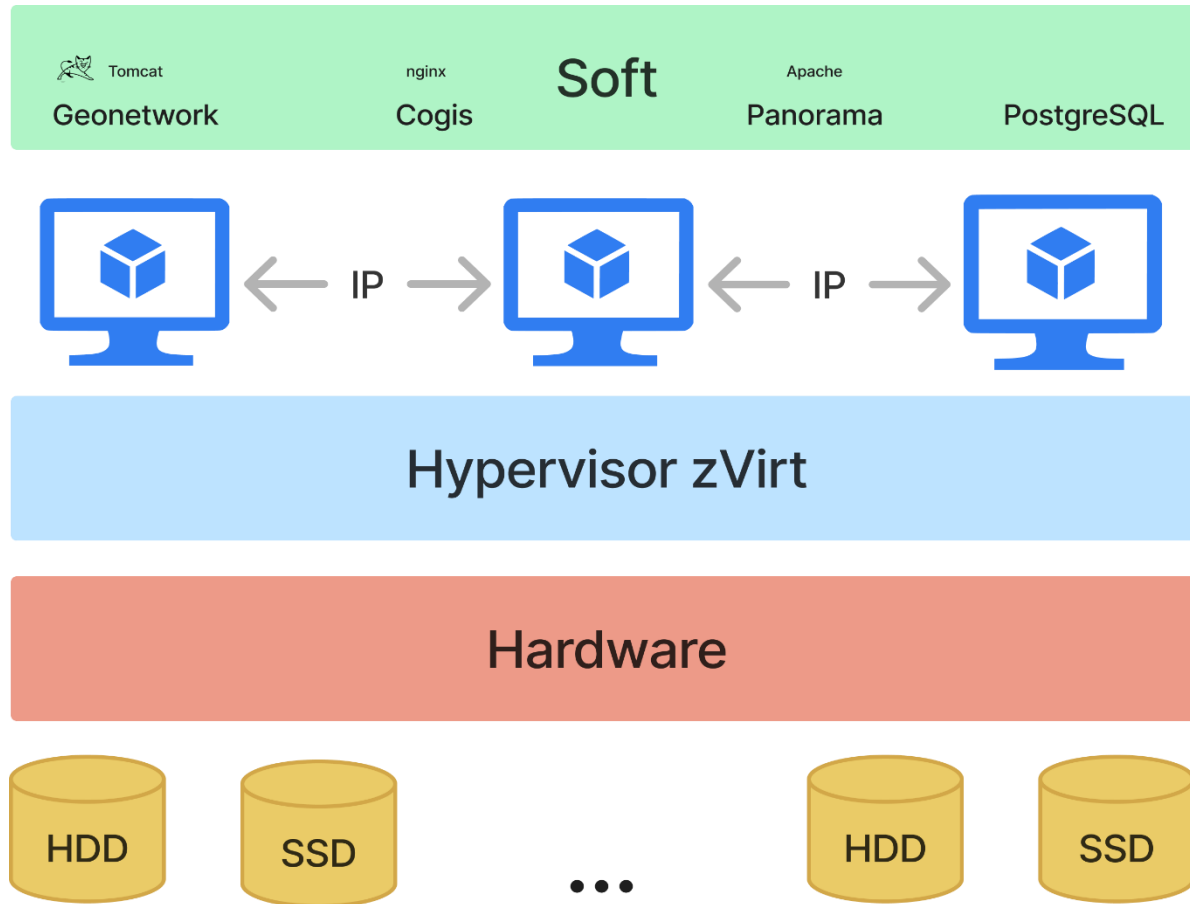


Conceptual diagram of the National Geoportal software



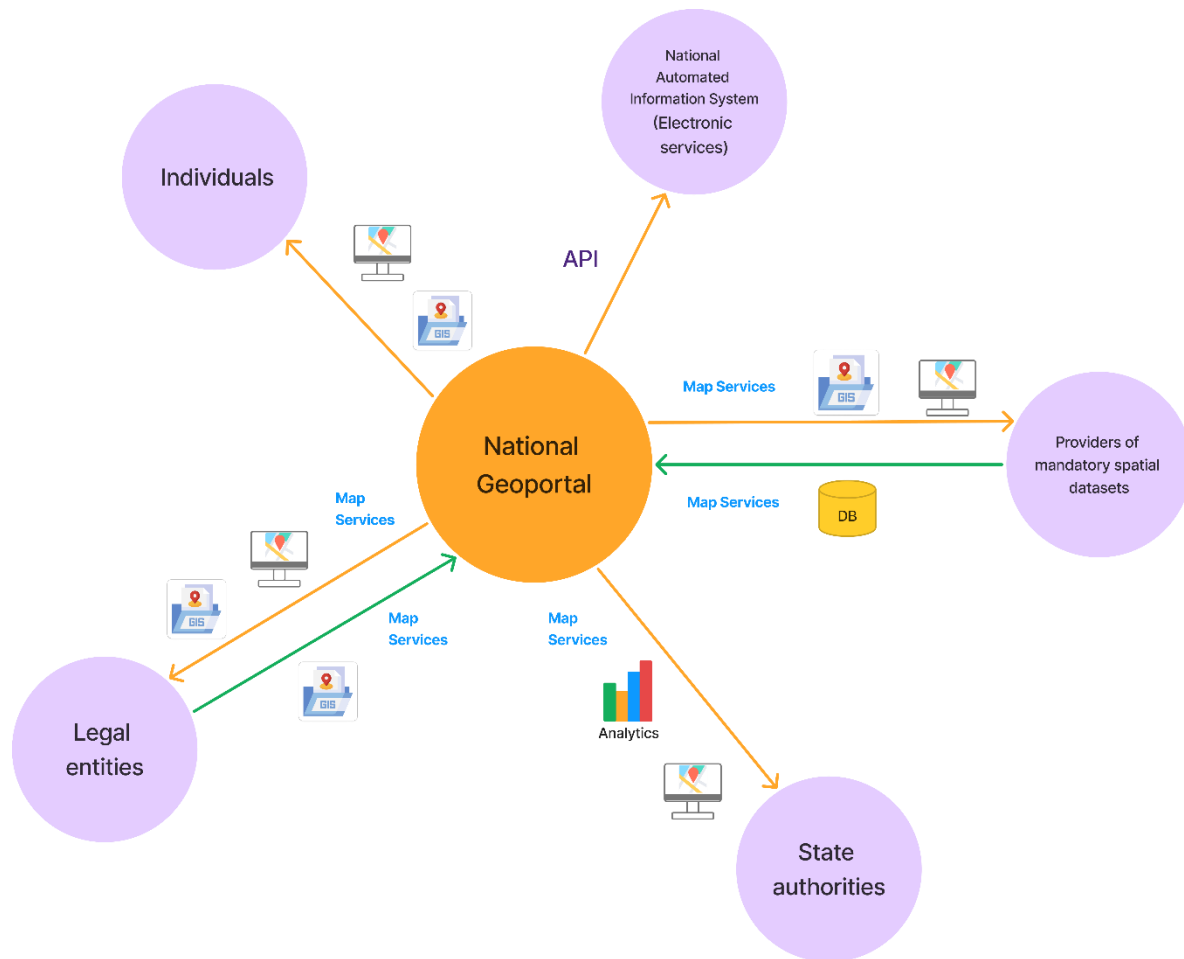


Scheme of virtualization of physical computing resources



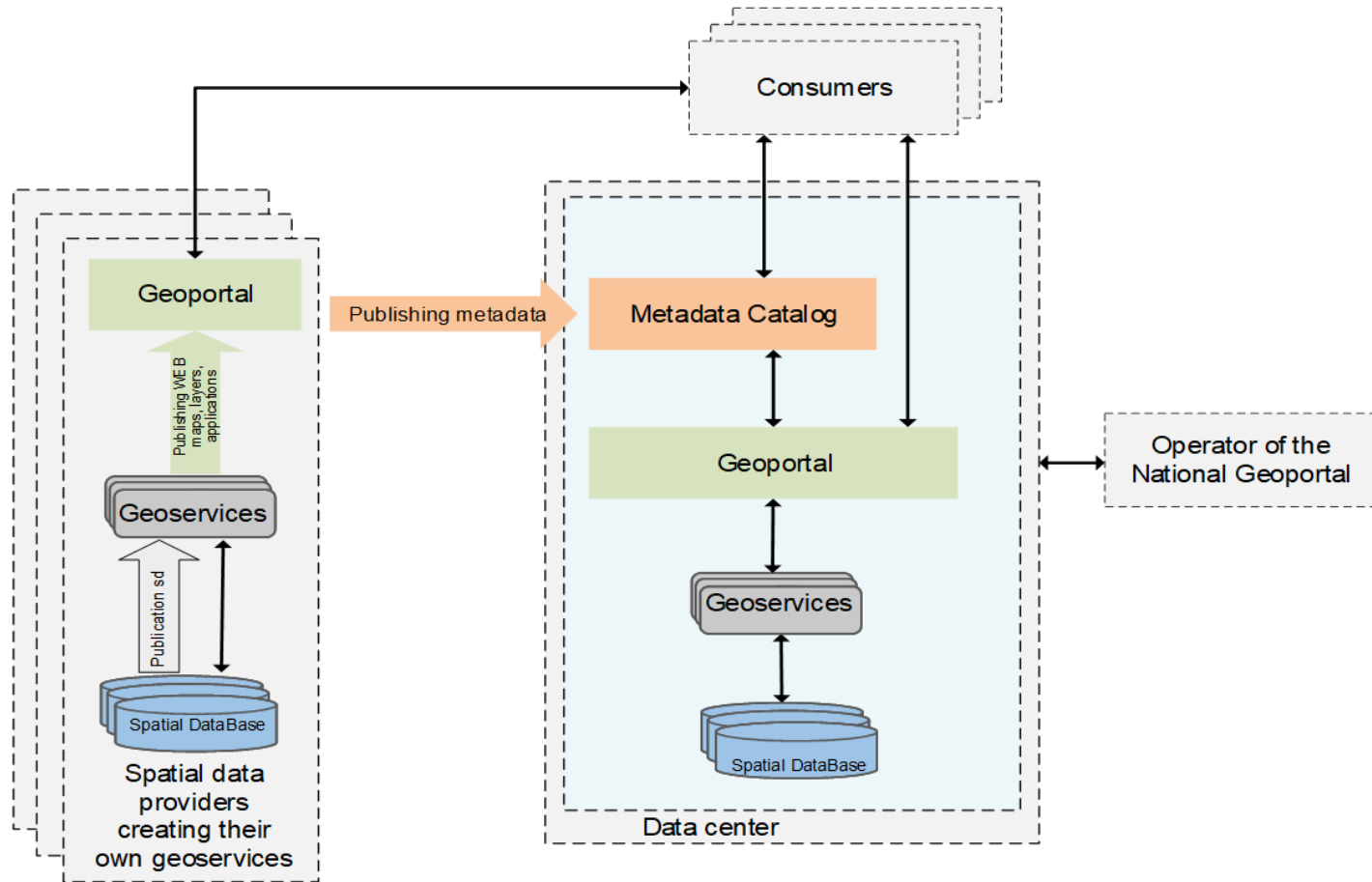


Scheme of interaction between consumers and providers with the National Geoportal



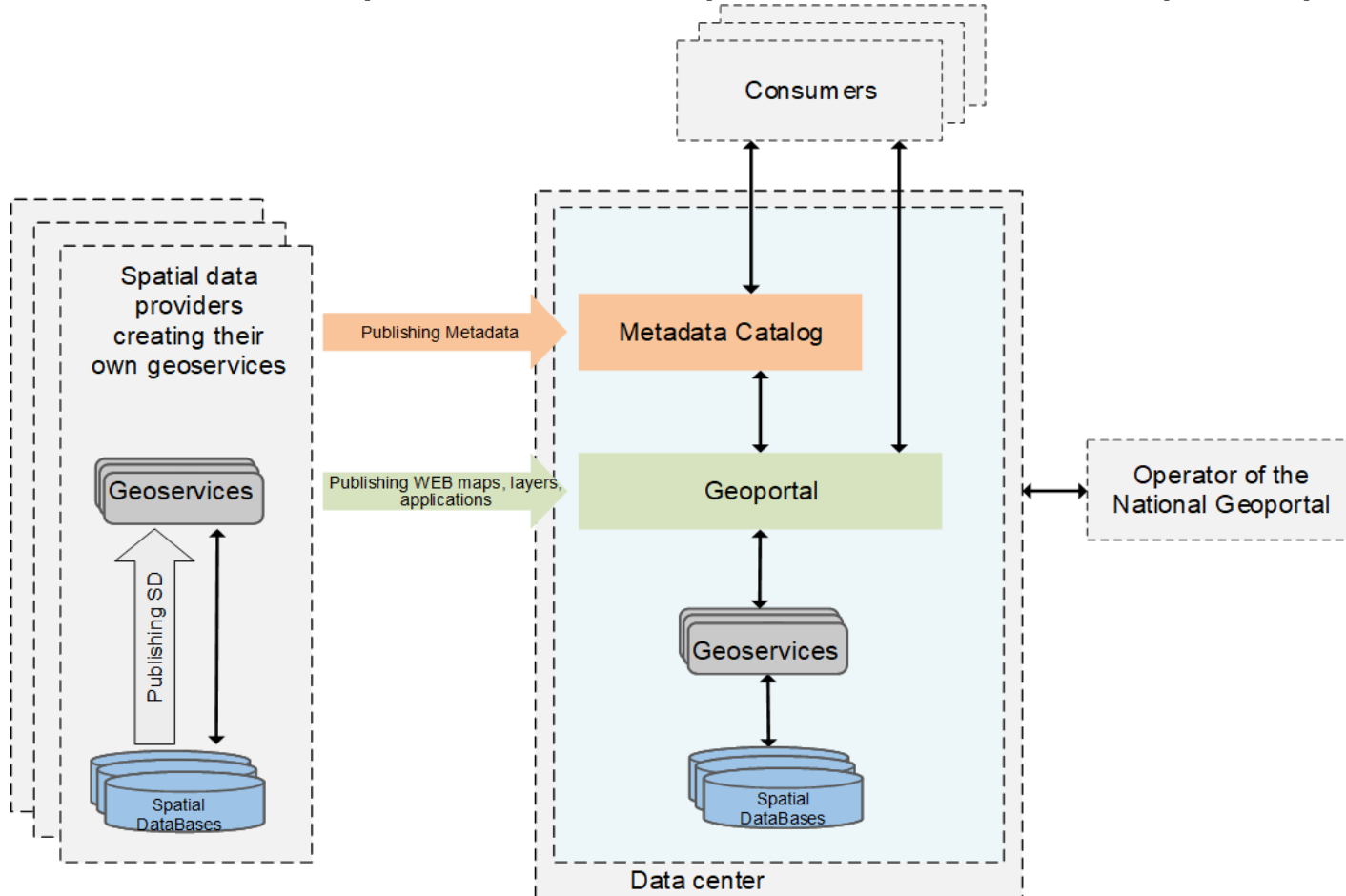


Organizational scheme of information interaction between providers and consumers of spatial data and the operator of the National Geoportal, option 1



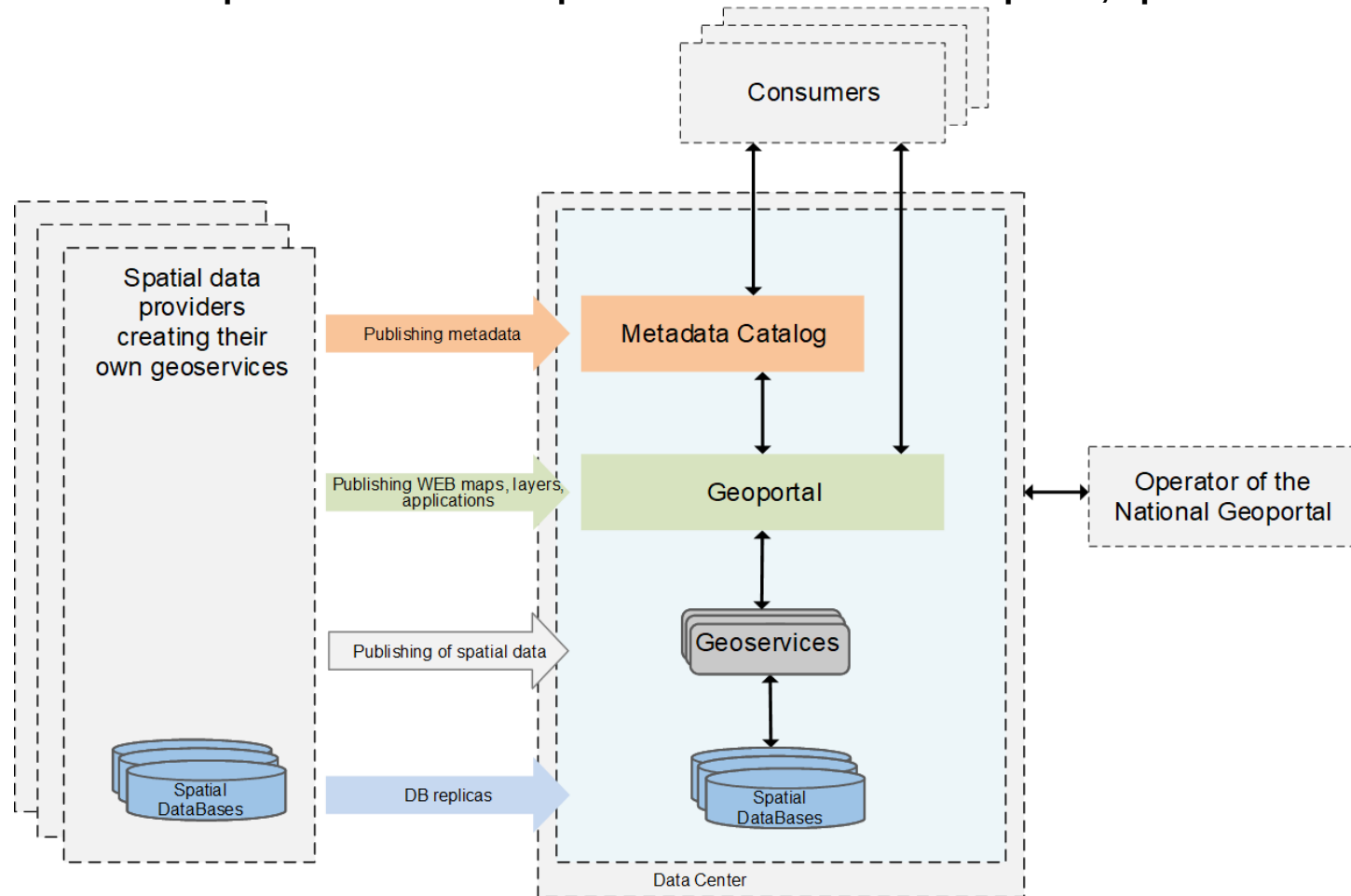


Organizational scheme of information interaction between providers and consumers of spatial data and the operator of the National Geoportal, option 2



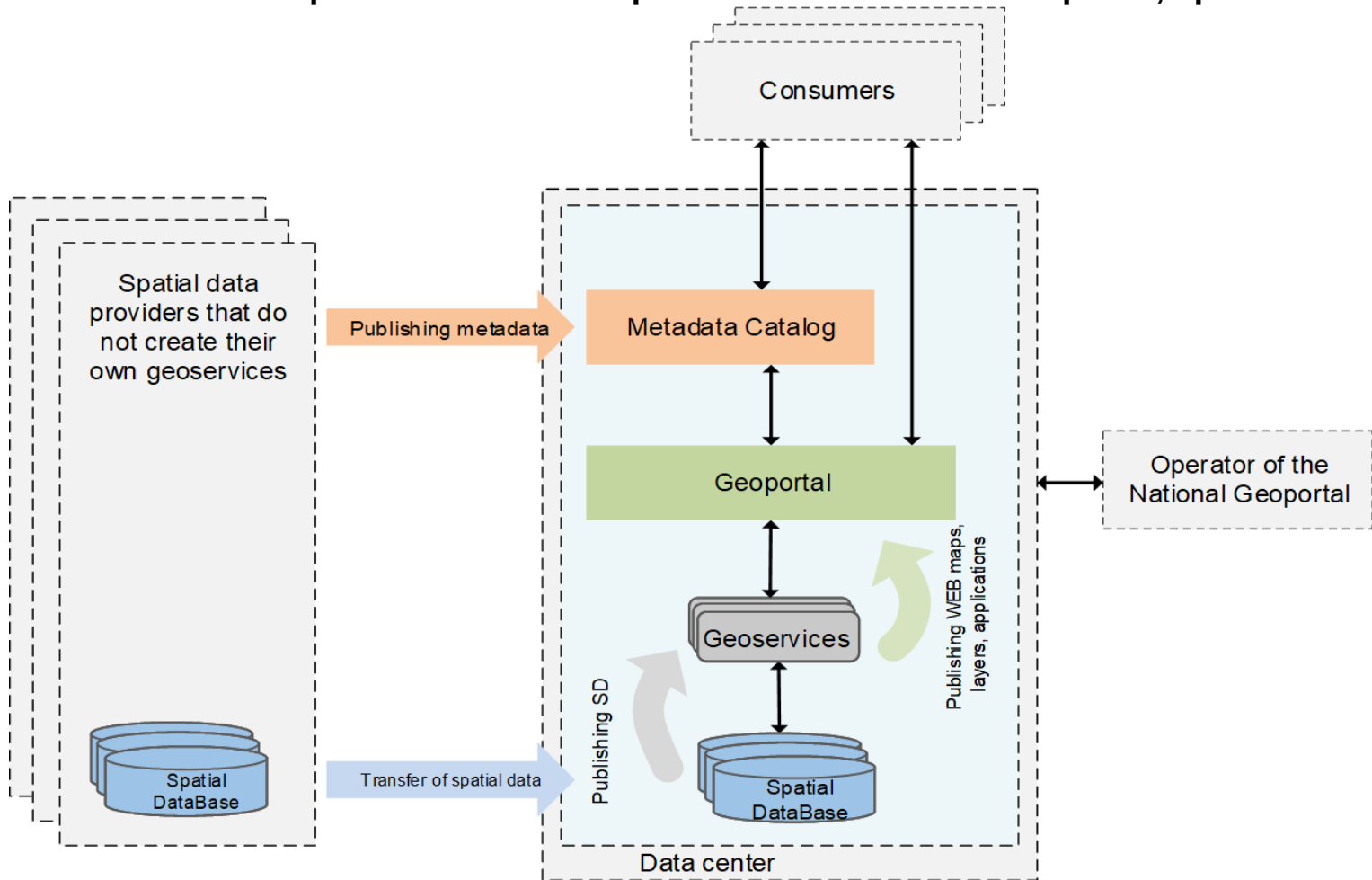


Organizational scheme of information interaction between providers and consumers of spatial data and the operator of the National Geoportal, option 3





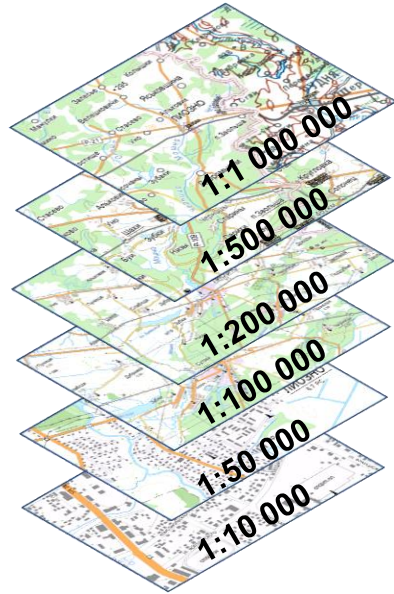
Organizational scheme of information interaction between providers and consumers of spatial data and the operator of the National Geoportal, option 4



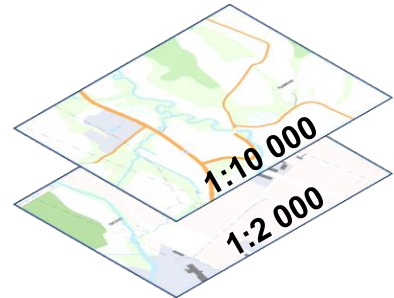


Basic processes of formation of raster open multiscale map

Topographic maps and plans



Land GIS



- Simplification to the level of open publication
- Creating a unified legend
- Raster conversion and georeferencing
- Building an ArcGIS Raster Mosaic
- Publishing WMS service

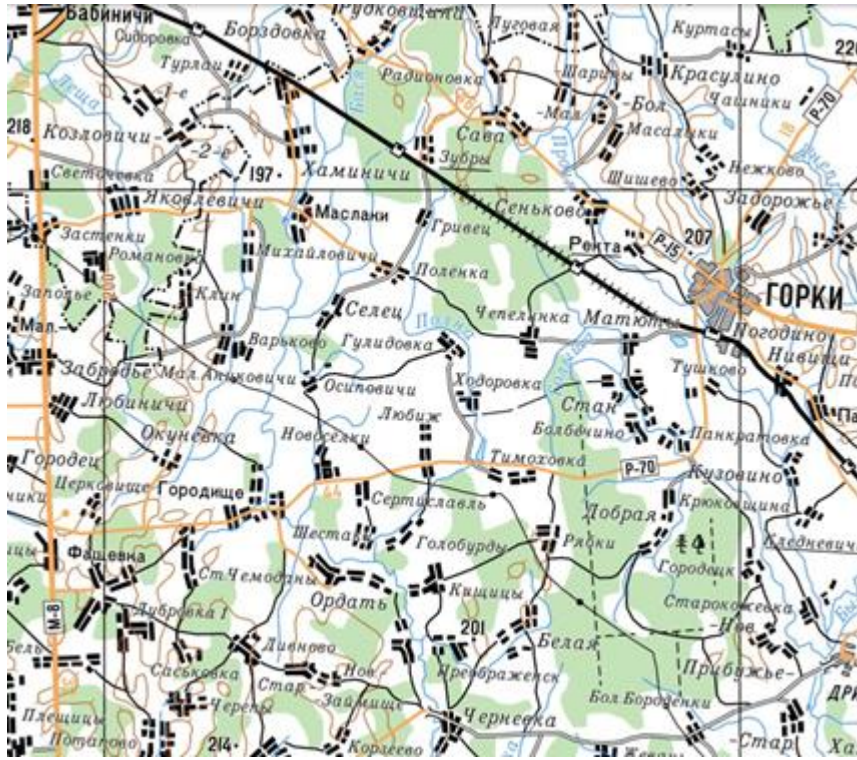
Formation and publication of a unified WMS service

- Creating a legend similar to a topographic map legend
- Editing some categories of Land GIS objects
- Publishing WMS service



Example of an open multiscale map

1:500 000



1:50 000





Belgeodesy - a guide to
the world of geodata

**State Committee on Property of the Republic of
Belarus**

**The topographic and geodetic republican unitary
enterprise "Belgeodesia"**

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**Thank you for your
attention!**