



BİLGİ İŞLEM DAİRE BAŞKANLIĞI

Istanbul Building Density Map General Information

## 1. ISTANBUL BUILDING DENSITY MAP

Heatmap is a data visualization technique that shows the intensity level of a phenomenon in the relevant region through colors. The variation or toning in the color used gives the reader clues as to the extent to which the phenomenon is clustered in the relevant region.

The heat map was used as a method in the Istanbul Building Density Map prepared by the Istanbul Metropolitan Municipality Information Processing Department; Production parameters used in Section 1.1., Section 1.2 and their explanations are available in Section 1.3.

### 1.1. General Information

While creating the map, Istanbul structure data produced in the Spatial Address Registration System update of 2023 was used. The map was produced in the ArcGIS ArcMap environment.

### 1.2. Production Parameters Used

Polygonal structure data was converted to point data using the Feature to Point tool.

Then, raster density data was generated using Spatial Analyst Tools → Density → Point Density path.

In the Point Density Tool;

Input point features: Structure point data

Population field: None

Output raster: File to save output

Neighborhood: Wedge

Area Units: Square\_Kilometers is used.

Classified option is used while visualizing the map.

### 1.3. Map Addresses and Legends Used

#### 1.3.1. Istanbul Building Density Map

URL	<a href="https://api.ibb.gov.tr/cbsaltlik/arcgis/services/MAKS/YAPI_YOGUNLUK/MapServer/WMSServer?request=GetCapabilities&amp;service=WMS">https://api.ibb.gov.tr/cbsaltlik/arcgis/services/MAKS/YAPI_YOGUNLUK/MapServer/WMSServer?request=GetCapabilities&amp;service=WMS</a>
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The legend used on the relevant map is as follows;



Şekil 1.1. Istanbul Building Density Map legend