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## Analysis of Geographic Information Programs FREEHAND and MAPINFO for Sensing the Area using the Example of the City of Kokand

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**Annotation:** *this article examines geographic information programs such as FREEHAND and MAPINFO to identify new technologies for monitoring various land plots and land types.*

**Keywords:** *geoanalysis, geodetic sensing, monitoring, perennial trees, human settlements, remote sensing, land types.*

### INTRODUCTION.

First, we will need to know at least a brief information about these software. First of all, the program Adobe FreeHand. Adobe FreeHand (formerly Macromedia FreeHand, and until 1994 — Aldus FreeHand — is a vector graphics editor previously developed by Adobe for Microsoft Windows and Mac OS.

Readable pages formats files: Macromedia Freehand file format, version 10[d], Macromedia Freehand file format, version 7[d], Macromedia Freehand MX file format, version 11[d], Macromedia Freehand file format, version 9[d], Macromedia Freehand file format, version 5[d], Macromedia Freehand file format, version 8[d], Aldus Freehand Drawing, version 3[d], Aldus Freehand Drawing, version 4[d] и Adobe Illustrator Artwork [1-5].

### THE MAIN PART.

Latest version: MX (11.0.2) (2003) of the year.

Created items formats files: Adobe Illustrator Artwork file format, version 7.0[d].

MapInfo Pro - easily integrated into any information system, the user-friendly interface will allow you to quickly adapt and start fully using the functionality even for a new user figure-1.

Easy data Access-MapInfo Pro supports all common data formats, including office formats such as Microsoft Excel, Access, relational and spatial database formats (Oracle, Microsoft SQL Server, PostGIS, SQLite), graphical data formats ( AutoCAD DXF/DWG, SHP, DGN) and many others [6-10].

You can also use images in almost any format (aerial photos, satellite multi-zone images, scanned paper maps, etc.). In addition, MapInfo Pro has access to hybrid maps and Microsoft Bing Figure-2 images.

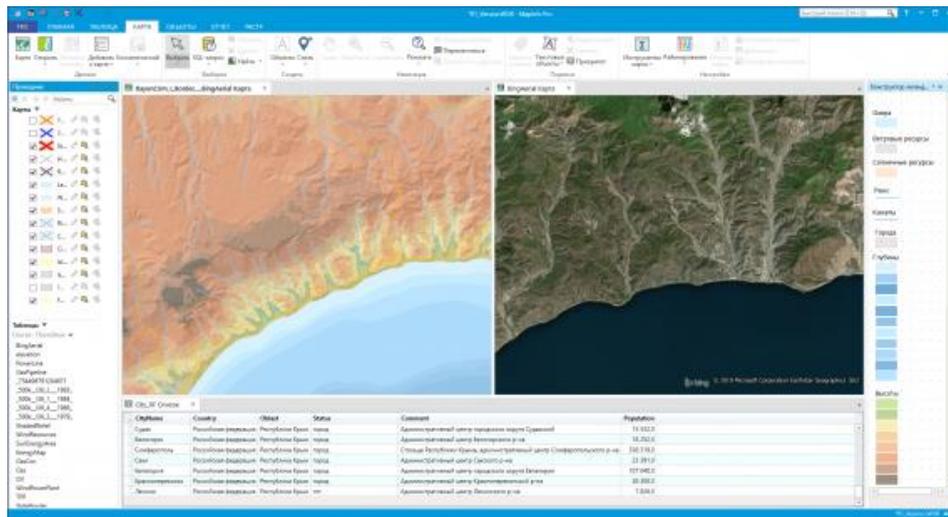


Figure-1. Easy access to the interface.

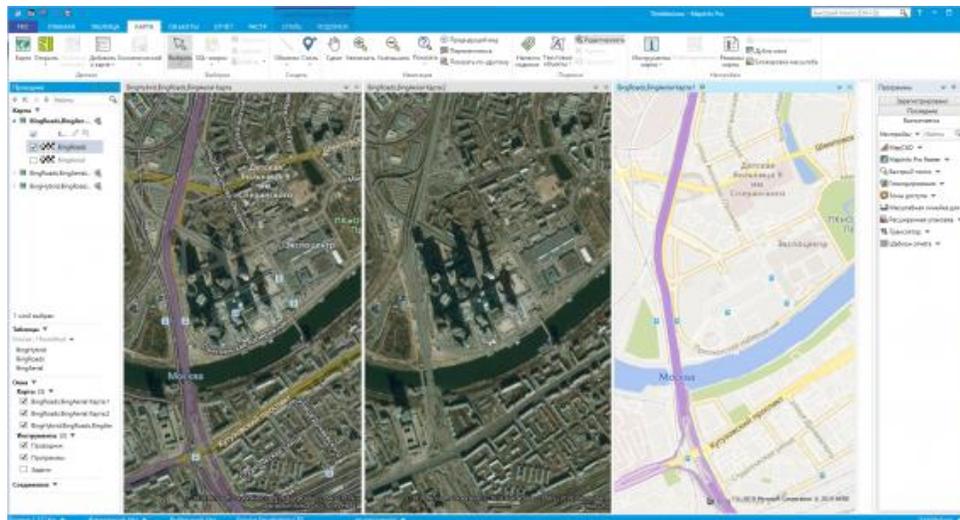


Figure 2. Easy access to data.

Data creation, editing, and Analysis functions-MapInfo Pro tools for creating and editing graphical and tabular data allow you to quickly and conveniently make changes to both maps and semantic data. [3-22] Advanced analysis tools allow you to make spatial queries, overlay operations, build buffer zones, and much more Figure-3.

Multi-option data display-the map creation wizard in MapInfo Pro and convenient settings allow users with any level of training to quickly create visual maps. You can use satellite images as the map background, and overlay your data as points, lines, and polygons on top. You can easily change the style and appearance of any data set using analytical processing methods and display settings. You can use statistical and mathematical functions to display calculated values on the map using symbols or colors. [23-29] For example, sales territories can be colored according to the number of customers in each territory.

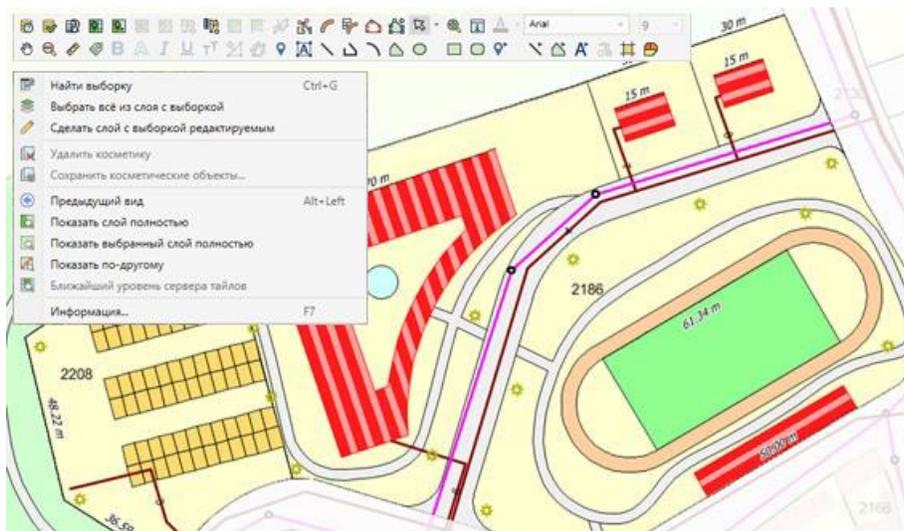


Figure 3. Data creation, editing, and analysis functions.

Publishing results - a user-friendly data publishing wizard with the ability to configure sharing simplifies the task of sharing information between project participants. MapInfo Pro allows you to print or publish maps of any size, accompanied by notes, legend, and graphs. Saving or exporting maps is supported in any user-friendly format [30-38].

To analyze the city of Kokand for preparing data formatting in MapInfo and Adobe FreeHand programs, consider the satellite version of this object Figure-4.

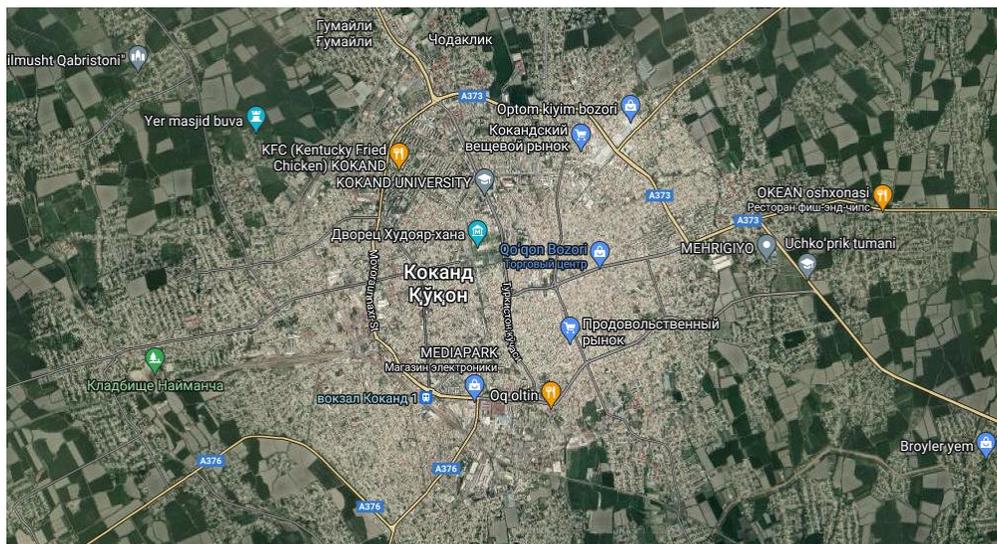


Figure 4. Prepare to analyze the city of Kokand for work in other programs.

## CONCLUSION.

In total, you can consider online services thanks to the cloud services MapInfo Pro and Adobe FreeHand, creating transport accessibility zones and geocoding is possible without the need to install third-party software. All users have free monthly access to create more than 300 address points and set up about 200 transport accessibility zones.

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