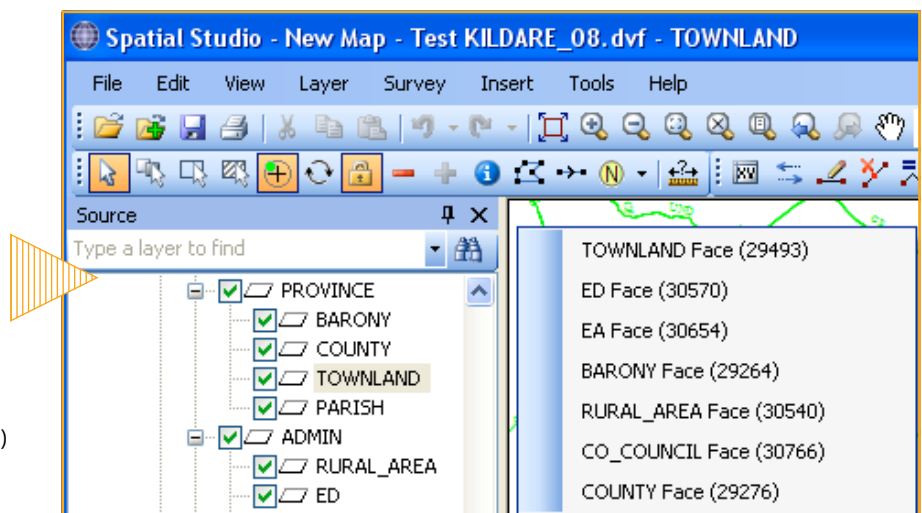
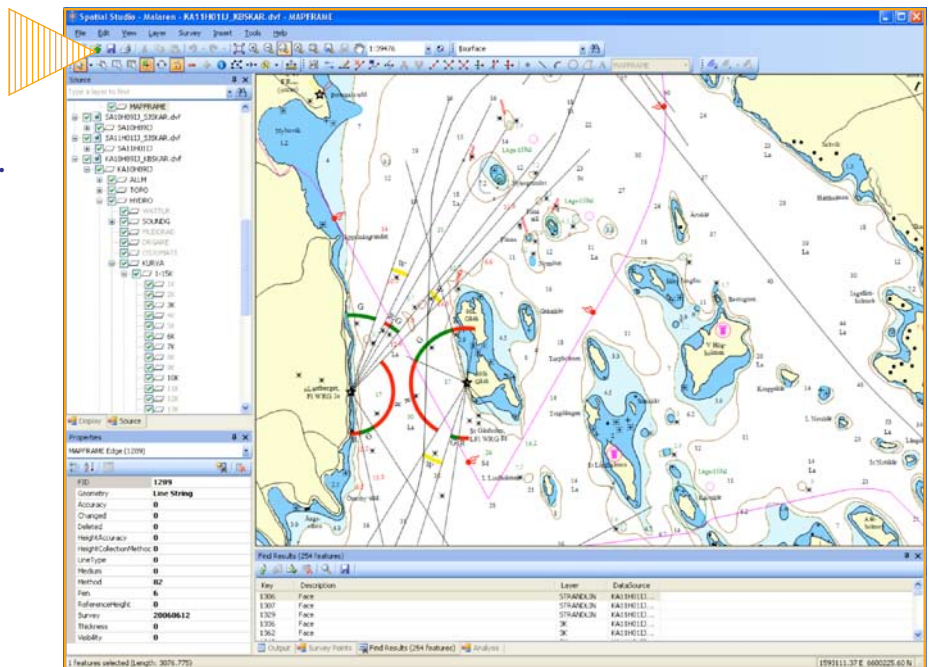


# Spatial Studio: Features and Functionality

Spatial Studio is a tool for viewing, analysing and editing spatial data. It is implemented in .NET C#— a modern, well proven and efficient architecture. Interfaces and data structures are built to OGC standards.

Some of the main features of Spatial Studio are:

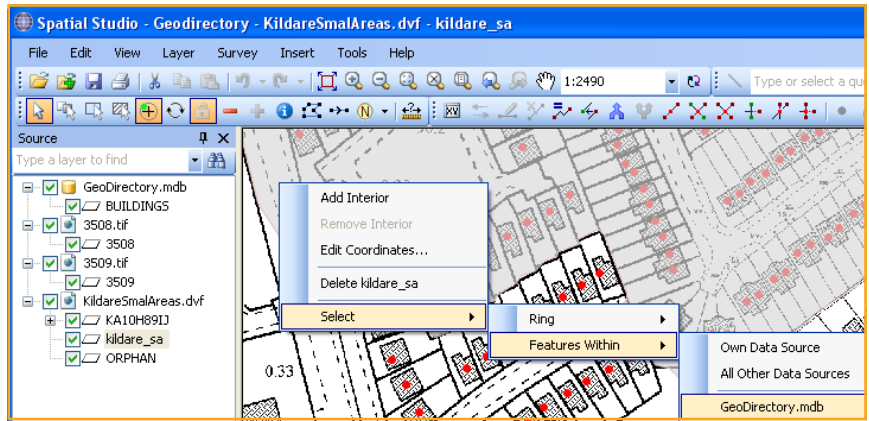
1. Simple and powerful editing tools.
2. Clear, uncluttered menus and function interfaces.
3. Ability to process spatial data as efficiently as possible. A capability to speedily process both large numbers of spatial features and complex spatial features with numerous points (large amounts of data).
4. Reads data from a variety of sources including Oracle Spatial.
5. Displays vector and raster files simultaneously.
6. Changes the display order of data by drag and drop.
7. Changes visibility by the click of a mouse button.
8. Facility to interrupt or pause datasources before they are fully displayed to allow the start of a new function or a specific area to be selected.
9. List the vector features available at any position using mouse over:
  - a. distinguish between overlapping or intersecting vector features
  - b. sort by coverage (length / area)
  - c. dynamically highlight the relevant feature



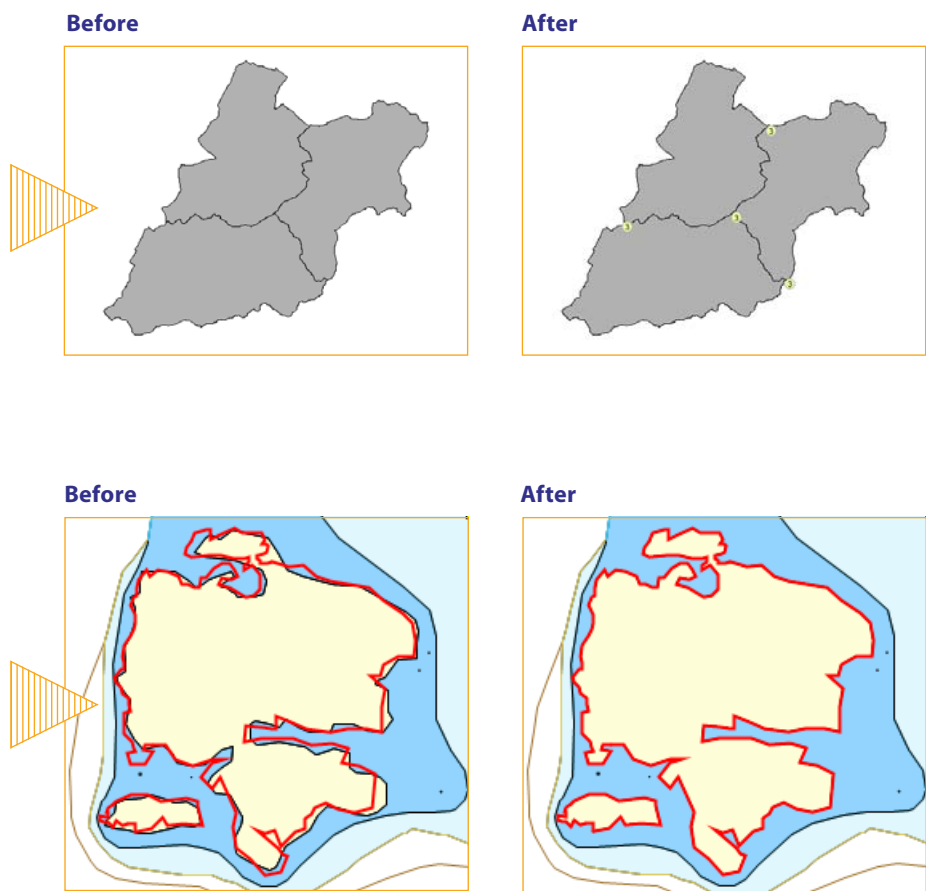
- 10. Easily compare files to find differences. E.g. Find what has been changed in an update.
- 11. Ability to apply filters to refine data searches.
- 13. Ability to connect GPS.
- 14. Export datasources/selections to a range of vector formats and maintain topological features.
- 15. Export vector data to different co-ordinate systems.
- 16. Millions of points can be read from csv files or access files and efficient spatial queries can be performed on these datasets.
- 17. Customised presentations are simple to create.
- 18. "Field to finished application" with GPS support offering a wide range of different projections.
- 19. Has a powerful tool for Positional Accuracy which preserves all topological relations.

For example, in the diagrams below the blue face contains two interior islands. The outer boundaries of these two interiors are incorrect. A separate correct datasource is added, showing boundaries displayed in red. The interiors are updated to the correct source using the Match Edges function which retains the blue face with its two interiors.

- 20. Face features can be both split and merged.
- 21. Topology can be created from spaghetti faces.



The example above shows how to find number of features in a datasource which are inside a user defined polygon



The diagram shows Before/After topology creation of spaghetti surfaces. Boundary edges are automatically created. All "inside" lines each belong to 2 faces.



Devonor AS is a company that specialises in developing high quality software for the GIS market place. The employees have more than 25 years experience developing GIS solutions. We are focused on providing user-friendly products running on modern platforms. We are currently supporting Microsoft .NET and Oracle Spatial.

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