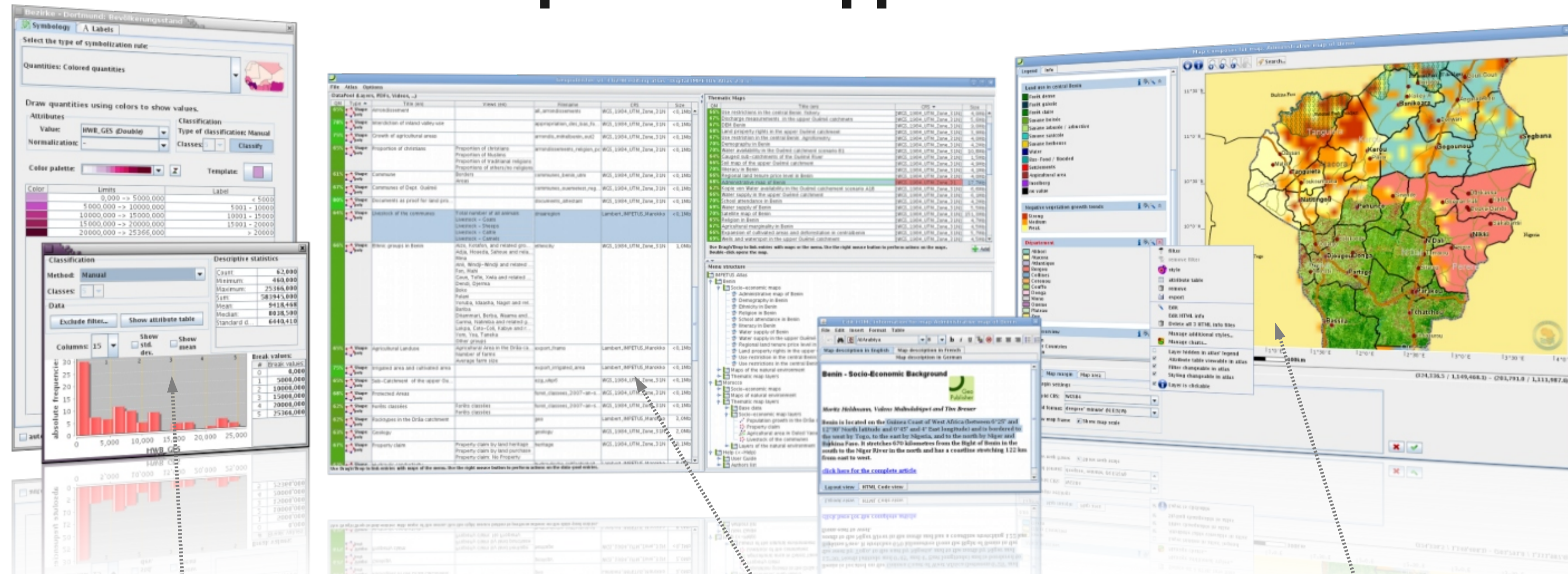


geopublishing.org

Towards easy publication of scientific (geo-)data

Geopublisher application



Styling editor:
To visualize qualitative attribute data, the styling dialog allows one to classify data by *quantiles*, *equal interval* or *manually*. An exclusion filter may be defined to exclude data from the classification. Predefined symbol sets make styling easy and quick.

Geopublisher structure:
Geopublisher's main window is divided into the sections: *data-pool*, *map-pool* and *menu-structure*. The data-pool summarizes all entities used in the current atlas: raster and vector data, PDF's, videos. The map-pool lists all interactive maps that have been created. The menu-structure tree contains links for the atlas navigation structure and can be filled by drag and drop. Red-to-green color flags visualize Geopublisher's *quality indexes* for a layer, map and/or the whole atlas. The *quality index* provides detailed information about translations, possible speed optimizations, and metadata.

MapComposer:
The MapComposer window allows one to create and configure the interactive maps for the atlas. Layer order, legend appearance, HTML descriptions, button visibility and links to other contents like statistic charts can all be defined. It's a configurable preview of how the map will be displayed in the atlas.

Geopublishing.org

The Geopublishing.org software stack has some unique features which make it especially applicable in the fields of international research, capacity building, and development cooperation. These features include:

- + Atlases created with Geopublisher are simplified end-user GIS with selected **functionality available only where it's meaningful**.
- + Following a hybrid **online and offline** approach for geopublishing is unique in available GIS software and makes geodata accessible in areas beyond the *digital divide*.
- + **Multilingual metadata management** avoids redundancies and allows for the quick release of updated atlases.
- + Integrated **WYSIWYG editors** for **SLD** and **HTML** allow geopublishing without in-depth knowledge of SLD, XML or HTML.
- + All software is fully **Free and Open-Source Software** and compliant with **OGC standards**.
- + Geopublisher + QuantumGIS + OpenOffice provide a complete **Open-Source Geopublishing desktop** for free.

Goals:

Geopublishing.org develops software to help scientists publish their results to stakeholders and interested people by means of digital multimedia atlases. These atlases can present maps and multimedia in a combined form that is optimized for GIS laymen while at the same time preserving the sophistication required for scientific publications. Consequently, the exported atlases are very user-friendly and every dataset, map, chart, video, etc. can be comprehensively overlaid with localized metadata.

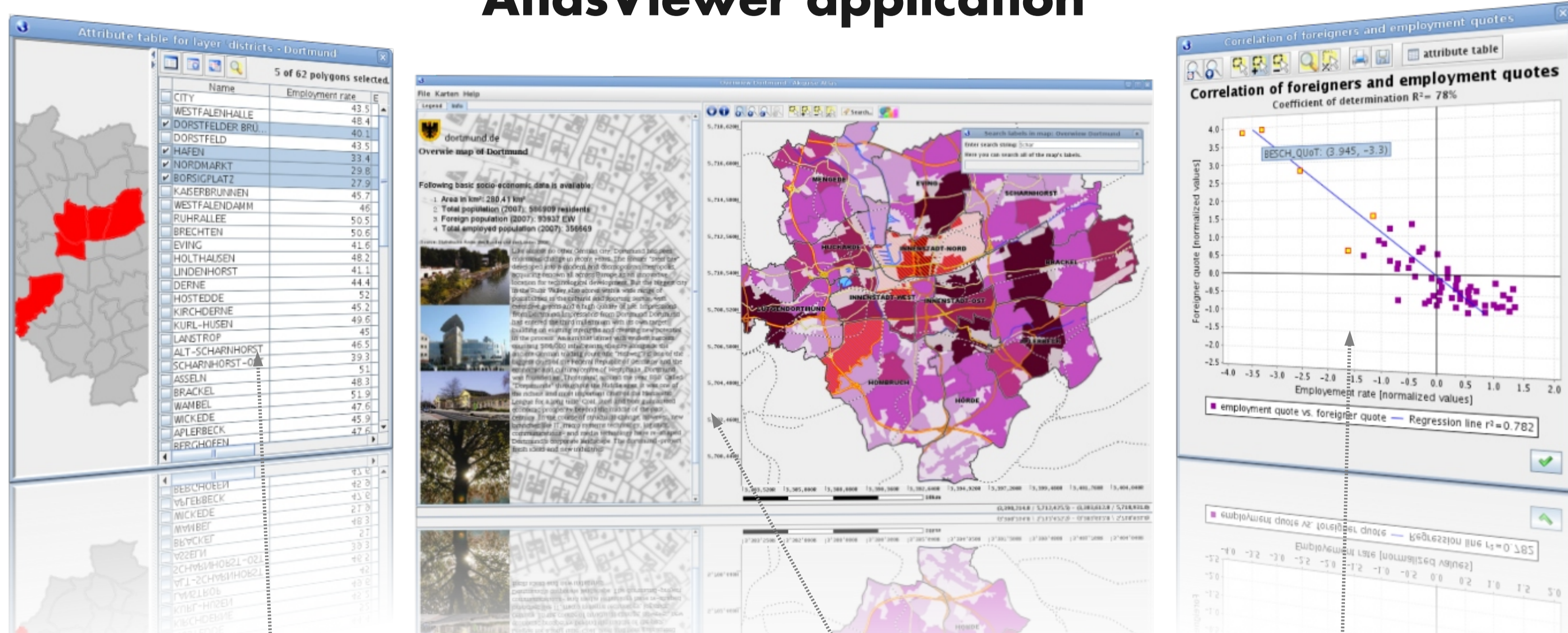
Atlas publication work-flow:

Experience gained during the creation of atlases for joint-research projects showed that they all share a common workflow. The amount of time needed to collect and manage data and metadata from various sources must not be underestimated. Additionally, the nonlinear nature of an interactive atlas tool and translations into multiple languages oppose a great challenge to quality assurance. Geopublisher supports the publisher in all 5 steps of the "Atlas publication To-Do list":

Atlas publication To-Do list:

- data collection & homogenization
- create maps & structure
- Internationalization (optional)
- quality assurance
- publication:
online and/or offline

AtlasViewer application



Attribute table:
An atlas can be configured to show attribute tables for layers. All columns have a localized description and column visibility can be setup to hide irrelevant information from the viewer. Selecting rows in the table is automatically linked with the geometries in the map and the data points in the charts.

AtlasViewer:
The main window shows a map on the right, and descriptive information and/or the legend on the left side. Additional maps can be opened by clicking on links or using the menu structure. If defined in Geopublisher, the user can add&remove layers, change classifications and filter data.

Chart views:
Geopublisher allows the map maker to define bar-, line-, area- and scatter-plots for attribute data and supports automatic normalization. Selecting data points in the chart is linked with highlighting their geometries in the map (and vice-versa).

Examples & Support

In 2008, the Interactive IMPETUS Digital Atlas was the first large scale atlas produced with Geopublisher. Since then a number of international projects have shown interest in Geopublisher and have begun using it. A collection of publicly available atlases are available at the **Geopublishing.org web page**, together with online **tutorials**, user and developer mailing list's, and the Geopublisher **blog**.

All software is OpenSource and can be downloaded from the project web page. For **special challenges**, the Bonn-based company **wikisquare** is providing **commercial support**, including trainings, special feature development, online atlas hosting and full atlas creation: www.wikisquare.de

