

# Cadenza

## Data Analytics. Reporting. GIS.

Understanding Data Correlations

Analyzing and Visualizing Spatial Interactions

Providing Information Across the Entire Organization

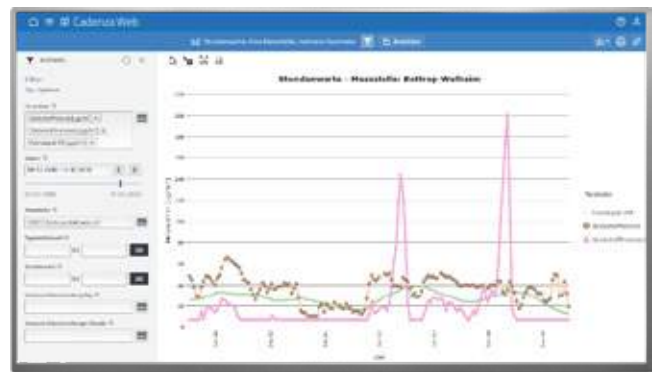
# Data Analysis, Reporting and GIS in One Software



Due to increasing digitalization, the amount and variety of data is steadily growing. Data from custom applications and databases, sensors and machines (IoT), Social Media, purchased data, open spatial data such as OpenStreetMap or official Open Data should be transformed into added value and made available and used throughout the organization. As a data analysis platform, Cadenza helps you master this variety of data and use it as a basis for fact-based decision-making.

For this purpose, Cadenza's powerful platform provides you with Data Analytics, Reporting and GIS in a very unique way. Get the support you need to obtain, filter, visualize and analyze your data. Publish them as reports for internal or external organizational purposes – this applies to all your data, including spatial data.

Cadenza is setting new standards in data analysis: surprisingly simple in visualization and intuitive to operate. Fast in querying data and visualizing results in tables, charts, on the map or on the dashboard, particularly efficient in generating reports. Always taking fine-grained access control policies into account as well as extensive logging and monitoring. All of your requirements in terms of comprehensive security are covered.



Discover the powerful functions for data analysis, spatial analyses including the potential of a fully integrated Geographic Information System (GIS) and comprehensive reporting.

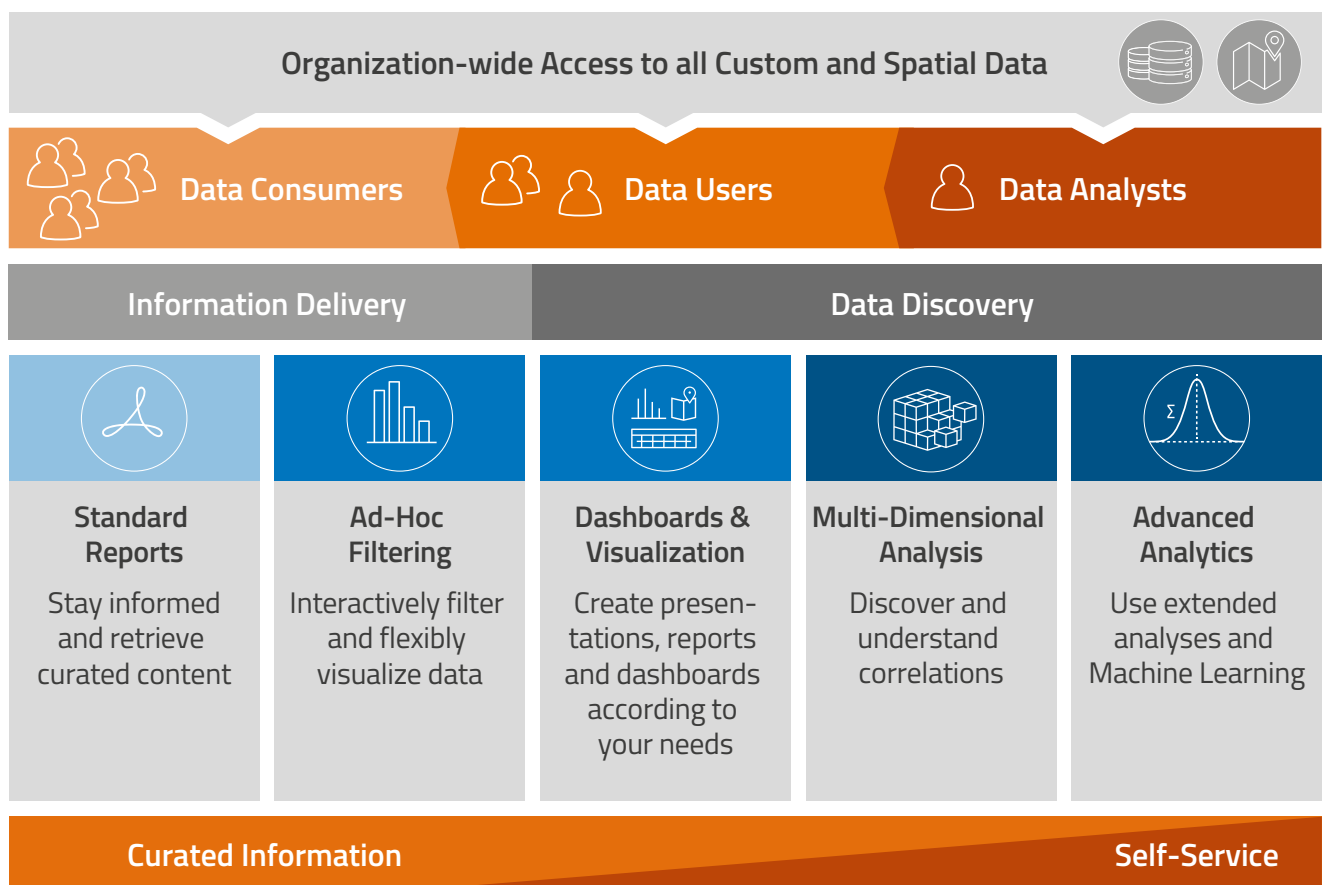
**Meet Cadenza!**



# Needs-Based Access and Collaboration

Easily manage your staff's individual authorization levels. Maximize synergies across the entire organization and disciplines through extensive opportunities for collaboration. Cadenza is a platform providing your staff with the information they need in the way they need it: From pure data consumers who are regularly informed or filter and visualize content, to the intensive data users who visualize data or

prepare new views, reports and dashboards for third-parties, right up to data analysts who have self-service access to freely and flexibly analyze data along several dimensions – Cadenza has the required functionality available for everyone. This applies to custom data from databases, to time series from sensor data and spatial data alike.



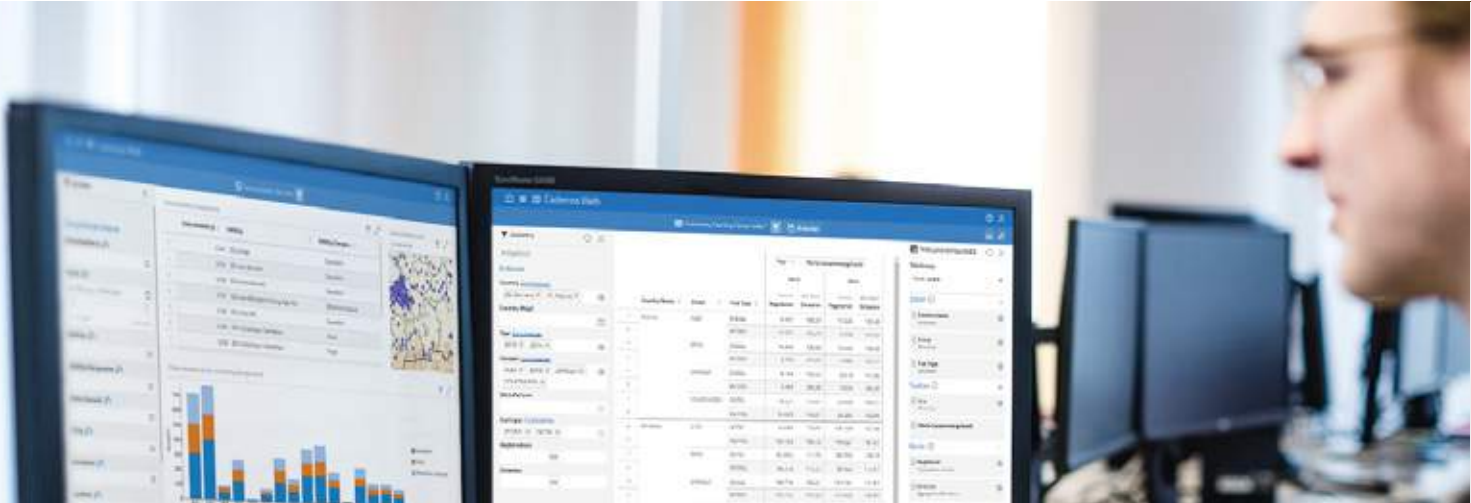
## Outstanding Features and Functionalities

- Flexible data filtering and visualization
- Distinctive clear dashboards
- Multidimensional custom analyses (OLAP)
- Standardized reports and ad hoc reports
- Time and event-driven reports
- Fully-fledged Geographic Information System (GIS)
- Spatial analyses
- Digital maps, including routing and geocoding
- Connection to Active Directory including Single Sign-On
- Configurable data access





# Understand Data with Advanced Data Analytics



Make fact-based decisions and quickly gain new insights from data. Extend, filter and select data according to your needs and delve deep into your data along several dimensions. Capture the overall situation and discover correlations, outliers or clusters. You will gain vital insights.

## Data Discovery – Simply Discover More

Analyze your data, filter them and delve deep into them along several dimensions. With Cadenza you can create ad-hoc analyses and discover anomalies. Cluster formations, drill-down and drill-through support you. Switch to tabular view by clicking the pivot mode. Cadenza will clearly visualize the results for you.

## A Dashboard Provides an Overview

Stay informed at a glance on the current state of your data and key figures with real-time visualizations. Combine map, table and chart views. With Cadenza you can clearly compile relevant data in a configurable dashboard view which can also be shared.





### Find Answers in Data

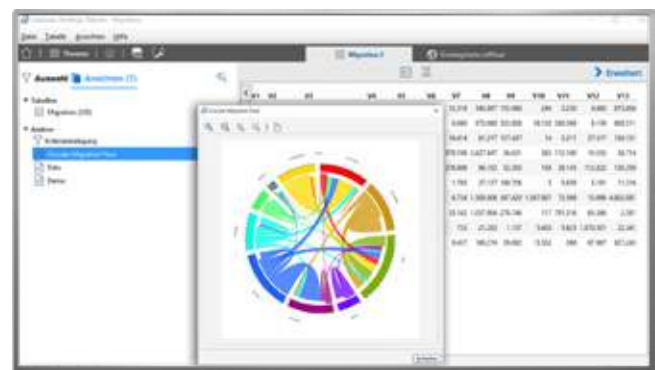
Make sound data-supported decisions – without any knowledge of databases and without programming.

Flexibly filter data to quickly and technically evaluate them. Extend them with additional self-service data and bring different data records into relation to each other. You will find it easy to select data using technical, spatial or temporal filters and to prepare visually pleasing preliminary results. Cadenza provides intuitively operable functionalities for this purpose.



### Use Statistics Functions from R

With Cadenza's R interface, you can additionally evaluate your data using "R". Thanks to the integration of the world's leading statistics software, all of R's statistics functions are available within Cadenza's uniform interface.



# Understanding Spatial and Temporal Correlations



Explore new possibilities with geo analytics, discovering spatial correlations in your data. Work live on the map with your data and carry out complex geovisualization analyses.

Move through time and space to gain new insights. Calculate geographic coordinates or accessibility zones from addresses. Expand your analyses with data from OpenStreetMap, Points of Interest and diverse open and commercial spatial data. Use the “Where” and “When” to understand the “Why”.

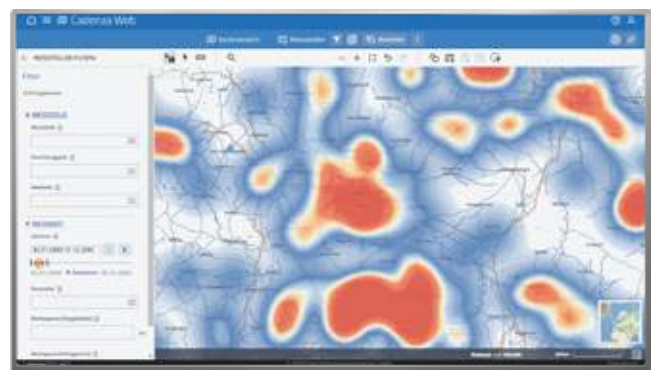
## Discover Location-Specific Relations

Combine conventional data with location data and spatial data. Identify spatial relations, such as the distribution of readings or the accumulation of observation points, simply and at a glance.

Analyze relations in a spatial context, so you will be able to see the overall picture before making decisions.

## Temporal Filtering

Filter your data according to temporal aspects and create video animations on the basis of your data which can be played directly on the map. Observe how values change over time. Set further technical or spatial filters and also switch between the tabular and chart view of your data during the spatial-temporal analysis of the individual time ranges.



# Provide Information and Reports

The collage illustrates the diverse reporting capabilities of Cadenza. It includes:

- A circular inset showing a topographic map of Thuringia.
- A detailed technical report with multiple tables and charts, including a section for 'Ergebnisse 2019'.
- A bar chart titled 'Ergebnisse 2019' showing data for different categories.
- A circular inset showing a diagram with data points and labels like 'spezifische Wärmeleitfähigkeit' and 'mittl. potentielle Entzugsleistung'.

Provide analyses and filter options, predefined analyses and reports via a uniform interface throughout the entire organization. Thanks to the unique spatial functionalities of Cadenza's reporting platform, your entire organization is able to generate maps and share them in reports.

## Provide Precise Answers Quickly

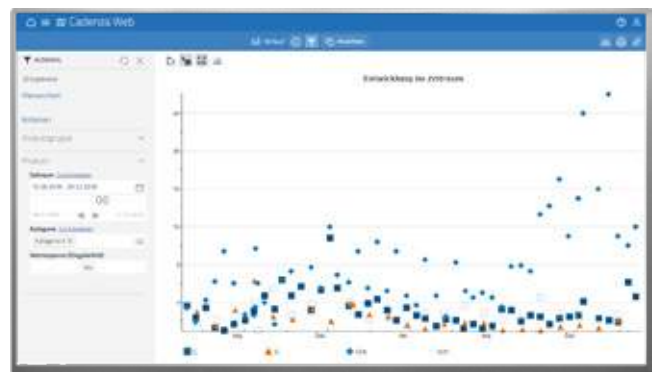
Filter data flexibly and evaluate it professionally. Select data on the basis of custom, spatial or temporal filters and also prepare interim results in a visually appealing manner. Make informed data-driven decisions – without any knowledge of databases or programming.

## Format PDF Reports with Pixel Precision

Create state-of-the-art, clearly structured PDF reports that perfectly match your corporate design – always formatted with pixel precision. Use the various design and formatting elements to insert headings, define font types and sizes or arrange maps and charts in addition to tables and text in the report. The data you selected is immediately included in the report.

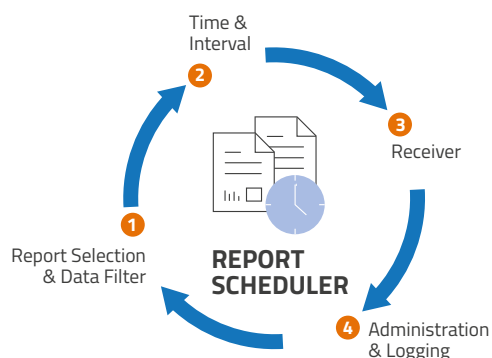
## Implement Time and Event-Controlled Reporting

Automate regularly recurring reporting tasks with the Report Scheduler. Stay updated on the latest information in the form of easily comprehensible reports delivered on a regular basis – daily, weekly, monthly or annually. Or receive alert notifications whenever specific events occur. Define freely and via rules which information should be compiled for a specific event.



## Create Reliable and Access-Controlled Reports

By means of freely definable access rules you determine which staff members are allowed to view specific information, which data may be presented in reports and who is to receive which reports. Deliver user- and task-specific data and reports securely and reliably.



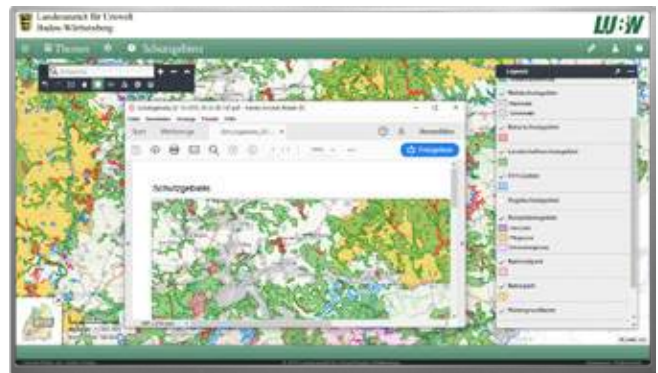


# Use GIS Functions and Maps



Use Cadenza's powerful GIS capabilities to create and edit interactive maps with data from different sources and prepare custom maps. Cadenza helps you create and print visually appealing and technically accurate maps.

Cadenza is extremely versatile: it's a Web GIS optimized for professional spatial data infrastructures, a Mobile GIS including offline visualization and collection of spatial data in the field, and a Desktop GIS with easy-to-use GIS functions for digitization and spatial data processing. Use, capture and modify centrally configured spatial data, services and maps - consistent in terms of look & feel and universally applicable.



## Find Places and Objects Easily

Use the freely configurable Location Finder to quickly find a specific location or object on the basis of names, descriptions or coordinates. Take advantage of the powerful geometric intersection to determine objects within the radius of a specific feature or a marked area with just a few clicks.

## Create and Print Powerful Maps

Create detailed, custom maps based on current data and output them accurately scaled as PDF files or graphic files for MS Word or PowerPoint. Create your own map layout. Save your design templates for yourself or third parties or plot professional maps in DIN A0 format.







### Provide Information via Web GIS and Geographic Portals

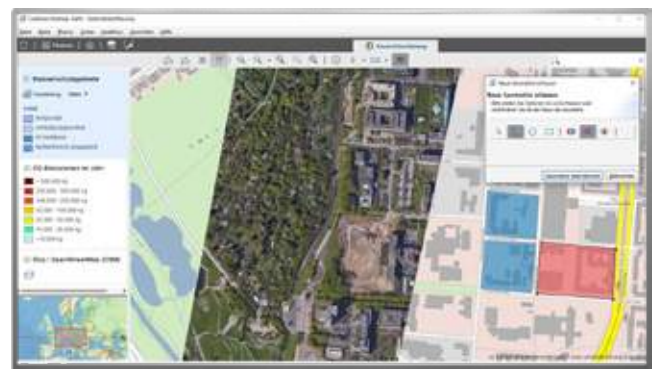
Use Cadenza to quickly and efficiently publish all spatial data and services of your organization via browser. Configure informative Web GIS solutions and spatial portals for your entire organization – Cadenza assists you with comprehensive support. Or enrich existing portals and web services with selected map information that can be controlled interactively. Benefit from the unique range of functionalities by enabling users to filter attribute data directly on the map or to run spatial analyses.

### Use your Mobile GIS Application Online and Offline

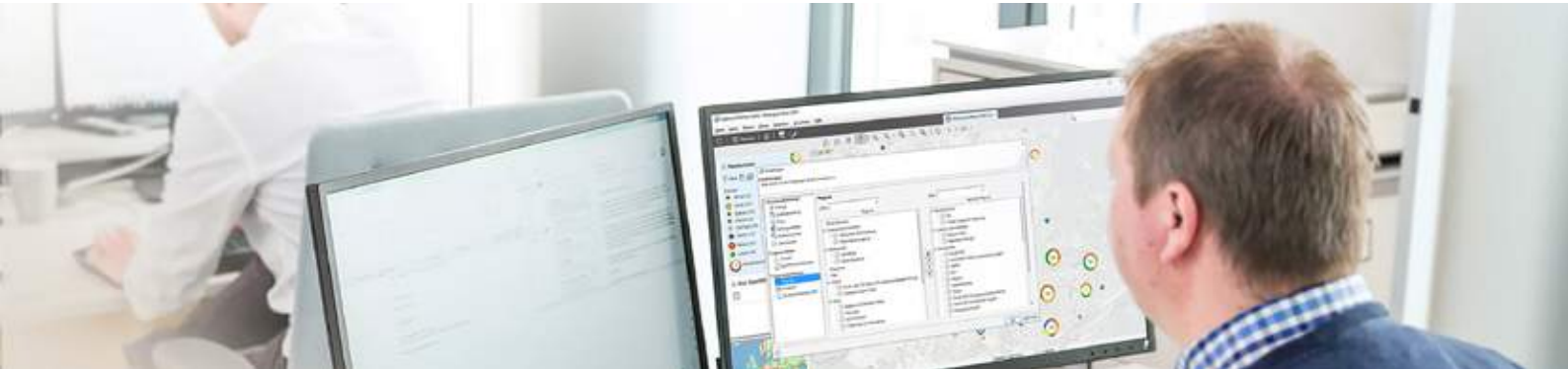
Use your maps online or simply take them with you in offline mode. Record data on the go using your tablet. Use the GIS App on your smartphone to capture and modify data in the field, even without an Internet connection. Document the conditions on site by photo or video and supplement your digital map with the image material.

### Your Desktop GIS for the Entire Organization

With Cadenza's user-friendly Desktop GIS, you can use all GIS functions at your workstation. Access your spatial data locally or use other spatial databases and data services. Edit your data using the versatile digitization features, such as snapping, selection from other layers or dynamic adjustment of the map section. As a spatial data content manager, you professionally prepare content on maps and distribute them across your organization with a simple mouse click.



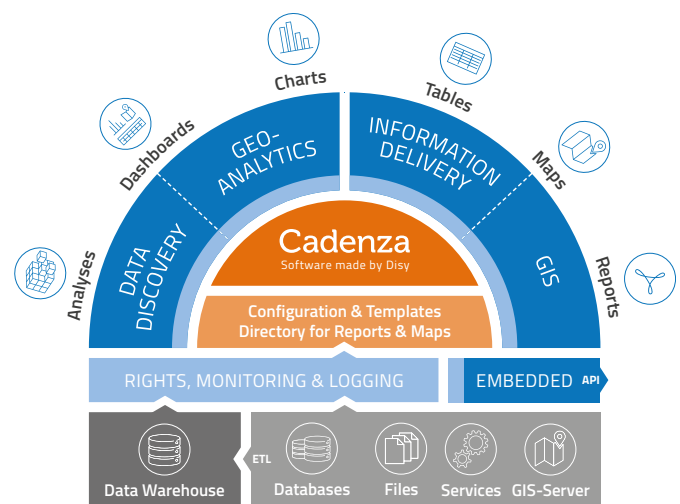
# A Platform that Scales Across the Entire Organization



For individual custom databases or organization-wide data infrastructures, for individual teams and departments or entire organizations. Whether on-premises or private cloud – Cadenza gives you all the freedom and configuration options you need for the technical design of your IT infrastructure.

## Centralized Administration – Decentralized Use

With Cadenza, you have control of your IT while giving your business units the freedom to flexibly analyze data from different business systems, data warehouse and spatial databases. Thanks to the principle of a central expert team of content managers, which is deeply rooted in Cadenza, it is possible to prepare organization-related data for specific target groups, to edit them and make them available to the entire organization. Users receive views on data and reports that are predefined for their information needs. Moreover, they can filter and visualize the data themselves or analyze the data independently using the Data Discovery and Geo Analytics functions.



### Centralized Management

As an analysis and map index, the Repository forms the core of the Cadenza platform for all users and access points. The application managers and administrators can configure and extend the infrastructure as a team using integrated design tools.

### Data Access

Cadenza is based directly on your data infrastructure with databases, GIS servers, file-based databases or services. Data from different custom systems, central assessment databases and data warehouses are made available throughout the organization via a common interface.

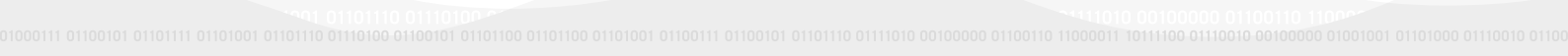
### Rights Management, Logging and Monitoring

Rights management is designed for large organizations with complex and diverse access control requirements. The powerful logging and monitoring functions also support you in supervising the system and access points to your data.

## Lifecycle Management for Development, Testing and Operations

Optimize your Lifecycle Management with Cadenza – for development, testing and operations. You can also update parts of

the data and analyses and continually provide your organization with quality-assured information.



# About Disy

**Disy is the market leader for Data Analytics, Data Management and Reporting with Geospatial Data.** We combine data analytics and spatial data in an innovative way, providing a deeper understanding of the complex relations in our natural environments. We have a passion for developing innovative

products and solutions for large organizations. The Data Analytics, Reporting and GIS Platform Cadenza has been operating for many years, creating value at many public authorities on a national, federal state and municipal level.

*Cadenza is being used successfully at over 10,000 workplaces.*

Many authorities on a national and federal state level as well as large companies use Cadenza for value-adding data analysis, comprehensive reporting, internal or public spatial data portals as well as web-based GIS systems. **Coming soon ... to you?**

## Software made in Germany

As the only platform for Data Analytics, Reporting and GIS, Cadenza was awarded the "Software Made in Germany" seal by the German Association of SMEs.



Arrange your free consultation with one of our experts.

For more information, please visit

[www.disy.net/en/cadenza](http://www.disy.net/en/cadenza)



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Geo Intelligence for your Data