

## Modular structure of the architectural concept

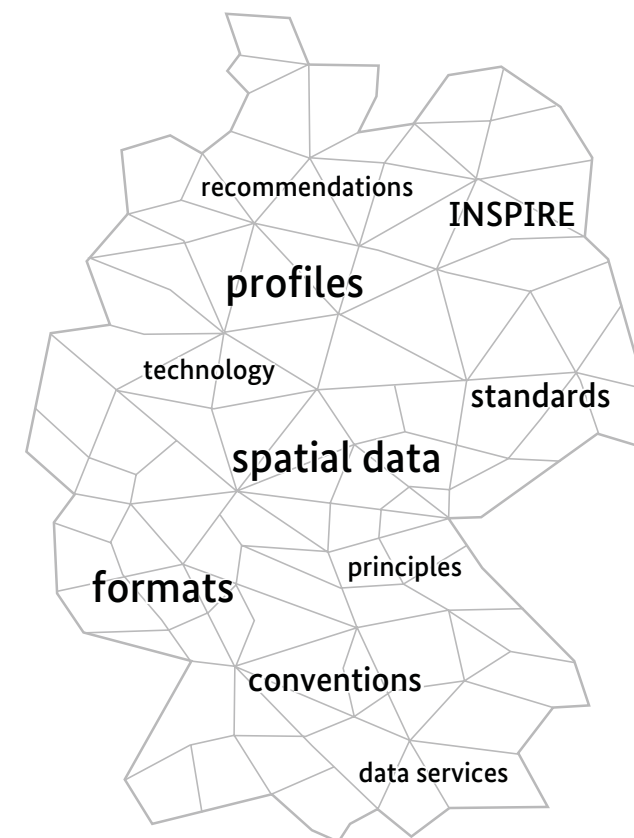
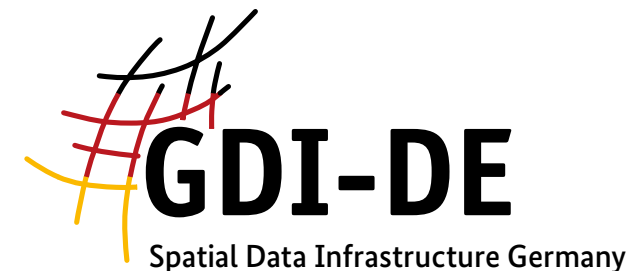
The GDI-DE modular structure is built up from individual components in three distinct categories. Essential definitions and specifications are laid down in the following three key documents:

- The document “Architecture of the GDI-DE – Objectives and Principles“ explains the strategic goals, the professional and technical principles as well as the legal and organisational framework conditions of the GDI-DE.
- The document “Architecture of the GDI-DE – Technology“ describes the different architectural components, and for this purpose references relevant norms, standards and specifications.
- The document “Architecture of the GDI-DE – Action Plan“ shows the steps required for further development of the GDI-DE.

Particular technical specifications are defined in the form of profiles and conventions. Any additional information is set out more closely in the form of guidelines.

## More Information?

The three key documents of the “Architecture GDI-DE“ are available in German on the website:  
[www.gdi-de.org](http://www.gdi-de.org) → GDI-DE → Media-Center → Dokumente



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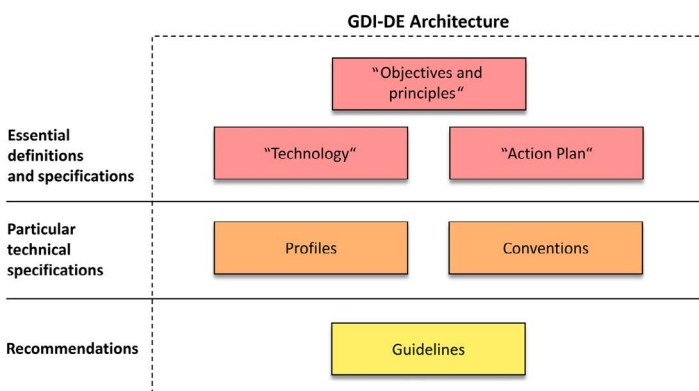
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# SDI Architecture

## GDI-DE Architecture

... *assists* in the execution of statutory tasks at all levels of administration.

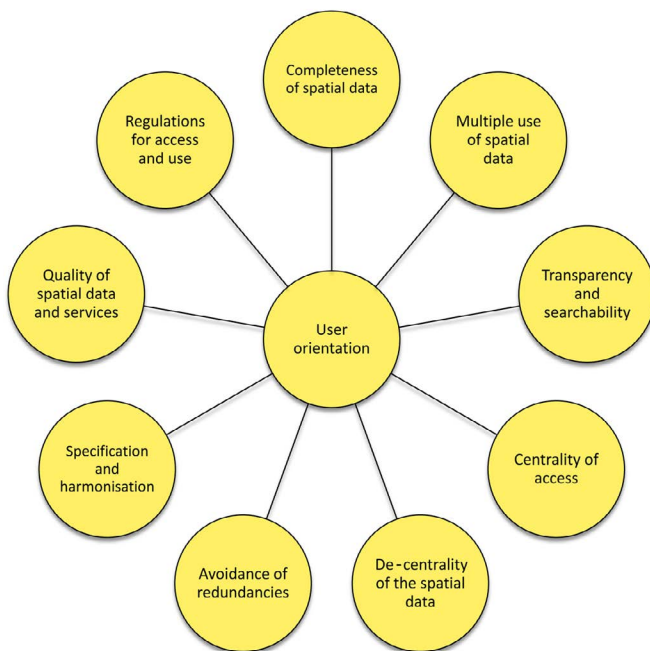
... *is driving forward* the automation of administrative procedures with spatial reference within the scope of eGovernment.

... *provides* the spatial data for the entrepreneurial tasks as required by the economy.

... *contributes* to a space-related knowledge base for the needs of science.

... *promotes* through the provision of data the opening of public administration within the scope of Open Government.

Professional principles of the SDI Architecture



## Principles of the GDI-DE Architecture

- **User orientation** within the definition of measures serving to establish the GDI-DE.
- **Completeness** with regard to the provision of data existing in various specialist fields, at different administrative levels as well as in the economy and science.
- **Multiple use of data by providing** data recorded for a specific purpose also for other applications.
- **Transparency and searchability** by describing data and related services by means of published metadata.
- **Centrality of access** and searching services for a simplified access to data available in Germany.
- **De-centrality of the data** as a result of their collection, maintenance and provision through the originally and technically responsible data-owners.
- **Avoidance of redundancies** in form of secondary data held by data users on a permanent basis.
- **Harmonisation of data and services** by the definition, publication of and compliance with recommended specifications for data, services and metadata.
- **Defined and documented quality of data and services** with respect to reliability, security, performance and availability of the data services.
- **Simple Regulations for access and use** in order to promote the use of data.

## Made-to-measure data and services

### GDI-DE essential

Standards are *essential* with regard to the GDI-DE if they are state of the art. They ensure the interoperability required for implementing the SDI.

### GDI-DE discontinued

Standards of the GDI-DE are *discontinued* if previously classified as GDI-DE essential, but have meanwhile become obsolete owing to the further development of the state of the art, and can therefore be replaced by more up-to-date standards.

### GDI-DE optional

Standards are *optional* with regard to the GDI-DE if there already exist tried and tested implementations which, however, are not yet based on established and proven findings in science, technology and experience.

### GDI-DE under observation

There are requirements which are not currently being met by established standards nor by standards used in ongoing operations. The development of related approaches of solutions is to be discussed within the GDI-DE at an early stage and is *under observation*.

### INSPIRE essential

Metadata, data and data services to be provided according to the INSPIRE Directive's scope are subject to additional requirements as specified in the INSPIRE implementing rules as well as in the INSPIRE technical guidance.