What BauDenkMalNetz is about

- In Bremen, the database of listed historical buildings is searchable and browsable online, but its rigid structure prevents from implementing more complex queries on it.

- Model the semantic structure of these data, and expose them via a semantic web interface with enhanced querying and presentation capabilities.

- Prototype was built using Semantic MediaWiki (SMW).

- The ontology was inspired by the model provided by Archiplanet. Also, we plan to reuse and possibly enhance the CIDOC CRM and Geonames ontologies.

- Further enhancement will provide on-demand presentation on mobile devices (e.g. customized travel itineraries, based on queries like "Bauhaus buildings in my area").

SMW extensions

- **Semantic Forms**: represent fine-granular entities that have their own properties of interest as [editable] fragments; also useful for bots importing bulk data from an existing database;

- **Semantic Drilldown**: filter by property values – e.g. address of building, categories – e.g. type of building (house, church etc.), date range;

- **Maps and Semantic Maps**: display query results on a map;

- **Semantic Graph**: illustrate relations, e.g. “building – part-of – ensemble” or time (chronological alignment)

http://mathweb.org/wiki/BauDenkMalNetz