



## wega Services for Life Sciences

**wega** consultants have been supporting Research and Development departments in the pharmaceutical and chemical industry for more than 15 years.

Our strong cross-functional background combines profound expertise in drug discovery and development with a track record of successfully realized innovative IT projects. This unique positioning enables us to seamlessly integrate into both, service-oriented IT-departments as well as specialist areas in R&D.

Please find below some examples of recent projects in which we bridge between information technology and R&D.



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Photo: Michael Heck

**wega** is building the bridge between research & development and information technology.  
We are integrating your R&D.

### Domain Analysis Model for clinical data based on BRIDG

Data integration across the application landscape within an enterprise is one of the biggest challenges that IT-Departments are faced today.

One vital pillar for the unified communication is a Domain Analysis Model (DAM). It defines a collectively accepted terminology for its scope in a structured form.

BRIDG is the Domain Analysis Model for protocol driven studies. It is a collaborative effort of stakeholders from

- the Clinical Data Interchange Standards Consortium (CDISC).
- the HL7 Regulated Clinical Research Information Management Technical Committee (RCRIM TC).
- the National Cancer Institute (NCI).
- the US Food and Drug Administration (FDA).

It aims to produce a shared view of the dynamic and static semantics that collectively define a shared domain-of-interest.

**wega** consultants are developing the Domain Analysis Model for a major pharmaceutical company according to BRIDG. The resulting clinical data standardisation is a prerequisite for cross study analysis and computable semantic interoperability.

Read more: <http://www.cdisc.org/publications/euinterchange2008/day1/session2/MarkRegennassS2Tk1.pdf>

### Information integration in Research Informatics

Seamless integration of data and information from all parts of R&D organisations is a major success factor for drug research.

**wega** consultants developed the concept for the global research IT infrastructure of a research-driven pharmaceutical company. The architecture facilitates collaboration between R&D sites in Europe, USA and Asia and comprises:

- Consolidation of data most functional areas, such as chemistry, biology, HTS, chemo- and bioinformatics, PK/PD, toxicology, drug safety and translational medicine.
- Defining interfaces and information flows.
- Implementation of a data warehouse for mapping the information.
- Simple searching and browsing of all content in an intranet portal.

### High-Performance Computing and Grid Computing

High-performance computing platforms are becoming more and more important in both Drug Research as well as Preclinical- and Clinical Development.

The **wega** team of HPC specialists have been setting up the HPC system for clinical development of an international company.

Specifications include:

- High flexibility in terms of the number of nodes, locations and diversity of applications and technologies.
- Allows validation according to 21 CFR Part.
- Platform for Linux and Windows applications.
- Supporting a global user community.
- Seamless integration into the company's IT infrastructure.

#### Services

- Life Science Consulting
- Business Analysis
- Solution Engineering
- Technical Consulting
- DBA Services
- Project Management

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