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Integrated Biomedical Grid Infrastructure

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The European @neurIST project aims to create an integrated biomedical Grid infrastructure for the management of all processes linked to research, diagnosis and treatment development for complex, multi-factorial diseases. The project bases its developments on a service-oriented Grid architecture encompassing data repositories, information systems, simulation, modeling and computational analysis services handling multi-scale, multi-modal information at distributed sites.
In this talk we will provide an overview of the VGE Grid infrastructure and its utilization within the @neurIST project. VGE relies on standard Web services technologies for virtualizing compute-intensive applications and distributed data sources as Grid services that can be securely accessed on demand over the Internet. VGE compute services enable transparent access to high-end computing facilities, supporting dynamic SLA negotiation and QoS guarantees for time-critical usage scenarios. VGE data services facilitate the integration of heterogeneous data sources based on data mediation mechanisms realized on top of OGSA-DAI and OGSA-DQP. We will also outline the client-side environment offered by VGE for the construction of advanced Grid applications from data and compute services.

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