



VRcontext

INDUSTRIES

VRcontext is a spin-off of Tractebel Engineering (a company of the “Groupe Suez”) and was incorporated in 2000. It is widely recognized for its flagship products, Walkinside® and ProcessLife® after a decade of pioneering VR technology development. VRcontext is committed to deliver excellent performance to its clients and is constantly striving to exceed their expectations. Being a young, dedicated organization, the company is continuously seeking to develop mutually rewarding relationships and partnership with value-add organizations. VRcontext delivers highly flexible solutions without compromising adherence to ISO and other standards.

VRcontext manages its business based on the principles of strong corporate governance, a clear system of management accountability, and a set of values and policies for quality programming. The corporate governance policies emphasize the importance of the relationship between the Company, its management, the Board of Directors and its shareholders.



VRcontext provides integrated real-time visualization software for the Oil & Gas, Process, Energy, Architecture/Engineering/Construction (AEC), and Homeland Security sectors.



For the Oil & Gas industry, VRcontext products provide strategic advantages to upstream and downstream facility managers and valuable functionality for both green- and brown-field assets by merging CAD and point-cloud data obtained from 3D laser scans of the facility into a unified model. Discipline-specific applications are then linked to the model using object tag information. ProcessLife links the 3D virtual model of the asset with the data server processing real-time operations data, including SCADA and DCS systems.



VRcontext applications are valuable tools for the Energy sector, including nuclear and conventional power plants. Walkinside allows construction managers to enter and interact with the content of a full-scale nuclear power plant, including inaccessible and hazardous areas, which are faithfully represented in a 3D virtual environment. As the 3D virtual model is linked to databases with all the reference information, the model can be used for a walk-through or virtual reality (VR) evaluation.



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In the Process industry, large processing plants are designed using 3D CAD systems. Although the 3D CAD viewer makes the physical aspects of a detailed design easier to understand and review, the potential benefit is lost to some degree by non-technical people because the use of 3D CAD viewers generally requires specific skills. Ease of use makes Walkinside an ideal tool for review. Through ProcessLife, VRcontext provides additional functionality by interactively linking equipment tags with a dynamic process model and a Process & Instrumentation Diagram (P&ID)-based prototype control system.

A construction schedule simulation links planning information to 3D CAD models. In addition, Walkinside can serve as a tool for maintenance and operational activities, providing simulations for use by the owner-operator and contractors.



For large AEC firms, virtual reality is used to visualize and manage large and complex building and infrastructure projects, such as railways, airports, shopping malls, and theme parks. Walkinside enables the creation of realistic-looking 3D virtual models, covering a large field of view. The VRcontext virtual reality application facilitates business operations by speeding schedules, cutting costs, and ensuring quality as it reduces the gap between theoretical and practical knowledge. Through walking avatars and crowd simulation, the user is able to 'feel' the dimensions of the environment. Animations are created in real time while the user is moving freely in the virtual world.



Since the terrorist attack of 9/11, Homeland Security applications have received considerable attention. Two major challenges characterize this sector: the ever-increasing number of possible targets and the fact that these targets are often located in urban or industrial areas. VRcontext technology federates all the relevant information about these environments, and merges it in a highly immersive and responsive virtual model, connected with all the sensors, video sources, documents, schemas, and drawings. security operations. Massive amounts of information can be accessed from a single, centralized location, enabling operators to optimize infrastructure and security operations.