

Virtual Systems Integration Lab (VSIL)



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VSIL is a virtual prototyping package for modeling vehicle systems and components, developed by Cybernet and The U.S. Army Tank-Automotive Research, Development and Engineering Center (TARDEC). VSIL leverages commercial virtual-design technology pioneered in the civilian automotive industry to develop a virtual-design environment capable of simulating Army vehicles in a manner that allows rapid trade-off analyses for soldier safety and operation effectiveness.

VSIL users can:

- Reduce the time, cost and resources needed for developing a new system;
- Design and work with virtual models;
- Enhance vehicle performance and soldier safety;
- Reduce cost and improve efficiency in the hardware design process;
- Enable tradeoff analysis for cost and performance evaluation early in the design process;
- Reduce demand for costly prototypes, resulting in lower non-recoverable costs; and
- Collaborate the design environment, allowing multi-designer collaboration.

VSIL deployments support analysis, allocation and tradeoff evaluation for:

- Logistic planning
- Life cycle management
- Vetrionics (Data Control and Data Distribution, Computing and Knowledge Resources, Controls and Displays, Power Management and Distribution)
- Intelligent Agents (human/machine)
- Workload Allocation (human/machine)
- Physical Allocation (power, weight, volume, thermal, and other environmental metrics)

About Cybernet Systems

Cybernet Systems Corporation is a leading American research and development company that engineers technological solutions to some of the world's leading defense and medical challenges. Headquartered in Ann Arbor, Michigan, Cybernet ingenuity can be found in millions of home gaming systems, supporting American troops at installations around the world and providing critical support for medical systems and patients across the country.