

United States Army
Redstone Technical Test Center (RTTC)

What We Do

Virtual Proving Ground (VPG)

The VPG is RTTC's/DTC's newest way of doing business, leveraging the power of modeling and simulation to provide integrated, reusable, reliable, and cost-effective "advanced testing." With the VPG, synthetic environments, databases, models, simulations, and test tools are networked within a proven architecture to conduct valid tests with fewer hardware and human resources. The primary benefits of VPG include:

- Accomplish realistic testing earlier in the development process
- Shorten development/acquisition time
- Prepare product or item for success in final developmental and operational tests

[Click here for a simple and brief discussion and graphic presentation of RTTC's concept of VPG.](#)

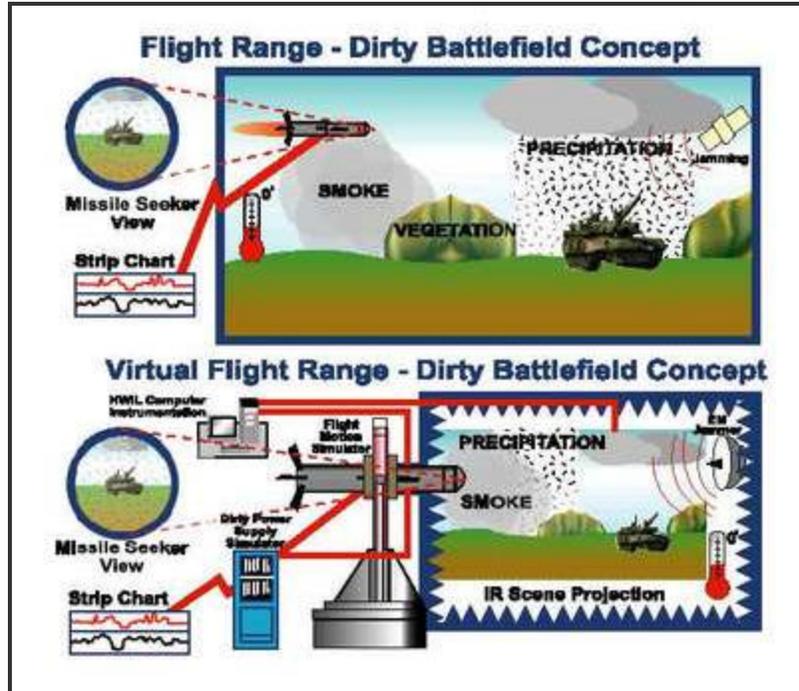
Because of RTTC's close partnership with Aviation Missile, Research, and Development Engineering Center (AMRDEC) and other DoD institutions, a significant range of resources and expertise are leveraged to provide VPG capabilities.

RTTC currently has distributed test capabilities with operational test/user test partners, other DoD RDECs/laboratories, private industry and prime contractors, other DTC Centers, weapons Program Managers (PMs), and evaluators.

The Center's five current VPG focus areas include the following: 1) architecture, 2) integrated information systems, 3) common synthetic environments, 4) common VPG test tools, and 5) unit-under-test interface.

Some examples of RTTC's VPG capabilities include: the

[Virtual Range](#), [Electro-Optic Sensor Flight Evaluation Laboratory \(EOSFEL\)](#), [Dynamic Infrared Scene Projector \(DIRSP\)](#), [Scene Generation](#), [Human-in-the-Loop Distributed Testing](#), [Hardware-in-the-Loop \(HWIL\) Testing](#), [Distributed Testing](#), [Range Operations Components for Integrated Testing \(ROCIT\)](#), etc..



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