LAREDO

APPLIED VISIONS

Load and Route Evaluation for Dismounted Operations
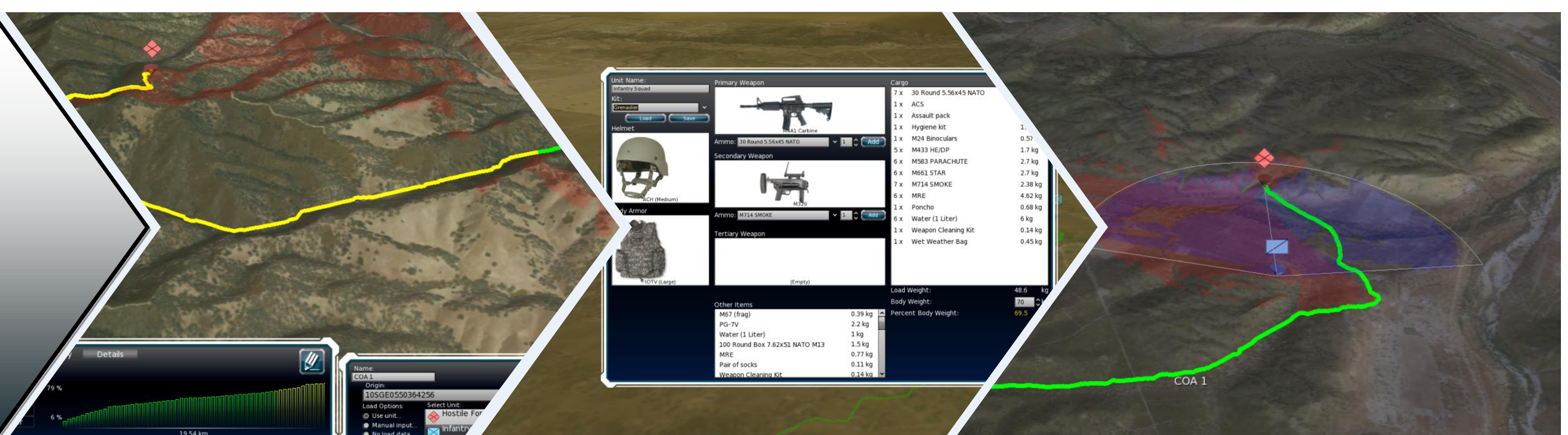

COMPELLING VISUALS

Plan your Mission in photo-realistic environments giving you the edge in analysis of world wide terrain and weather data.

GAMER FRIENDLY =

USER FRIENDLY

Intuitive controls make navigating your data easier than with traditional C2 Systems.

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Help Small Units Get Through Safely

Getting from point A to point B in any hostile environment is challenging. To do so in an unfamiliar enemy territory while taking multiple factors into account is fraught with risk. Yet this is precisely the task facing infantry route planners. Planners must take into account knowledge about soldier equipment loads, terrains, roads and population density, and also dynamic information including enemy positions, local civilian behavior, weather, and other factors that might occur prior to and during plan execution.
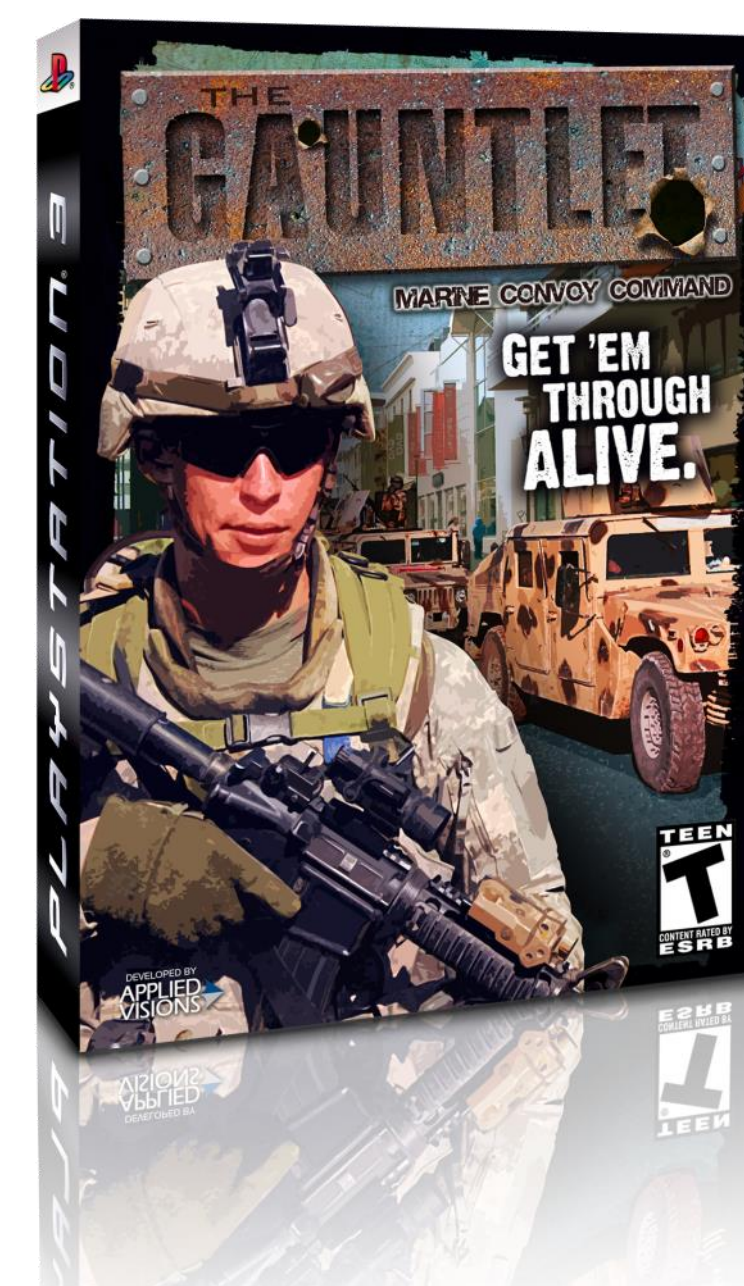
Complex risk factors complicate the planning process. Few experts understand the impact of load, temperature, altitude and humidity on foot marches. Additionally, route planning has to be performed despite 'gaps' in intelligence, including missing information and varying reliability and accuracy due to the source. Finally, route planning in hostile territory usually involves weighing options against costs.

Technology Description

LAREDO is based on advanced terrain reasoning, and visualization technology adapted from the computer gaming market. LAREDO will provide route planners with an unprecedented level of situational awareness, identifying routes and concomitant planning factors in 3D along with accurate National Geospatial Agency (NGA) terrain and feature data.

Game Framework = Great Training

Future plans include development of a training version – The GAUNTLET-- built upon the same "serious games" technology framework. Using game-based AI, GAUNTLET will challenge small unit leaders with realistic scenarios to help them hone the skills needed for mission planning, including route and equipment selection, use of terrain, weather and battlefield tactics to maximize success and safety.

Built atop LAREDO, The GAUNTLET is AVI's serious game concept designed to train squad-level planners in their skillset.

About Applied Visions, Inc.

Applied Visions provides software engineering, product development, and research services for government and commercial customers. AVI specializes in visual solutions to complex defense, national security, information security, infrastructure protection, financial and business problems. AVI serves the Navy, Air Force, Army, DARPA, DHS, the intelligence community, and prominent technology, financial, and Fortune 1000 firms.

About LAREDO

LAREDO was first developed under SBIR Topic A11-129