

SBIR 06.2 PHASE I - AWARD DETAILS	
ORGANIZATION	ERDC
TOPIC NUMBER	A06-137
CONTRACT NUMBER	
YEAR OF AWARD	
AWARD START DATE	
AWARD COMPLETION DATE	
PROPOSAL NUMBER	A062-137-2673
TITLE	Enabling Cross-Domain Exploitation of a Common Geospatial Database
PROJECT MANAGER	Sandra Vaquerizo (407) 737-8800 svaquerizo@cg2.com
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KEYWORDS	common geospatial database, geospatial data, cross-domain, multiple applications, data modeling, metadata, formats, exploitation
ABSTRACT	Our goal is to create a cross-domain geospatial database system that can fully retain and rapidly access the data required for a wide range of applications, from multi-band visualization to constructive simulation. It will preserve the highest fidelity of the source data in the most versatile, application-neutral format. There will be an expandable definition for each data element, where the object can be attributed with information from other domains on import or over time. The system will provide export utilities capable of scaling the requested gaming area within the constraints of the target system, whether main-frame or man-wearable. It will support rapid delivery of data through compressed data streaming, as required. Data evolution through registration, change detection, merging, versioning, and archival, will be automated.
BENEFITS	A cross-domain geospatial database system that meets these objectives will eliminate many of the cross-domain correlation issues that impact both simulation and surveillance activities. Any required external database format could be extruded, while the source is preserved in its original format. This concept will change the database into an independent asset with growth capabilities in support of the military applications listed, as well as commercial applications, including civil defense, search and rescue, and interactive distributed gaming.