



**US Army Corps
of Engineers®**

Engineer Research and
Development Center

CADD/GIS Technology Center for Facilities, Infrastructure, and Environment

Purpose

ERDC's CADD/GIS Technology Center for Facilities, Infrastructure, and Environment coordinates the use of computer-aided design and drafting (CADD) and geographic information system (GIS) activities for facilities, infrastructure, and environment within DoD and with other participating governmental agencies and the private sector. The activities include setting standards, promoting system integration, supporting centralized acquisition, and providing assistance for the installation, training, operation, and maintenance of CADD/GIS and facilities management (FM) systems. They also include directing specific application development, promoting communications, developing and promoting standards, furnishing technical advice, interfacing with professional organizations and industry, evaluating technological developments, and recommending necessary CADD/GIS and FM policy to ensure that maximum benefits are received from these technologies.

Specifications

The Center offers a full range of technical and professional services for CADD, GIS, and FM systems, including development and implementation support for data format and content standards, centralized procurement of products and applications, provision of a clearinghouse for information exchange, and furnishing technical assistance to managers and users of these systems.

The Center staff consists of more than 20 professionals with advanced degrees and extensive experience in the use of CADD and GIS technology to solve complex problems related to facility management, environment compliance and cleanup, natural and cultural resources, planning, civil works functions, and all engineering design disciplines. The staff members are available to assist sites in implementing its Spatial Data Standards for Facilities, Infrastructure, and Environment; Facility Management Standards for Facilities, Infrastructure, and Environment; and Architectural/Engineering/Construction (A/E/C) CADD Standard. The Center is also available to demonstrate other tools such as the CADD Details and Electronic Bid Solicitation packages and to discuss any issues or problems users might have.

Benefits

The projects developed by the CADD/GIS Technology Center benefit many installation facility management and civil works operations and maintenance activities by providing:

- Improved business practices taking advantage of CADD/GIS technology.
- Cost avoidance and reduced design time for projects through application of universally adopted standards.
- Cost-effective integration of CADD-based maps and design drawings with GIS-based technology.
- Electronic processes to enable paperless transactions and compliance with initiatives such as One-Door-to-the Corps, Army Single Face to Industry, FedBizOpps, and DODBizOpps.

Success Stories

The Center has received two Vice President's Hammer Awards for Excellence in Reinvention of Government: one in 1996 for its Electronic Bid Solicitation, and the second in 1998 for developing and promoting CADD/GIS standards, facilitating government and private sector cooperation, and centralizing CADD/GIS acquisitions. In 2001, the American National Standards Institute endorsed the Center's Spatial Data Standards



for Facilities, Infrastructure, and Environment as NCITS 353. This national standard enables the common collection and interoperability of spatial data by government agencies, academia, and industry.

Point of Contact

For more information, contact Harold L. Smith, Chief, The CADD/GIS Technology Center for Facilities, Infrastructure, and Environment, at 601-634-4190 or e-mail to Harold.L.Smith@erdc.usace.army.mil.