



Geospatial Experts

The 320th Engineer Company (Topographic) is located within the Hanau Military Community on Grossauheim Kaserne. The Company is subordinate to the 565th Engineer Battalion, 130th Engineer Brigade. The 320th provides Geospatial Engineering support to the Corps staff and units.

Those who do not know the conditions of mountains and forests, hazardous defiles, marshes, and swamps cannot conduct the march of an army.
-Sun Tzu

Geospatial Engineering (GE) is the management, development, dissemination, and analysis of positionally referenced terrain information. GE provides mission tailored data sets, tactical decision aids and visualization products defining the physical character of the battlefield for the maneuver commander. Key aspects of this mission are geospatial databases, analysis, positional control as well as traditional and nontraditional hardcopy products. GE is the one engineer function that deals principally with information.

The Engineer community has realized the need for providing battlefield visualization, and has imparted on a mission to modernize their topographic assets. These modernizations include state of the art equipment to better provide Terrain Analysis, Geodetic Survey, and Reproduction assets while significantly reducing the company's footprint.

The 320th Engineer Company is prepared to support all V Corps units with a timely, accurate portrayal of the battlefield.

Let us help you establish Situational Awareness by providing a long list of Geospatial Information and Services (GI&S).

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320th Engineer Company

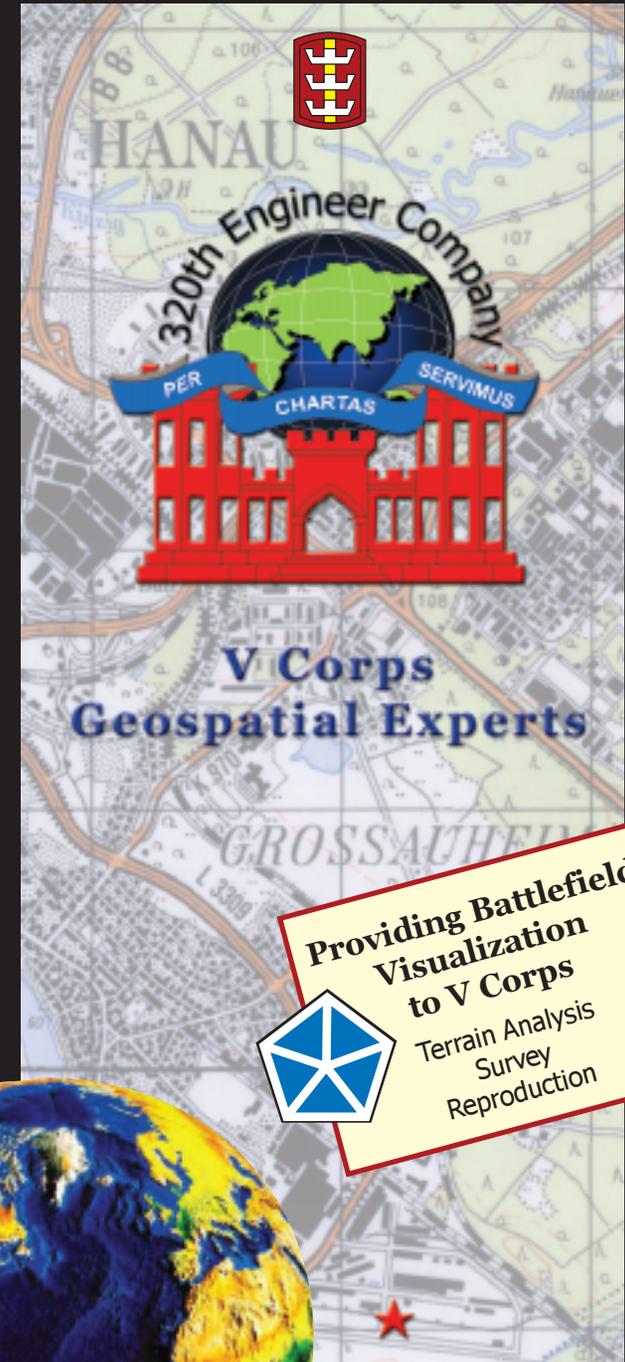
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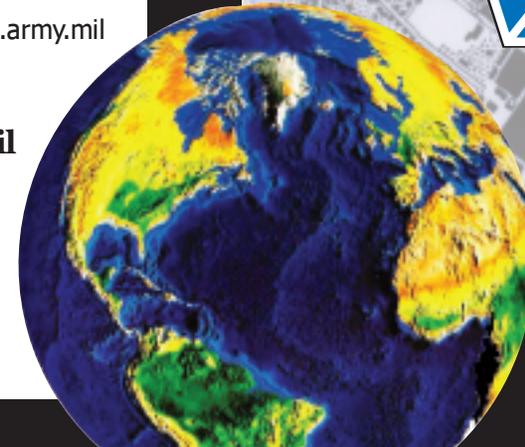


320th En Co 09/01



Providing Battlefield Visualization to V Corps

Terrain Analysis
Survey
Reproduction



Map the World

Terrain Platoon (Direct Support)

Co-located with the Staff Engineer Section (SES), V Corps Headquarters in Heidelberg, the Terrain Platoon provides the following geospatial services:

Requirements management
Data collection management
Information production management
Information database management
Information delivery management
Production work group management
Data collection
Data preprocessing
Data generation
Data integration and conflation
Data export
Data post processing
Geospatial Exploitation & Analysis



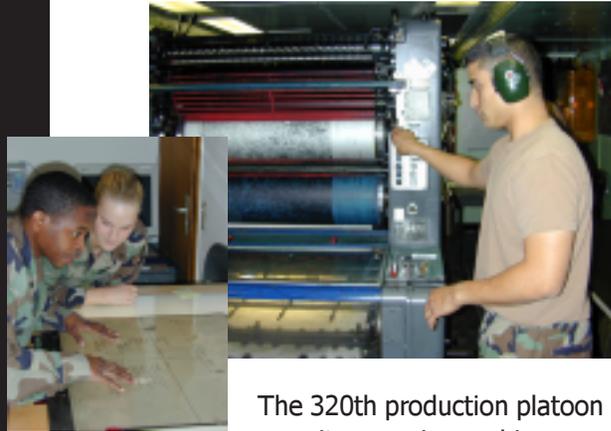
[This function principally supports the intelligence preparation of the battlefield (IPB), engineer battlefield assessment (EBA) and the military decision-making process (MDMP) with an understanding of the impacts of terrain on military operation]

Terrain Team (General Support)

The 320th has established an internal terrain team equipped with the newly developed Terrain Force Enhancement Module (TFEM). This team presents a small, high tech footprint, is rapidly deployable, and primarily performs Geospatial Exploitation & Analysis. The TFEM was designed to assist the Terrain Platoon with deployment requirements of brigade-size elements. They provide the corps with an additional asset in support of battle-field visualization.

Production Platoon

Reproduction is the process of creating hard-copy maps and geospatial products from original drawings, reproduction materials (repro mats), images and analysis products.



The 320th production platoon uses its organic graphic support, photomapping, and printing capabilities to produce high volumes of special map products which are not normally available through the Defense Logistics Agency.

The 320th's reproduction equipment includes, but is not limited to:

Single-color lithographic presses
High Volume (digital) Map Production
Color plotters
Digital-film processors

The want of accurate maps has been a grave disadvantage to me. I have in vain endeavored to procure them, and I have been obliged to make shift with such sketches as I could trace out of my own observations and that of gentlemen around me.

-General George Washington

Survey Platoon

Surveyors determine horizontal and vertical distances between objects, measure angles between lines, determine the direction of lines and establish points of predetermined angular and linear measurements.

After completing field measurements, surveyors use these measurements to compute a final report that is used for positioning by field artillery (FA), air-defense artillery (ADA), aviation, intelligence, communications, or construction control points.



The 320th's Survey Platoon has conducted and supported a wide variety of surveys. Supported Surveys are as follows:

Artillery
Basic control
Satellite
Construction
Airfield engineering and NAVAID
Hydrographic
Field classification and inspection
Land
Inertial

