

# TRANSCAP: A Simulation Model of Army Installation Outloading Operations

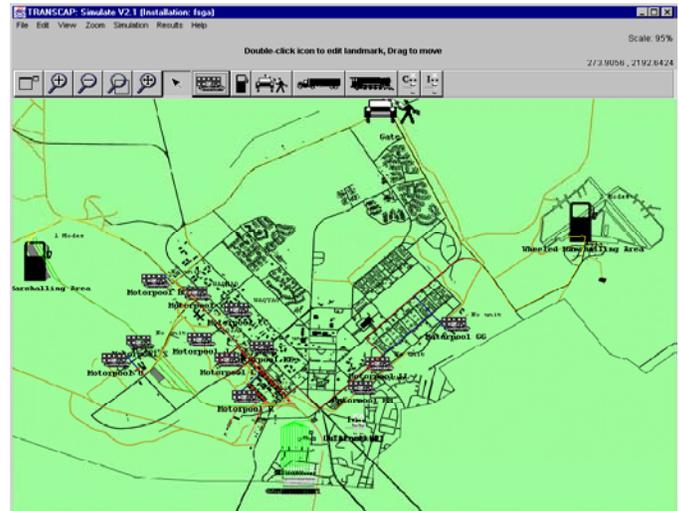
**What is TRANSCAP?** TRANSCAP is a detailed time-stepped, stochastic simulation model of highway and railroad outloading operations at Army installations. It's primary focus is modeling the detailed step-by-step deployment processes by which military forces deploy. The model has two levels of capability. TRANSCAP is an information system with reference links to infrastructure, unit equipment, and asset databases. It is also a simulation (with animation capabilities) that models the details of processing of equipment, supplies, and transportation assets from installations. TRANSCAP will be an integral part of end-to-end deployment modeling systems to support deployment planning and will be able to operate in standalone mode and used by installation officers in planning and executing deployments.

**What Does TRANSCAP Do?** TRANSCAP determines a throughput capability of an installation under various assumptions, identifies infrastructure constraints such as highway or rail, and provides installation-specific clearance profiles. A number of databases are integrated into the system for easy access and reference. The simulation is dynamically animated for visual monitoring and quick identification of installation problems. Future development activities include the use of real-time data on outloading operations in the simulation.

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**TRANSCAP Is An Information Source for Outloading Operations**



**TRANSCAP Models the Dynamics of Installation Outload**

**Why is TRANSCAP Being Developed?** TRANSCAP is an installation simulation model that is...

- *Detailed.* Movement and status of each unit and vehicle is modeled.
- *Dynamic.* Start-stop capability for modeling events and new information
- *Versatile.* Useful for installation infrastructure and deployment planning, command and control, and training.
- *Easy-to-use.* Modern graphical user interface techniques, self-directing screens, and point-and-click menus.

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