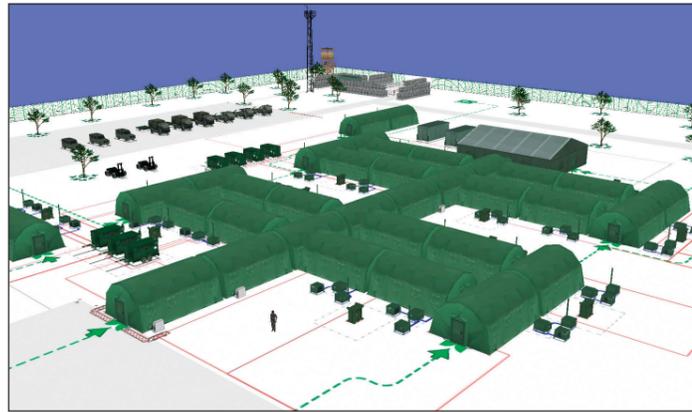


Planning and Exploration Tool



Command post



Field camp



Medical facility

Features

- Automated planning of the technical infrastructure
- Short planning times
- Integrated set-up rules
- Plausibility check
- Detailed query possibility of component data
- Automatic positioning of heaters, air conditionings and storage tanks
- Automatic and consumption-optimised laying of electric lines, water and sewage pipes, telephone and network wires
- Creation of escape and rescue plans
- Automated planning of escape ways including automatic positioning of emergency exits, smoke detectors and fire alarm systems
- Calculation of material requirements
- True-to-scale output of set-up plan variants
- Creation of reports/parts lists

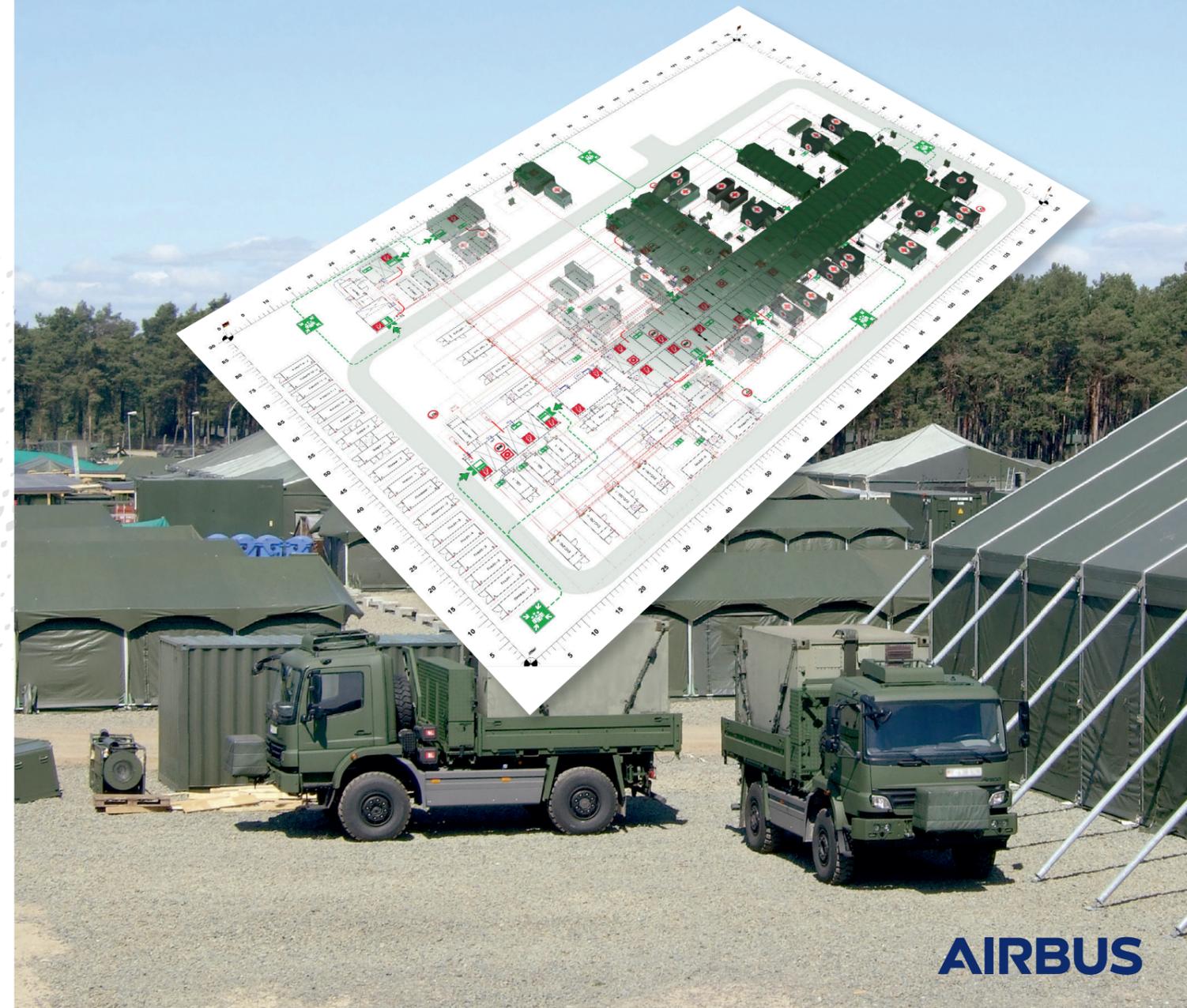
Additionally available

- Life-cycle-cost analysis for the calculation of operating and maintenance costs and the required personnel
- Computer-aided training program for the instruction of set-up supervisors

DEFENCE AND SPACE

PET

Planning and
Exploration Tool for
Deployable Infrastructures



AIRBUS

Airbus Defence and Space

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AIRBUS

PET - From Planning to Set-Up

The set-up planning for deployable facilities as field camps, command posts, medical facilities and other mobile systems constitutes a particular challenge for the set-up supervisor.

Depending on the mission and the local situation, a suitable arrangement of individual components must be chosen from a variety of set-up variants. This set-up configuration shall guarantee a smooth operational, logistical or also medical process and take into account the optimum utilisation of resources.

For this purpose, Airbus Defence and Space has developed an innovative tool: The „Planning and Exploration Tool“ (PET). This program allows the fast, easy and automatic implementation of the set-up planning, including the technical infrastructure.

PET uses Microsoft Visio®* and contains all components (containers, tents, supply elements, etc.) required for the set-up of a mobile facility.

The holistic approach of PET allows the planning of a fully functional facility quickly and with a few simple steps.

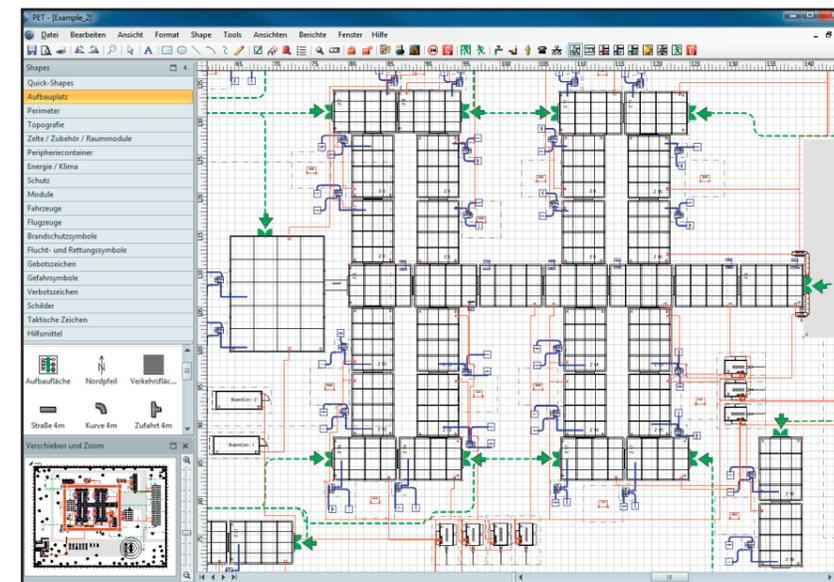
A major advantage is the possibility of visual representation as:

- a two-dimensional plan,
- a three-dimensional facility which is accessible virtually and can be seen from different angles of view,
- a three-dimensional facility projected to the geo-referenced satellite image of the planned place of operation.

Functions and scope of services

- Easy set-up planning of a facility with the operational functionality of Microsoft Visio®* and true-to-scale components
- Automated planning of the complete technical infrastructure
- Compliance with safety and set-up instructions by underlying rules and plausibility
- Automatic positioning of heaters, air conditionings and storage tanks
- Automatic, consumption-optimised laying of electric lines, water and sewage pipes, telephone and network wires with regard to the minimum material requirements

- Automated planning of escape ways including automatic positioning of emergency exits, smoke detectors and fire alarm systems, etc.
- Specific display filters:
 - Measurement plan
 - Wiring diagram
 - Water/sewage pipes plan
 - Telephone and network plan
 - Functional plan summer/winter
 - Escape and rescue plan
 - Fire protection plan
- Automatic creation of reports/ parts lists:
 - List of survey points
 - Components list
 - Layout and distribution plan of the power supplies
 - Layout drawing of water and sewage pipes
 - Material requirements report for power lines, water and sewage pipes, telephone and network lines, etc.
- 3D Viewer for the three-dimensional visualisation of the planned set-up



PET – detailed view

3D PET Viewer

The basic functionality of the 3D Viewer consists in the visualisation of virtual structures from different perspectives:

- 3D aerial view camera
- 2D overview camera
- Virtual exploration by a virtual person (Avatar)

The representation can be implemented on different surfaces. In addition to a standard surface, it is also possible to use views from the planning tool (e.g. detailed view). By means of an underlying geo-referenced satellite image, the planned structure can be virtually placed in the planned area of operation to be able to consider the terrain situation.



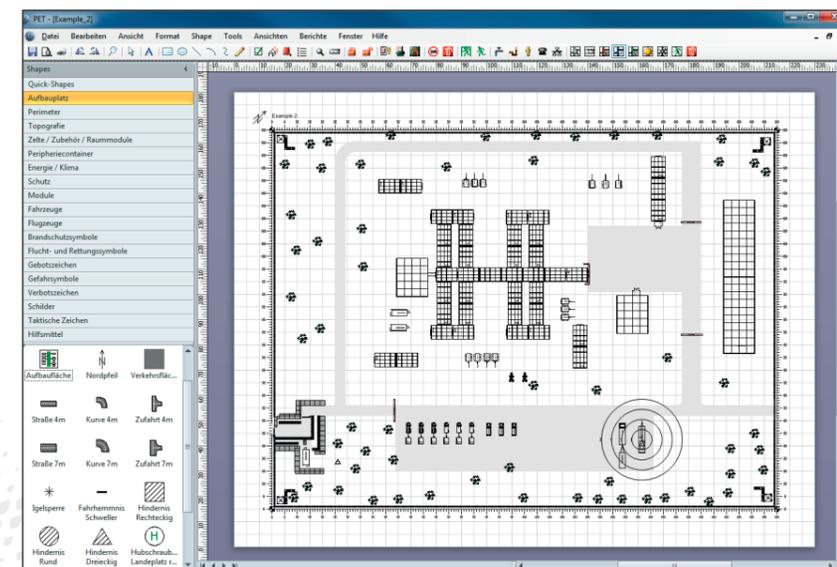
3D aerial view



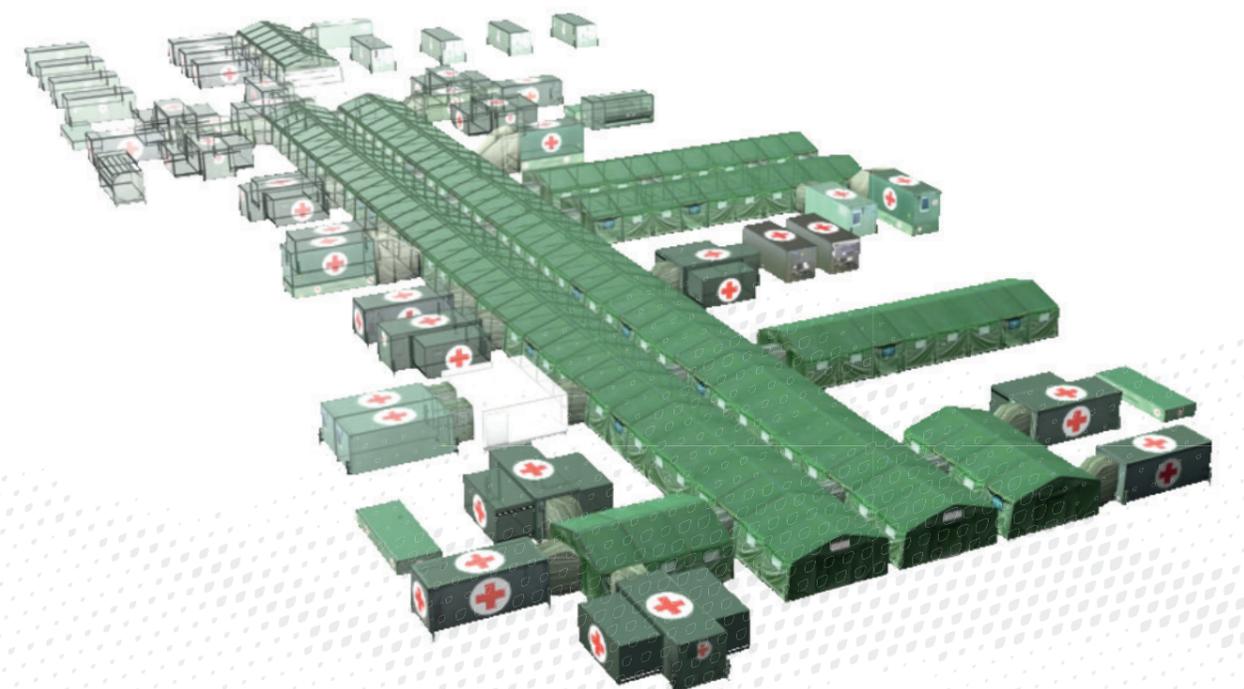
Virtual exploration



Geo-referenced set-up



Planning and Exploration Tool



* Microsoft® and Visio® are registered trademarks of Microsoft Corporation in the United States and/or other countries.