SCIPIO

The next-generation
Army training simulation solution

MASA Group

THALES

SCIPIO:
integrated CGF for full Command Post training

SCIPIO is a training system
for Army brigade-level and divisional HQs

TRAINING FORCES IN THE DIGITAL BATTLEFIELD

SCIPIO will provide the Army
with three new key training capabilities:

● **Automated simulation control:**
simulation entities are controlled by autonomous command agents

● **Seamless C4I integration:**
reports fully formatted by SCIPIO and sent to C4I systems according
to established procedure; orders decoded, usable elements checked
by controllers and sent to command agents

● **Modern warfare modelling:**
SCIPIO comprises modelling of multi-sided conflicts, asymetric warfare

SCIPIO:
Integrated toolset

SCIPIO includes a set of tools to provide users with preparation, wargaming and after action review functions.

> Order Of Battle
> Natural environment
> Technical configuration
> C4I initialisation

PREPARATION

> DISTAFF
> Controllers

WARGAMING

> Exercise replay
> Analysis tools
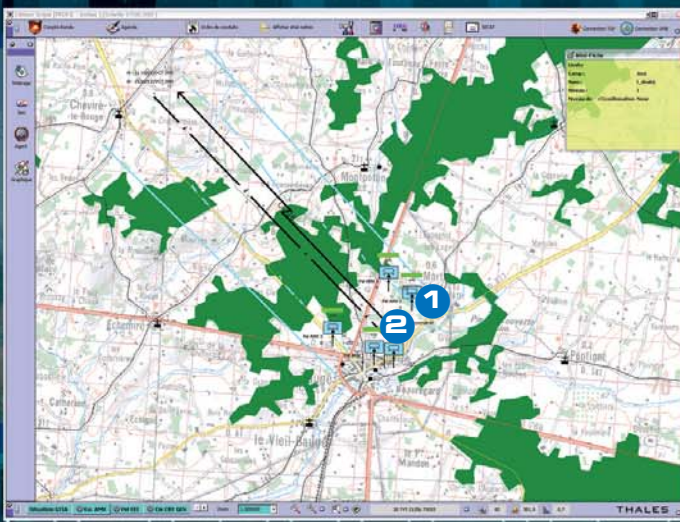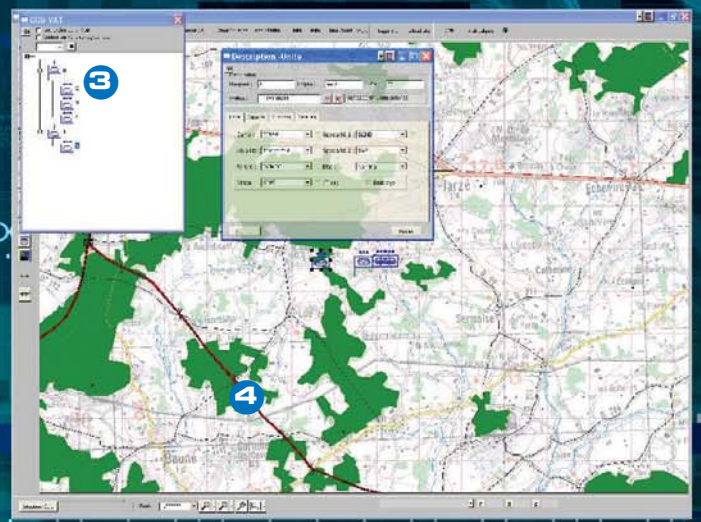> Debriefing facilities

AFTER ACTION REVIEW

SCIPIO:
A new way of commanding simulation entities

*Linked with higher command system and lower command agents,
the controller's MMI is similar to a C4I system.
Benefits include significant reductions in exercise control staffing
and realistic reporting flows.*

**One controller commands up to a full
battalion at company-aggregated level**

1 APP6A symbology

2 Entities commanded with graphical
orders issued by next-highest C4I
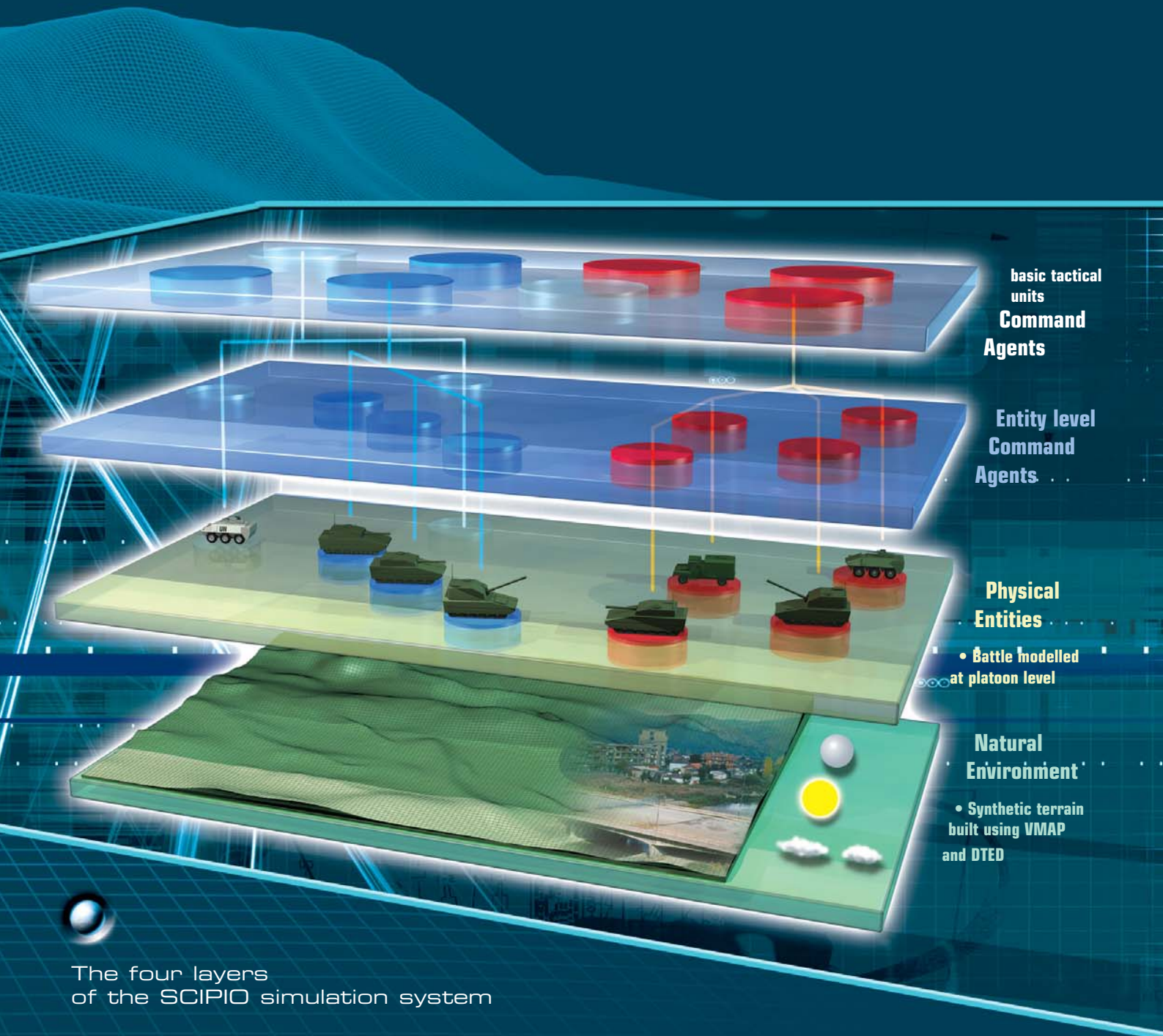
3 OOB view of controlled company

4 Each company controlled through
a dedicated view of its perceived
situation

SCIPIO:
Automated simulation

Simulation is automated using a unique artificial intelligence technology, with intelligent agents acting as commanders of basic tactical units. Army doctrine is input directly to SCIPIO command agents for full coverage of operational branches.

basic tactical units
Command Agents

Entity level Command Agents

Physical Entities

• **Battle modelled at platoon level**

Natural Environment

• **Synthetic terrain built using VMAP and DTED**

The four layers
of the SCIPIO simulation system

Key benefits of SCIPIO

- *seamless integration of C4I and simulation system*
- *automated simulation control*
- *significant reductions in exercise control staffing*
- *HLA-compliant*

SCIPIO - the core system
of the French HQ training centre

- 9 brigade-level or divisional exercises
  per year

- Up to 5,000 simulated agents
  operating simultaneously
  on the synthetic battlefield

- 180 connected Windows XP
  workstations deployed over 3,000 m²

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