



**DoD Maintenance Symposium and Exhibition
Orlando, Florida**

Restructuring Maintenance for the 21st Century

**An Overview of German Transformational Efforts in the
Field of Logistics**

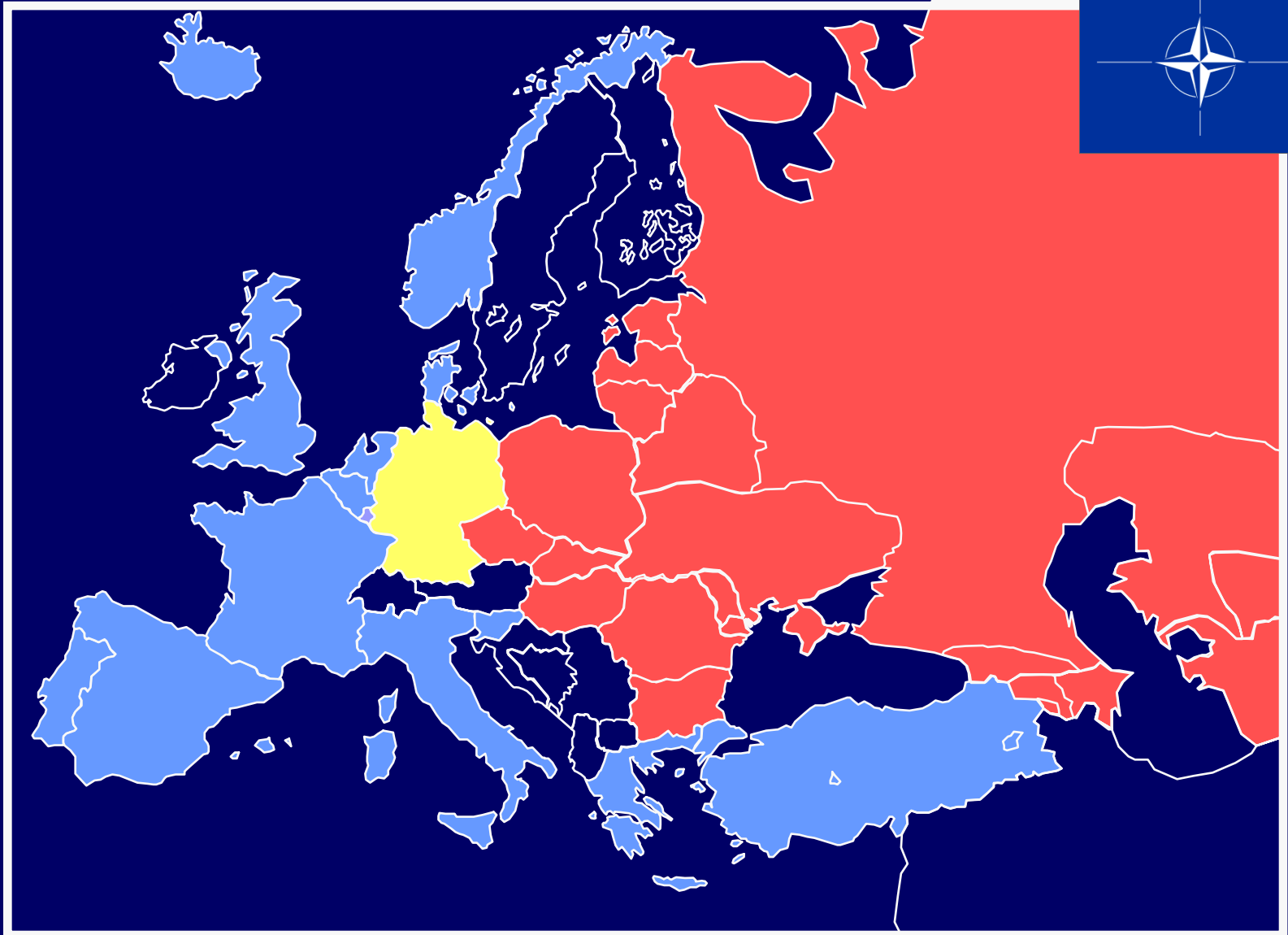
**Kurt Helmut Schiebold
Brigadier General
GenHLogTr und Kdr TSL/FSHT**

Outline

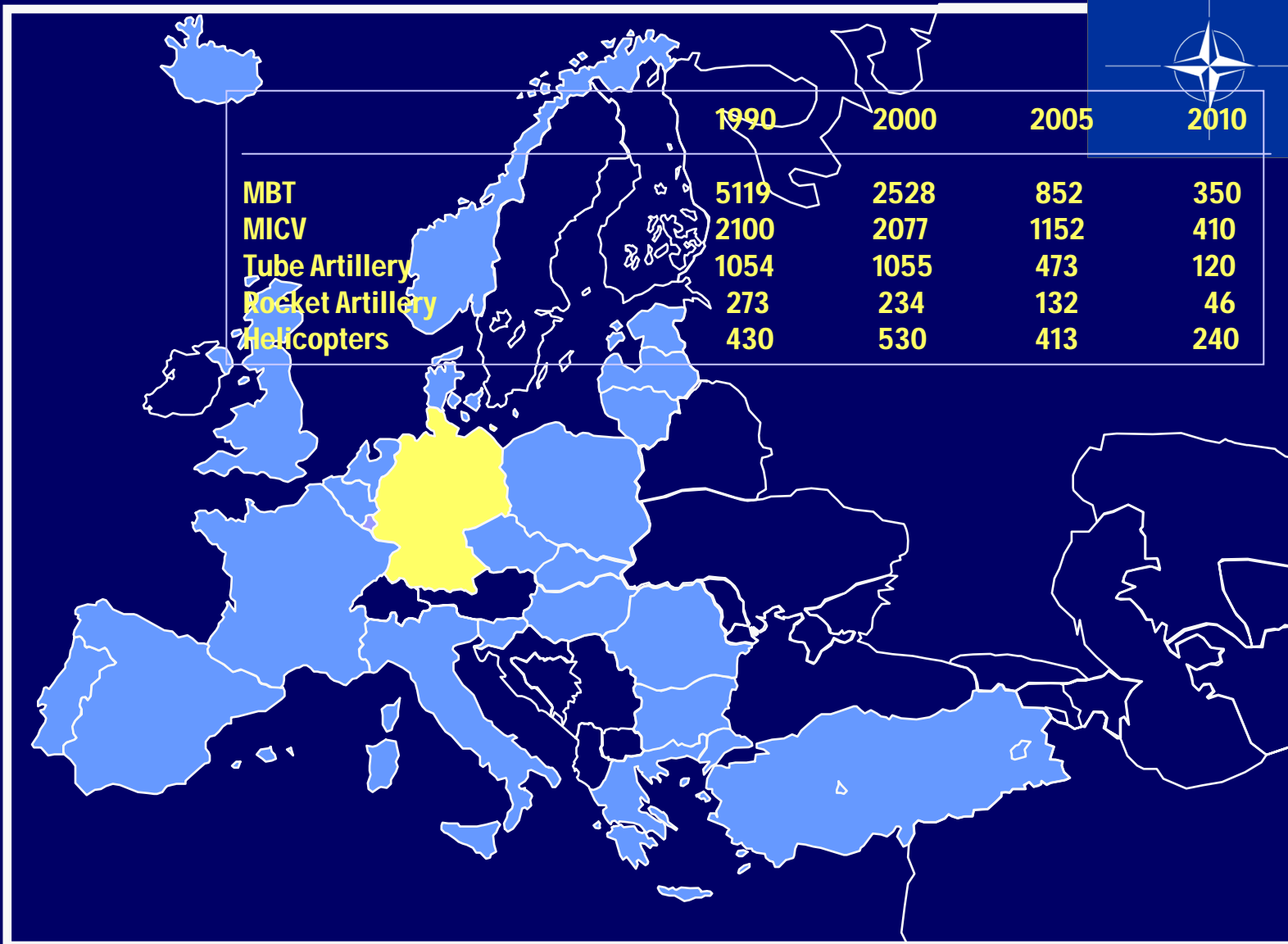
- Situation
- Why transformation ?
- Why maintenance ?
 - Ends
 - Ways
- Outlook



Situation prior to the 90s



Situation since the 90s



Why transformation ?

- new requirements
 - expeditionary operations
 - new missions
- new commitments
 - NRF, EUBG
- new technology
- limited resources



Why maintenance ?

- big
- soft
- complex
- immobile
- expensive
- demanding



Ends

- lean
- fast
- effective
- operation's driven
- network enabled



Ways

- concentration
- cooperation
- multinationalization
- innovation



Concentration



logistic process responsibility
Joint Support Service

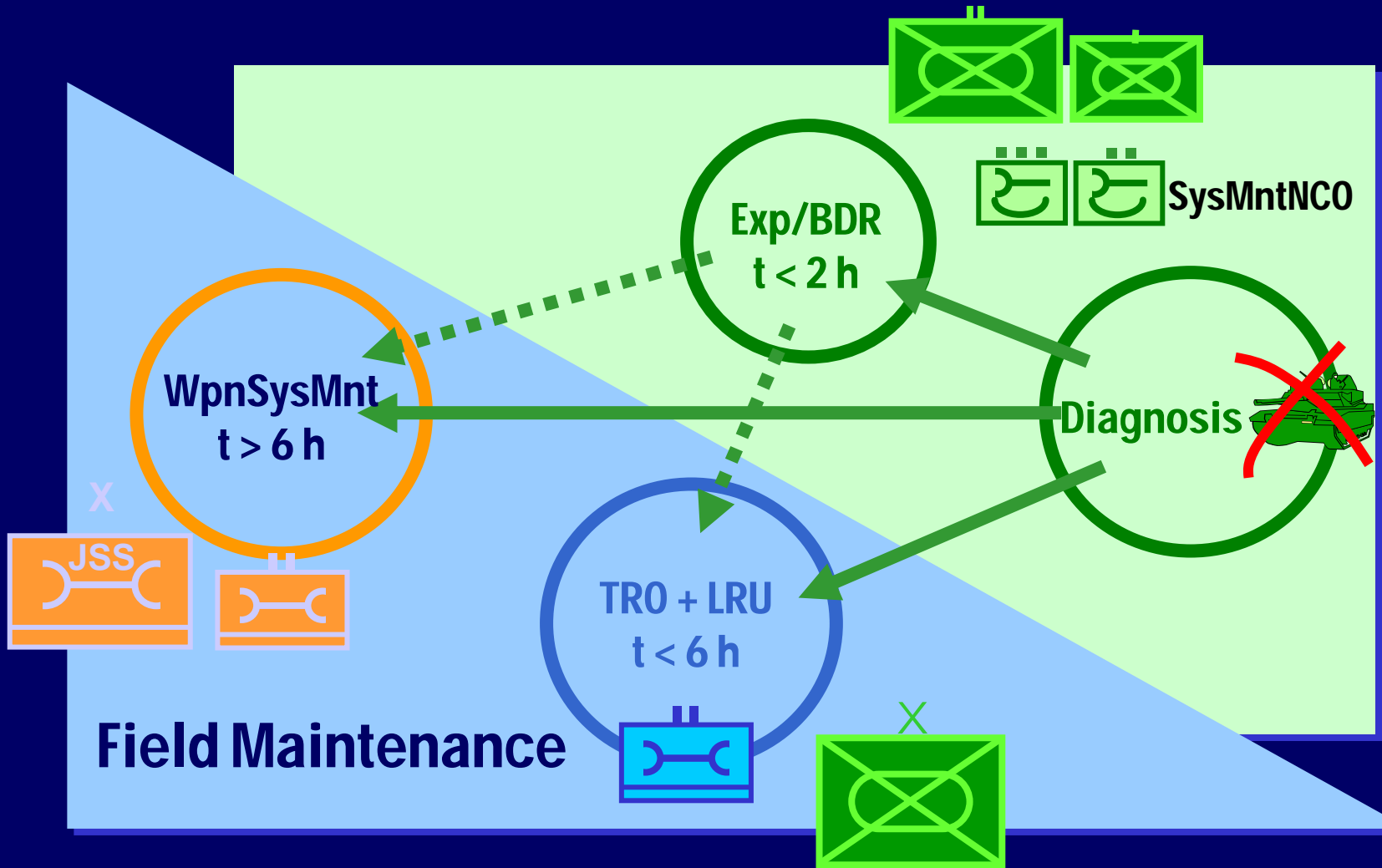
Basic Logistics

Battlefield Logistics
(organic logistics)



Concentration

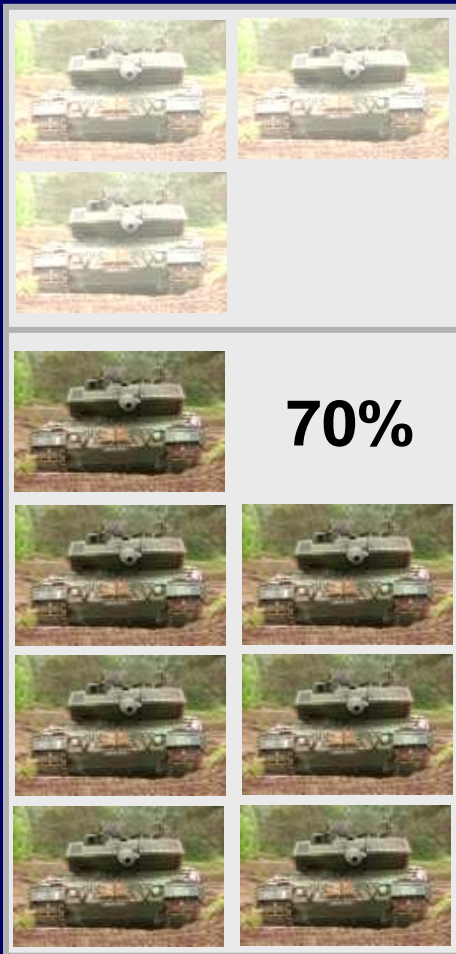
Diagnosis-/Expedient Repair-/BDR Capabilities



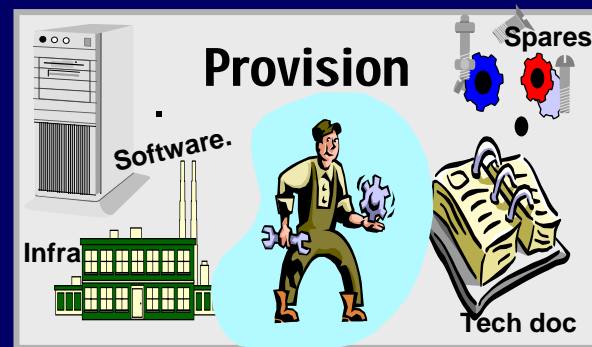
Cooperation

Army Material Maintenance Company Ltd. (HIL)

AML services



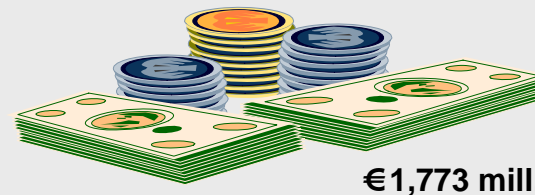
Federation obligations



+ € 5,210 mill.

2005
to 2013

Financial compensation



Multinationalization

No mutually accepted multinational maintenance policy

Obstacles:

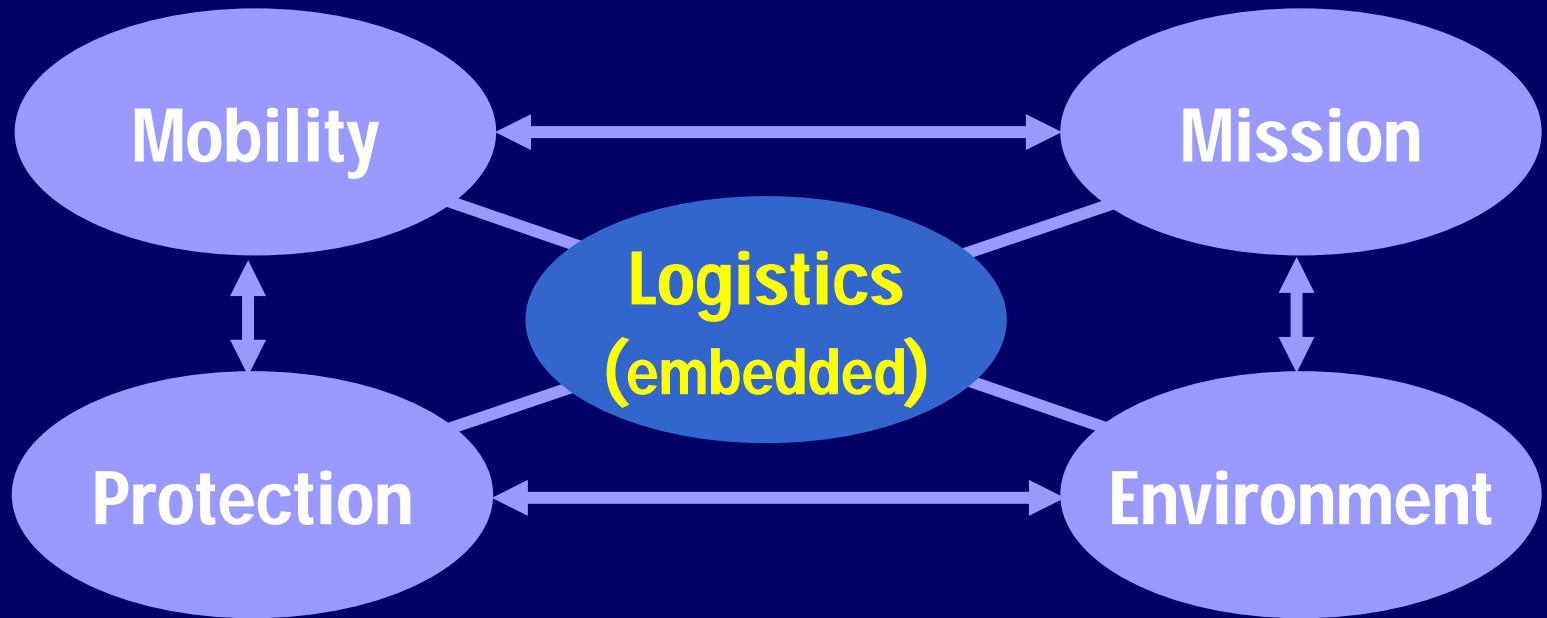
- Land systems diversity
- National defence technology interests
- National technical and legal standards
- Maintenance standards
- Rules for the utilisation of HNS, TPLSS

Option:

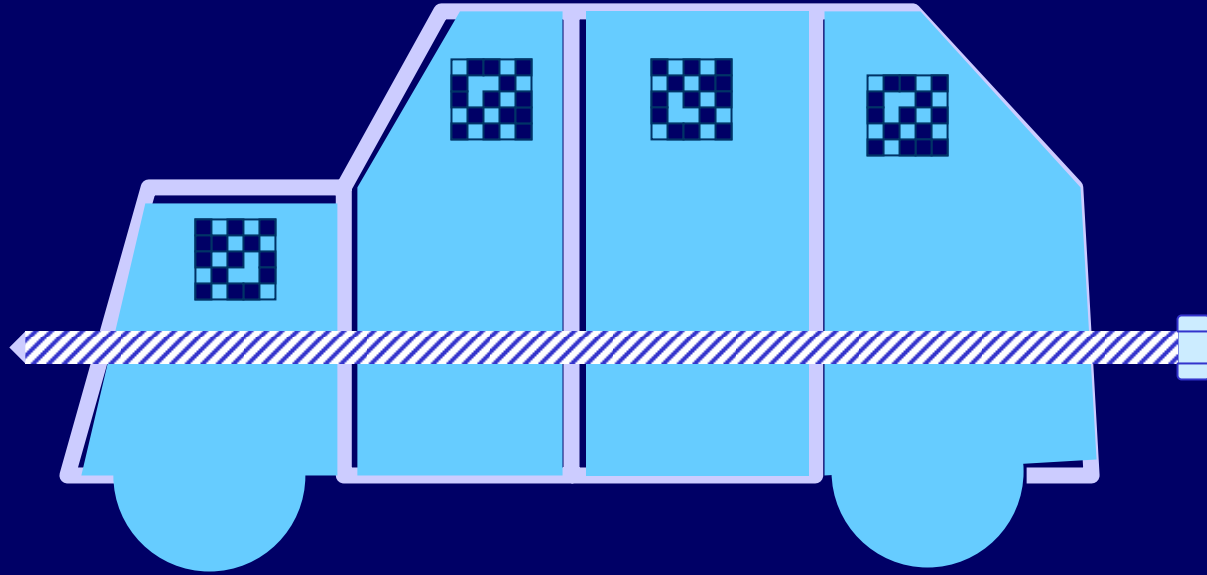
- Combined use of infrastructure, lifting gear, tools



Requirement criteria for Landsystems



Innovation





Innovation



Telemaintenance: Functional Elements



Operator

Remote Diagnosis

Maintenance Personnel



E-mail
Chat room
VoIP
Data transfer
Video

Manufacturer/Industries



Army Support Center

Manufacturer's Database

Knowledge Database



Technische Schule Landsysteme
Fachschule des Heeres für Technik



Summary and Outlook to

Restructuring Maintenance for the 21st Century

- ⊕ Expedient-/Battle Damage Repair Capability ($t < 2h$)
- ⊕ Battlefield Maintenance
 - ⊕ TRO/LRU ($t < 6h$)

- ⊕ Cooperation with Industry
- ⊕ Telemaintenance Capabilities
- ⊕ RFID-type LRU/spare accountability
- ⊕ Embedded Logistics

close support

general support

- ⊕ Reset Maintenance





**DoD Maintenance Symposium and Exhibition
Orlando, Florida**

Restructuring Maintenance for the 21st Century

**An Overview of German Transformational Efforts in the
Field of Logistics**

**Kurt Helmut Schiebold
Brigadier General
GenHLogTr und Kdr TSL/FSHT**

**Technische Schule Landsysteme
Fachschule des Heeres für Technik**