



Optimizing the Maintenance Process in Theatre

The German Approach to Army Operational Logistics



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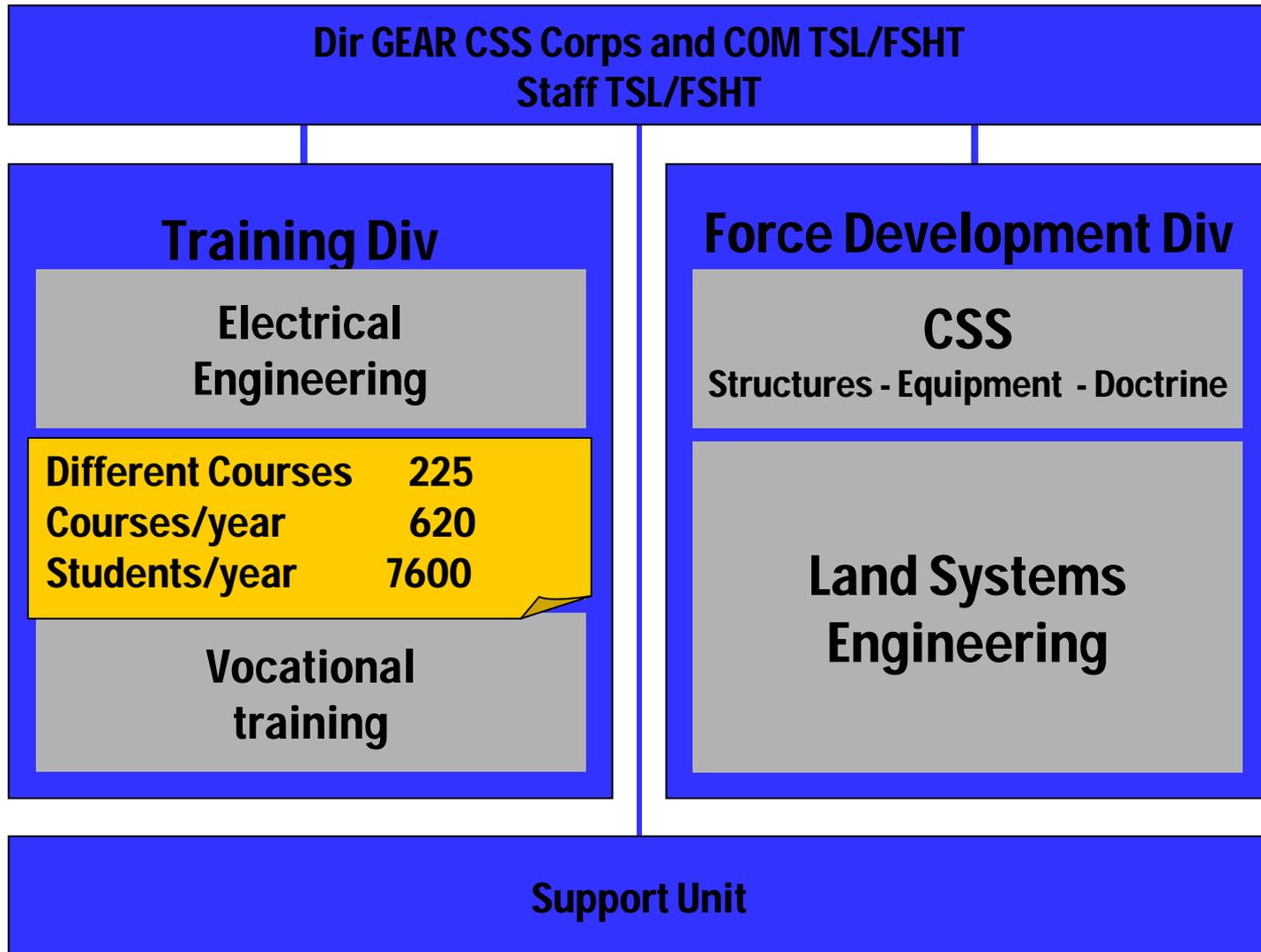
Outline



- **Situation**
- **Logistics Network**
- **Materiel Evacuation Chain**
- **Tuning the Maintenance Process**
- **The New Concept**
- **The Way Ahead**
- **Summary**



German College for Land Systems Engineering and Army School of Engineering (TSL/FSHT)





Situation



- **New requirements**
 - **expeditionary operations**
 - **new missions**
- **New commitments**
 - **NRF, EUBG**
- **New technology**
- **Limited resources**



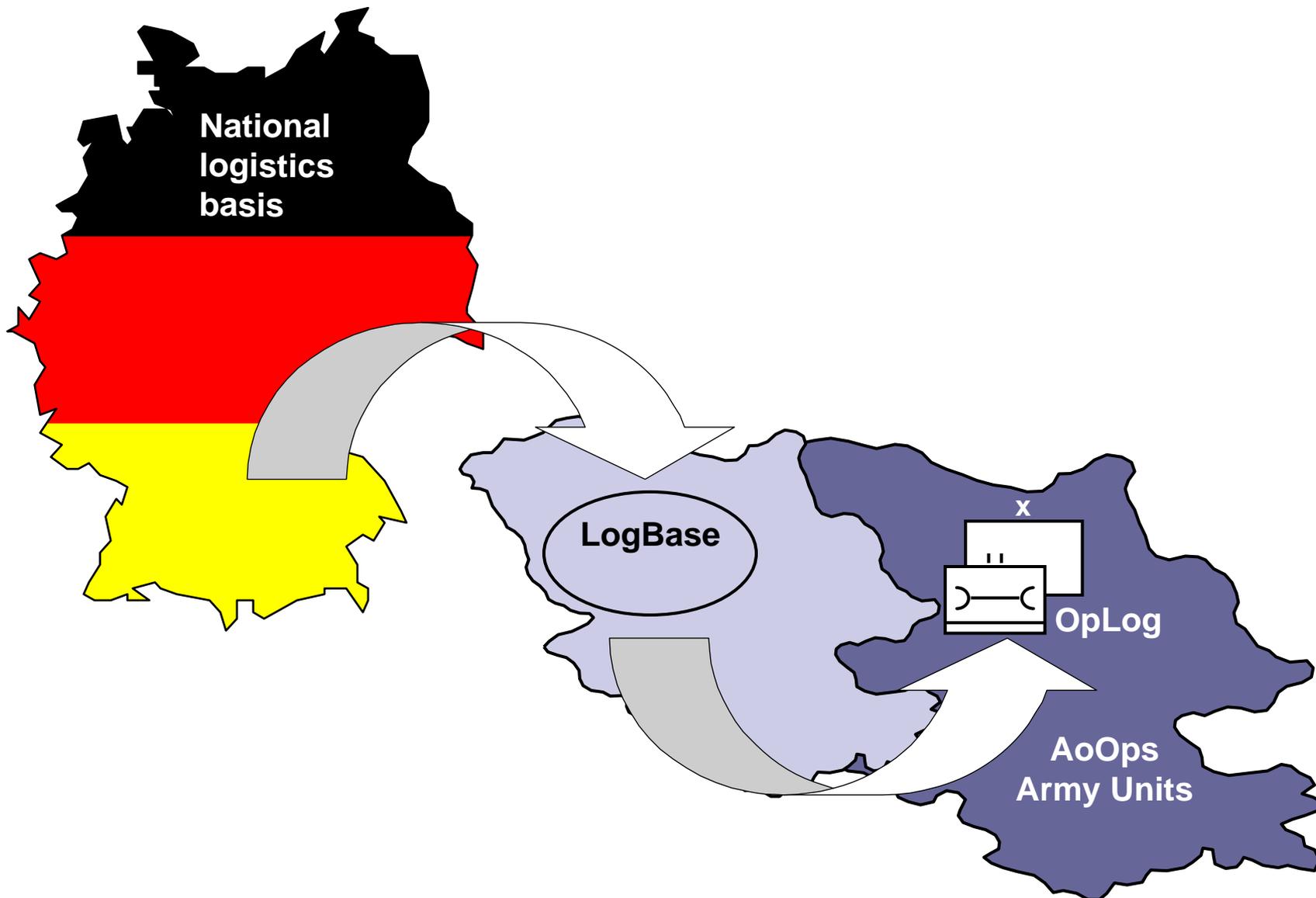
Core Capabilities – Army Logistics



- **lean**
- **agile**
- **fast**
- **robust**
- **customer driven**
- **effective**



Logistics Network



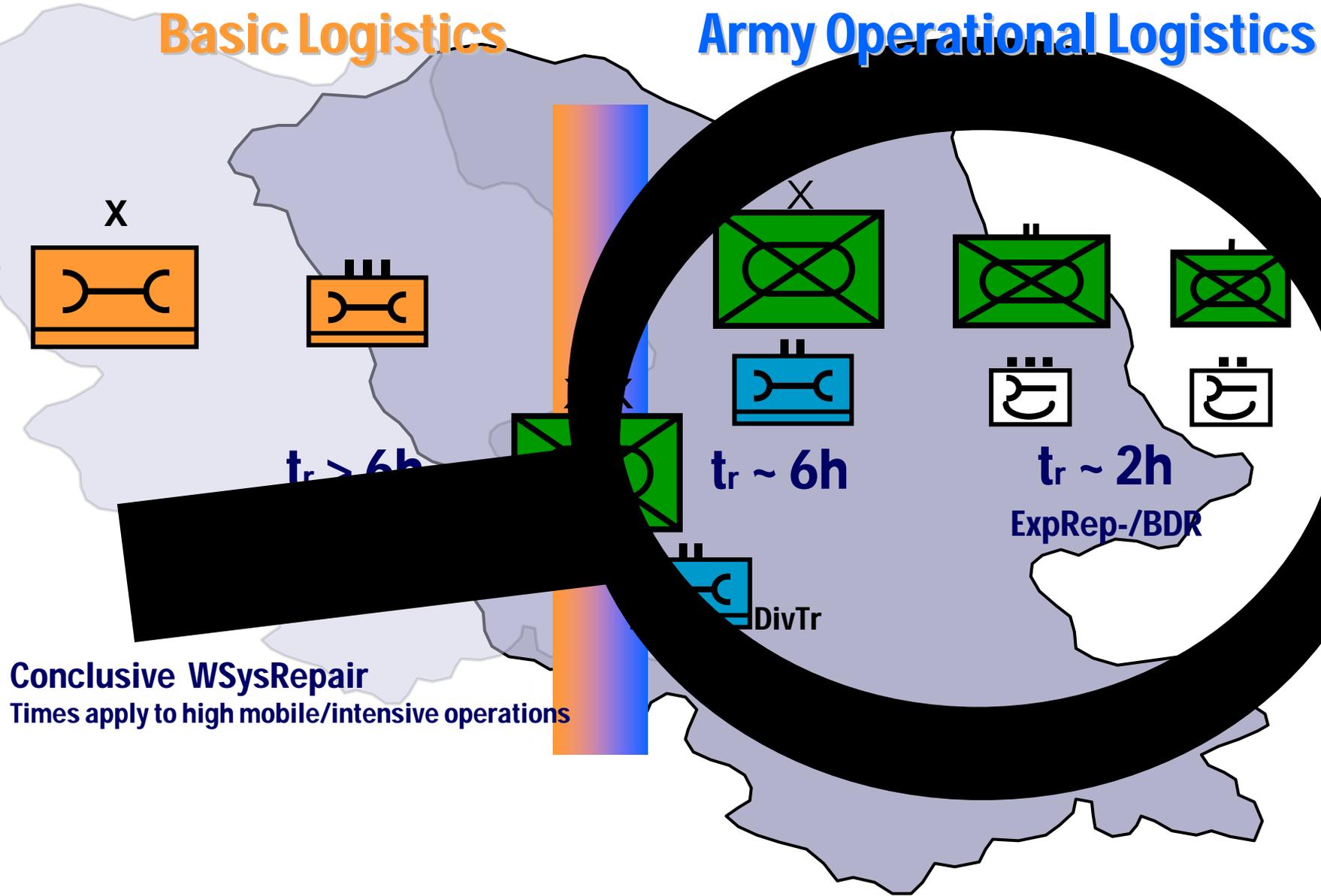


Logistics Network

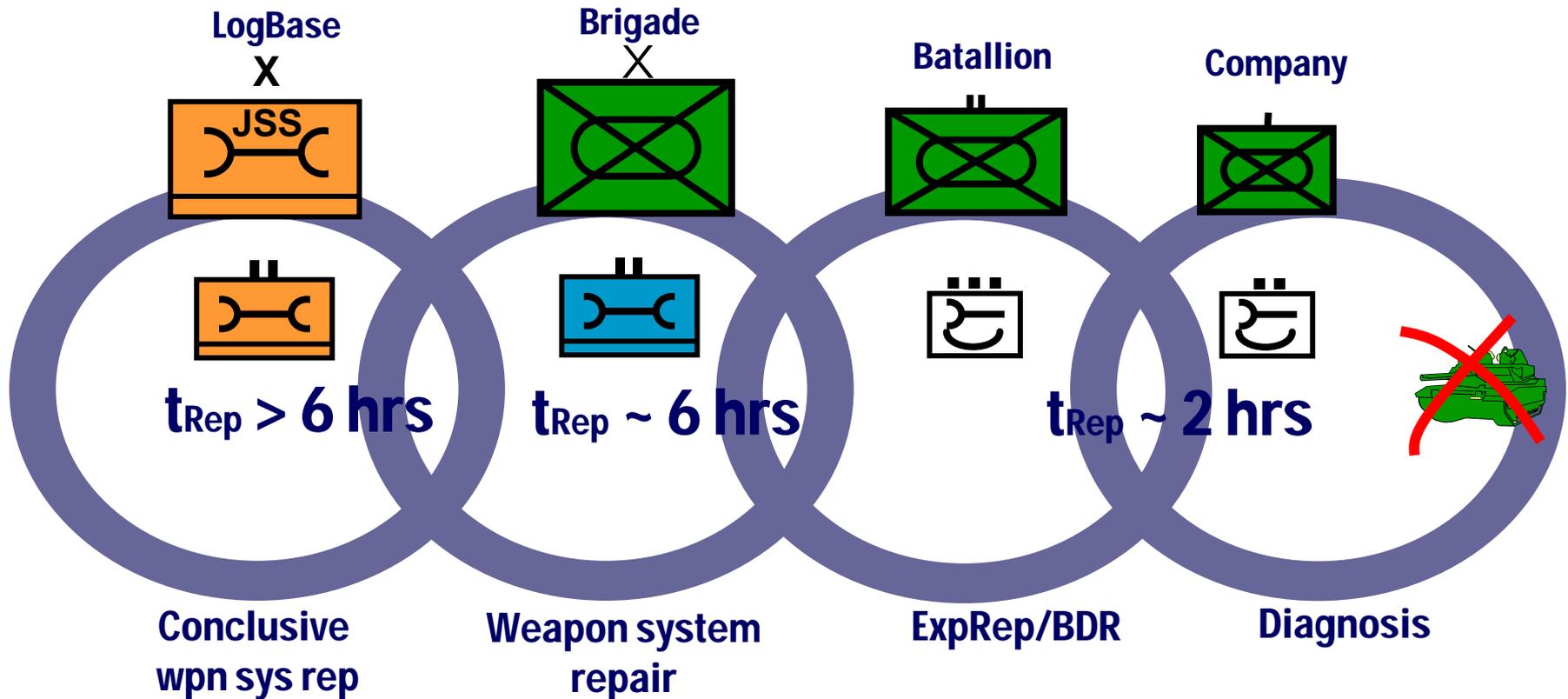


Basic Logistics

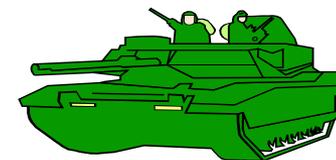
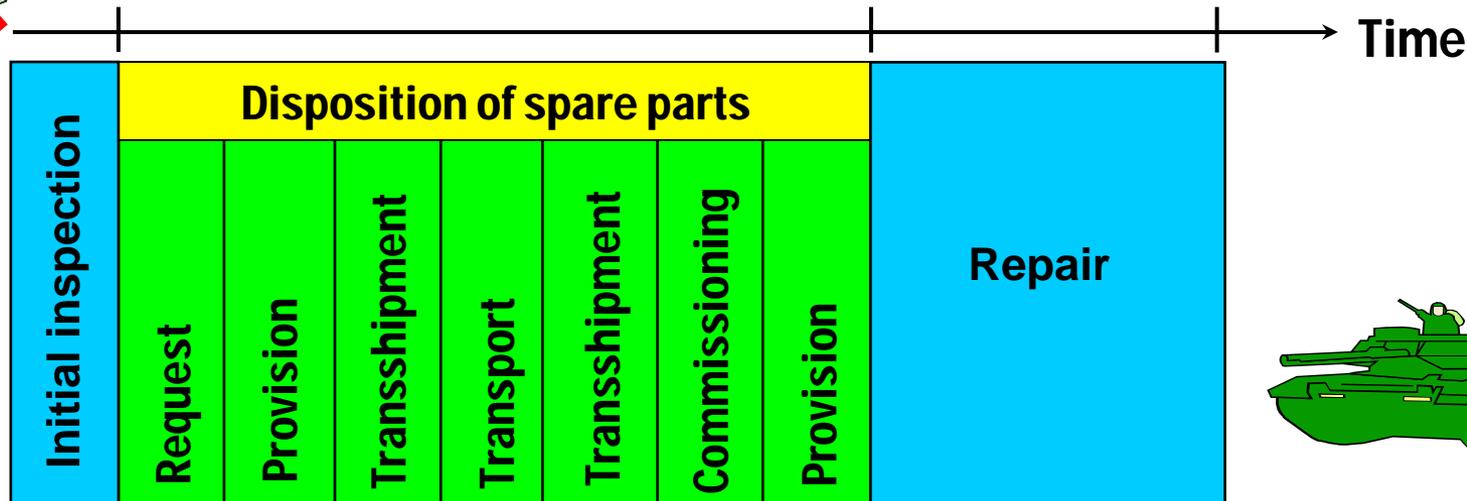
Army Operational Logistics



Interaction in Composite Land Force Operations: 'Materiel Evacuation Chain'



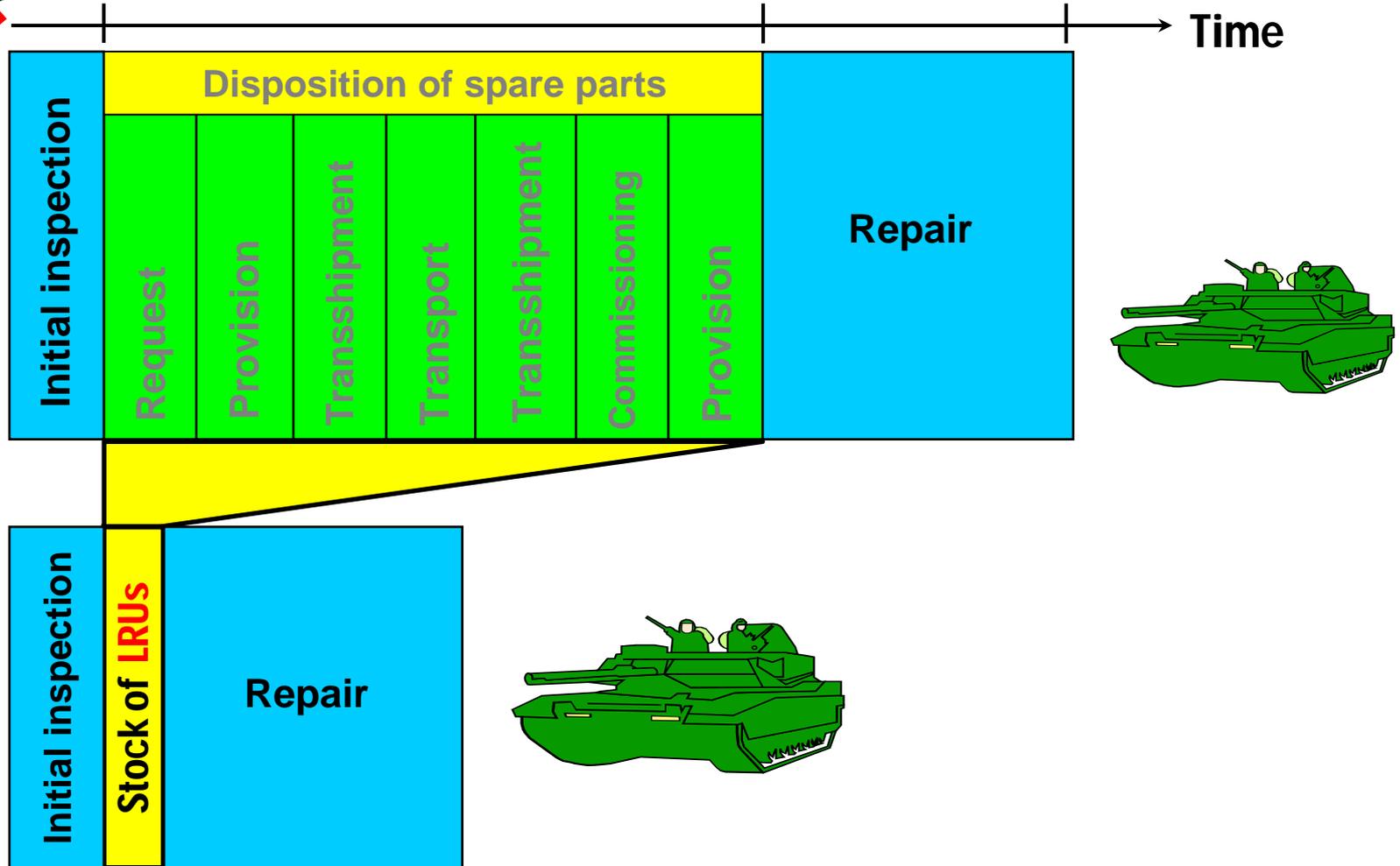
The Common Maintenance Process



- Initial inspection only on sight
- Disposition = time consuming
- Additional disposition cycle because of undetected damages



Tuning the Maintenance Process





The New Concept - TRO / LRU



Definitions

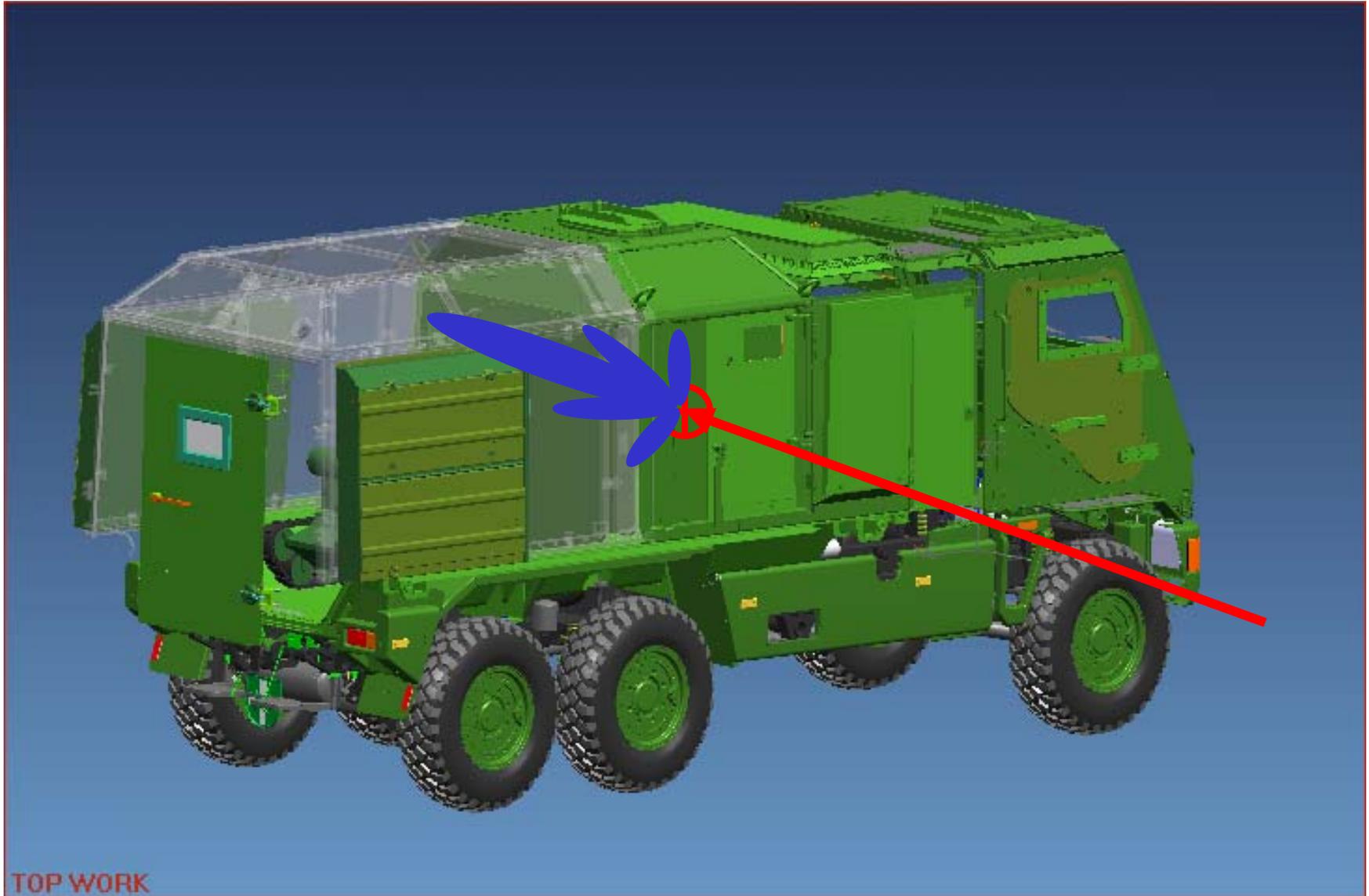
TRO = Test and Repair in One step

LRU = Line Replaceable Unit



The Way Ahead

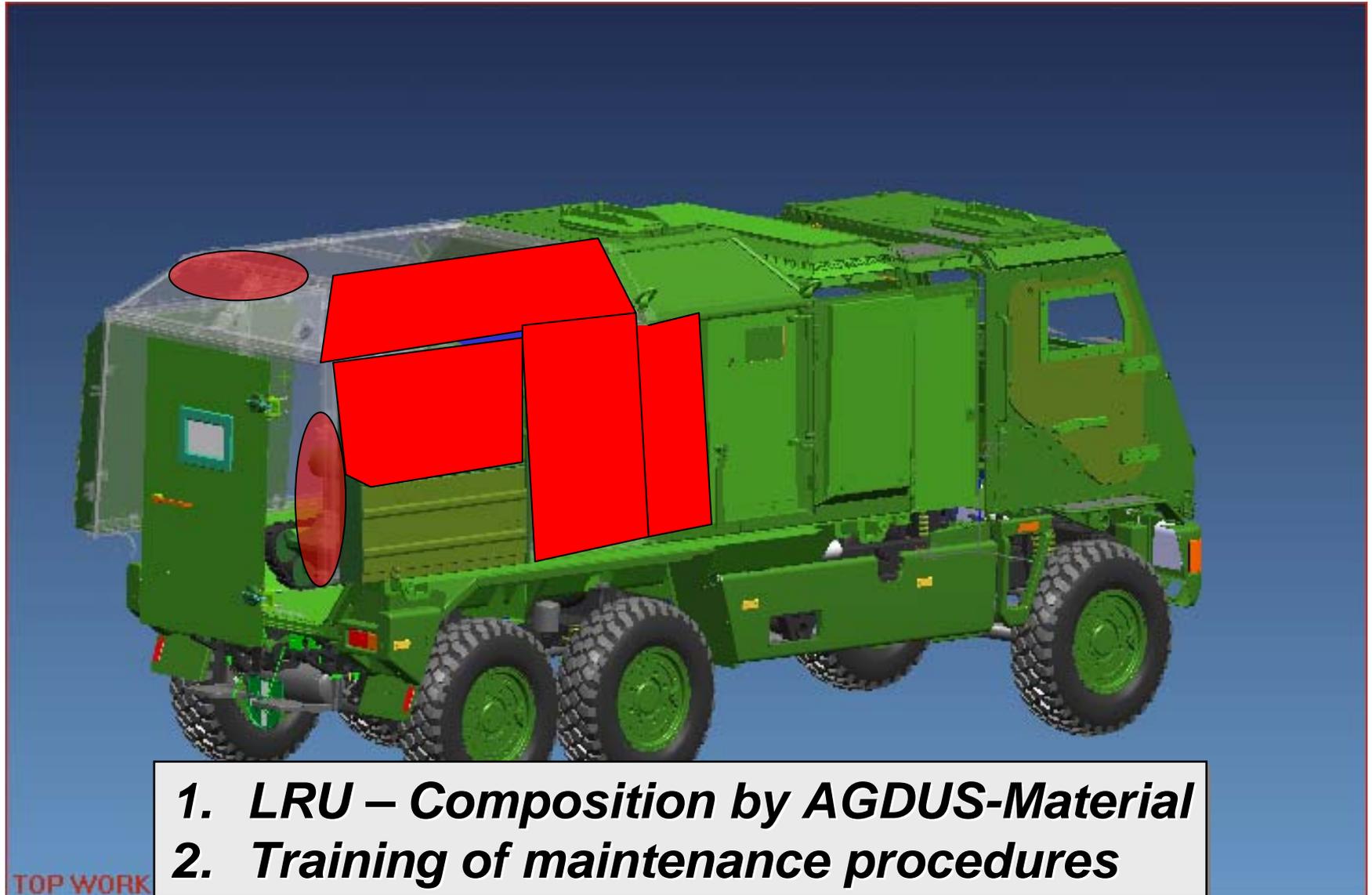
Training simulator AGDUS-Material





The Way Ahead

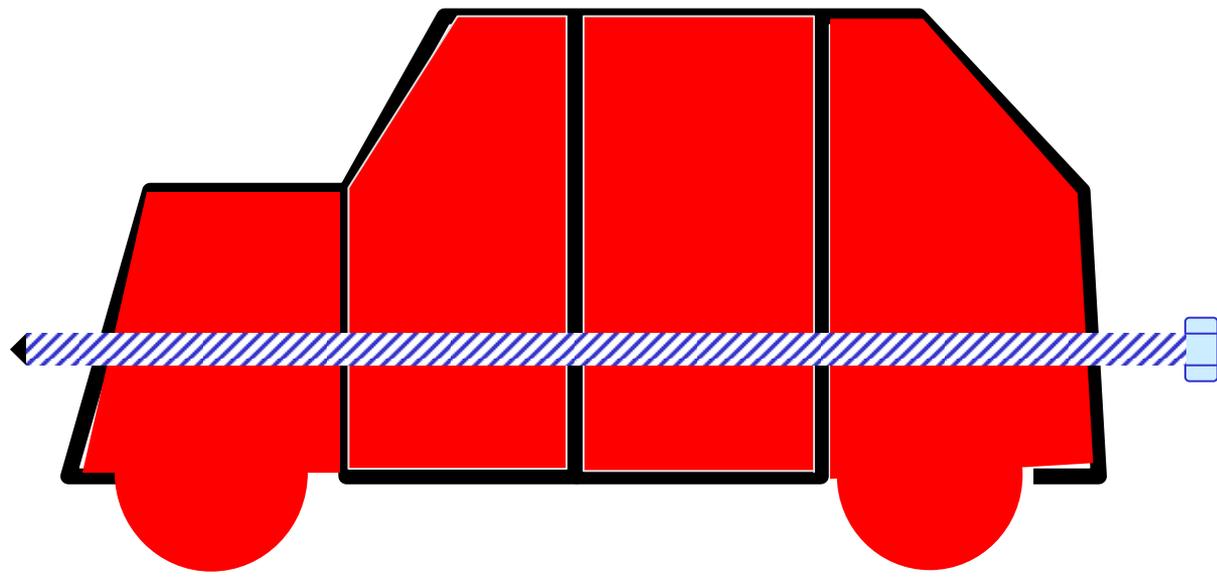
Training simulator AGDUS-Material





The Way Ahead

A Vision of a new Technology



The Way Ahead

Containerization

Truck as Container Carrier





Summary



The TR0/LRU concept was implemented in order to

- Speed up the repair process**
- minimize the downtime for weapon systems in theatre.**

Key factors are:

- prediction of most likely maintenance events**
- mission oriented composition of LRU packages**
- expert knowledge and experience provided to the repairman.**



Questions?



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