



# Defence Leaders Combat Engineer & Logistics

## Operational-Level Military Engineering Supportability

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# Operational-Level Military Engineering Supportability

1. Intro – What does JFCBS JENG do?
2. Mobility and counter-mobility support from an operational level HQ perspective
3. Engineer support by contracting
4. Infrastructure and engineer capability aspirations

# Intro – What Does JENG JFCBS Do?

- Shape physical environment
  - Northern Europe
- MILENG (military engineer) planning and coordination
- Make plans supportable



# Mobility and counter-mobility support from an operational level HQ perspective

## Mobility

- Joint force, Air, Sea, Land

## Air

- Aerodrome Damage Repair (ADR), RSOM

## Maritime

- RSOM



# Mobility and counter-mobility support from an operational level HQ perspective

## Land

### ■ Scale

- Battalions vs Brigades vs Divisions vs Corps
- Armoured vs Mech vs Light. Heavy logistics and lots of it, fast.

### ■ Infrastructure

- Bridges (strength & number & availability), roads (maintenance)

# Mobility and counter-mobility support from an operational level HQ perspective

Land <continued>

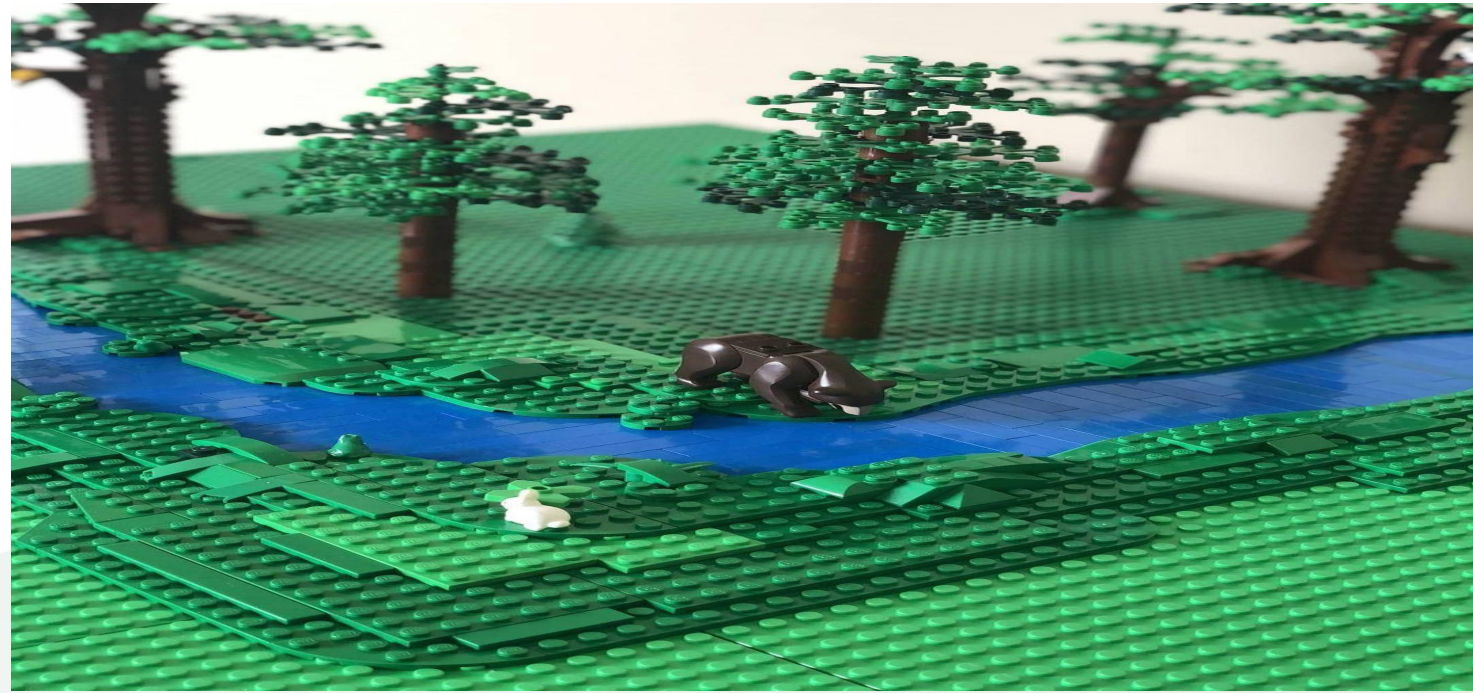
- Must go faster....
  - ~~More bridges~~
  - Logistic bridging
  - Floating bridges/ferries



# Mobility and counter-mobility support from an operational level HQ perspective

## Land <continued>

- Environment
  - Peacetime, no excuses
- Bureaucracy



# Mobility and counter-mobility support from an operational level HQ perspective

## Counter-Mobility

Air. Nil

Maritime. Nil (sea mines = Navy)

Land

- Coordinate barrier plans – national with NATO
- Very large area to cover, long border
- Speed critical, must build or emplace quickly.





# Mobility and counter-mobility support from an operational level HQ perspective

## ■ Land

- Workforce. (NATO barriers) HN? In-place forces?

Reinforcements? Contractors?

- Materiel. Engineer Resource Parks (ERPs)

- Basic CL IV & (empty) space for CL V



# Engineer Support by Contracting

- Availability
  - National duty?
- Risk
  - Insurance?
  - Labour, health & safety?
  - Status?



# Engineer Support by Contracting

- Significant time, effort, and funding needed long before crisis strikes.



# Infrastructure and engineer capability aspirations

## ■ Mobility

### ■ Infrastructure

- Improved roads in key areas, including alternate routes. Increased MLC, wider, taller tunnels.
- Stronger, wider bridges.
- Rail connections.
- Prepared crossing sites



# Infrastructure and engineer capability aspirations

## ■ Mobility

### ■ Capability

- Floating bridging. Need fast ones. Minutes, not hours.
- Logistic bridging. Needs to exist. “Someone” to provide?
- Rapid road construction & repair. Probably need more.
- ADR (Aerodrome Damage Repair). Not everyone has it.
- Rapid rail repair. If don't have it, generate it.
- Subterranean breaching.



# Infrastructure and engineer capability aspirations

## ■ Counter-Mobility

### ■ Infrastructure - ERPs (Engineer Resource Parks)

- Close to point of need.
- Built for, not with, CL V

### ■ Capability

- CL IV counter-mobility materiel, equipment (forward, in ERPs).
- CL V counter-mobility munitions (rear, in Logistic depots)

# Infrastructure and engineer capability aspirations

- Policy / Common Funding – opportunity for savings and capability



# The End

## Questions?

