



Mobility

*Norwegian Land Warfare Center
School of Engineers
OR-6/ Sondre Aleksander Skaugen*

FORSVARET



*Ubique quo fas et gloria ducunt
- Where ever duty and honour leads us*

Agenda

- Mobility
 - Tracked vehicles vs wheeled
 - Terrain differences
 - How to improve axis
-
- Time: 30 min



Mobility

- Over and under 0 degrees Celsius
- Benefits
- Restrictions



Over 0 degrees

- Mud
- Water
- Marchland



Under 0 degrees

- Snow
- Lakes and small rivers
- Marchland



Infantry

- Benefits
- Restrictions



Tracked vehicles

- **Benefits**

- Frozen ground gives us the opportunity to move places we can't during summer time
- Gives us the opportunity to cross rivers
- Gives us many alternate axis in the terrain

- **Restrictions**

- Traction is lower
- Deep snow can limit the mobility



Wheeled vehicles

- **Benefits**

- Frozen ground gives us the opportunity to move places we can't during the summertime.

- Frozen lakes can make good axis

- We can cross gaps over rivers that we normally can't

- **Restrictions**

- The wheeled vehicles can easily get stuck in the snow.
- The traction on snow is lower than traction on gravel roads.



Differences in the terrain

- Benefits and restrictions
- What happens when the ground freezes
- How can we take advantage of this
- Is it possible to use other axis in the terrain during the winter
- How can we plan for this



How can we improve the axis

- Removal of snow
- Use trees for crossing wet areas
- Use branches to gain traction
- Snow grouser
- Chains



Ice on lakes and rivers

- Classification up to tank
- Floating ice vs bottom frozen
- Ability to reinforce
- Easy to demolish



Orientation ends Questions?

(10 minutes maximum)



Ubique quo fas et gloria ducunt
-Where ever duty and honour leads us