

# Norwegian upgrade program for Leopard 2, MBT, CV90 and M-113

#### Armoured Vehicles Northern Europe 28 – 30 April 2014

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Army staff/ Force Development Division

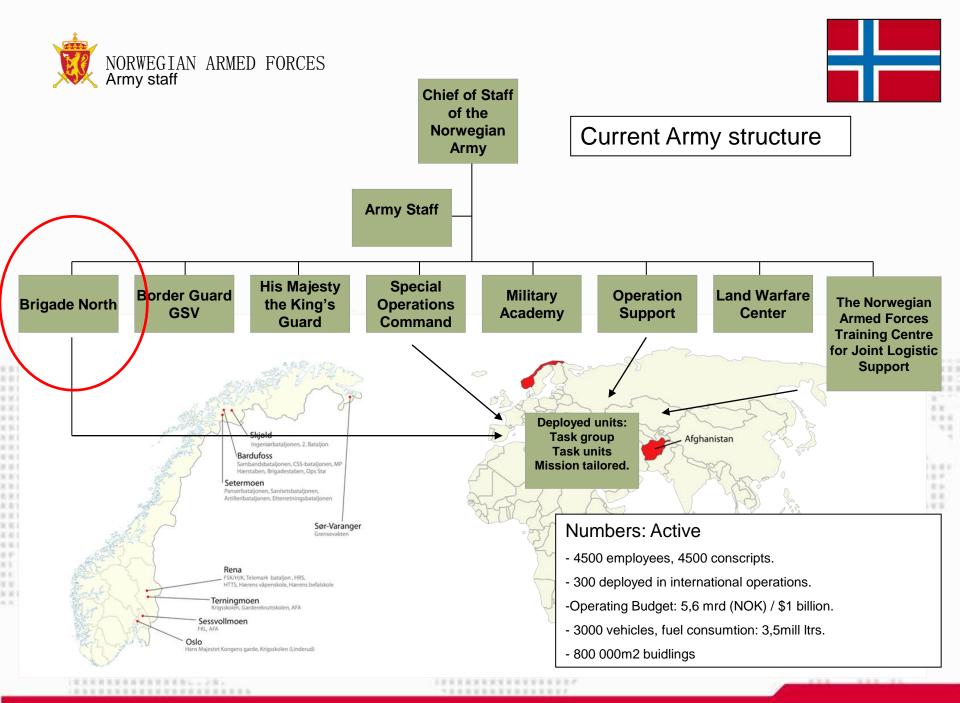
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## Norwegian upgrade program for LEO 2 MBT fleet, CV90 fleet and M-113 fleet with the purpose to: 1.1 Optimize crew and vehicle protection Optimize life cycle cost

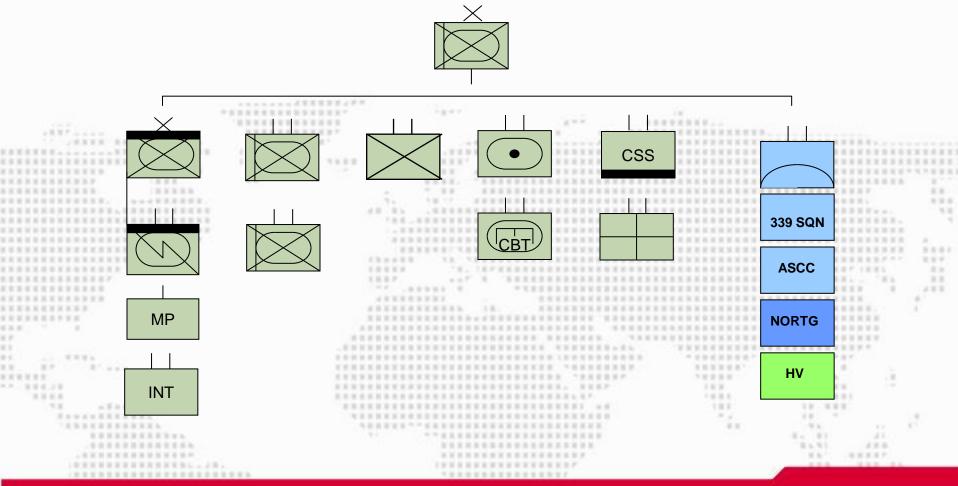


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## **Brigade North**



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### **Mechanized battalions**



### Armour bn / Brigade North



High readiness units / enlisted soldiers

Able to operate in battle groups/ task groups/ task units - taliored to mission







#### 2nd Infantry Battalion/ Brigade North



#### Light Infantry capability:

Javelin AT system, snipers, mortars, heavy and medium machine guns. Winter warfare specialists. Able to operate in battle groups/ task groups/ task units as mission requires.





Artillery Bn: New artillery system and Air Defence system

- more enlisted soldiers.



Engineer Bn: CBRN capability, replace Leo 1, replace parts of M113s - more enlisted soldiers.





CSS bn: Replace all types of trucks, armour/ and armour capable - more enlisted soldiers.

Medical Bn: More enlisted soldiers, field PASI 203 wheeled ambulances.



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## Combat Fighting Vehicle Project

- Increase NorArmys capabilities
  - Give mechanized battalion future-oriented capabilities located on medium armoured platforms
- Increase protection on all vehicles
- Establish network capacity on all vehicles
- Control of the logistic costs
- Contract signed 2012, deliveries 2014-2018
- 1<sup>st</sup> vehicle delivered for testing feb 2014

## M113 armoured support vehicles New upgraded models (F3 and F4)





- Workhorse ( 50 years service)
  Several ongoing and planned projects

  Total rebuild and capabilities equal to modern vehicles in same class

  The advantage with the M113:
  - Offers protection and mobility
  - Easy to operate
    - Is flexible and can fill different support roles
  - Very low operating costs compared to new vehicles





## M113F3 program

- Specialised versions include:
  - Ambulance, medical treatment, command post, forward command vehicle, cbt engineer vehicle and anti-tank (Javelin)
- Reliability and mobility equal to modern vehicles in same weight class
- Modern powerpack
- Rubber band tracks
- Digitalized C2/SOTAS intercom/BMS
- Increased protection against mine/IED and ballistic threats
- More than 100 vehicles in service/planned





## M113F4 program

- Program planned for 2014-2019
- Stretched versions (6 or 7 roadwheels) for:
  - C3IS functions,
  - Logistics carrier
  - Forward repair teams
  - Air-defense
  - Artillery location radar system
  - Increased interior volume and height of roof
  - Increased Mine/IED protection compared to M113F3
  - More than 75-150 vehicles planned



## M113F4 program

 Technical demonstrators for 6- and 7- roadwheel versions produced and undergoing trials



6-roadwheel version w/10' ARTHUR mock-up 7-roadwheel version w/10' capacity

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## M113F4 program



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# Armoured wheeled vehicle fleet:



FUCHS /CBRN S

#### SISUXA / PASI203N DINGO-2

IVECO LMV

MULTI

- Product of our deployments in peace support operations, and especially urgent operational needs in Afghanistan.
- Most likely need for such vehicles in future operations.
- SISU/PASI will be upgraded fill ambulance and EOD roles.
- DINGO will be used in Afghanistan until end of 2014.
- IVECO LMV will enter service in national structure (60%) and be based in stockpiles for future ops (40%) – the procurement will be completed with the last 62 vehicles in 2014.
- No plans for further larger investments as of now.



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# Q & A or comments ?

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