

Archer Artillery Program

Mr. Ulf Einefors



155 mm FH 77 L/39



- *In service with the Swedish, Nigerian and Indian armies*
- *More than 700 howitzers produced.*

Volvo Articulated Hauler



Copyright © 2000 Bofors Defence AB, A United Defense Company Sign:Peoh/GO Date: 2005-02-02 Page 1

FH 77 Upgrade to self-propelled FH77A



Swedish army improvement program 1993-1998

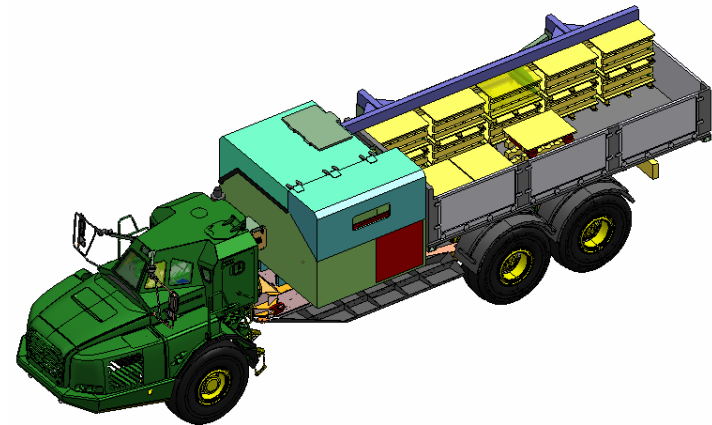
STAFF REQUIREMENT

- **155 FH 77 BW L52 System is intended for;**
 - **Swedish defence operations (brigade/division fire support)**
 - **International peace-keeping/enforcement operations.**
- **Capabilities**
 - **High strategic, operational and tactical mobility**
 - **Extremely good crew protection especially for peace-keeping/enforcement operations**
 - **Precision strike firepower**
 - **Massive sustained firepower for support/deep firing operations (> 25 tons of ammunition per gun and 24h)**
 - **Low LCC**

Artillery program Sweden/Denmark



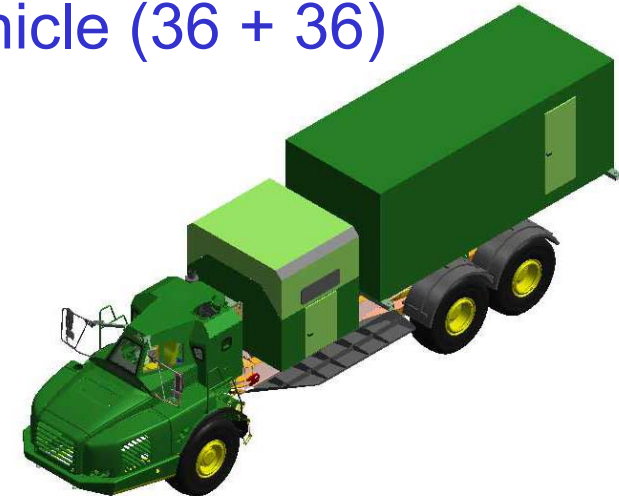
ARCHER L52 (36 + 36)



• Ammunition Vehicle (36 + 36)



Uniflex2 modular charges



• Support Vehicle (8 + 8)

AMMUNITION

UNIFLEX2 Modular charge system (insensitive)

- New type of propellant (Fox/IM)
- Top charge 6.5 modules (25 l chamber)
- Can be fired down to 1 modules
- Half modules for more MV steps (12)



AMMUNITION

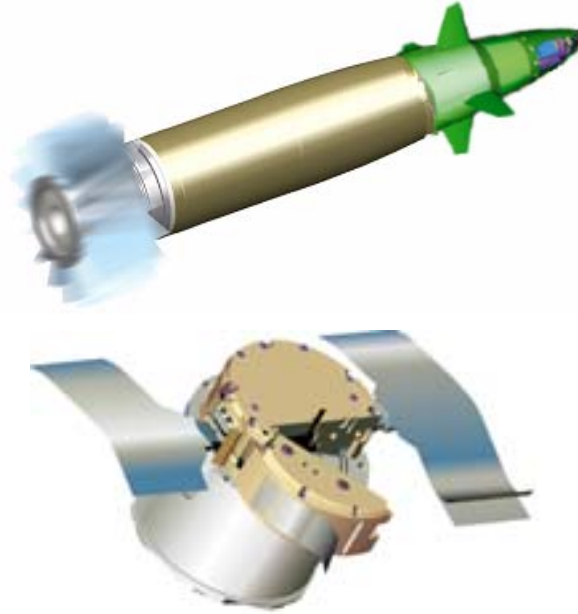
HEER40 Improved

- Improved long range shell tested during trials in India (>40 km)
- HEER40 Improved IM will fulfill IM specification (STANAG 4439)
- Pre qualification is ongoing



AMMUNITION

EXCALIBUR



**155 BONUS II
SFM**

**Ammunition
family FH77**



LEMON Remote Weapon System

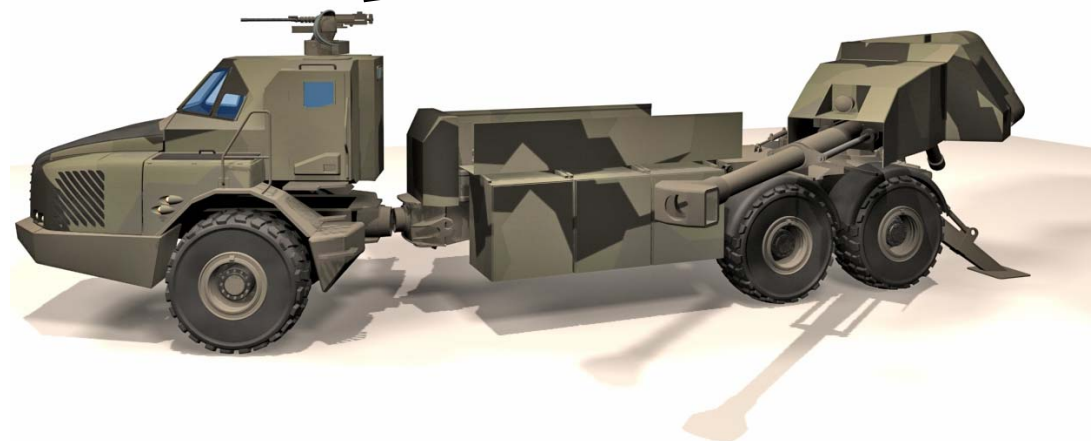
Automatic mask measuring

Direct sight

Surveillance

Secondary armament

Smoke launchers



Performance

| | |
|-------------------------------|--|
| Weight | 30 tons |
| Width | 3.0 m |
| Length | 14.1 m |
| Height | 3.3 - 3.9 m |
| Air transportable | A 400M |
| Maximum speed | 70 km/h |
| Engine power | 340 hp |
| Ammunition storage | Projectiles 20+20 Charges 20+20 |
| Deployment time | < 30 s |
| Redeployment time | < 30 s |
| Elevation and Traverse | 0 to +70 and -75 to -75 degrees |
| Firing range | > 40 km (HE-BB) |
| Rate of fire | 3 rounds 15 s, 9 rounds/min |
| MRSI | 6 rounds |
| Protection level | 7.62 AP, Mines 6 kg (Level 2 STANAG 4569) |



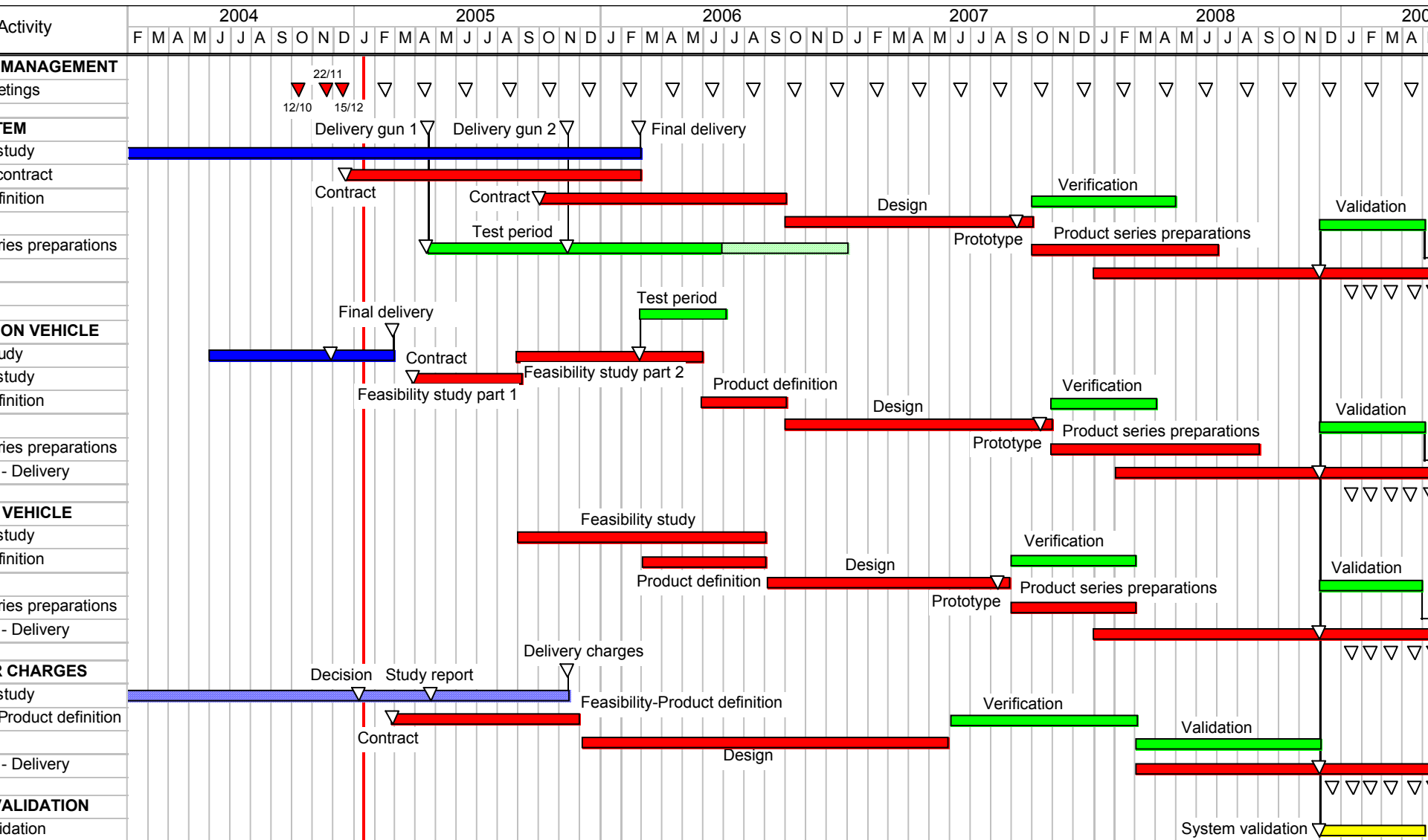
Demo System Manufacturing



Sub System Assembly



Program Time Schedule



Key factors ARCHER L52

- *Autonomous operations procedures*
- *Long-Range Precision Engagement System*
- *Engagement of visible targets by direct fire capability*
- *Self-protection through integrated RWS (LEMUR)*
- *High momentary effect in target through MRSI (12 M.V. step charge system)*
- *Greater range (40 km)*
- *Strategic and tactical mobility*
- *Endurance*
- *Commercial chassis (Volvo)*
- *Cost-effective*



QUESTIONS ?

