Archer Artillery Program
Mr. Ulf Einefors
• In service with the Swedish, Nigerian and Indian armies

• More than 700 howitzers produced.
Volvo Articulated Hauler
FH 77 Upgrade to self-propelled FH77AD

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)
- Support Vehicle (8 + 8)
- Uniflex2 modular charges
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
LE MUR 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
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