“SLBA shall, as the national archive of the audiovisual media, collect, preserve and make accessible the part of the Swedish cultural heritage that is published as recorded sound and moving images.
• Project Background
• Stakeholders / Requirements
• The Result
• Action shots
• Geeky details
• Long-term preservation
• Q/A
Strength
Stakeholders / Requirements

- Need to archive and manage essence and metadata
- Development driven by external and internal user needs
- Existing solutions mainly aimed at production/broadcasting
- A need to handle large amounts of material permanently
- Created and managed in-house
- Continuously evolving
The Result

7500h Open Reel / week
5000h QIC / week
1500h VHS / week

Totally 285.000 hours migrated so far, and counting…
Foto: Ipod/trattgrammofon
The geeky details...
Stockholm Project
Open-Reel 4 track

- First selection
  - 500,000 hrs

- 4X transfer speed
  - original 4.75 cm/sec

- 16 simultaneous players:
  - 64 tracks
  - 8 players per operator

- Target format 48/16 BWF
Stockholm Project
Open-Reel 4 track

- Modified players
  - new replay heads
  - new EQ and amplifier circuits

- Software post-processing
  - downsampling
  - normalization
  - silence detection
Stockholm Project
Quarter inch Cassette (QIC)

- 700,000 hrs
- In-house developed software
- Source format MPEG Layer-2 112 kbps
- Target format MPEG Layer-3 160 kbps
- 24 hours material per cartridge
- 40 cartridges transcoded / day
Stockholm Project
Video Automation

- First selection
  - 220,000 hrs VHS
- 12 simultaneous streams
- Potential future roadmap
  - Digital Betacam
  - DVC-PRO
Mass Migration Flow Engine

- Source-media transportation
- Digitization
- Post-processing
- Transfer to staging area
- Quality control
- Transfer to mass storage
- Registration and linkage to Media DB

MigDB
Migration costs for Stockholm Project 2006 - 2010

Total = $3,187,056
Long-term Digital Preservation

- Logical Archive Format Criterias
- Physical Archive Format Criterias
- Transcodation/Migration Decision points
- Long-term System Architecture planning
- Unsuitable format management
- Metadata management,
- Preserving the Know-How
- Maximizing automation, minimizing manual labour