



Riksarkivet

INFORMATION AND MEMORY FOR
FUTURE DECISION MAKING,
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Role of National Archives of Sweden

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Content

- Presentation
- Role of National Archives of Sweden (RA)
- Digital preservation at archives and RA
- Preservation over generations

Presentation

- Worked at National Archives with electronic archives and digital preservation since 1986
- First part more regular work with receiving transfers, preservation and giving access
- Later more development and projects, national and international
- Not been directly involved in work with issues like this project

- Sustainability, personal reflection

The role of National Archives

General assignment

- The National Archives is a governmental archival authority and has the special responsibility for the governmental archiving activities and for archival care in the country as stated in the Archives Act (1990: 782), the Archives Ordinance (1991: 446) and the Instruction (2009: 1593) for the National Archives
- National Archives receive transfers for longtime preservation of primarily public records from the governmental agencies but also records from other types of organizations
 - funding

The role of National Archives

What to preserve

- Appraisal
 - The archives of the agencies are part of the national cultural heritage.
 - The agencies' archives must be preserved, kept organized and cared for so that they fulfill
 - the right to access public documents
 - the need for information for the justice and the public administration, and
 - the needs of research
- Minor selection of private archives
- Information about radioactive waste not especially addressed

The role of National Archives

Developed role

- Our main mission is to ensure the society's need for long-term information supply that guarantees content, context and authenticity.
- Input to current Committee on Archives Ku 2017:02:
Important information is created also outside the governmental sector, information, for example, on nuclear power and the environment.
The National Archives should have a clearer responsibility and an expanded assignment.

Records from nuclear facilities

- Swedish Radiation Safety Authority (SSM) has issued regulations regarding archives at licensed nuclear facilities (SSMFS 2008:38).
- Records should be handled and preserved according to regulations from National Archives (RA)
- Eventually the records should be transferred to RA

According to RA

- SSM has the capability to regulate the information/records about the nuclear facilities
- SSM should require transfer to them by needed information/records, which then become public records
- Eventually these records should be transferred from SSM to RA

Information from nuclear facilities for research

Case (short time perspective)

- Whether to save records about staff
- SSM and RA different conclusions
- SSM: not part of their assignment, cost
- RA: important to be able to match and do research about health, cancer for example

Digital Preservation at Archives

- Short-time and long-time perspective
- Mediated between generations
- High volume of information
- Access needed all time
 - Different frequency and access time
- Digital access and technic

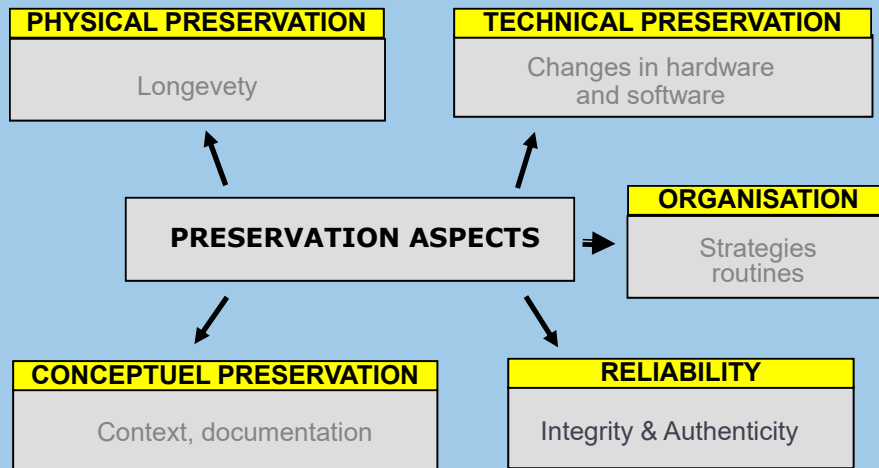
Development at National Archives of Sweden

- E-archive transfers since 1970s
- Basic handling, reel-to-reel tapes and paper documentation - no technical equipment
- General migration strategy
 - Normalization & Migration, simple standard formats, relational database structure, in many ways still relevant
- After 2000 significant development
 - General international progress, standards
 - Experiences, internal and networks
 - Resources, internal development and a few contractors
 - e-Archive system stepwise introduction

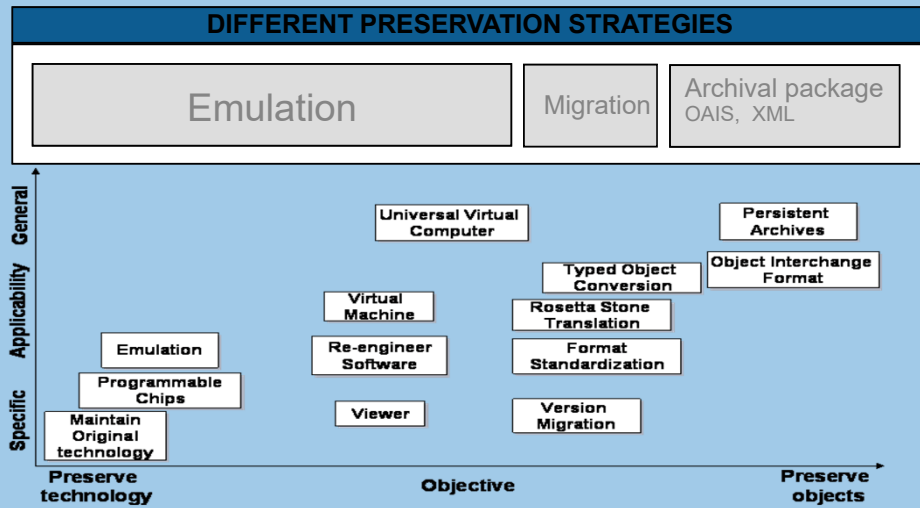
Digital information at the National Archives

- Born-digital files from agencies: about 8 TB
 - Currently in RADAR: 1972 AIP:s (about 6.1 TB)
- Audio-video files and multimedia: approximately 100 TB (so far)
- Digitized paper volumes (one AIP per volume): 524144
- Digitized images (TIFF-format): 2.9 PB (In one copy)
- Images total: 208.2 million
- Images published on Internet: 65.7 million
- DJVU-files (presentation format): 40 TB
- Total storage: 5.8 PB (Two copies)

PRESERVATION ASPECTS



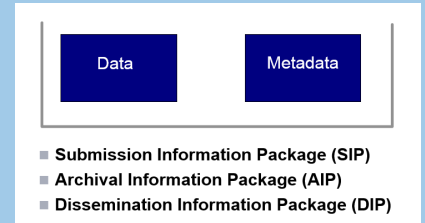
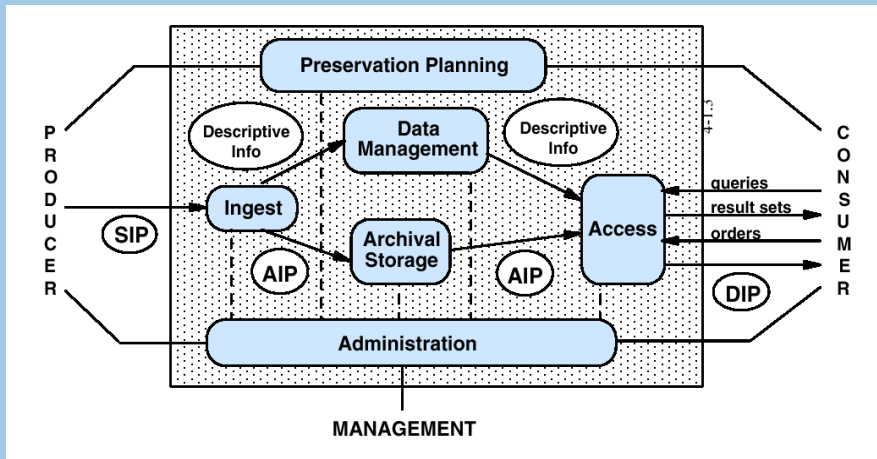
PRESERVATION STRATEGIES



OAIS – Referens modell

Functional Entities

Information Package



OAIS Information Modell

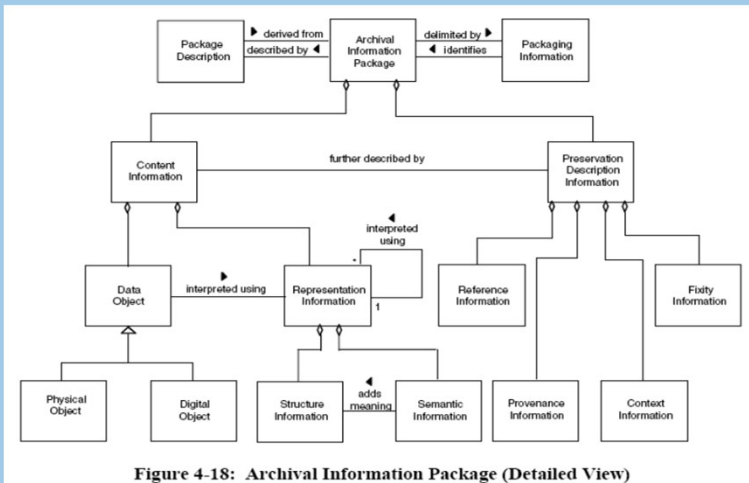


Figure 4-18: Archival Information Package (Detailed View)

- Metadata structure
- Other standards
METS, PREMIS etc
- Designated community
give effect on needs
Language

Non-mediated transmission, simple reflections

TRAC and ISO 16363, Standard for Trusted Digital Repositories

- one main factor, resources; may fail one day

Prepare to save strategic information

Short-time

- Analogue or digital paper and film

Long-time

- HD-rosetta, nickel disc, analogue or digital - analogue(logical)