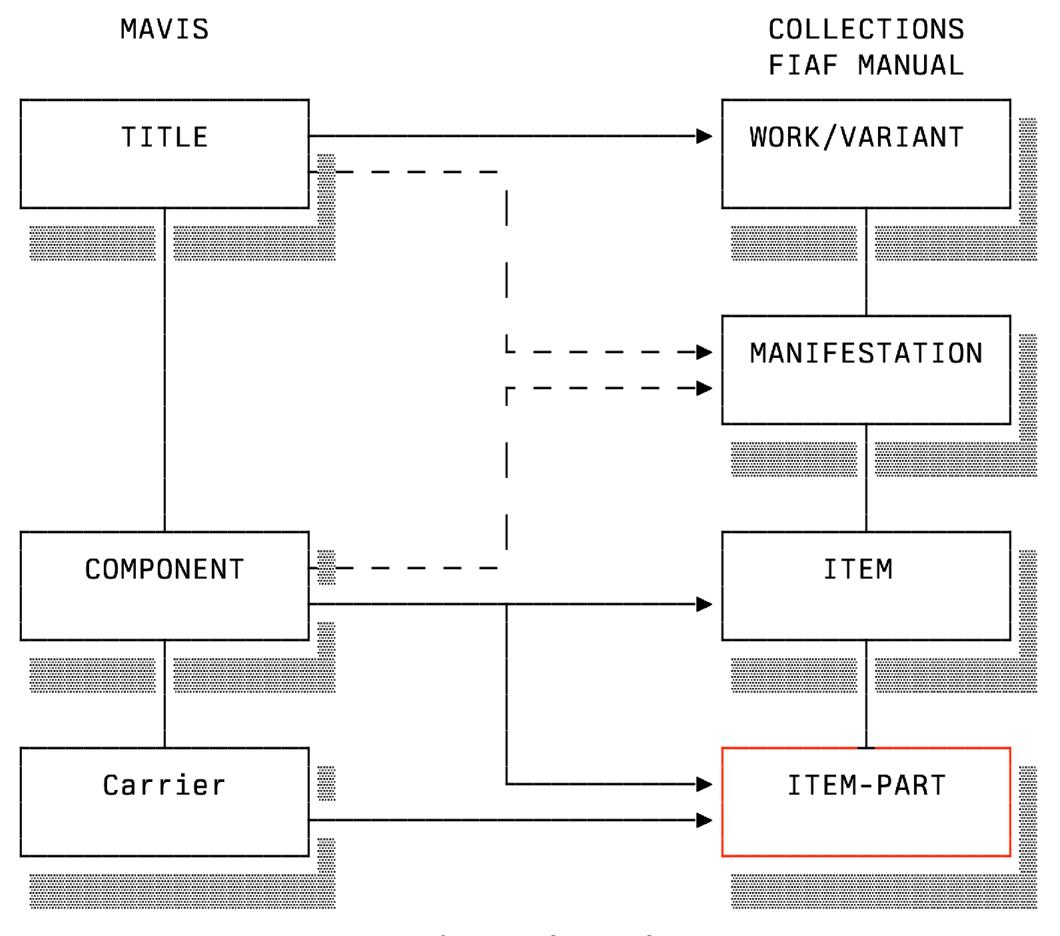


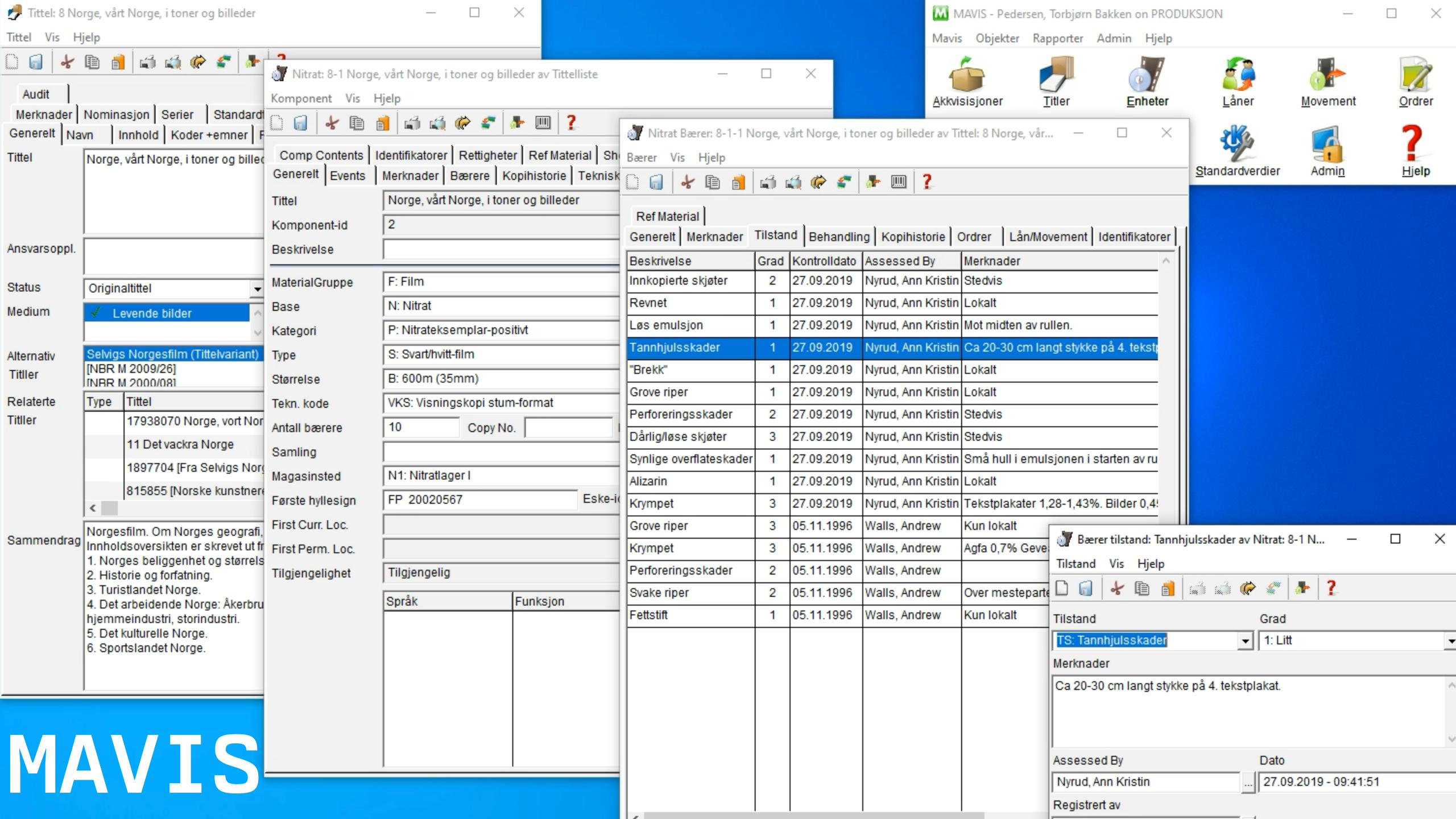
MAVIS

"Merged Audio-Visual Information System"

- ► CMS: Mavis 1996 → 2024
- ► Central system for all AV-materials (still images, sound recordings and moving images, +++)
 - ► Not just a catalog: names, acquisitions, conditions, treatments, loans, locations, etc.
 - ► Analog and digital material
- ▶ 01d!
 - ► Complicated system integrations (to maintain/ to create) - no modern APIs
 - ► Non-standard data model
 - ▶ End of life!
- ► Ongoing migration to Axiell Collections (deadline 2024)



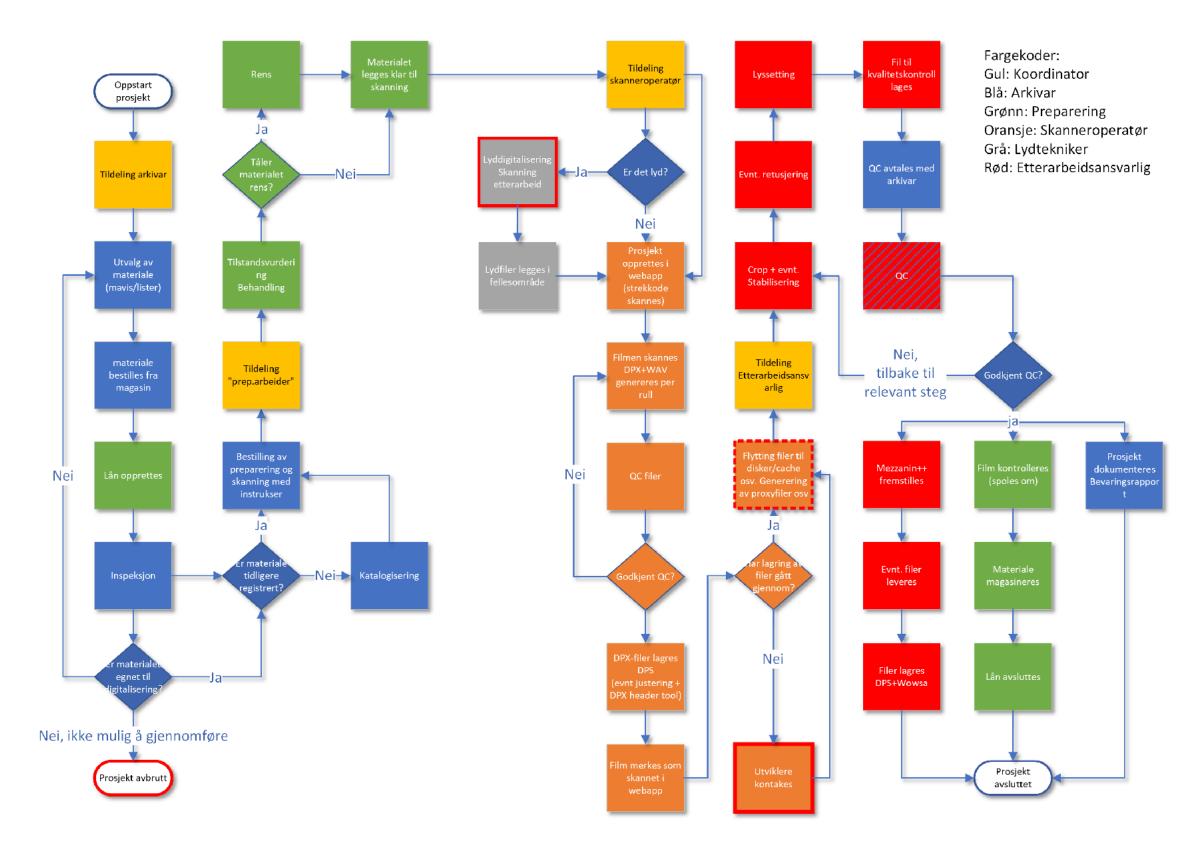
Metadata migration



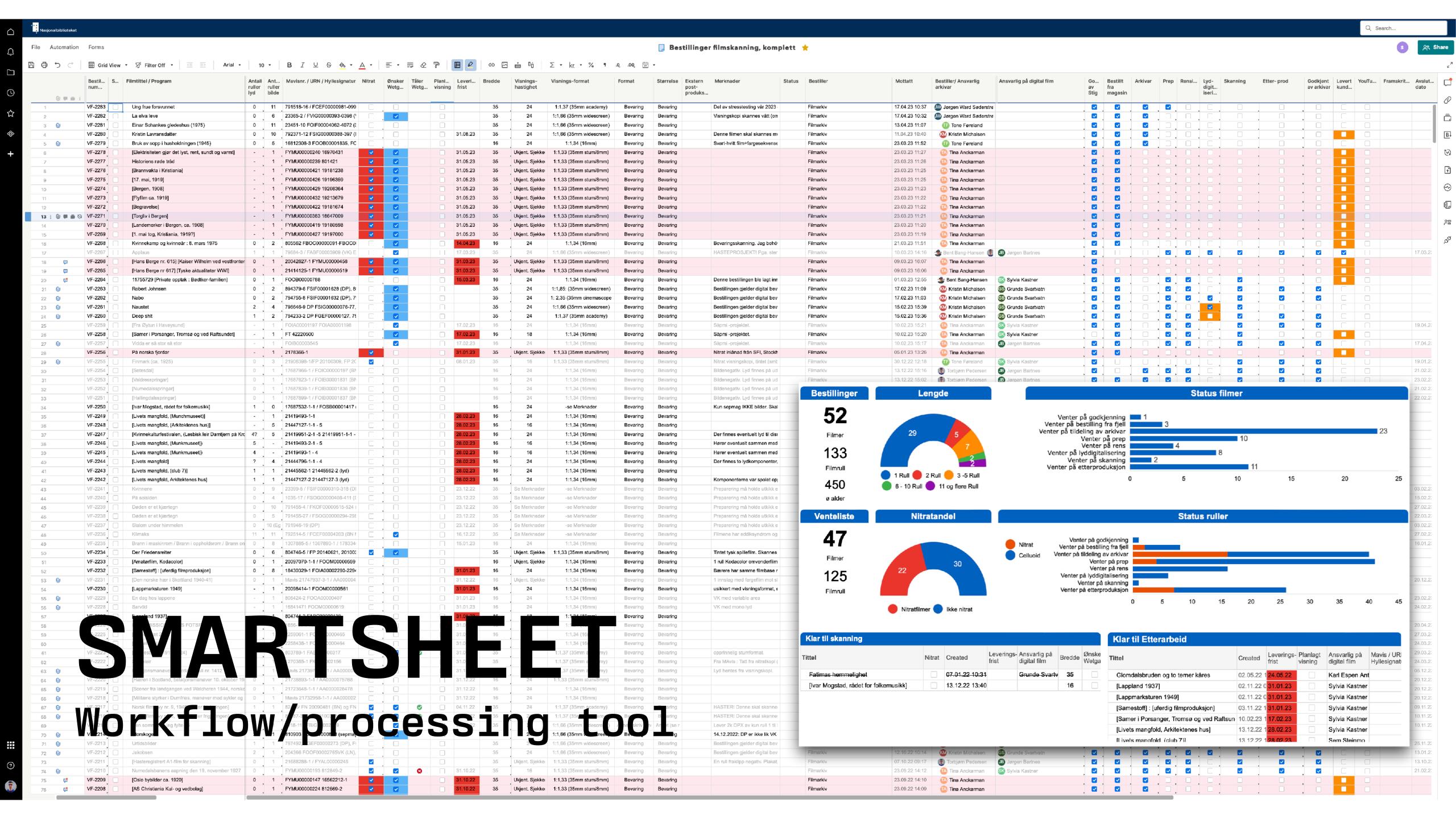
SCANNING/POST-PROCESSING WORKFLOW

► Preservation processes tend follow predefined steps with predefined roles responsible

▶ Film archivist: Selection of
 materials, decisions on
 project scope etc. →
 Creation of "Smartsheet"
 preservation order



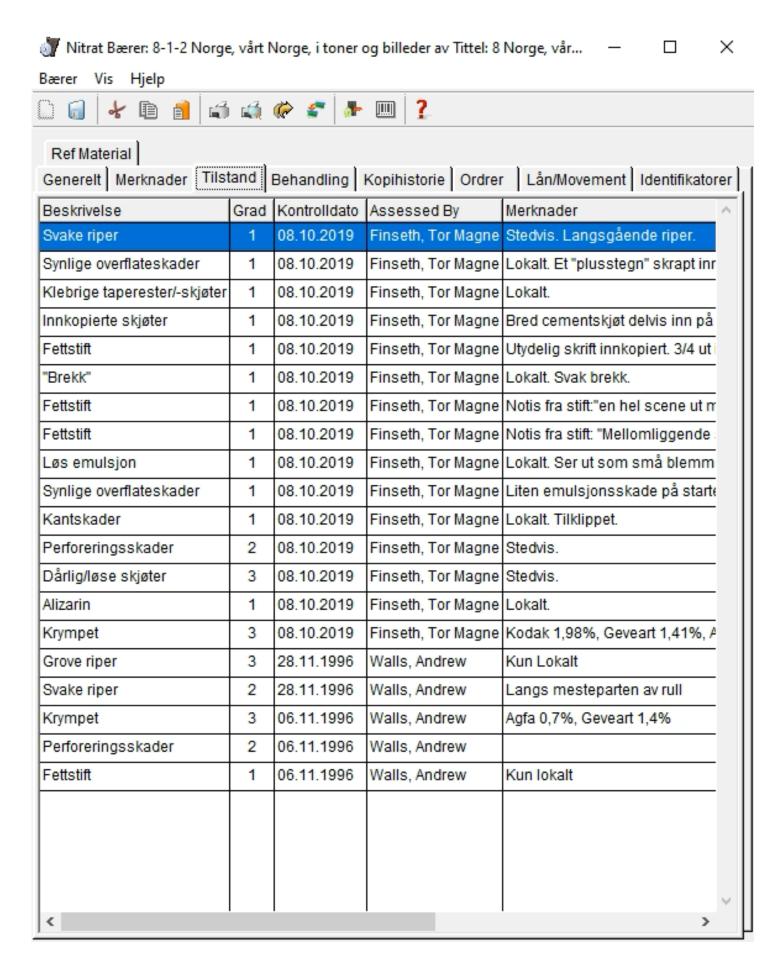
Simplified digitalisation workflow



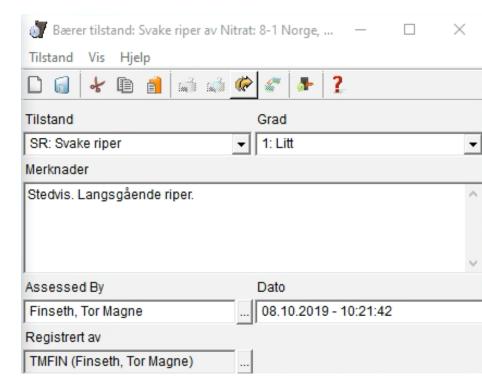
FILM PREPARATION

- ▶ Preparers: Condition reporting → Manually documented in Mavis
- ▶ Preparers: Treatment → Manually documented in Mavis
- ► Preparers: Cleaning → manually documented in Mavis

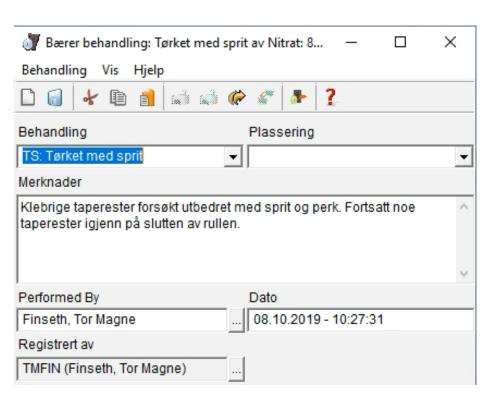
► High detail! Track changes in material



Condition tab



Condition event



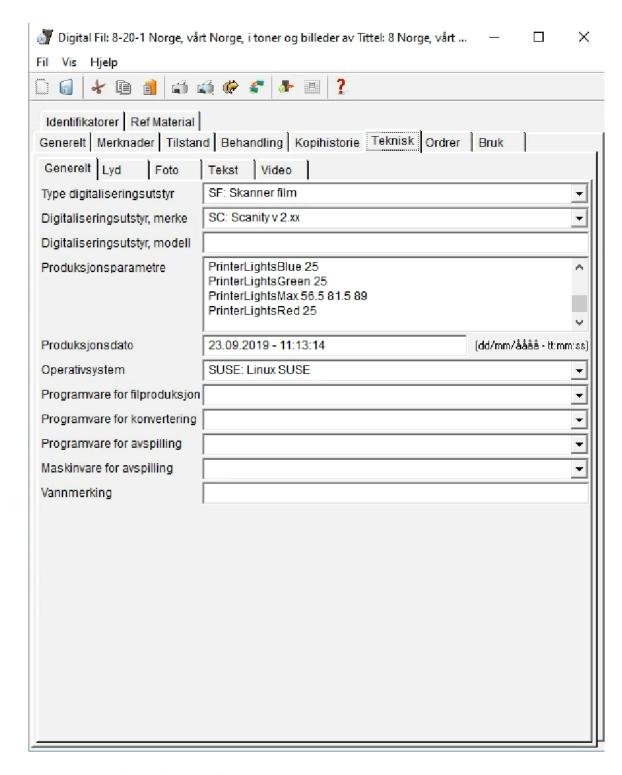
Treatment event

SCANNING/POST-PROCESSING WORKFLOW

- ▶ Digital lab technicians: Scanning
 - ► Mavis integrated application → automatic creation of new Mavis records (DPX/WAVs) with copying history, tech metadata, scanner parameters, URNs. Harvests all relevant data.
 - ► Mavis integrated application → preservation packages and proxies generated and preserved automatically with METS
- ► Digital lab technicians: Post-processing (restoration, grading, etc)
 - ► Mavis integrated application → automatic creation of new Mavis records (preservation master) with copying history, tech metadata, URNs.
 - ► Mavis integrated application → preservation packages and proxies generated and preserved automatically with METS
- ► Easy creation of rich and consistent metadata
- ▶ Digital lab technicians use smartsheet (+ additional smartsheets), but does not use Mavis...
 - ► Anything not defined by system integration has to be documented manually! Decisions and tools used by lab technicians not documented systematically!
- ► Lack of resources for maintenance/updates → Current integrations strict and inflexible



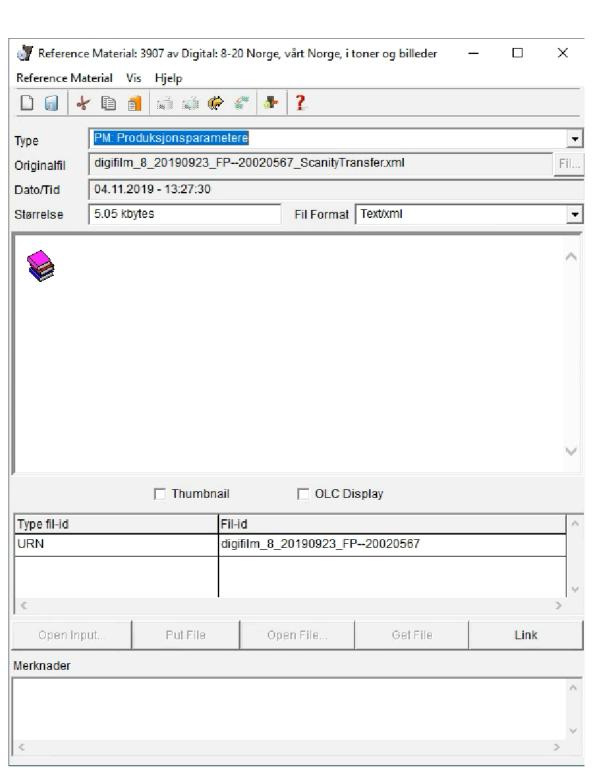
Film scanner web application



Digital carrier record: technical details (DPX)



Film scanner web application



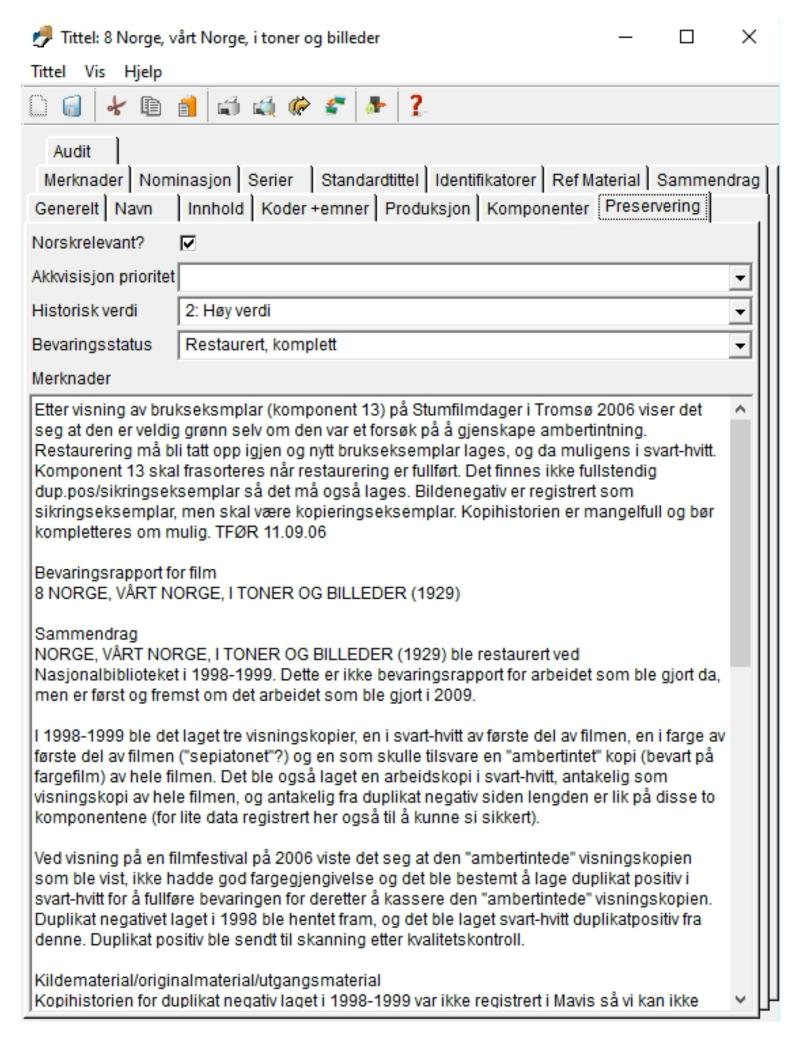
Reference material record:
Scanner parameters

BONUS SLIDE Captured scanner parameters

- ▶ Document information that documents parameter choices influencing your resulting files
 - ▶ What is the result of the scanning process? What is the result further processing in the scanner?
 - ► Scanner capture parameters
 - ► Light intensity / RGB balance
 - ⊳ Selected light source (if multiple available options, like the Scanity's different red LEDs)
 - ► HDR/Triple flashes/etc
 - ► Scanner processing parameters
 - ► Color space/gamma manipulations etc. (Log/Lin is not enough, document log/lin flavour)
 - ► Specific LUTs used
 - ► Scaling/downsampling
- ▶ This information is useful! Provides context to your scans: Eg. Did the scanned film have very high density, or was the scanner lights set up in a faulty manner?
- ► Information not found in the DPX header (to my knowledge)

PRESERVATION REPORTING

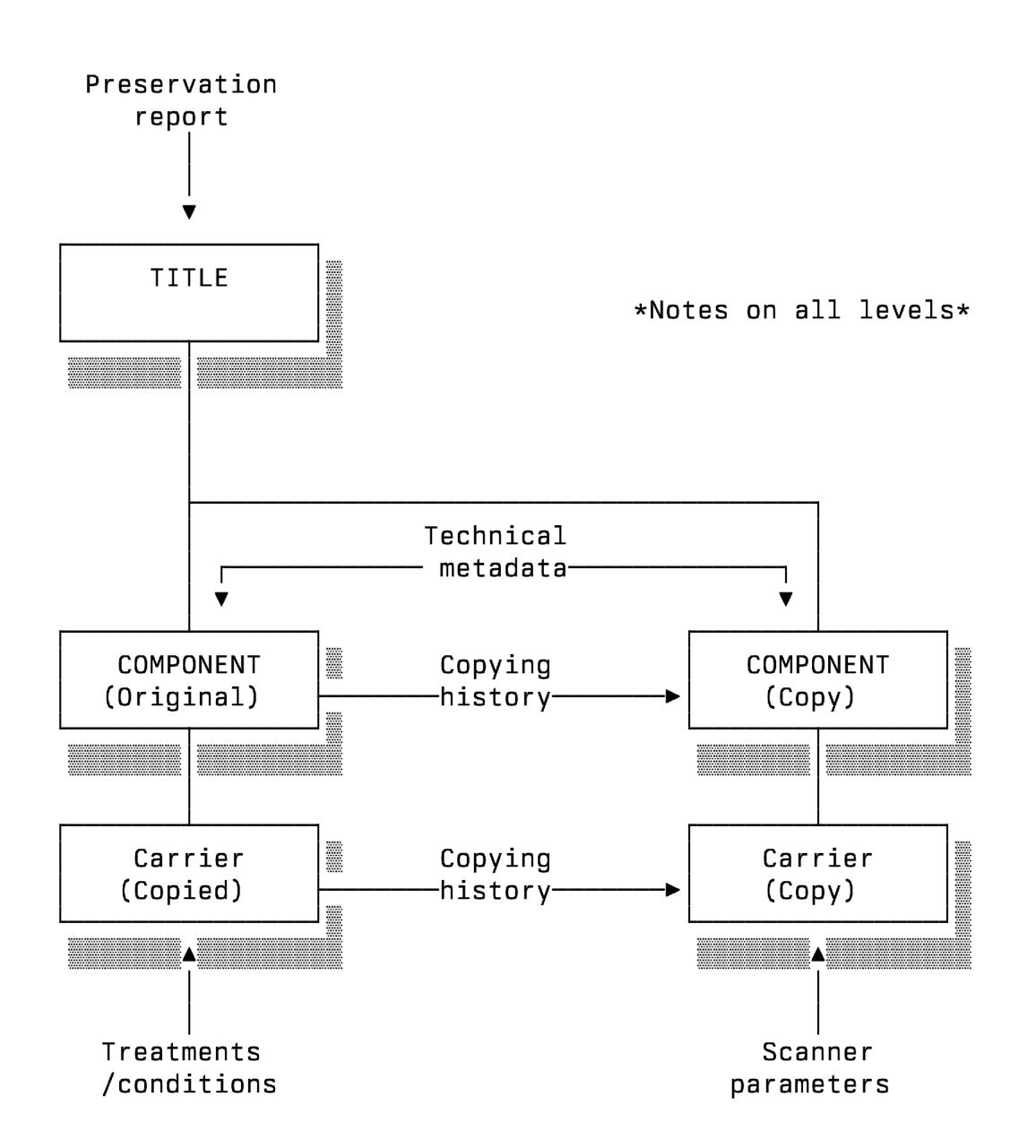
- ► Film archivist: quality control acceptance → Manually entered preservation report in Mavis.
 - ► Overarching description of entire project + previous steps of note + achievement of goals
 - Very time consuming, puts pressure on limited archivist resources
 - ► Preservation report at work level (single, non-repeatable field!)
- ► Records get messy and chaotic if they have undergone multiple or complex preservation processes



MAVIS

Preservation metadata core building blocks

- ► Preservation report → Text field at title level
- ► Copying history → Relation between carriers (and components for practical reasons)
- ► Treatments/conditions → basic events related to carrier
- ► Scanner parameters → Range of fields and related reference file at carrier level
- ► *Technical metadata* → Range of fields at component
 - ► Not preservation metadata per se, but generated/enriched as part of the preservation process.
 - ► Automatically entered for new digital records



PRINCIPLES MOVING FORWARD Keep the pros, lose the cons...

1. CMS as master system for metadata + compliance to metadata standards

- ► All metadata in one location
- ► Manifestation level opens new possibilities
- ▶ Reference files as metadata

2. Extended use of workflow tools

- ► Increased user friendliness/Easier data-entry
- ► Better control over processes
- ► Workflow processing generates metadata
- ► Easier automation

3. More detailed documentation

- ► Expanded use of events (and event-like entities)
- ► Reference files as metadata

1. CMS AS METADATA MASTER

- ► Requirements: Standardised metadata, easier system integrations/ modern APIs, configurable system
 - ► Achieved through implementation of Axiell Collections

► Benefits:

- ► Manifestation level
 - ▶ Preservation type manifestations \rightarrow Grouping of preservation items in the catalog hierarchy
 - ▶ Preservation report \rightarrow Manifestation Simplifies our current long-form prose preservation reports
 - ▶ Information in controlled manifestation fields (eg. Dates, responsible personell, scope, etc.)
- ▶ All records can have related reference materials in Collections
 - ► No need for controlled fields for *everything*. Files can be attached to records Extracted file header information, scanner parameters, mediainfo, mediatrace reports etc.)
 - ► Media files as metadata (media reference files are "worth a thousand words")



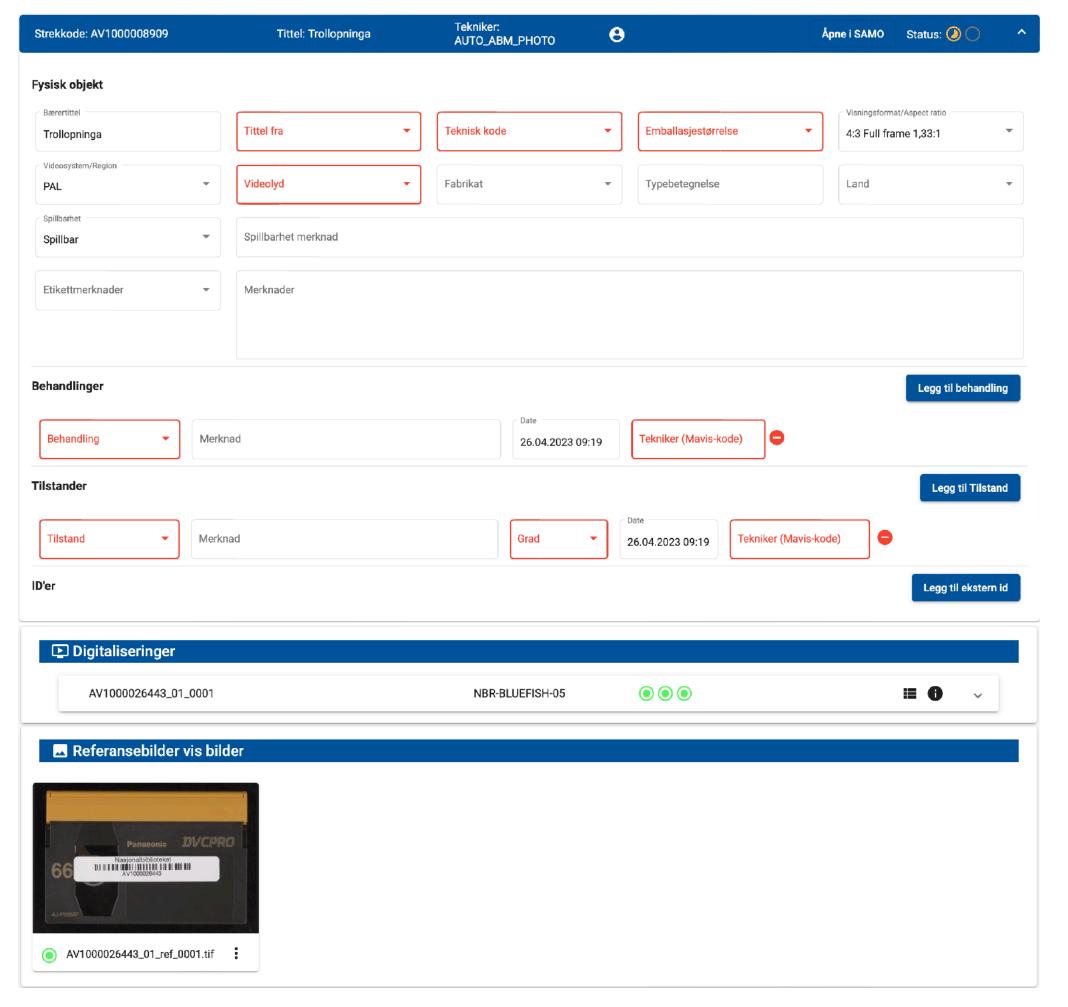
Media reference files attached to conditions

2. EXTENDED USE OF WORKFLOW TOOLS

- ► Requirement: Workflow process tool should be able to read/write to Axiell Collections.
 - ► Hopefully achieved through implementation of Axiell Flow (or other tool)

▶ Benefits:

- ▶ Better overview and coordination of processes and progress
- ▶ Tasks can be assigned to roles/individuals
- ► Simplified data entry (eg. through the use of forms)
 - ► Easier for non-catalogers to add metadata, more consistent formatting
 - ► Metadata entered at the correct catalog "coordinates"
- ▶ Orders related to the actual catalog records
 - ► Access to catalog metadata in the workflow interface
 - ▶ History of orders a record has been part of
- ► Easier system integrations
 - ► Workflows can consist of both human steps and machine data processing steps (eg. moving files, RAWcooked packaging)



Simplified video cataloging through forms (with automated mediatrace, mediainfo + qctools reporting, reference images etc)

3. MORE DETAILED DOCUMENTATION

"Treatment events"

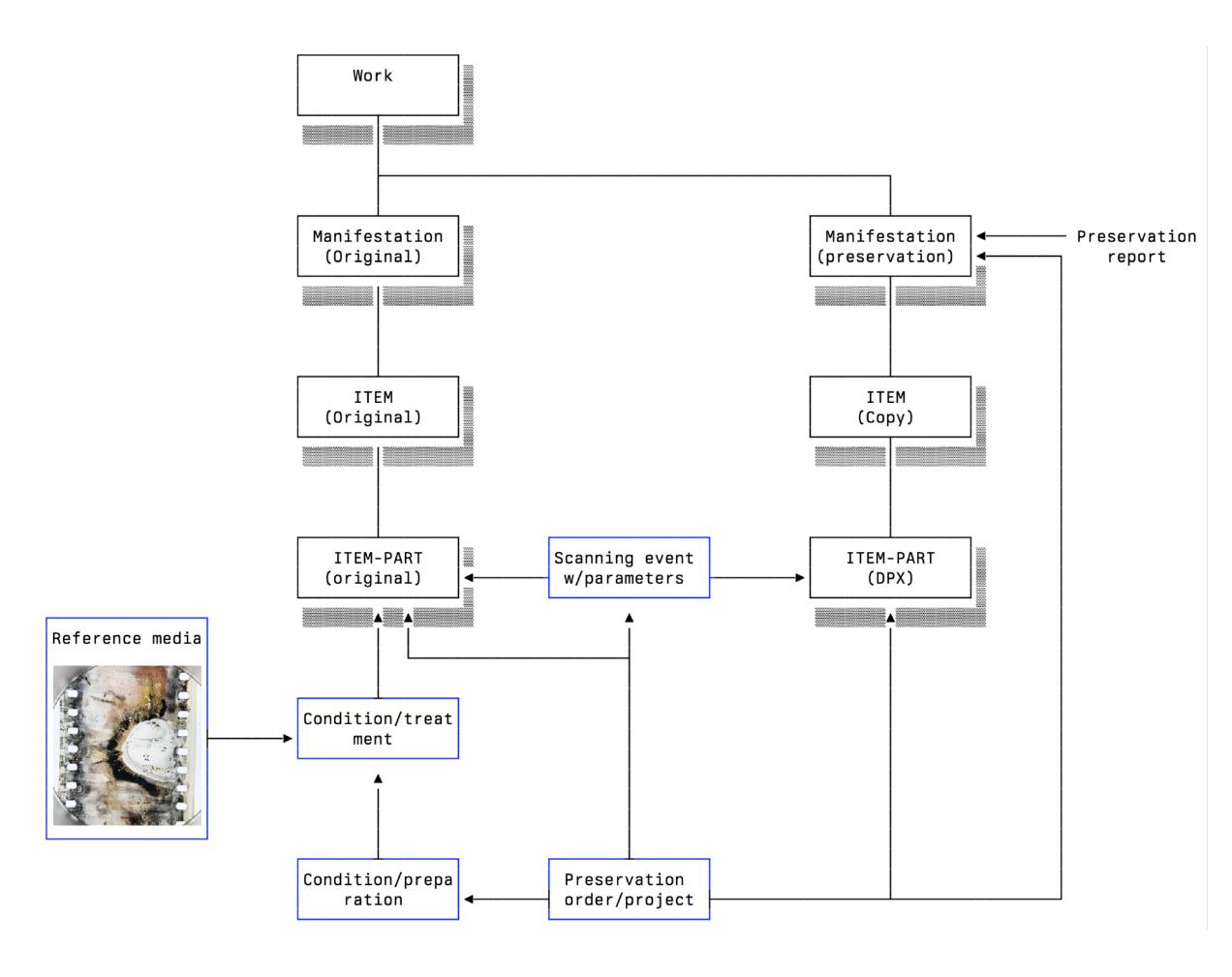
- ▶ Requirement: Configuration of fields missing from Mavis, more flexible CMS data model
 - ► Achieved through implementation of Axiell Collections

▶ Benefits:

- ▶ New and more advanced "treatment events" (records related to a record, rather than metadata on a record)
 - ► Expanded view of treatments lets us document more (eg. Scanning, grading etc. A DCDM is the result of attached events)
 - ▶ New event entities can hold complex metadata
 - ▶ Can be related to any and multiple record in the Collections → can function as nodes relating two records together
 - ⊳ Eg. Copying history as scanning event related to scanned film material and the produced DPX sequence. Scanner parameters could sit at the event.
- ▶ Reference material allows for more metadata to be entered into the catalog
- ▶ Simplifies preservation report: instead of stating "I did x, y and z etc." that information can be added as events/treatment metadata, by whoever actually performed the action

WORKFLOW CONCEPT

- ► The order itself (with its instructions, type etc.) is a record in an orders database
- ► The steps of the workflow are automatically created as events/treatments of the material, as the step is performed (eg. an "assessment/preparation for scanning" step)
 - ► Allows for better/easier capture of some metadata (eg. to complete the grading step and save the files, the operator has to add some metadata (what software was used, was a reference used, etc.)
 - ▶ Why go to the full, complex catalog post to assess materials if you can go to a simple interface where you only have access to the exact fields you need?
- ► Any metadata entered through the workflows end up at the correct fields in the CMS (eg. A new condition is added)
- ► You create metadata just by going through the workflow steps
- ▶ Order history and relations can document the reason for/ what initiated some metadata to be created. Eg. You could relate all treatments to a workflow assessment/ treatment step, which again is related to an order for example)



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