Digital Archiving user meeting

Aarhus, May 5th 2022

Axlab

YOUR CHALLENGES - OUR INSPIRATION

Our Mission

Dreampath protects patients by looking after their samples, and accelerating and securing safe access to each one of them

The first step in curing cancer or any disease is a rapid and accurate diagnosis. At **Dreampath**, our ambition lies in transforming healthcare, and we believe it's **urgent to accelerate diagnosis and research**, so patients and their families can have the best chances within their treatment journey.

Protecting patients, sample by sample

Who is Dreampath

We are the leader in the next generation patient sample management and traceability

- Superior technologies running at hundreds of KOLs World Wide
- More than 100M patient samples safe with us
- Over 75 patents granted globally
- Production sites in France, Switzerland and China
- Global reach and offices in France and the USA
- ISO 9001 certificated
- Carbon Neutral company

offices
production

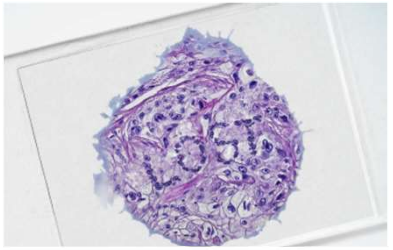
Why Dreampath

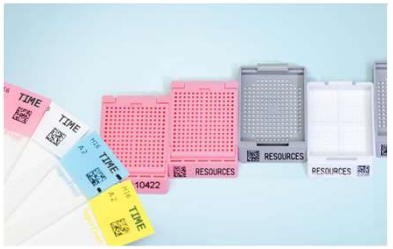
What's driving the need:

- Cancer incidence and patient's samples **volumes continue to increase.**
- Large number of diagnostic and therapeutic options result in **daily need to access patient's samples** (and return them for the next request).
- **Samples by law are kept for very long periods** (10, 20, 30+ years)
- **Personnel availability and increasing complexity** of tasks in the lab.

Situation today (prior to Dreampath):

- **Time consuming** in sorting, archiving, retrieving and re-archiving the samples
- **Patient's sample loss.**
- **Access to samples** makes diagnostics and research more lengthy preventing patients from getting rapid treatment.
- Loss of space, disorganized, stressful and messy.





We ensure that patient's samples don't get lost and get accessed quickly and accurately, forever, for a rapid diagnostics.

Where do we fit in the pathology lab & workflow?

Tissue Sample Management Solutions

Crystal

Slide management system

Fina

Block management system

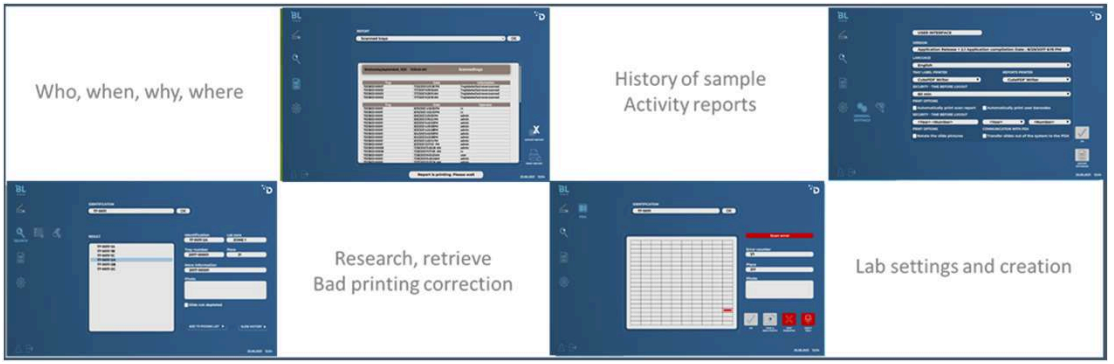
Full Control → **Patient Safety** → **Traceability** → **Minimizing TAT** → **Optimizing Workflow**

Portfolio

Scanners, consumables and connectivity suite

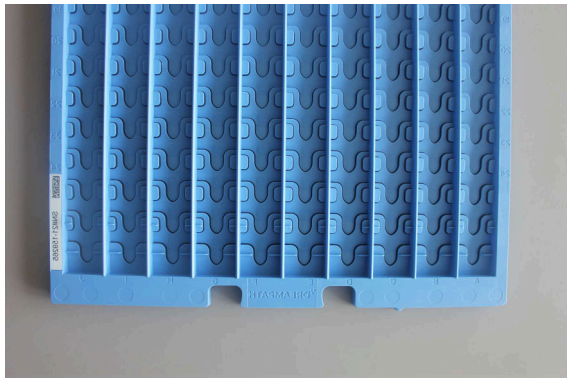
Scanners and consumables

Software and sample management

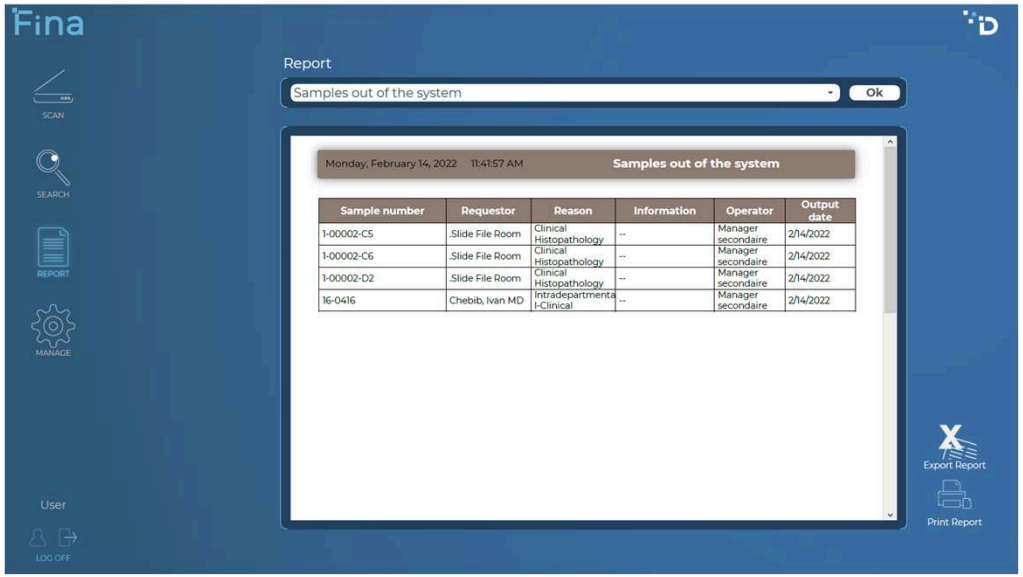


Connectivity suite

Trays and Cabinets for Slides



Reports



All of the discrete fields built up until now drive the reporting function within the software

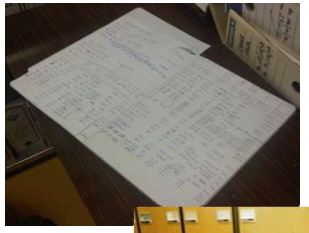
Reports

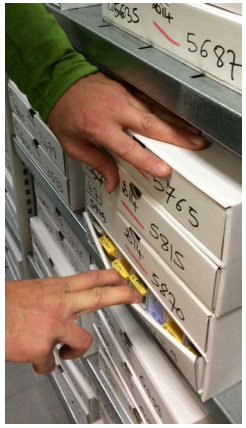
- Missing Blocks/Slides (not back in time) – generates a list of all materials out of the system that are overdue based on the return date driven by the Reason
- Blocks/Slides Out of the System – All materials out of the system, ordered by sample name
- Number of blocks/slides by Requestor/Reason – generates a list of all materials removed by Requestor and Reason
- Number of new blocks/slides – Number of blocks/slides entered into the database for that day
- Block/Slide History – Audit trail for each block/slide. Should be ran from the Search function.
- Manually entered blocks/slides – All materials entered manually with image. Most important report.
- Unexpected output historic – Historic audit of all materials removed without the PDA
- Current unexpected output – Current materials that are missing from the system that were not removed properly with the PDA.
- Empty space in trays – Number of spaces open in any given tray. Used for backfilling empty space.

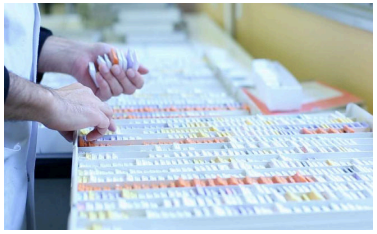
Note: Most of these reports are ran within a defined date range.

Examples current archiving process

Risk of Lost → Manual Process → Prone to Errors → Little Traceability → Wrong place → Spaces & Gaps

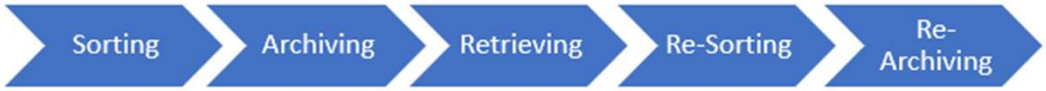







Current workflow map



Step 1

Primary Diagnostics (H&E) Slides ready for archiving

Slide sorting

Step 2

Secondary Diagnosis (IHC...)

Slide Retrieving

slide sorting

Step 3

Patient relapse Clinical study / Research

Slide Retrieving

Slide Re-archiving

> 10 Manual steps

Risk of ERROR
Hidden COST
Impacts TAT

Crystal workflow – the impact for your slides

Helps faster adoption of digital pathology

TODAY IN THE LAB

Labor intensive
Many retrievals = risk

Labor intensive (piles of slides to sort)
Space (for sorting)

Disorganized

Space. Time

- Sample loss
- Inefficient
- Labor intensive
- Disorganized
- Space loss
- Stressful

Automated sorting and archiving of slides

1

2

3

Secure sample retrieval and re-archiving of slides

1

2

3

Simple Safe

Automated Connected

Crystal workflow map

Sorting → Archiving → Retrieving → Re-Sorting → Re-Archiving

Step 1

Primary Diagnostics (H&E)
Slides ready for archiving

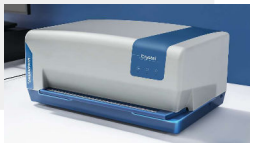
Slide sorting

Step 2

Secondary Diagnosis (IHC/PCR...)

Slide Retrieving

Slide-rearchiving



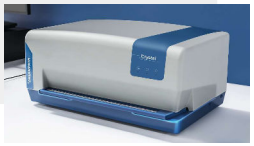
Slide transfer long-term

Step 3

Patient relapse
Clinical study / Research

Slide Retrieving

Slide Re-archiving



Minimize steps in the workflow – Safety patient material- Efficient

CRYSTAL & Digital Scanning

- Cost of Digital Pathology suite is about 2 M euro + 500 K euro annually (based on 50.000 slides per annum) Crystal is a minor investment to keep slides safe for ever.
- Due cost of storage it is very difficult to keep all slides digitally, therefor there is a need to access the original slide in case of re-scan
- Cytology need special Z-stack scanners, making storage of digital images even more difficult
- Un-stained slides need to be archived and accessible
- The tissue on the slide may be valuable for further testing, thinking of IHC stain or DNA/RNA . When block is exhausted or lost
- Often the Pathologist need the actual slide to check correct diagnose
- In case of recut, the slide and block are retrieved together to check the correct slide and block is retrieved
- When the slide need to be re-scanned

VIDEO

https://youtu.be/Thy2-3MN11Y

Executive summary

1. Improved patient diagnosis
2. Improved operational efficiency
3. Expanded workflow capacity
4. Complete traceability

DREAMPATH

Protecting patients, sample by sample