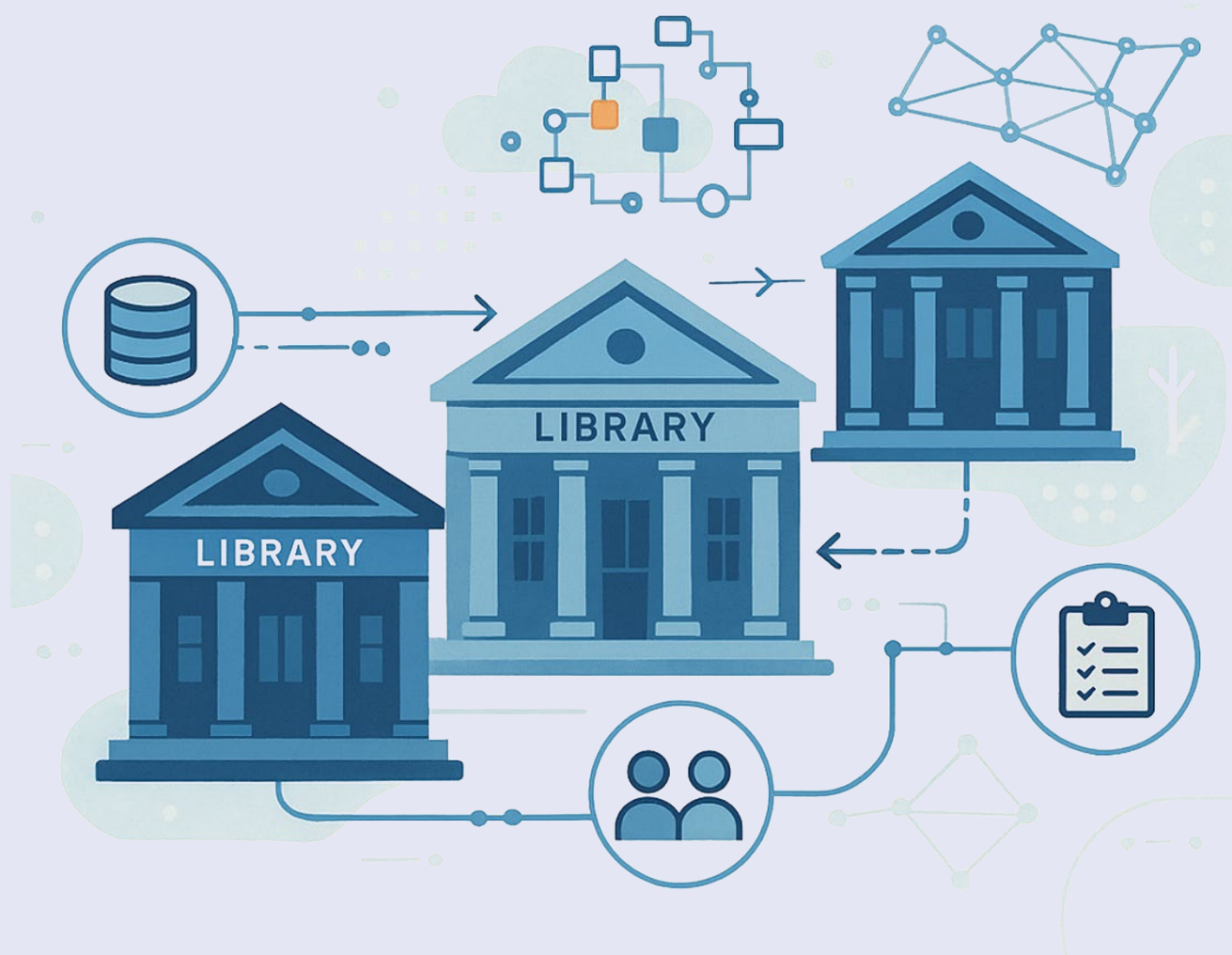


SLSP

Swiss Library
Service Platform



DIY – How to integrate new libraries in your network

IGeLU, Siena, 2025-09-26

Who from SLSP is here today?

Raphaël Rey

Team Leader System
Operations



swisscovery

1 NZ
31 IZs

500
Libraries

Rouven Schabinger

Senior Data and System
Specialist



Agenda

- 1. Types of Migrations**
- 2. Planning**
- 3. Migration Process**
 - a) Preparation & Config
 - b) Deduplication
 - c) Tools
- 4. Involving Clarivate**
- 5. Conclusion**



1) Types of Migrations

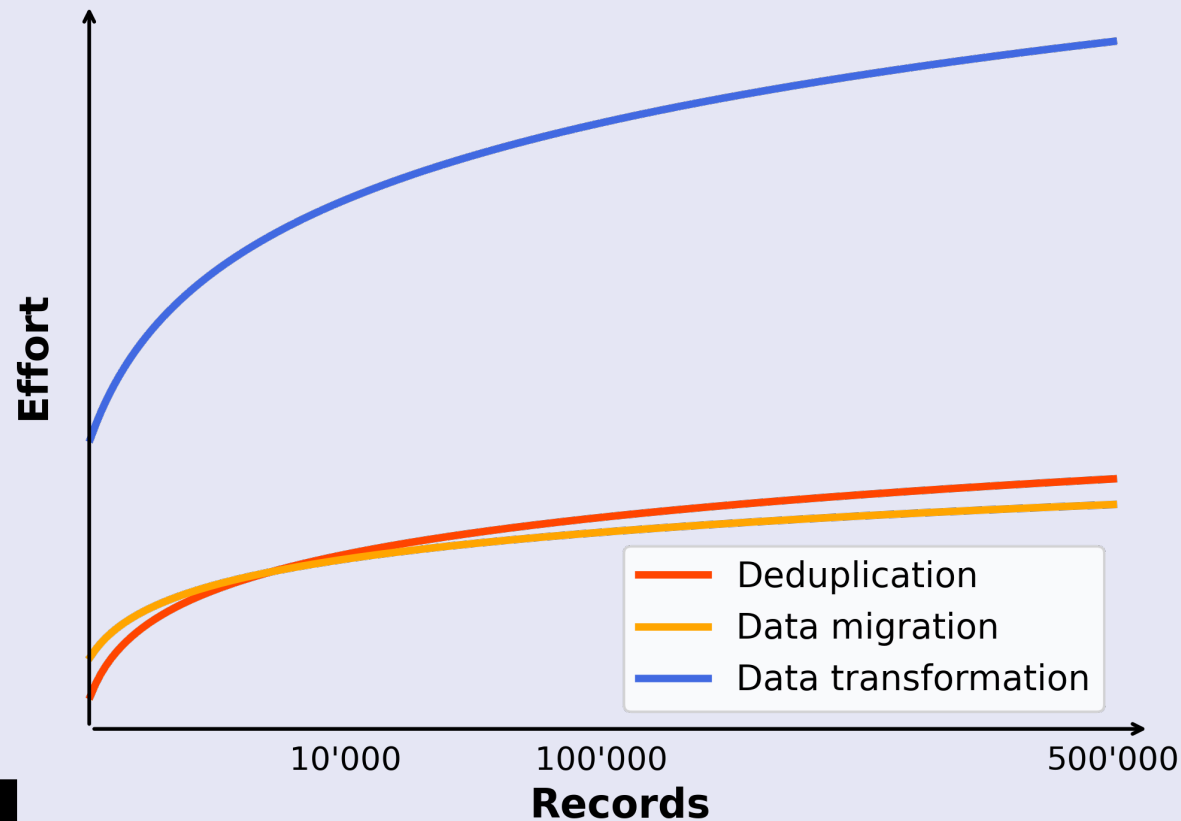
Migration typology

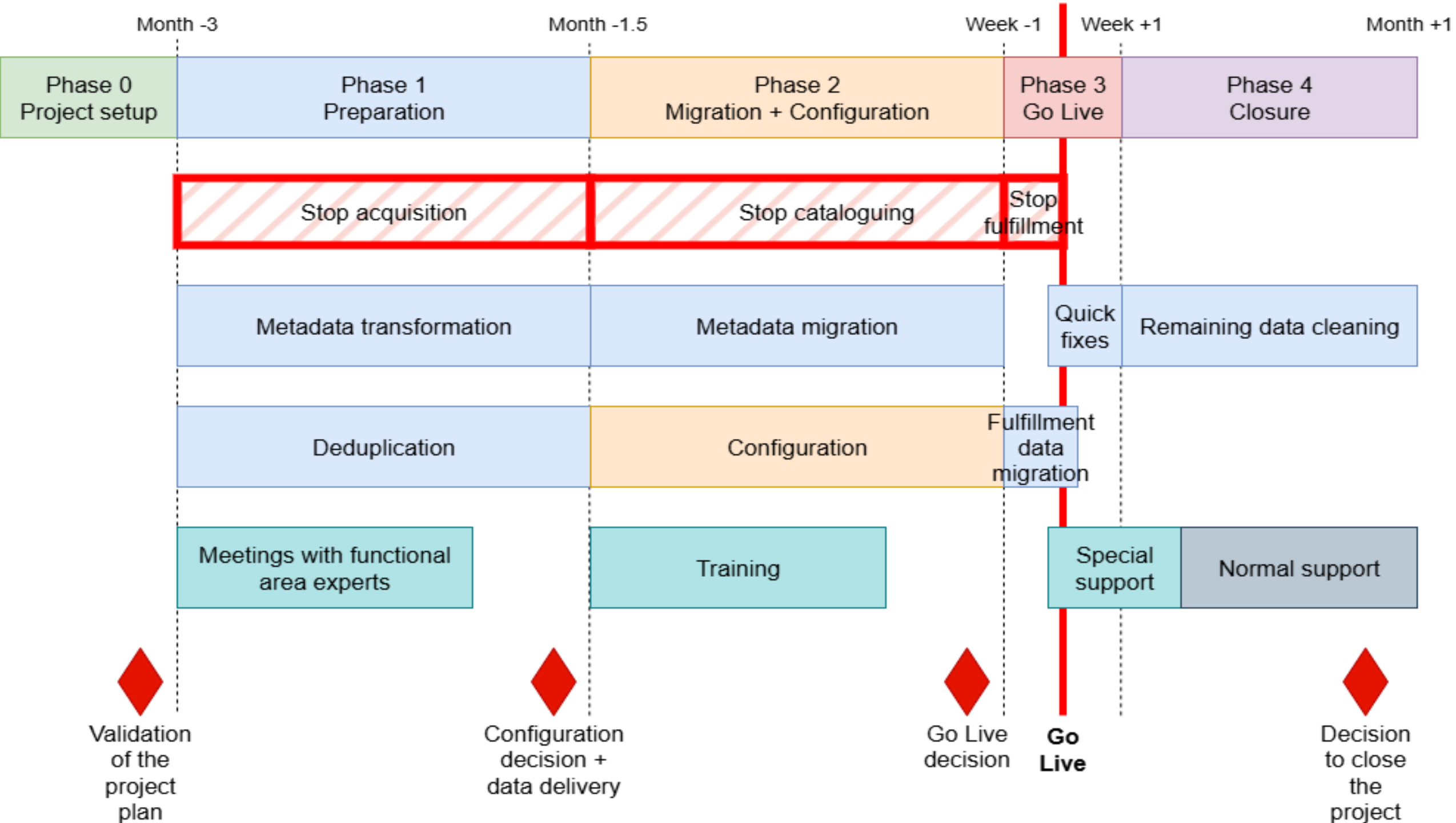
Case	Description	Deduplication	Support of Clarivate required	Example
New Alma IZ joining SLSP	IZ to be linked with NZ	Yes	Yes	<u>BVERW</u> , <u>ABN</u>
New Library joining SLSP	External import into IZ and shared with NZ	Yes	No	<u>CMG-HEM</u> , <u>UNILI</u>
IZ to IZ migration	Library data copied in another IZ	No	No	<u>HEPFR</u> , <u>Agroscope</u>
Merge libraries	Holdings to be relinked to the winning library	No	No	<u>LUHSW</u> and <u>LUHSA</u>

2) Planning

General considerations

More Records → More Effort





3) Migration Process

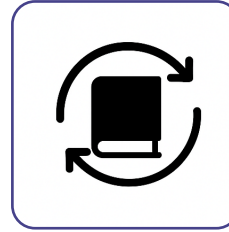
Preparation and Configuration

Acquisition data



- PO Lines
- Funds and ledgers
- Invoices
- Vendors

Fulfillment data



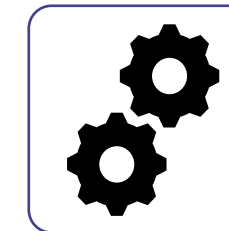
- Loans
- Requests
- Work orders
- Missing items

Bibliographic data



- Physical titles and inventory
- Digital Objects and E-resources
- Authorities
- Local extensions

Third Party Integration



- Printers and Scanners
- Self-Check machines
- Gates
- SAP

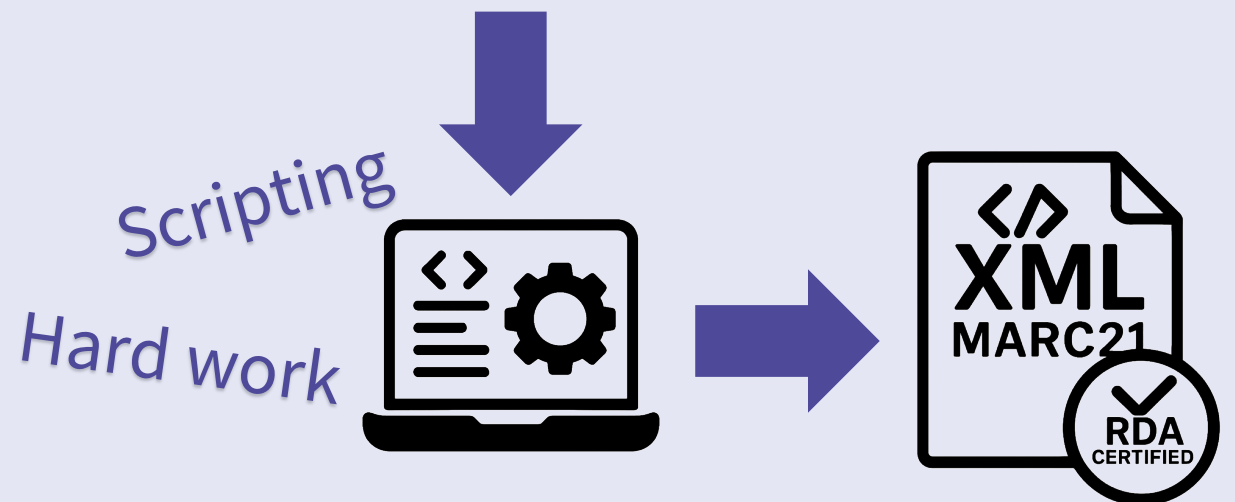
Data preparation

Initial estimation:

- Inspect data quality
- Overview per resource type: monography, article, series ...
- Match in NZ via standard identifier (ISBN/ISSN)

Hard question: **should we accept data in other formats?**

```
{  
  "title": "Animal Liberation - A Graphic Guide",  
  "author": "Gruen Lori, Singer Peter, Hinde David (Illustrationen)",  
  "isbn": "978-0-948491-21-4",  
  "cover_image": "http://books.google.com/books/content?id=fp7...",  
  "edition": 0,  
  "year": 1987,  
  "price": "159",  
  "abstract": "Gru - Ethik: Tierrechtsbewegung \\/ Aktivismus ",  
  "content": "Animal Liberation: A Graphic Guide vividly and power...",  
  "review": "",  
  "keywords": "Ethics Animal Rights Movement Activism Animal Liber...",  
  "contained_in": "",  
  "city_of_publishing": "London",  
  "medium_name": "Buch",  
  "publisher_name": "Camden Press Ltd",  
  "status_name": "Verf\u00fcl\u00fcgbar",  
  "category": "Ethik",  
  "subcategory": "Tierrechtsbewegung \\/ Aktivismus"  
}
```



Data transformation

Bibliographic data

- Workflows in JupyterHub
- Step by step workflow
 - Testing possible at each step
 - Repeatability
(test migration, prod migration, post migration)
 - Save points for important data conversions



task_00_aet
task_01_unili_aet_extract
task_02_filter_fhfh
task_03_filter_erss_not_migrated
task_04_records_items_holdings
task_05_filter_analytical_records
task_06_filter_series_records
task_10_create_subset_material_types
task_11_make_batches
task_12_create_concordance_list
task_13_bibliographic_data
task_17_clean_bibliographic
task_17_clean_bibliographic_11_7XX_mmsid
task_18_split_multi_item_files

Tools

Not just one way

- Import profiles
- APIs / python scripts
- Alma Jobs
- AutoExtract Tool (AET)
- Deduplication tool
- Third Party Databases

How to decide?

- Security / reporting
- Time management (human and machine time)
- Recovery in case of failure
- Experience



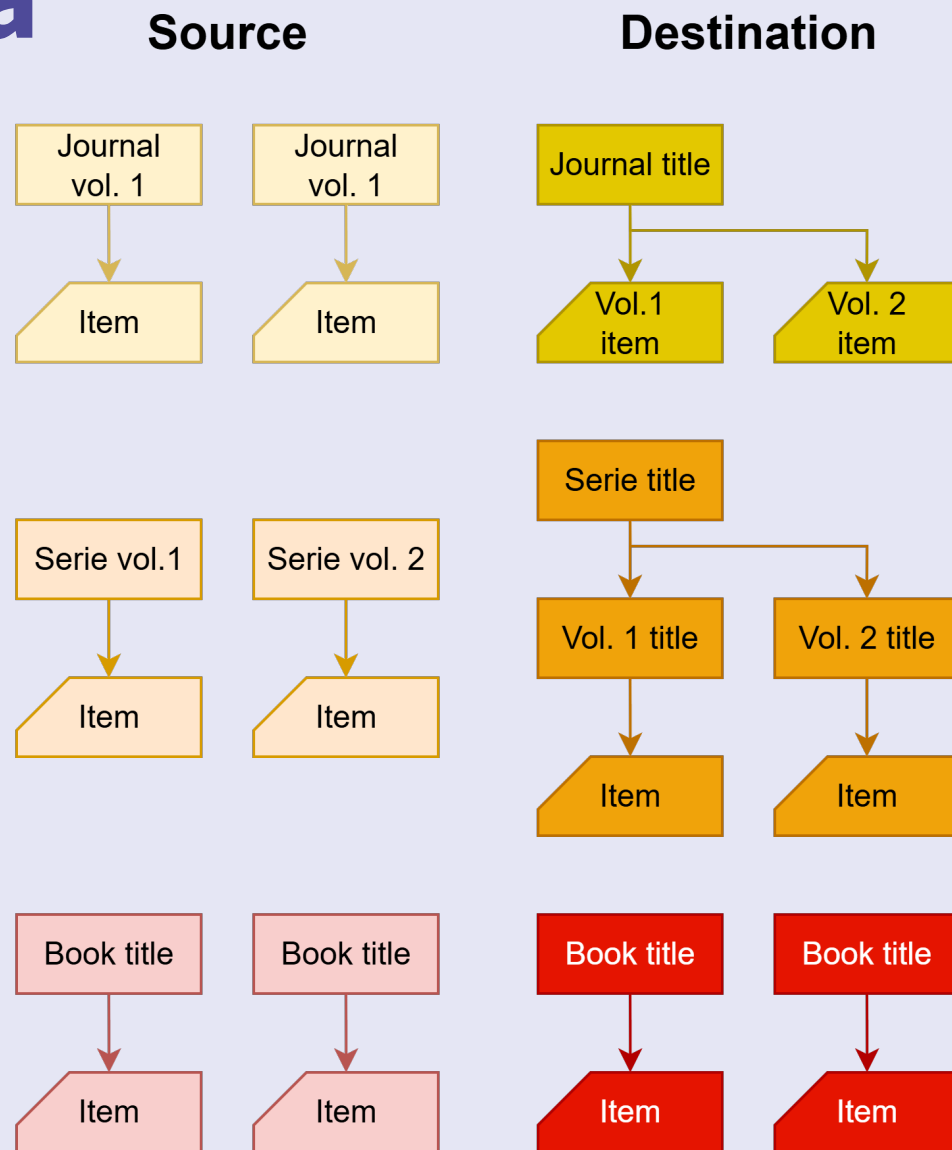
Find your own strategy

Challenges in metadata to be migrated

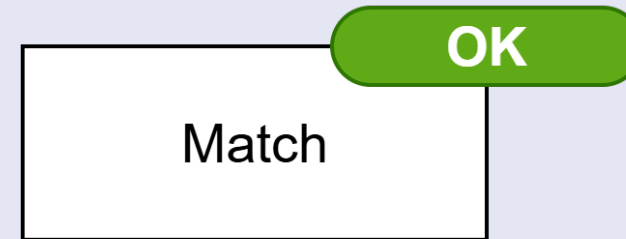
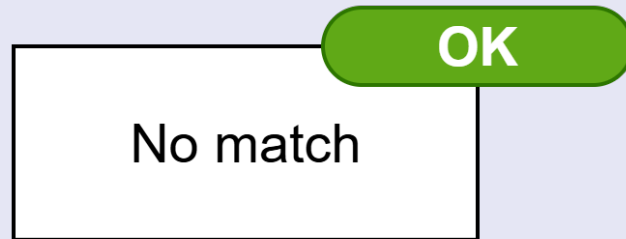
- Multipart volumes
- Continuing resources (journals vs series)
- Analytical records
- “Bound with” volumes



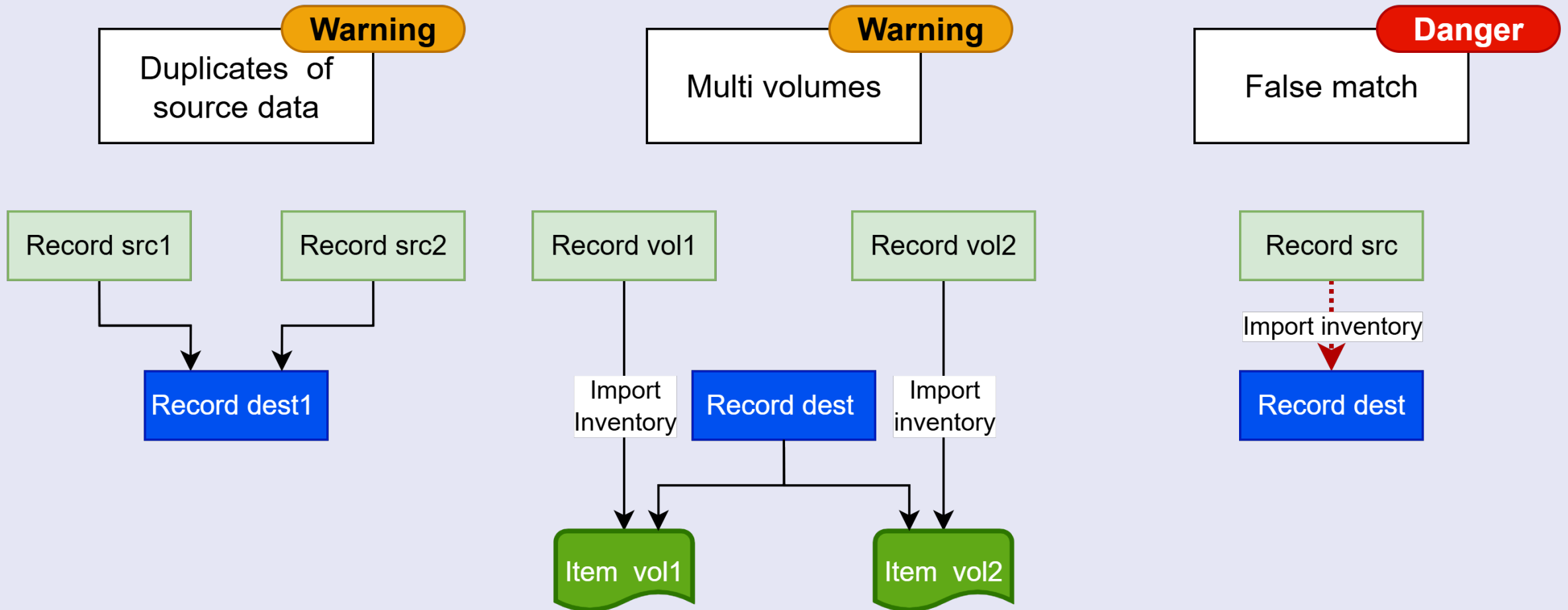
Rebuild structure of source data



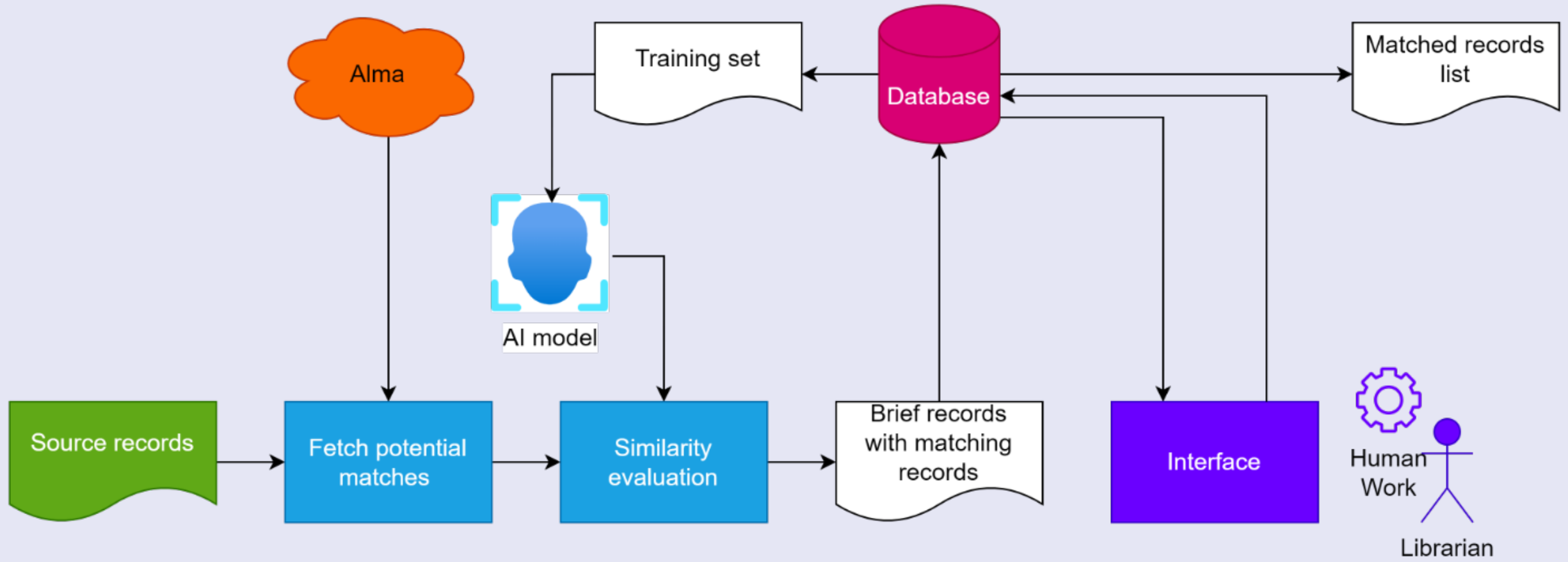
Deduplication: simple cases



Deduplication: common issues



Deduplication: workflow



SLSP dedup tool (POLAR_all_1)

[Home](#) [Logout](#)

Local IDs

Filter:

match



Record ID:



786 records

FM_25

FM_47

FM_51

✓ FM_65

FM_70

FM_73

FM_75

Local brief record		NZ / external brief record	Score
rec_id	FM_70	991171261779005501	
format	Book / Physical / txt;n;nc	Book / Physical / txt;n;nc	1
titles	Fahrten und Forschungen der Holländer in den Polargebieten	Fahrten und Forschungen der Holländer in den Polargebieten: altholländische Berichte zur Geographie, Kultur- und Wirtschaftskunde der nördlichen Meere	0.78
short_titles	Fahrten und Forschungen der Holländer in den Polargebieten	Fahrten und Forschungen der Holländer in den Polargebieten	1
creators	Blink H. Dr.	Blink, H. / Cronheim, Paul	0.87
corp_creators			0.00
publishers	Otto Wigand	Wigand	0.92
years	1913	1913	1
editions			0.00

Select matching record

Cancel matching record

Add to training data

Matching

Not matching

Record ID

score

★ [991171261779005501](#) 0.88

Evaluation models

Current model:

random_forest_general



Import profiles

Prepare XML data and import profile

- Use field to describe holdings
- Use field to describe items
- Configure import profile

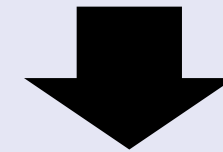
Suitable for simple cases

- Works well with 1 item, 1 holding, 1 callnumber
- Very quick



Limitations and bugs

- Fails to import files due to network zone
- Few logs and rollback solutions



Import
profile



ALMA

APIs

Reproduce the entire process «manually»

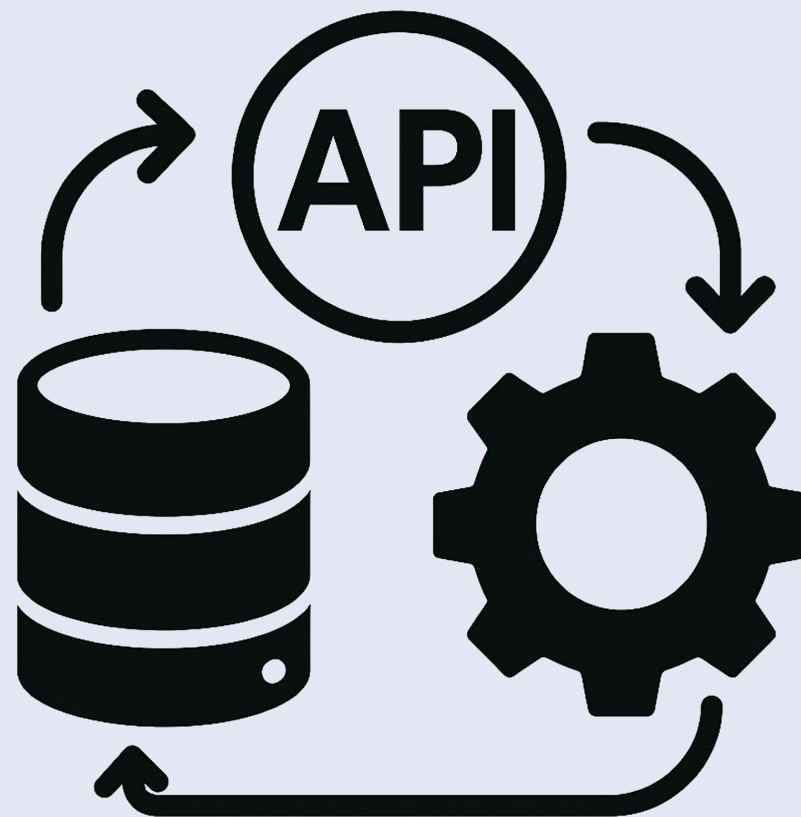
- Create bib records
- Create holdings
- Create items
- Add local extensions

No item and holding number limitation



Be careful with API

- Logging
- Recover after failing records
- Rollback strategy available



APIs vs Import profiles

Import profiles	APIs
Very quick	Slow
A lot of human operations	More flexibility
Configuration requires experience	Not easy to ensure adequate security
Risk of data chaos if error in configuration	Risk of data chaos if error in code or data
Good for homogenous data	Good for heterogeneous data

Migration of non bibliographic data

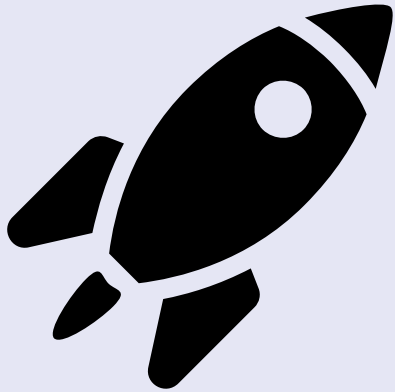


Not completely
easy...

Workflows need often
to be replayed using
Alma jobs or APIs



(After) Go Live



Reimport source data into SLSP records



Clean holdings and item data fields



Write lesson learned



Close the project

4) Involving Clarivate

Involving Clarivate

	With Clarivate	On your own
Project Management	Provided by Clarivate	Handled internally
Migration Completeness	Includes acquisition data, loans, requests	May exclude complex data (e.g. acquisitions)
Required Skills	Less internal expertise required	Requires in-house data expertise
Cost	Expensive	Time intensive
Flexibility / Control	More standardized process, less flexibility	Higher control over timing, scope, and field mappings



5) Conclusion

Conclusion



Questions?

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rouven.schabinger@slsp.ch

*“La migrazione non è solo uno spostamento
nello spazio, ma un cambiamento nella
conoscenza.”*



Resources

API tools

- Alma API Wrapper: <https://almapi-wrapper.readthedocs.io/en/latest/>
- Alma SRU: <https://almasru.readthedocs.io/en/latest/index.html>

Deduplication

- Interface: <https://github.com/Swiss-Library-Service-Platform/slspdeduptool>
- Algorithms: <https://github.com/Swiss-Library-Service-Platform/dedupmarcxml>

Transfer IZ to IZ

- https://github.com/Swiss-Library-Service-Platform/iz_to_iz_transfer