Schema Mapping Tool

BHL

Biodiversity Heritage Library
EUROPE

Overview

- Requirements

- Concept & Workflow

- Mapping Process

- Live Demonstration

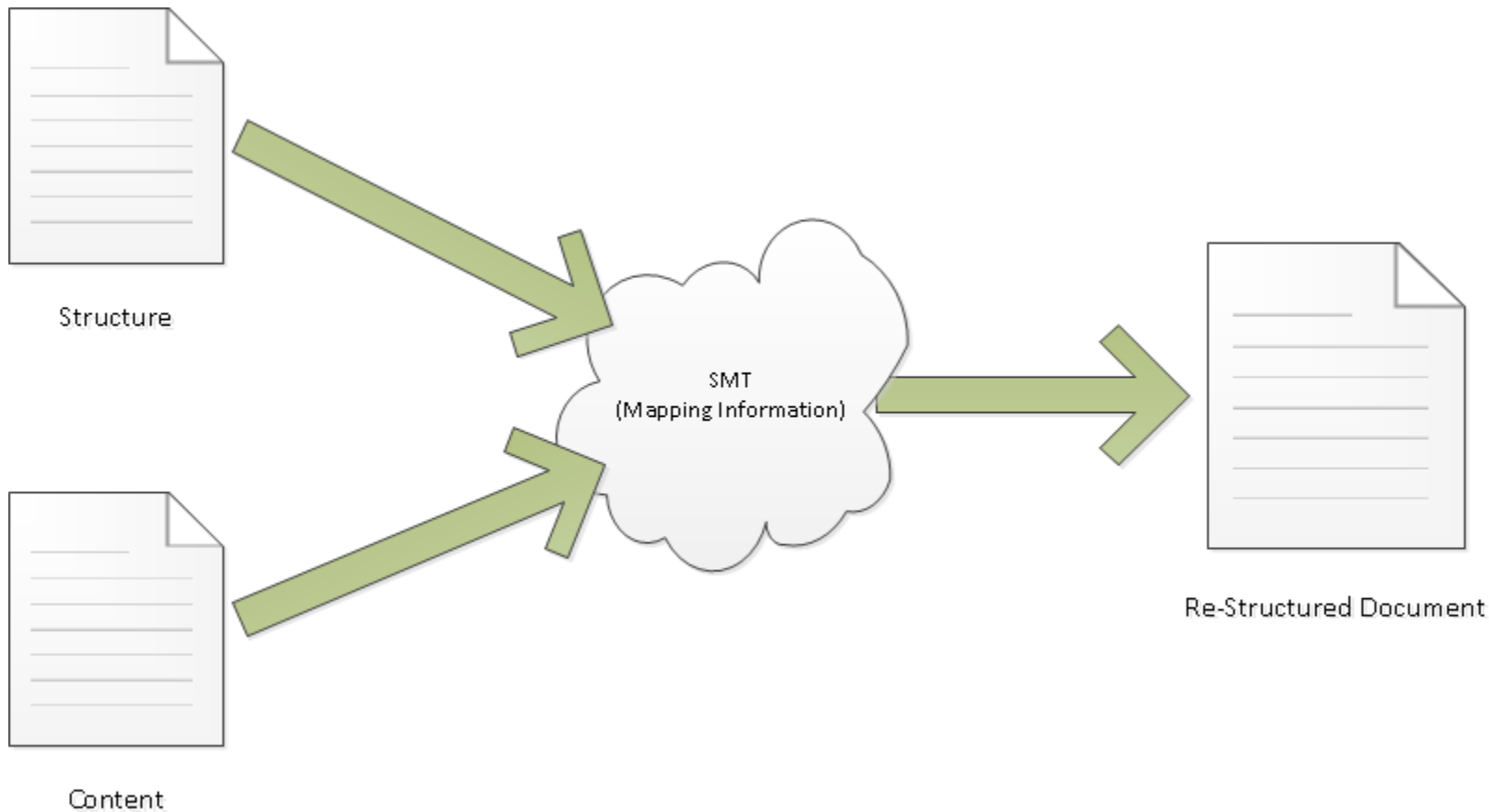# Requirements

- Java Applet

- Webbrowser

- Working Java Installation

- Available at http://code.google.com/p/schema-mapping-tool/
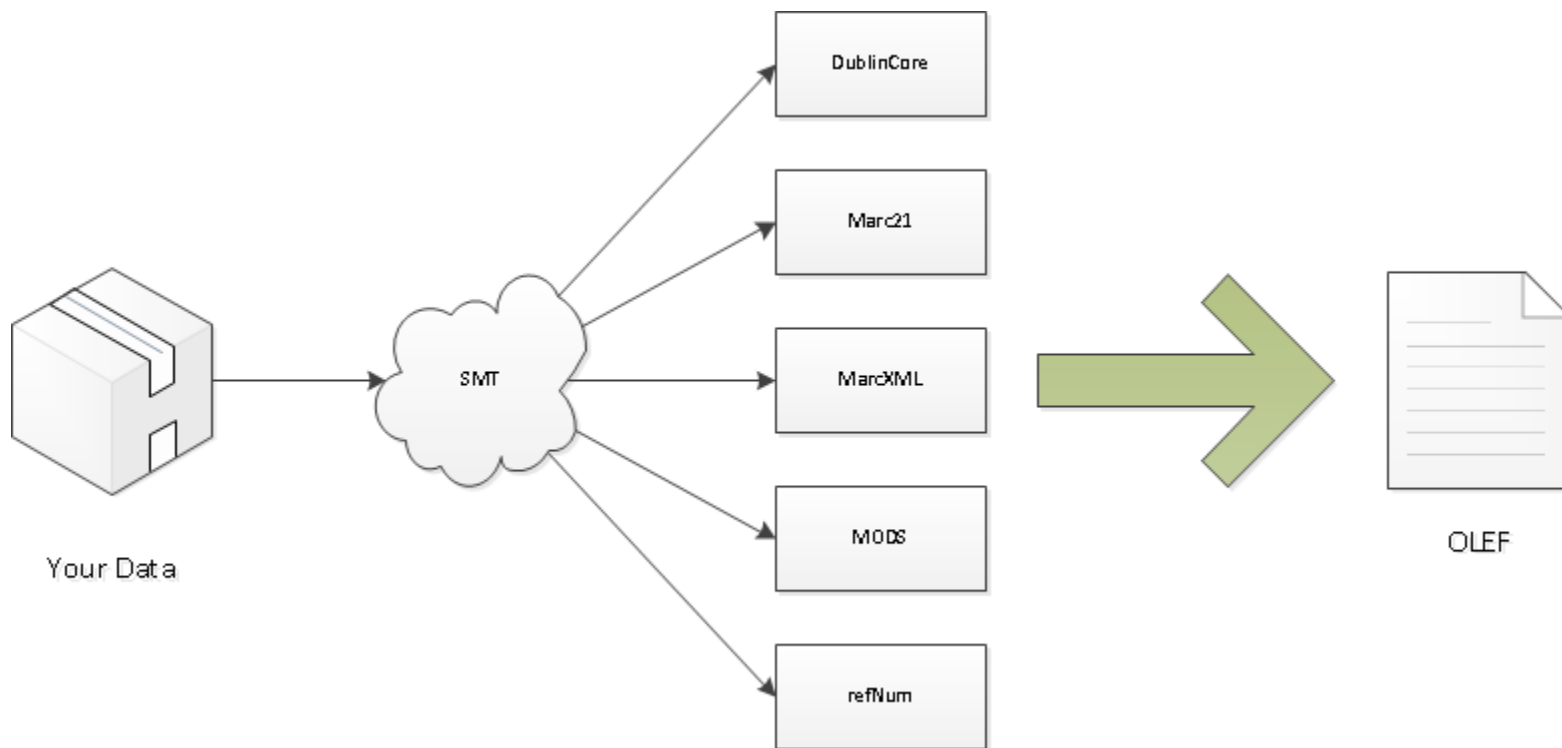
Concept

- Structure of input / output
- Content
  - Actual data to be processed

- Various formats supported
  - MySQL, PostgreSQL
  - Excel, MARC, XML, CDS/ISIS
  - etc.

Workflow

Structure

Content

SMT
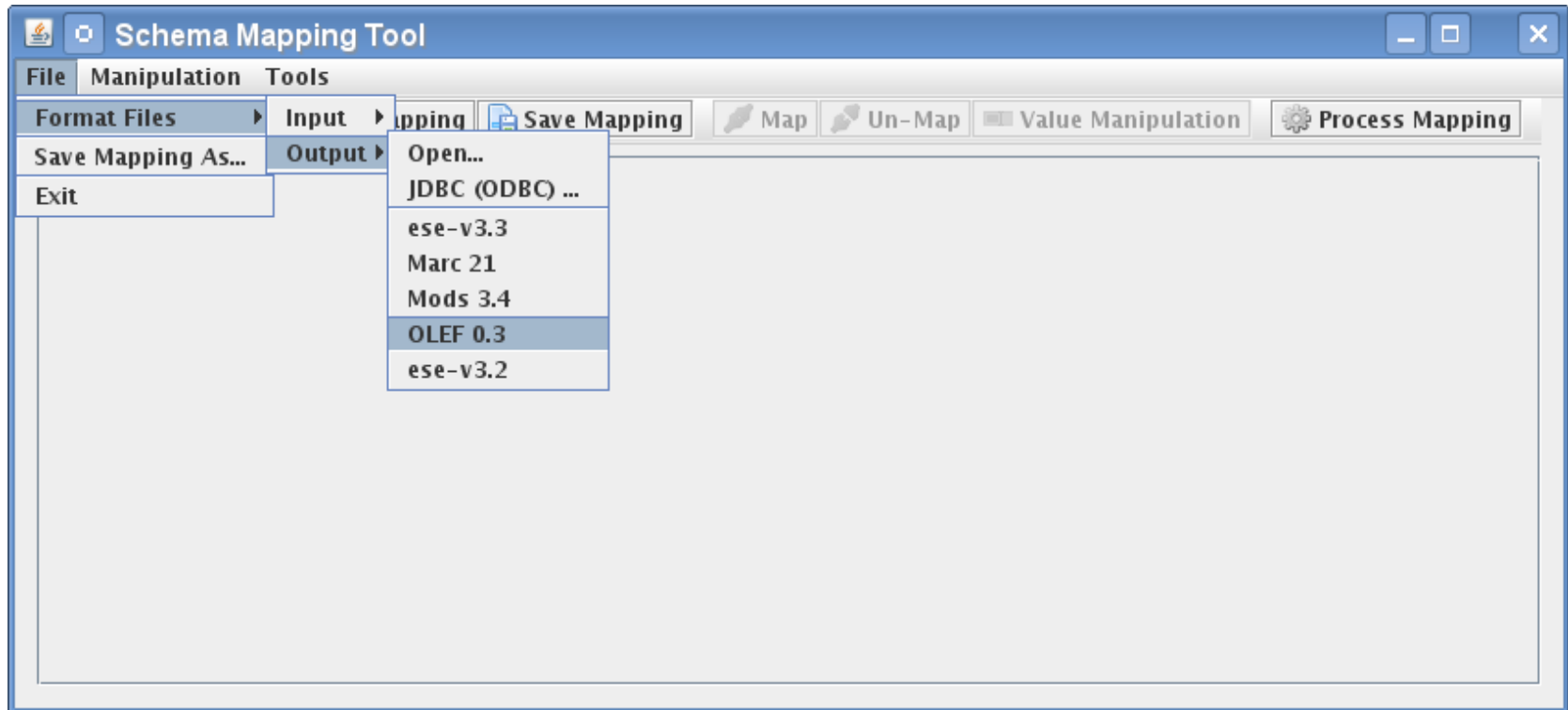(Mapping Information)

Re-Structured Document

Mapping to OLEF

Mapping Process - Overview

- Load input and output structure
- Create mappings
- Apply value manipulations (optional)
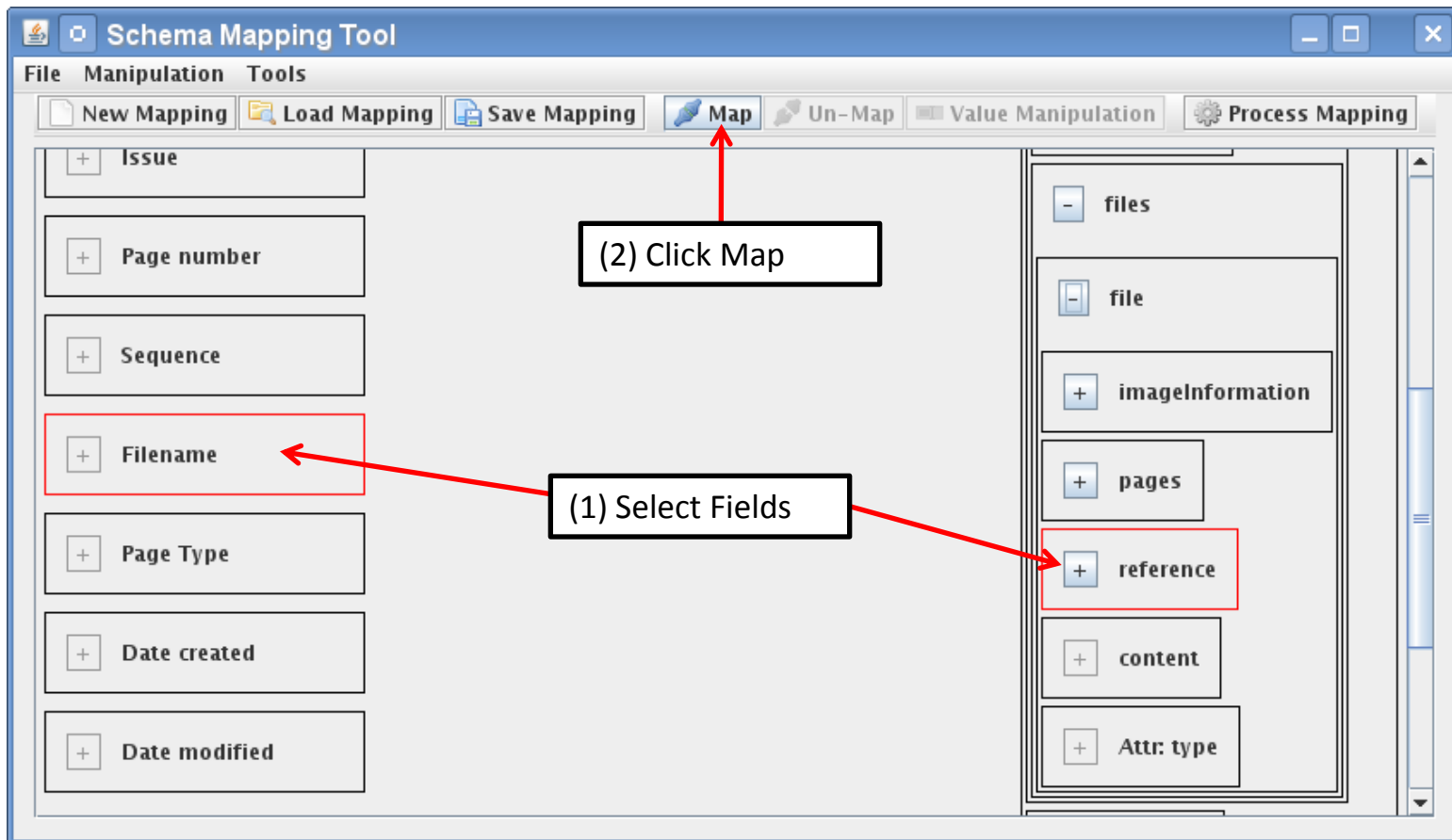- Setup processing options
- Process data
- Review output

Mapping Process - Load input and output structure

Mapping Process - Load input and output structure

- Load structure for mapping

- File -> Format Files -> Input / Output

- Pre-Created standard structure (OLEF, ESE, MODS, etc.)

- Custom structure (XML, XSD, CSV, etc.)

Mapping Process – Create mappings

Mapping Process – Apply value manipulations

Mapping Process – Mappings & Manipulations

- Select input and output field (highlighted)
- Click "Map"

- Select existing, mapped, fields (highlighted)
- Click "Value Manipulation"
- Change options for manipulation (by adding / removing)

Mapping Process - Process data

(1) Select Format

(2) Select Files

(3) Process Mapping

Mapping Process - Process data

- Select input and output format (Excel, XML, etc.)
- Select files for input and output
- (optional) Save processing options using "Save" menu
- Process mapping by clicking on "Process"

Mapping Process – Review output

Live Demonstration

References

- SMT sourcecode: http://code.google.com/p/schema-mapping-tool/

- SMT Live: http://bhl.nhm-wien.ac.at/smt/launch.html

- OLEF Documentation: http://www.bhl-europe.eu/bhl-schema/v0.3/