



PATENT OFFICE OF THE REPUBLIC OF BULGARIA (BPO)

PRIOR ART DATA EXCHANGE

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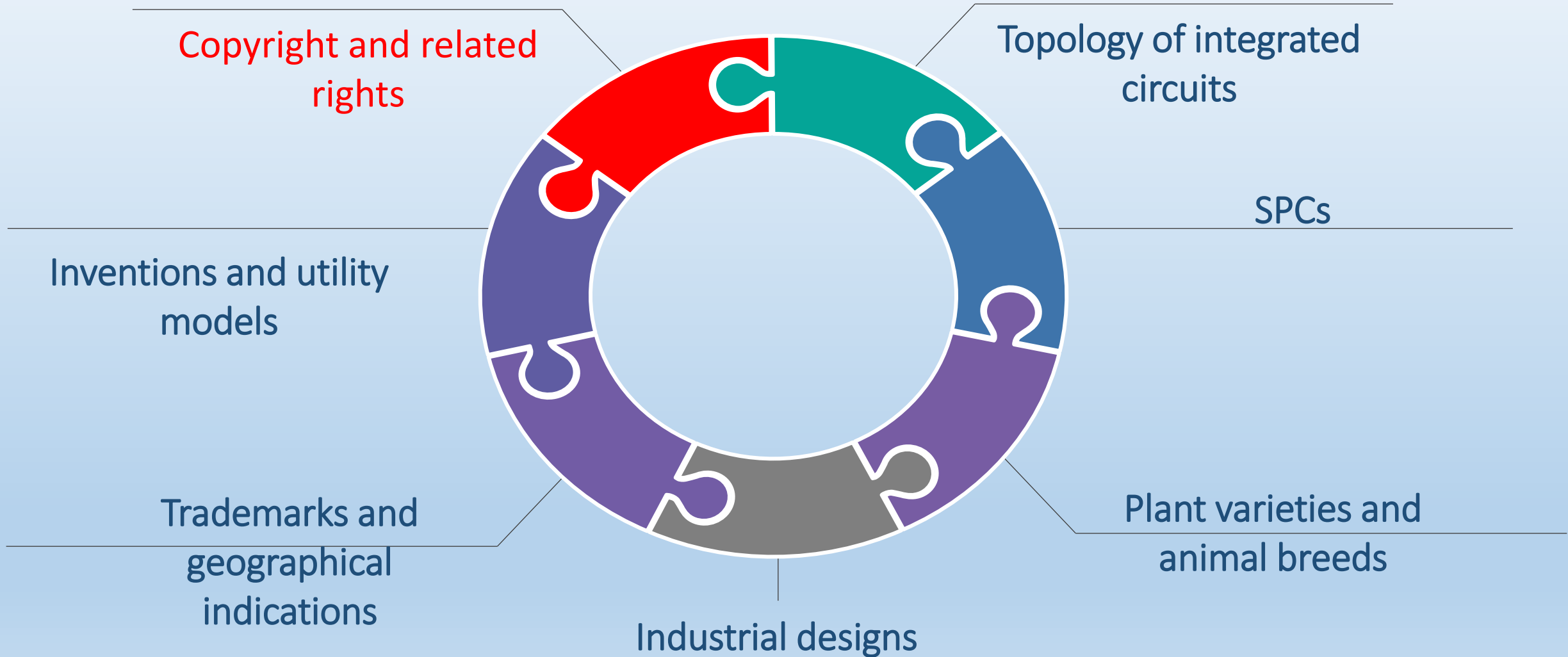


BPO is

- a national state body for legal protection of industrial property based in Sofia, second level spending unit at the Ministry of Economy and Industry.
- a modern state institution whose vocation is to work for the implementation of the modern system for protection of industrial property.



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Examination- substantive examination (after the publication of the application)

Classification:

- IPC (51)
- CPC (52)

BPO-EPO data exchange- twice a month:

- A1 publications
- B1 publications
- U1 publications

e-Filing

e- Journal- twice a month (<https://portal.bpo.bg/bpo-journal/>)

Uploading to e-Register the descriptions of:

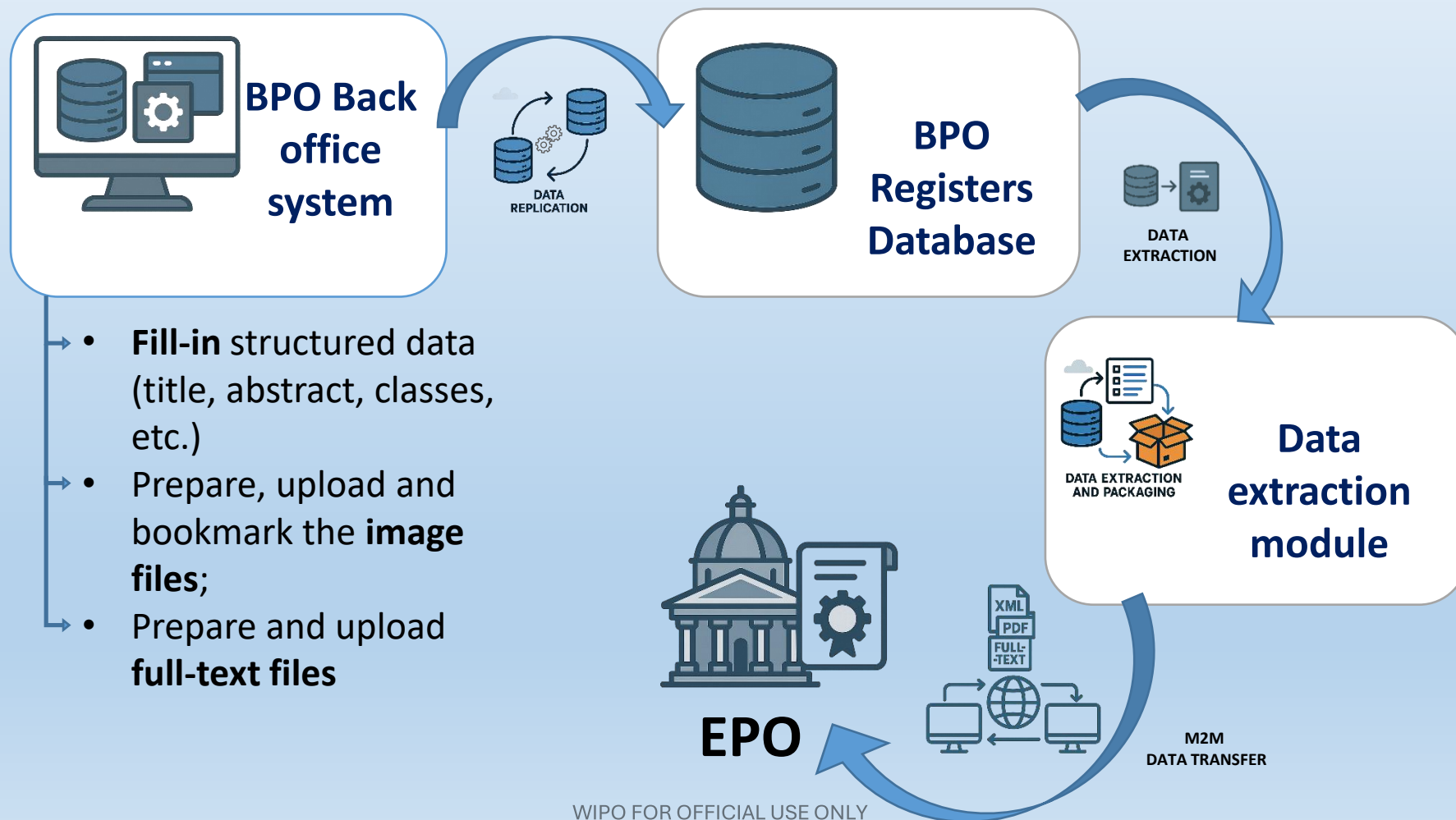
- Published patent applications (A1)
- Granted Patents (B1)
- Registered utility models (U1)
- Validated EP



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PRIOR ART DATA

Data preparation and delivery – overall flow






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PRIOR ART DATA

Data preparation in back-office – structured data

- Back-office system has intuitive user interface with strong data validations

Patent details 

Title in Bulgarian
АКУМУЛАТОРНА МЕТАЛ-ХИДРИД/ВЪЗДУШНА БАТЕРИЯ

Title in English
RECHARGEABLE METAL HYDRIDE/AIR BATTERY

Abstract in Bulgarian
Изобретението се отнася до акумулаторна метал-хидрид/въздушна батерия с приложение в областта на съхранение на енергия от възобновяеми енергийни източници и нейното отдаване при необходимост. Задачата на изобретението е да бъде предложена алтернатива на използваните в момента акумулаторни системи за стационарно съхранение/отдаване на енергия.

Abstract in English
The invention relates to a rechargeable metal hydride/air battery with applications in the field of energy storage from renewable energy sources and its dispensing when needed. The purpose of the invention is to provide an alternative to currently used stationary energy storage/dispensing systems.

Number of drawings
4

Total number of patent claims
2

Number of independent claims (group of inventions)
2

Number of pages of description, patent claims, drawings and abstract
21

Document name	Document type	Creation date
113746_0001.pdf	Description submitted	13.07.2023
BG113746A1_1.pdf	Description for publication A1	03.02.2025
BG113746A1_1.docx	Full text description A1	20.02.2025

Attached files

Full-text docx file

Submitted by applicant

Bookmarked PDF image

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Data preparation in back-office – Image files

- EPO Scan application no longer in use – setting bookmarks is now an integral part of the back office; the user just specifies the respective page numbers:

Change bookmarks

Bibliographic data
1

Abstract
1

Description
2

Claims
17

Drawings
20

✓ Save ✕ Cancellation

113746_0001.pdf	Description submitted	13.07.2023	
BG113746A1_1.pdf	Description for publication A1	03.02.2025	
BG113746A1_1.docx	Full text description A1	20.02.2025	

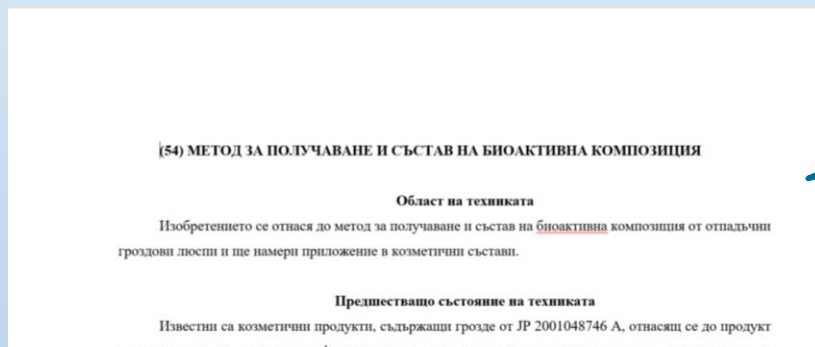


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Data preparation in back-office – Full- text files

- Abby FineReader is used for OCR when needed
- The .docx file follows just a few simple conventions:

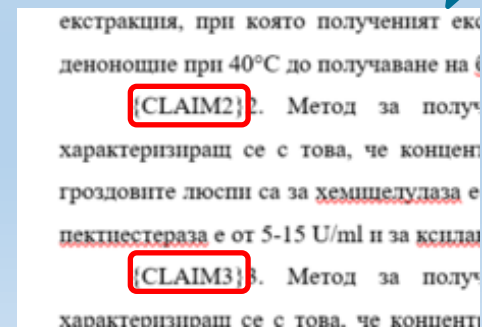
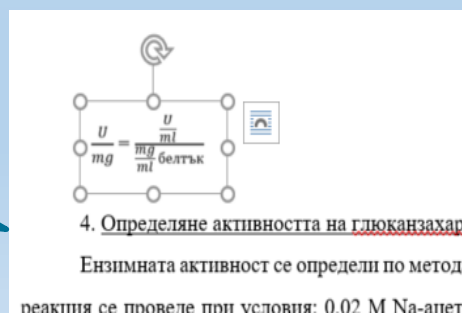


1. The document starts with the title and description as normal formatted text

2. Each claim is prefixed with a special token at the beginning

3. Images that are part of the description appear as new paragraphs

4. Formulas are converted to images

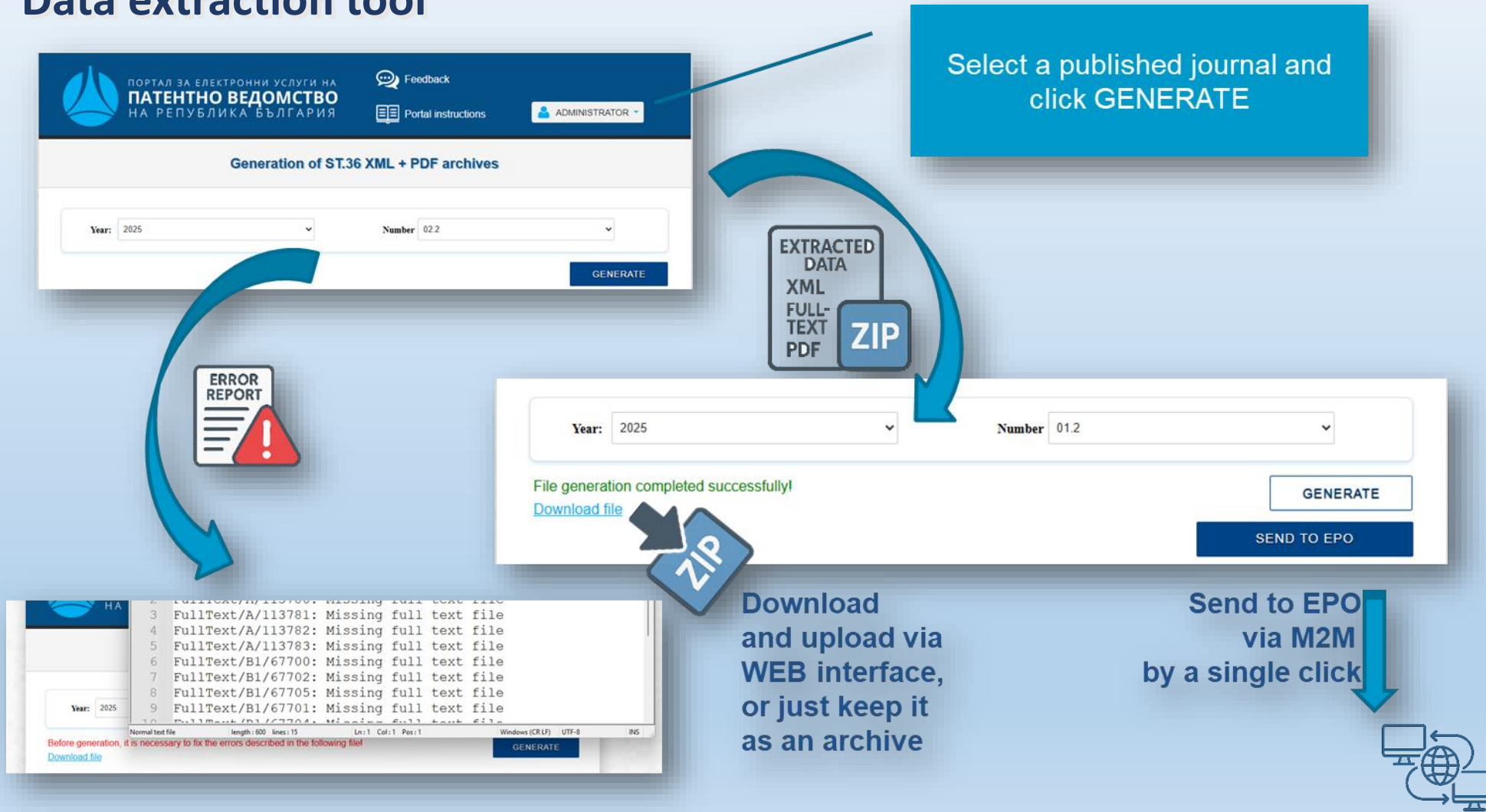




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PRIOR ART DATA

Data extraction tool

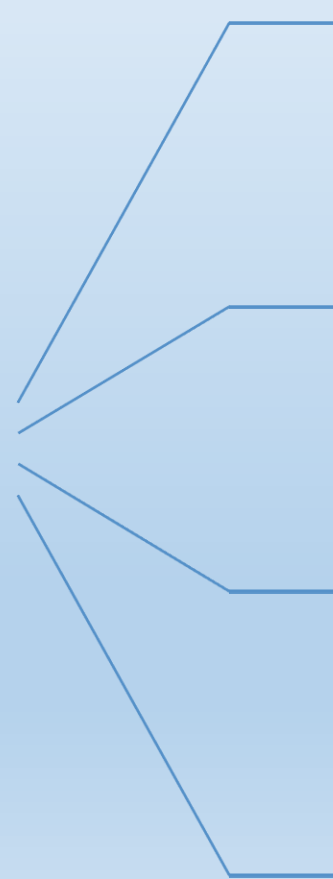




PRIOR ART DATA

Data extraction tool- technical implementation

**BPO own custom
development.
Modern, WEB
based multi-tier
application
based on:**



Java 21

SpringBoot 3.2.1

React JS

Apache POI



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THANK YOU FOR ATTENTION !

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