IDS AirNav
an enav group company

WePub Training for Operators

Unit 1

enav group

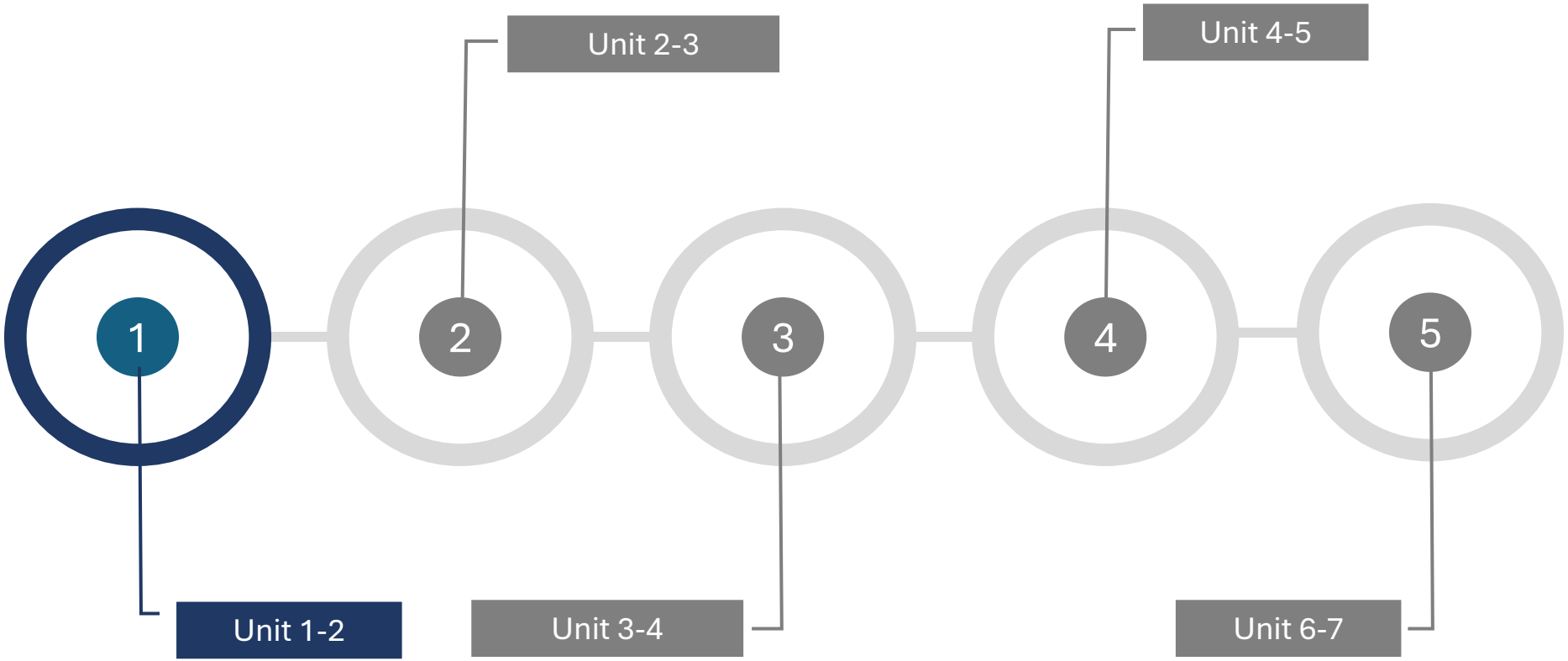
Presentation

Scope of the training

- Complete overview of the whole WePub system infrastructure and functionalities;
- Full control of the software in order to be the future operators in complete autonomy;
- Best practices and soft skill for utilizing the product in an efficient way
- Get an idea of how the software shall be utilized in the final production phase
- Address the trainees to the configuration phase for review and check data visualization.

TRAINING SESSIONS

5 days



WePub Training for Operators

Unit 1

WePub introduction and general overview

- What WePub is
- Purposes, strengths and potentialities of the software
- Solution's architecture
- WePub main interface
- WePub workflow overview
- Workflow user roles
- WePub repository: temporality management

WePub introduction and general overview

What WePub is

What WePub is

WePub, which stand for Web Publications, is the IDS AirNav web-based solution supporting organizations (such as air navigation service providers (ANSPs), airports and air forces) in automatic aeronautical publications production through:

- textual data collection and editing
- structured data integration from multiple data sources
- publication generation, validation and storage

The software offers the possibility to collect the aeronautical publications produced by the ANSP personnel and organize them in an Electronic Aeronautical Information Package, the eAIP, in accordance with EuroControl specifications requirements and customers' needs.

WePub's functionalities and configurations are developed in accordance with quality standards required by national and international regulators, as for the following documents:

- ICAO Annex 15
- European Commission regulation No. 73/2010 (ADQ - Aeronautical Data Quality)
- Electronic AIP (eAIP) Specification v2.1
- ICAO PANS AIM (Doc 10066)
- ICAO Doc 8126

Purposes, strengths and potentialities of the software

Software purposes

Complete management of aeronautical publications according with ICAO Annex 15 which requires each state, via air navigation service providers or airports, to publish an Integrated Aeronautical Information Package (IAIP) including:

- Aeronautical Information Publication (AIP) and AIP Amendments (AMDT):
  - Textual data, as well as data retrieved from an Aeronautical Database, where duly configured, can be collected in AIP. Also charts and images can be inserted in the publications.
- Aeronautical Supplements (SUP):
  - Textual data, can be collected in SUPs. Also charts and images can be inserted in the publications. According with the temporality purposes of Supplements, temporal data in the AeroDB can be linked to a SUP precise configuration.
- Aeronautical Circulars (AIC):
  - Textual data, can be collected in AICs. Also charts and images can be inserted in the publications.

In addition, Airport Manuals required by ICAO Annex 14 can be produced and perhaps further “free” publications are allowed.

According with the above-mentioned information, we have a distinction between data types to be published:

- Static data: all data inserted manually from WePub interface
- Structured data: all data contained and retrieved from the AeroDB according with the configuration.

Software strengths

- ✓ Simplified Deployment

As it is based on client-server web technology WePub allows users to work remotely without local software installation and includes access for authorized users to published (draft and final) versions of documents

- ✓ Compliance

WePub is developed according to ED-153 Guidelines for ANS Software Safety Assurance and allows easy compliance with all Aeronautical Regulations

- ✓ Live Preview

Allows the user to quickly identify and fix any errors early in the publication process, reducing the need for time-consuming and costly rework

- ✓ No Commercial Third Parties required

- ✓ Efficient Data Quality

Several automatic operations reduce the need of manual interaction by operators during the publishing processes. Reduction of operator's workload and human error in amendments differences detection. Increases in the level of quality and integrity of the publications.

- ✓ Integration:

Full integration with the IDS AirNav suite allows the EUROCONTROL Aeronautical Data Quality (ADQ) mandate to be respected. Connection to AIXM databases for aeronautical data management, data dissemination, publishing and charting is ensured with no additional cost for the customer as it’s central part of the workflow.

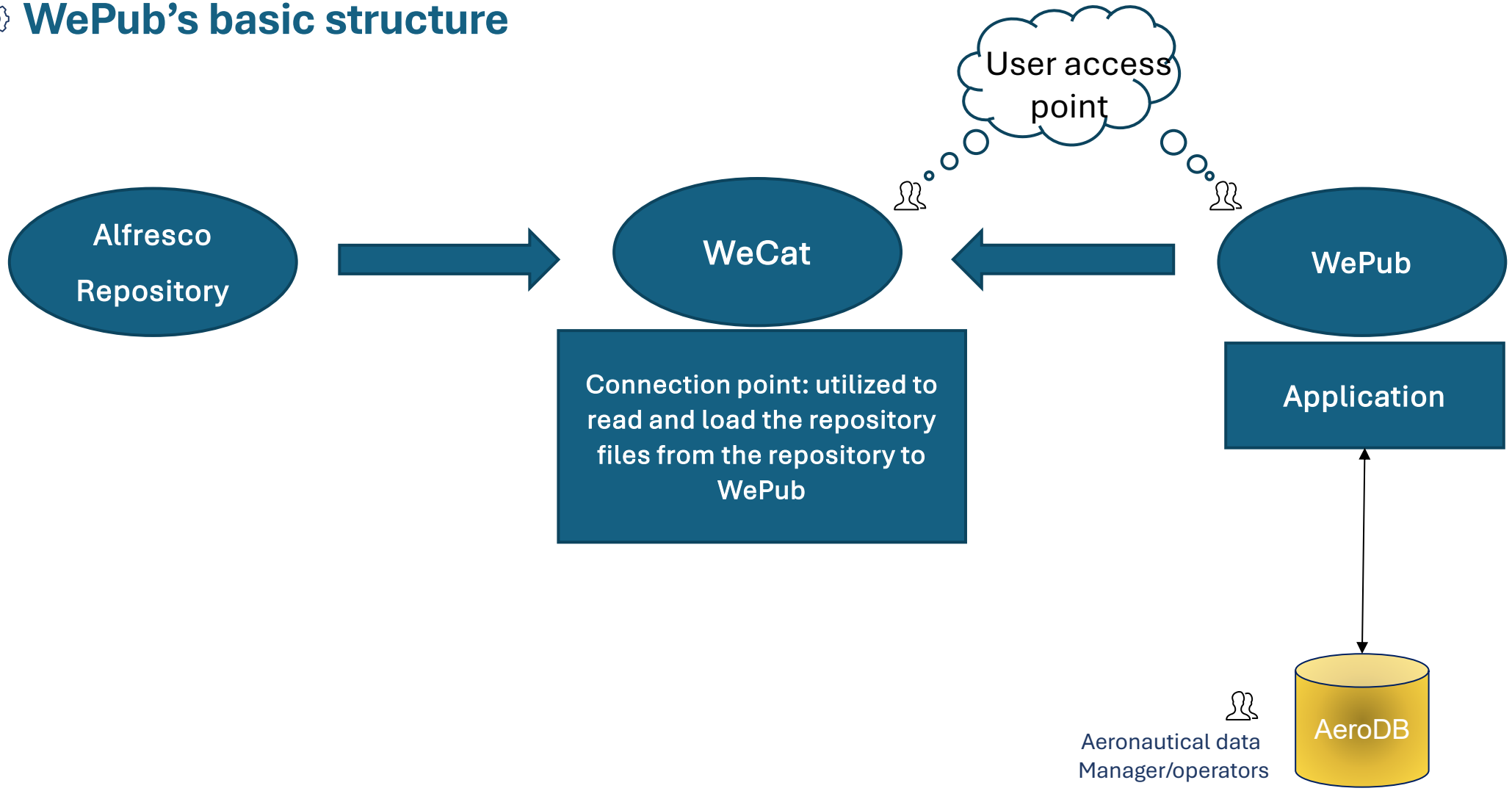
Software potentialities

- ✓ Since the development is planned and performed in accordance with all the requirements, the software is easy adaptable to future changes in ICAO or EuroControl or any national regulators guidelines.
- ✓ Development of new functionalities can be planned in accordance with customer's needs after a depth analysis of the requirements.
- ✓ Document Editing: A collaborative system allows multiple users to edit the same document simultaneously. The provision of an AIP Like Interface facilitates users in the editing of AIP textual data.
- ✓ Data Collection: External Data Originators can submit Change Proposals via the web interface and AIP editors can process the change requests. This is part of the software *integration* with other IDS AirNav Suite products.
- ✓ Data Referencing: Generate publications using input from an Aeronautical Database.
- ✓ Customization of data visualization: since the data collection from aeronautical database is based on templates the system allows the possibility to freely customize the visualization of data in the final output, according with customer's needs and ICAO/Eurocontrol specifications.
- ✓ Output: Live preview of the final document for AIP and eAIP, including change highlights (change bars, conditional text). Automatic generation of:
  - Amendment Cover Page
  - Checklist (GEN 0.4)
  - Table of Contents (GEN 0.6, ENR 0.6, AD 0.6)

Solution's architecture

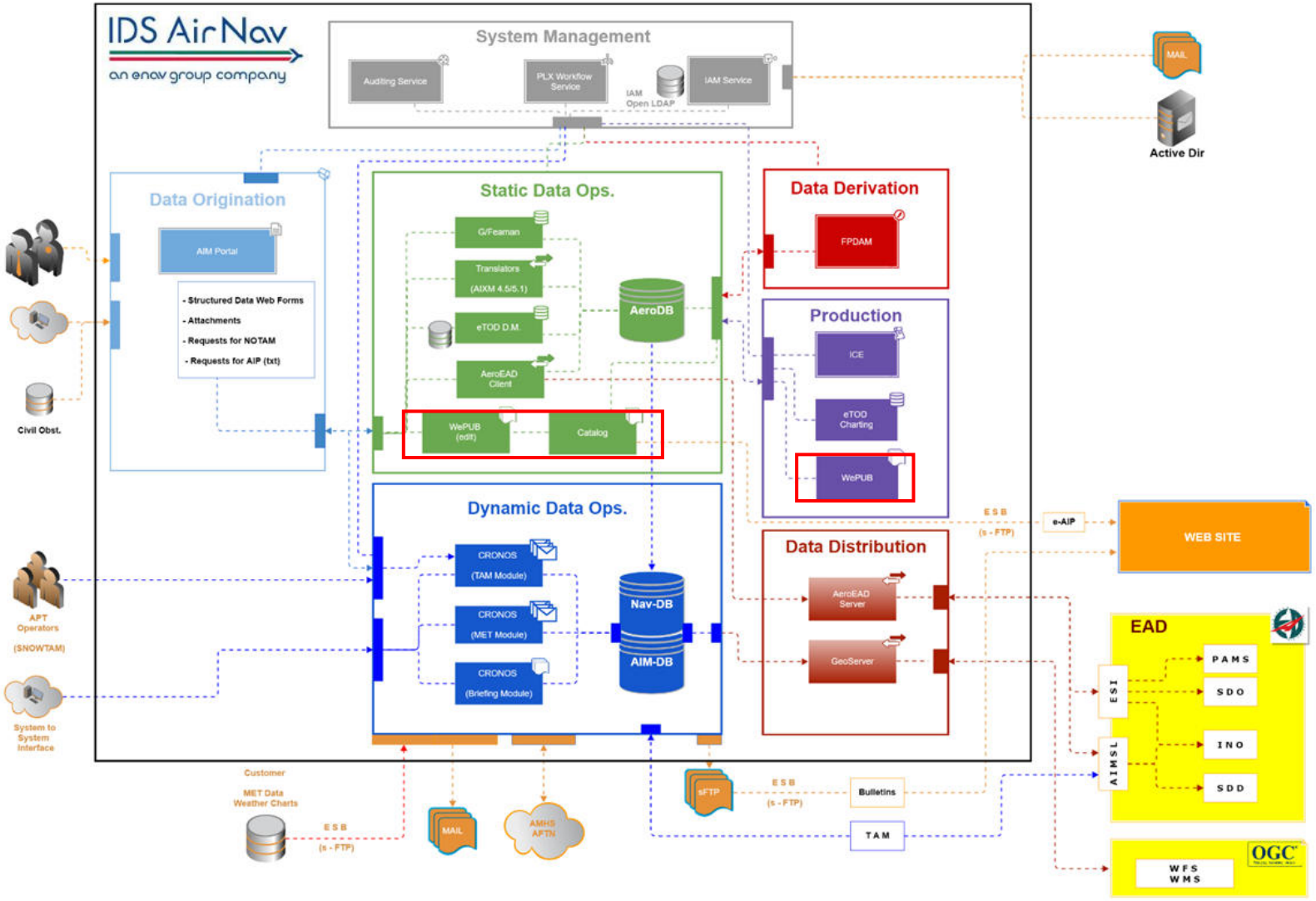
Solution’s architecture

WePub’s basic structure



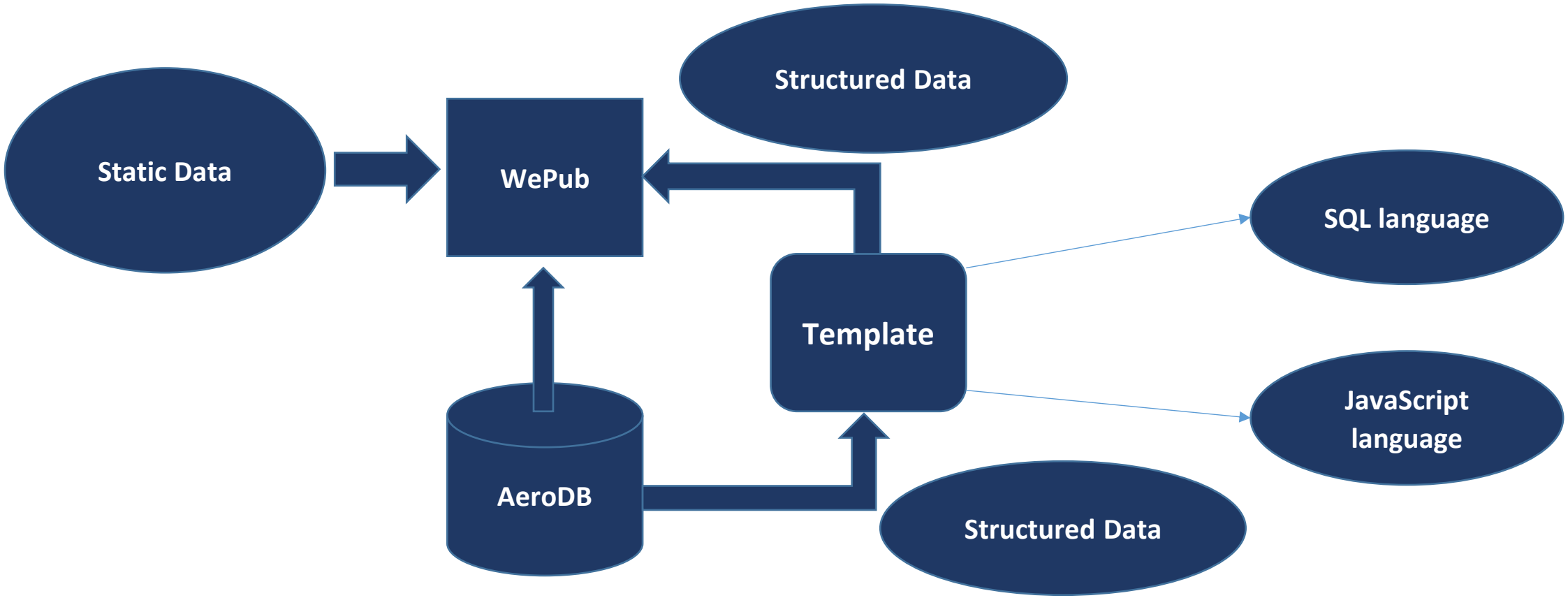
Solution’s architecture

Complete Solution’s Architecture



WePub workflow overview

WePub's data insertion definition



Any Questions

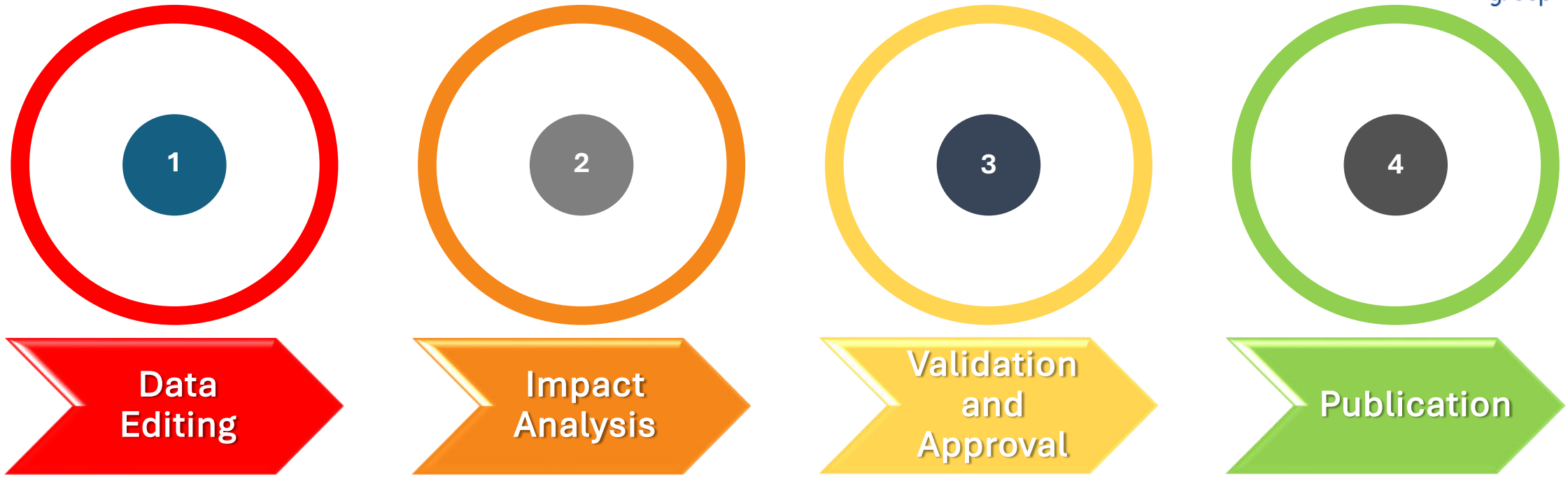
Coffee break

WePub main interface

WePub main interface

WePub workflow overview

WePub workflow overview



Changes Requests are collected from data originators on both :

- Structured Data
- Text, Images, Charts

Impact on Publication is evaluated.

Impacted sections are highlighted

The authorized user can accept/reject changes

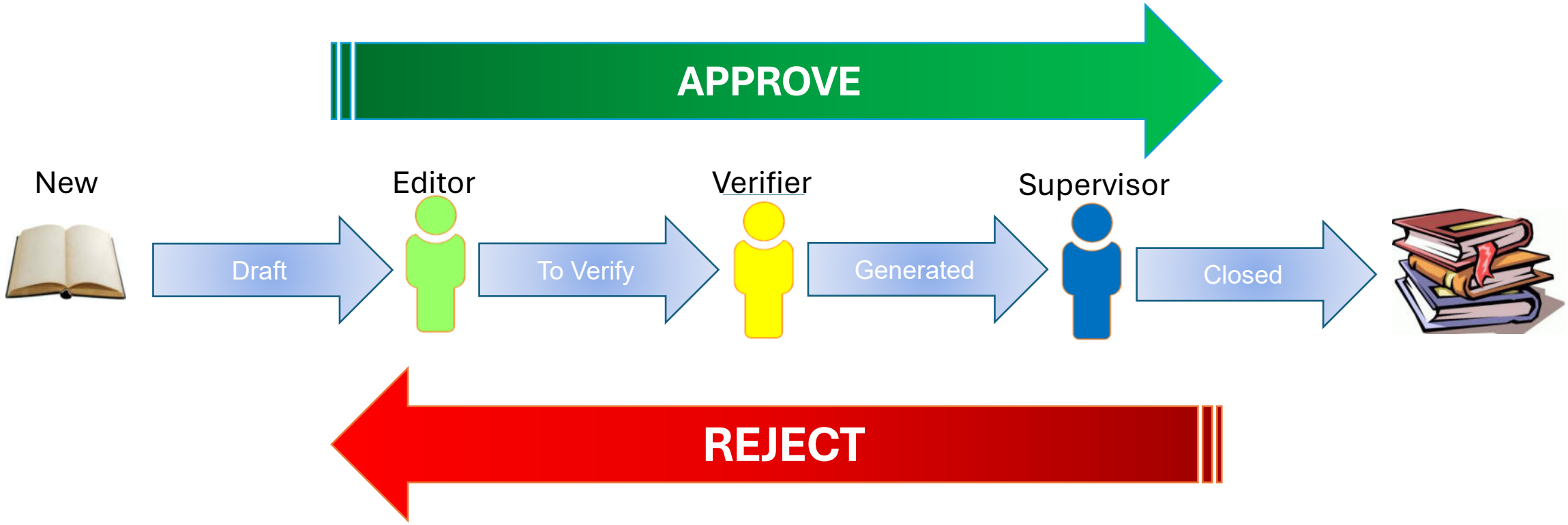
Final Publication is Validated by checking:

- Changed Pages
- Changed Charts
- Blank Pages
- Coverpage
- Checklist

All changes are approved

Final AIP and eAIP are produced and made available on the web

Publications workflow statuses



WePub user roles

Publications' workflow statuses

Administrator

- Add, delete Publications;
- Add, delete Circulars;
- Add, delete Supplements;
- Add, modify book structure;
- All the operations allowed on WePub

Editor

- Edit content part;
- Generate sections preview;
- Set sections as completed.

Verifier

- Approve/reject data changes.

Supervisor

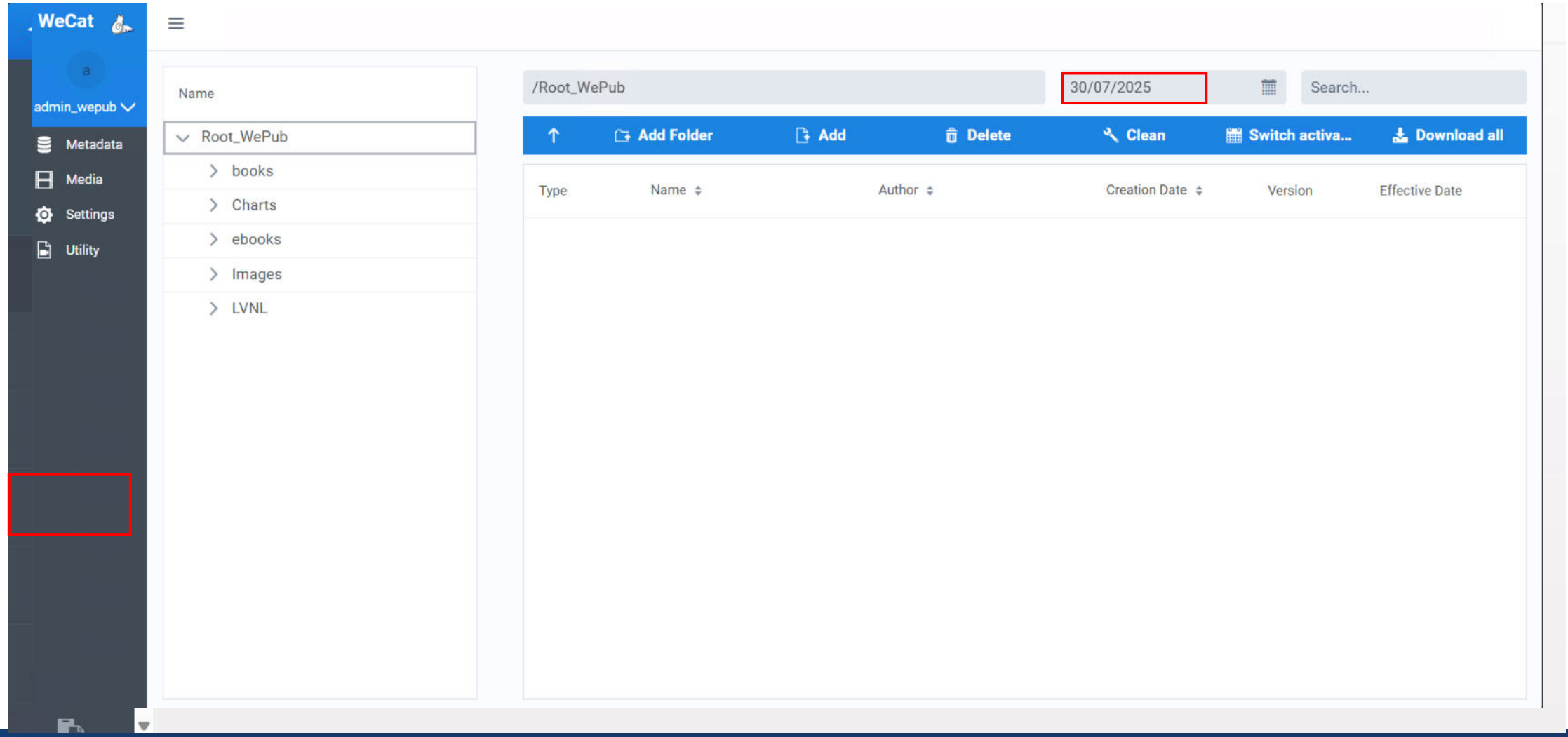
- Approve/Reject generated output;
- Archive the publication.

WePub repository: temporality management

WePub repository: temporality management

The “Media” tab on WePub is the direct access to WeCatalog. It is the application for entering the repository.

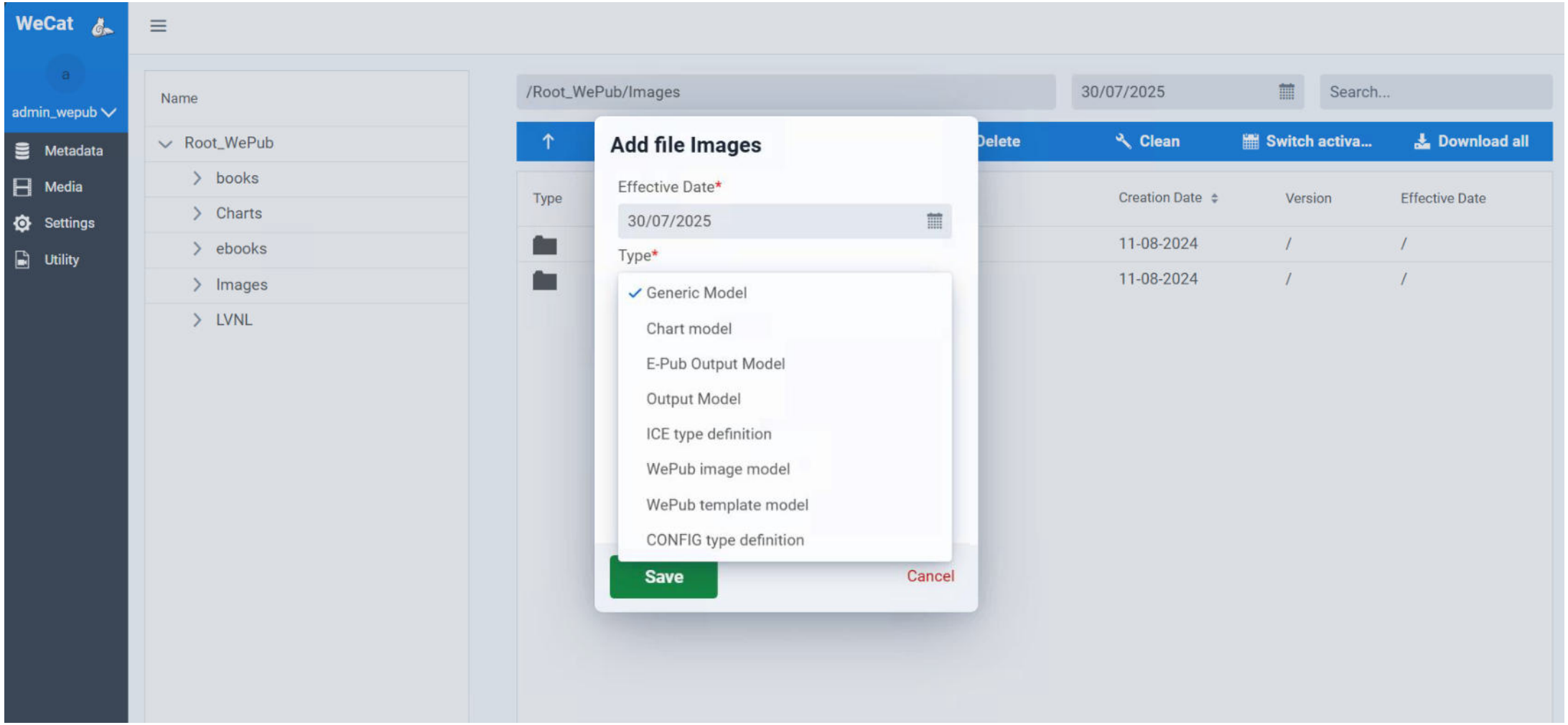
Whenever inserting a file into the repository, it must be associated to an effective date:



WePub repository: temporality management

It's possible to:

- add folders and files to the repository;
- set or unset any file as inactive, by keeping it stored.
- Download all files present in the folder;



Exercises

- Create a folder in “Media”, or “WeCat” with your names, under “Training” folder.

- Under your personal folder, create a new folder for uploading pictures.
  - Choose carefully a past effective date for which uploading your images;
  - Upload on the repository any image as you like. These images will be utilized in your amendments.
  - Change the effective date to any date before the effective date of your images for checking that they are not displayed (since they’re in the future)

- Under your personal folder, create a new folder for uploading of PDF documents/Charts.
  - Choose carefully a past effective date for which uploading your documents;
  - Upload on the repository any PDF document as you like. These documents will be utilized in your amendments.

- Change the perspective of media visualization for viewing different page layouts;

- Double click on any of the files you uploaded for checking the information, versions and metadata.

Any Questions

THANKS FOR YOUR ATTENTION