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Open Source Software as tool for Improving Cultural Preservation.

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What is open source software?

- Open source software is software with source code that anyone can inspect, modify, and share.
Other types of software?

- Some software has source code that only the person, team, or organization who created it—and maintains exclusive control over it—can modify.

- People call this kind of software "proprietary" or "closed source" software
CONSERVA

- A word that comes from conservation.

- Conservation: conservation-restoration of cultural heritage, protection and restoration of cultural heritage, including works of art and architecture, as well as archaeological and historical artifacts.
CASE OF CONSERVA

- CONSERVA, a standards-based, open-source application which allows institutions in DRCongo to preserve long-term access to trustworthy, authentic and reliable 3D digital content.
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Standards-based

- It’s an integrated suite of open-source software tools that allows users to process 3D digital objects from ingest to access in compliance with the ISO-OAIS functional model.

- Users monitor and control ingest and preservation micro services via a web-based dashboard.
- CONSERVA uses METS, PREMIS, Dublin Core, the Library of Congress BagIt specification and other recognized standards to generate trustworthy, authentic, reliable and system-independent Archival Information Packages (AIPs) for storage in the preferred repository.
CONSERVA provides several decision points that give the user control over choices about format identification tools, printing the original order of the directories ingested, examining contents for private and personal information, extracting contents of packages and forensic images, transcribing content, and more.
CUSTOMIZABLE

- Users may also preconfigure most of these options for seamless ingest to archival storage and access.

- CONSERVA offers many ingest workflows: metadata and submission documentation import, zipped and unzipped Bag ingest, digital forensic image processing, SIP arrangement, manual normalization, and dataset management.
Integrated with third-party systems

- Several institutions have dedicated voluminous resources over the past couple of decades to implement various software platforms to manage 3D digital objects.

- For this reason, we believe in leveraging the strength of other tools and integrating with them wherever possible.
Compatible with hundreds of formats

- In the Format Policy Registry (FPR), CONSERVA implements its default format policies based on an analysis of the significant characteristics of file formats.

- The FPR also offers an editable, flexible framework for format identification, package extraction, transcription and normalization for preservation and access.
Advanced Storage Management

- User can manage the storage and processing locations using the CONSERVA Storage Service, including a two-step deletion process that requires justification and approval to eliminate a stored AIP.
Benefits of Open Source Software in 3D Data preservation.

- Lower costs (e.g. Benefit for developing countries with limited resources).

- Great accessibility

- Better prospects for long-term Preservation
Thank you for your attention

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