

Smart Digital Archive System (ADAS)

The Smart Digital Archive System (ADAS) is an AI-powered platform that manages organizations' digital content lifecycle end to end. Thanks to its open and scalable architecture, it automatically analyzes, interprets, and centrally manages different content types such as documents, photos, audio, and video. While supporting collaborative workflows, it adopts data integrity, accessibility, and full traceability as core design principles.

Challenges of Classical Archive Software

Manual processes in traditional archiving methods cause time loss, errors, and coordination gaps. Thanks to rich metadata generated through AI-powered indexing, speech-to-text (STT), OCR, and object/face recognition, ADAS enables the information you need to be found within seconds. It brings scattered data together on a centralized, web-based platform while offering seamless integration with enterprise systems such as ERP and EDMS. By protecting digitized content with encrypted infrastructure and advanced authorization mechanisms, it strengthens data security and traceability.

- ⚠️ What Problems Does It Solve?
- Physical archive clutter, scattered storage, and inadequate archive tools
 - Search issues, extra software requirements, and slow workflows
 - Inability to interpret content and lack of fast access to accurate data
 - Unauthorized Access, event-tracking issues, and lack of traceability

Core Principles



Data Security
Fund, layer, file, and user based authorization and tracking



Speed
Access to information within seconds through AI-powered analysis and advanced search technologies



Continuity
24/7 uninterrupted access



Flexibility
Securely managing different content types on one platform

How Does ADAS Work?

ADAS manages corporate digital content on a centralized, secure platform. Through AI-powered OCR, photo captioning, object and face recognition, and speech-to-text (STT) technologies, it interprets content, generates rich metadata, and provides fast access to information independent of time and place.

Technical Specifications

- 📁 Broad File Format Support

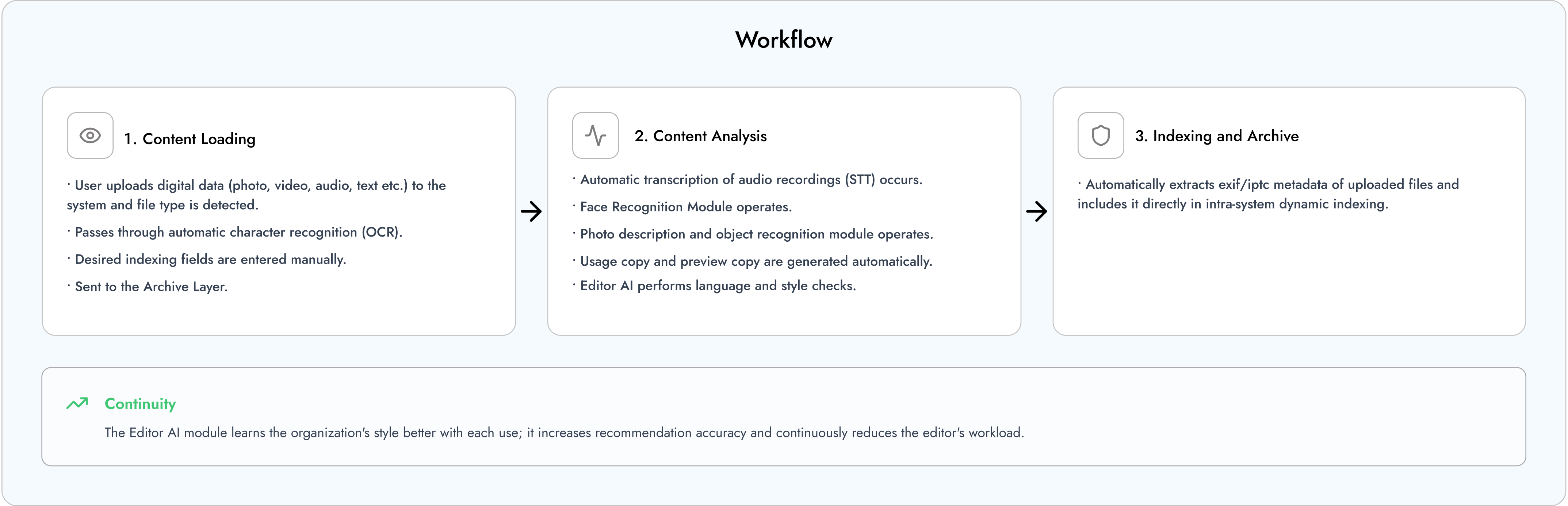
 - Visuals (TIFF, RAW, JPG, PNG, SVG)
 - Video (MP4, MOV, AVI, WMV)
 - Audio (MP3, WAV, M4A)
 - Documents (PDF, DOC, XLS, MSG)
- 📁 Data Interpretation and Search

 - Document Uploading
 - OCR Initiation
 - Advanced Filtering (Format, Date, Fund, User-Based Breakdown)
 - Automatic IPTC indexing (Enriched search from image metadata)
- 📁 Compliance, Integration and Hybrid Storage

 - Open-Source Based Modern Architecture
 - Full Integration with Existing Corporate Infrastructure
 - Open Integration Layer for Every System
 - Hybrid Storage (NFS or S3 Support, Fund-Based Storage Management)
- 📁 Security, Integrity and Traceability

 - Broad Authorization (Fund and layer-based authorization)
 - Different Security Level Competence (File-Based Security)
 - Full Auditability and Trail Tracking (File and person-based event tracking)
 - Zero Tolerance Against Data Loss (Working copy in files and indefinite trash bin)
- 📁 Powerful Usage Scenarios

 - Automatic File Archiving
 - Collection & Portfolio Management
 - Task and Workflow Management



Advantages



Broad Format Support and Native Viewing
It plays and displays numerous formats such as TIFF, RAW, MP4, MOV, WAV, and PDF directly over the web with a 100% browser-based architecture, without requiring an additional application.



End-to-End Artificial Intelligence Services
It provides an autonomous smart archive experience not just by storing data, but by offering end-to-end AI services on a single platform, such as flexible OCR engines, object recognition for photos, visual description, speaker-separating STT, and face recognition.



Hybrid Storage and Smart Migration
It can keep data in NFS or S3 systems according to funds (collections) determined by the institution. It can perform automatic data migration between environments without access interruption using system administrator rules.



Threat Intelligence
Up-to-date IOC, malicious IP, and security intelligence data are actively utilized during threat analysis processes.

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AA Teknoloji is an AI-powered media technologies platform developed for modern newsrooms. Our integrated solutions, ranging from news workflow systems to digital archive solutions, real-time broadcasting infrastructure to multi-channel content management, accelerate the digital transformation processes of media organizations and offer scalable broadcasting operations.

For more information, visit aateknoloji.tr or follow the [@aateknoloji](#) LinkedIn account.