“Knowvation™ helps us manage over 800,000 historic Wyoming newspaper pages that PTFS converted to digital format for us. This includes over 340 historic newspaper titles dating back to 1849. Knowvation’s easy-to-use system has given historians, genealogists, students and other scholars access to more history than they ever could have imagined.”

– Jamie Markus, Interim State Librarian, Wyoming State Library

Knowvation allows organizations to store, search, retrieve, browse and manage a diverse set of digital objects within one easy to use system. This enterprise content management system (CMS) is web-based, file type agnostic and provides full-text search and retrieval. From consolidating storage resources to enabling agile collaboration, Knowvation gets mission-critical information where it needs to go in a fraction of the time.
Knowvation at a Glance

Overview
Knowvation is an enterprise CMS that provides sophisticated and user-friendly search capabilities. It allows for accurate searches, retrieval and management of any digital object by searching full text, metadata fields, or a combination of both. Supported born digital and digitized media types include documents, books, newspapers, photographs, video, audio and other electronically published material. PTFS can help businesses manage the complexities of their corporate information by combining Knowvation with experienced staff to organize content in the most accessible and secure format possible. PTFS also offers Knowvation extension products to help meet more specific customer needs.

How Knowvation Works
Knowvation is a web-based commercial-off-the-shelf (COTS) solution that can be accessed through any Web browser. It is simple to install and easy to configure, making set up very straightforward in existing complex IT environments. Knowvation has GUIs to make loading data onto the system quick and easy. The system supports file ingestions or remote index-in-place. A digital object catalog is built irrespective of where data is stored. Users can search with the following methods: Pattern (fuzzy logic), Concept (natural language) and Boolean (standard search). Search methods can be used on full-text in digital documents, in key metadata fields, or a combination of both full-text and metadata.

Further Knowvation features include:

Powerful Search Options
- Powerful and effective search tools are provided for words, concepts, and phrases
- Four search mode options: pattern (fuzzy text), concept, Boolean and exact match
- Efficient method to limit full text search using metadata
- Integrated search/browse or browse/search bidirectional filter
- Web-based modules are Section 508-compliant

OCR on Ingest
- Images are OCRed upon ingest
- Scanned PDFs are indexed, allowing text inside files to be queried
- Works with scanned images and photos captured with a mobile device

Technical Requirements
- Application Servers—JBoss
- Browsers—Internet Explorer 10 and later, Mozilla Firefox 24.0 and later, Google Chrome 22 and later

Metadata Editor
- Metadata records associated with each document can be enhanced by adding further detail and applicable information via a user-friendly GUI

Records Management
- Built in version control capability
- Stores versions of both digital objects and metadata when modifications are performed

Foreign Language Support
- Supports multiple foreign languages
- Supports cross lingual search (the ability to search in one language while retrieving the results in another)

Security
- Integrated with Active Directory to create groups with different levels of access
- Index Level Security: access control to full index of data supports multilevel network security
- Document Level Security: record level security supporting the “need-to-know” down to an individual digital object

Tools and Functionality

Unique features and benefits of Knowvation include:
- Administrator tools—Administration of Knowvation is simple with a web-based user interface to manage system functionality, including system settings, fields, indexing, reporting and import and export of content.
- Scalability—Knowvation has fast response time over local and wide area networks and a distributed system configuration. System architecture provides consistent performance regardless of the volume of data or concurrent usage.
- Open system architecture—Knowvation uses J2EE and provides an open system architecture that allows for integration with workflow, ERP systems and legacy customer solutions.
- Analytics, analysis and reporting—Knowvation integrates a variety of third party tools for analysis and reporting of managed data. RESTful services provide a platform for organizations to understand, manage and interrogate unstructured data.

Technical Requirements
- Application Servers—JBoss
- Browsers—Internet Explorer 10 and later, Mozilla Firefox 24.0 and later, Google Chrome 22 and later

Audits and Reports
- Standard and customizable audit reports provide detailed information on numerous metrics
- Reports can be created or modified to support additional information as needed

Further Knowvation features include:
- Powerful Full Text Search Options
- Metadata Editor with Global Editing
- Records Management Version Control
Knowvation provides sophisticated, user-friendly search and retrieval capabilities. PTFS also offers three Knowvation extension products designed to cater to more specific content management needs: Knowvation GS™, Knowvation DX™ and Knowvation IX™.

Knowvation Core
Knowvation GS is a geospatial content management system (GeoCMS) with the ability to combine text search with geospatial search by integrating base map and exploitation applications.

Knowvation DX is a document declassification CMS that is focused on declassification automation and accurate redaction using a semi-automated approach.

Knowvation IX is an information extension product that integrates CMS capabilities to manage unstructured text with structured Enterprise Resource Planning (ERP) systems.

**Summary of Knowvation capabilities**
- Commercial off-the-shelf (COTS) software
- Supports over 200 different types of formats
- Powerful search engine for accurate discovery
- Supports multiple foreign languages
- Access and privilege secured
- Standard and customizable report functions
- Industry standards based architecture
- Scalable and flexible platform
- Advanced metadata authoring tools
- Section 508 compliant

Knowvation GS™ geospatial intelligence

Knowvation GS is a geospatial content management system (GeoCMS) with the ability to combine text search with geospatial search by integrating base map and exploitation applications.

Knowvation DX™ redacting intelligence

Knowvation DX is a document declassification CMS that is focused on declassification automation and accurate redaction using a semi-automated approach.

Knowvation IX™ integrating intelligence

Knowvation IX is an information extension product that integrates CMS capabilities to manage unstructured text with structured Enterprise Resource Planning (ERP) systems.

About PTFS
With more than 500 partnerships and installations for clients internationally, PTFS offers customized and proven content management solutions. Our core products include Knowvation™, Bibliovation™ and Droneware™. To help organizations focus on their core missions, we also offer highly technical teams that streamline the process to implement and maintain custom solutions that best meet their needs.

Get the Power.