Knowvation®

illuminating intelligence

Knowvation enterprise Content Services Platform (CSP) provides a robust content management strategy coupled with technology that allows organizations to find — and use — their data regardless of source repository or location. Knowvation uses "federating" technology to automatically discover stored data, and subsequently build a federated index in near real time. This enables a "one search finds all" capability, and lays the groundwork for data discovery and more efficient management of all the organization's information. Knowvation gets mission-critical information where it needs to go in a fraction of the time.

PTFS

Empowering Content

Knowvation CSP at a Glance

How Knowvation Works

The Knowvation CSP combines a robust content management capability with technology allowing organizations to find and use their data regardless of its source repository and location. This allows organizations to manage their data in different ways using the same system. An information management strategy can be supported that allows groups to manage their data the way they have done for years, while others can migrate data to a centralized repository. The key is "federating" technology which provides for discovery of all of an organization's data that may be stored locally, or in many places or across geographically dispersed repositories.

The Knowvation CSP provides a federated search capability to search multiple data sources simultaneously. Using index-in-place technology combined with data ingestion provides a "one search finds all" data discovery capability while at the same time protecting data thereby facilitating records management operations. While federated indexing allows users to find all data, the data must be searchable. Knowvation provides tools to help make non-searchable data (images and PDF files) searchable. Tools include Optical Character Recognition (OCR) for OCR'ing data on ingest and auto-geotagging tools that extract geospatial information from unstructured text.
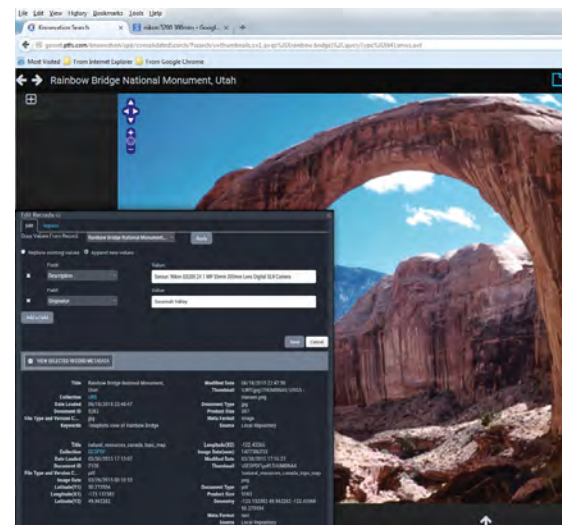
Knowvation   Tools and Functionality

Unique features and benefits of Knowvation include:

- **Administrator tools**—Administration of Knowvation is simple with a 100% web-based user interface to manage system functionality, including system settings, fields, labels, indexing, reporting and import/export of content.

- **Scalability**—Knowvation has fast response time over local and wide area networks and a distributed system configuration. System architecture scales to support consistent performance regardless of the volume of data or concurrent usage.

- **Open system architecture**—The Knowvation CSP is based on J2EE, a platform-independent, Java-centric environment providing an open architecture that supports RESTful services allowing for easy integration with workflow, ERP systems and legacy customer solutions.

- **Analytics, analysis and reporting**— Knowvation CSP is a platform that collects and manages structured and unstructured data to support integration with third party tools for analysis and reporting.

Powerful Full Text Search Options

Metadata Editor with Global Editing

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
- Pinpoint information sought in unstructured data sets by limiting full text search using metadata
- Search facets provide users a method for quickly understanding properties about documents in the current result set. After a search, a list of facets is created and listed on the search GUI

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

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

Metadata Editing
- Metadata records associated with each document can be enhanced with applicable information via a user-friendly GUI. Knowvation supports multiple metadata schemas, so groups within an organization can use a data model that best suits their mission.

Records Management
- Built in version control capability
- Stores versions of both digital objects and metadata when modifications are performed
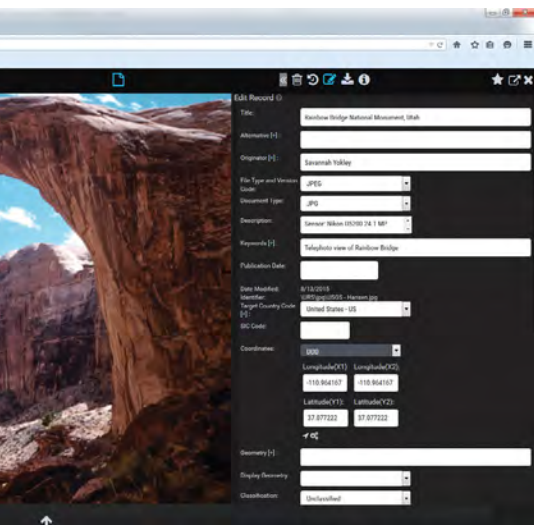
Foreign Language Support
- Supports multiple foreign languages
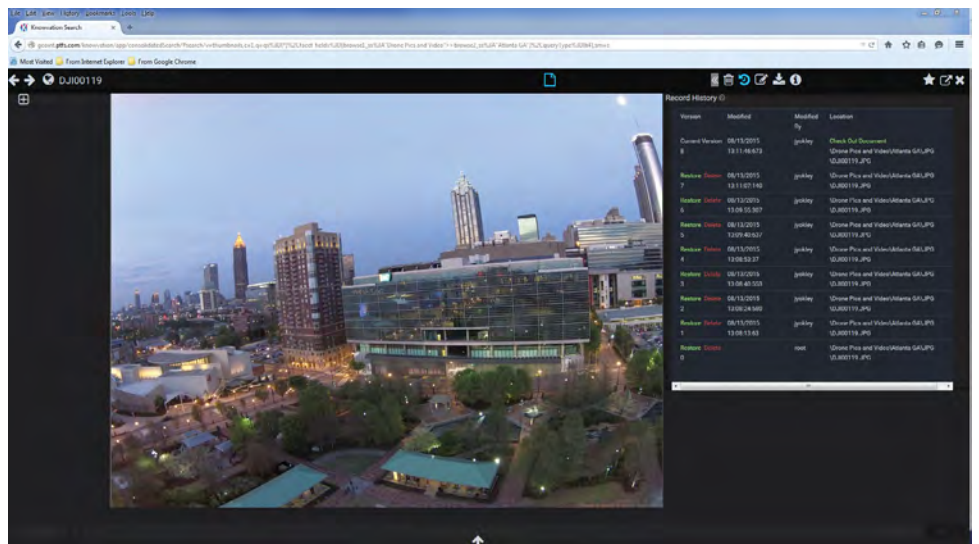- Supports cross lingual search

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

Technical Requirements
- Application Servers—JBoss
- Browsers—Internet Explorer 11 and later, Mozilla Firefox 50.0 and later, Google Chrome 48 and later
- Databases -- MS SQL Server 2012 R2, MS SQL Server Express 2012 R2, MS SQL Server 2016 R2, MS SQL Server Express 2008 R2 (packaged w/installation)
- Server Operating Systems -- Windows Server 2012 Standard, Windows Server 2012 R2 Enterprise Edition, Windows Server 2016 Standard, Window Server 2016 R2 Enterprise Edition

Metadata Editor with Global Editing

Records Management Version Control

Knowvation®

Knowvation CSP

Knowvation CSP provides core content services capabilities, including content management, research and discovery and document conversion/creation. PTFS offers three Knowvation CSP extension products designed to cater to more specific vertical market needs: Knowvation GS™ , Knowvation DX™ and Knowvation RM™.
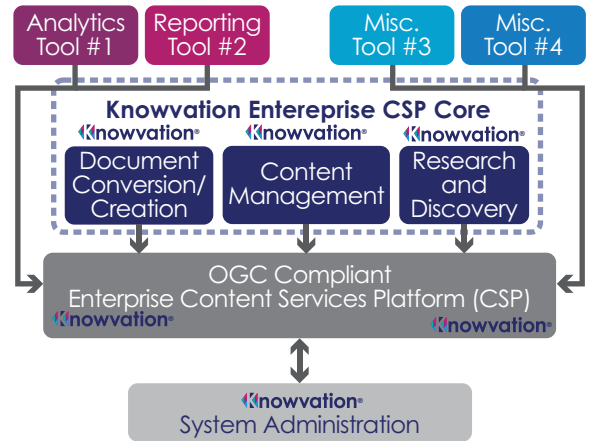
Knowvation GS™ *geospatial intelligence*

Knowvation GS is an enterprise geospatial content services platform (eGeoCSP) that can to combine text search with geospatial search by integrating base map and exploitation applications.

Knowvation DX™ *redacting intelligence*

Knowvation DX is a document declassification system that provides declassification automation and accurate redaction using a semi-automated approach.

Knowvation RM™ *preserving intelligence*

Knowvation RM is an information extension product that provides a solution for organizing and managing permanent records.
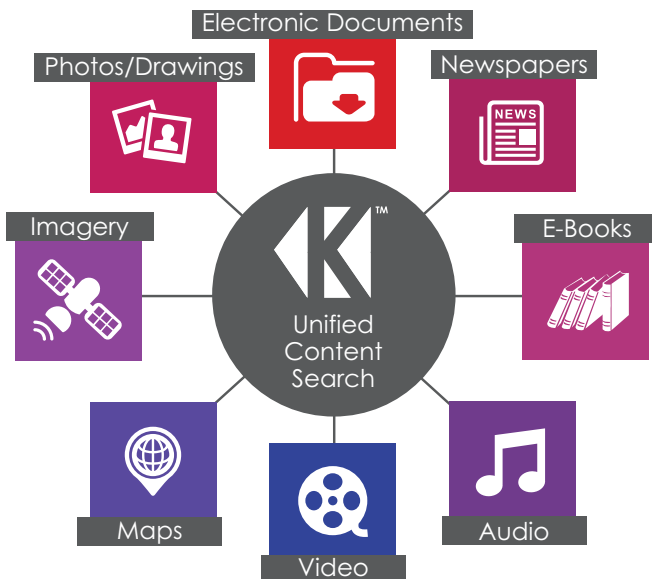
Analytics Tool #1	Reporting Tool #2		Misc. Tool #3	Misc. Tool #4

Knowvation Entereprise CSP Core

Document Conversion/ Creation	Content Management	Research and Discovery

OGC Compliant
Enterprise Content Services Platform (CSP)

Knowvation
System Administration

Summary of Knowvation CSP capabilities

- Commercial off-the-shelf (COTS) software
- Supports hundreds of different file 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
- Designed for cloud or on premise hosting

About PTFS

With over twenty years of experience, PTFS offers customized and proven content management solutions. Our core products include Knowvation® and Bibliovation™. To help organizations focus on their missions, PTFS offers highly technical teams that streamline the process to implement and maintain custom solutions that best meet their needs.

Get the Power.

Electronic Documents
Photos/Drawings
Newspapers
Imagery
E-Books
Unified Content Search
Maps
Video
Audio

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