How do you turn millions of pages of unstructured medical and billing records into meaningful information?

NCI SmartDoc® leverages the power of Artificial Intelligence (AI) to augment human capabilities and dramatically reduce costs and timelines for medical record review. Our intelligent document capture system is already used by the Centers for Medicare and Medicaid Services (CMS) and other organizations to:

- **Reduce**
  Reduce operating costs through automation of document capture, classification, processing and management

- **Improve**
  Improve detection of errors, fraud, waste and abuse in medical billing records

- **Strengthen**
  Strengthen compliance control through enforced records retention and redundancy

- **Identify**
  Identify trends and anomalies in data to drive process improvement and organizational decision making
Enhanced Document Review and Error Detection

NCI SmartDoc® allows agencies to automate paper-driven processes by digitally capturing patient health and financial information and extracting the information human reviewers need. It helps organizations streamline processes and make the most of limited human resources by automating the most time-consuming and arduous portions of the review process. NCI SmartDoc® is:

- Capable of capturing and processing millions of pages and turning large volumes of data into actionable information.
- Able to handle all document types, from structured to unstructured.
- Able to store and archive millions of pages of protected health information (PHI) securely and efficiently.
- Fully integrated with NCI SmartView®, a full-featured medical record viewer with bookmarking, annotation and keyword search capabilities.
- Easy to integrate with existing business systems and workflows.
- Configurable to support custom medical records processing needs and scalable to support future needs.
- A fully secure solution, as verified by multiple successful security control audits.

NCI’s SmartDoc® has successfully processed more than 20 million pages of medical records for the Centers for Medicare and Medicaid Services (CMS).
How It Works

NCI SmartDoc® employs a document management workflow that consists of Capture, Transformation (Classification, Data Extraction, Validation) and Delivery. Once documents are uploaded, the system automatically classifies them and extracts the information human reviewers need to complete medical record review. This saves countless hours of manual document sorting, processing and searching, so reviewers can focus on the most important parts of their jobs. SmartDoc® uses Machine Learning (ML) to learn from experience as it works with complex document sets, so it continues to get better and better over time.

**Capture**
- Millions of pages of records are captured from paper, fax, email and electronic file sources.
- All documents are converted into electronic data through high-speed scanners.
- Images are quality checked and cleaned to speed processing and reduce the need for manual intervention.
- Pages are securely stored and archived for records retention and compliance.

**Transform (Classification, Data Extraction, Validation)**
- Automated classification technology can recognize and classify up to 50 different medical record document types without manual separation, barcodes or separator sheets.
- Optical Character Recognition (OCR) technology and content-based analysis enables identification of complex and varied document types and efficient extraction of information from structured and unstructured documents.
- Medical records are automatically categorized and organized for efficient human review, so they have easy access to the documents they need the most (e.g. nurses notes, lab reports, or discharge summaries).
- SmartDoc® extracts data from key fields such as date of service, claim number, beneficiary name and provider ID to streamline the review process and improve accuracy.
- OCR keyword search makes it easy for reviewers to dig deeper into the data and find specific information in complex files.

**Deliver**
- The Application Programming Interface (API) enables seamless integration with enterprise business systems—such as case management and analytics applications—for data transfer and workflow management.
- Fully integrated with NCI SmartView®, a full-featured medical record viewer with bookmarking, document navigation, annotation and keyword search capabilities.
- Secure email and file transfer support collaboration without compromising record privacy.
About NCI

NCI is a leading provider of enterprise solutions and services to U.S. defense, intelligence, health and civilian government agencies. NCI’s AI solution, Shai™, scales humans with artificial intelligence by empowering the workforce to meet their mission by using best in class AI solutions coupled with our exceptional service offerings.

- Advanced analytics
- Agile DevSecOps
- Artificial intelligence
- Cybersecurity and information assurance
- Engineering and logistics
- Health IT
- Hyperconverged infrastructure

Coupled with a refined focus on strategic partnerships, NCI is committed to bringing commercial innovation to missions of national importance.

NCI is a mid-tier systems integrator headquartered in Reston, VA, and operates at locations across the globe. For more information, visit www.nciinc.com or email contactnci@nciinc.com.