

IDA – INTELLIGENT DOCUMENT ANALYSIS

Our deep learning character recognition has revolutionized how we gain insights from documents.

Digital document archives are growing exponentially, driving increased demand for solutions that enable business process managers, researchers and marketers, to quickly analyze and mine the accumulated data for business intelligence. As the demand for valuable analytics grows, many organizations are considering text recognition — searching within handwritten and machine printed documents — to quickly and effectively capture the value stashed away in their archives.

With an apparent need for searching within document collections, the handling of huge amounts of data in digital document archives or incoming mail/documents requires all these to be:

- converted into a standardized electronic format (e.g. PDF)
- sorted by specific destinations
- pre-classified by categories and urgency
- pre-analyzed regarding specifics content.

Ideally, all the documents in the electronic archive are scanned in order to understand the requirements of various departments. Once relevant keywords are found, these can be sliced and diced to reveal valuable insights for improving intelligence, business performance, operations, marketing and sales, and more.

This is where Planet's Intelligent Document Analysis or better known as IDA comes to play.

**AUTOMATIC SEARCHING
WITHIN DOCUMENTS**

HIGHLY COST EFFECTIVE

**FASTER THAN HUMANS:
50.000 PAGES/HOUR ON A
SINGLE 4x GPU SERVER**

**LANGUAGE
INDEPENDENT**

(LATIN CHARACTER SET, E.G.
GERMAN, ENGLISH, ITALIAN ...)

**UNPARALLED
CAPABILITIES OF
MACHINE TRANSCRIPTION &
ANALYTICS**

**WANT TO KNOW MORE?
VISIT US AT:**

www.planet-ai.de
www.planet.de

AND TRY IT OUT!

www.planet-ai.de/ida



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IDA is a document processing platform built for businesses that need the flexibility and capability of an easy-to-use solution.

IDA is based on *PerceptionMatrix and supports high-volume complex document processing needs while delivering flexibility for processing rules and workflows.**

The API easily integrates into existing client applications providing unprecedented control over document/form processing, document classification, extraction, search and retrieval. The new and unique *PerceptionMatrix** technology, that can be used for printed and cursive text recognition, makes it possible to transform all types of documents into searchable and electronic formats.

IDA can convert heterogenous input data (e.g. images, PDF, handwritten, machine printed) into an electronic standard format (e.g. PDF, JSON) in a fully automatic process. The extensive use of the latest state of the art and multiple award winning Artificial Intelligence for text recognition and document understanding in combination with GPU based supercomputing enables an unrivaled accuracy and speed.

IDA is able to process more than 50.000 pages** per hour on a single 4xGPU server (e.g. IBM's Power AI) by supporting a full scalability towards even larger solutions. IDA supports local as well as server or even cloud-based solutions on standard hardware but is also perfect for reducing hardware and maintenance costs by utilizing optimized and dedicated hardware for high performance computing in large scale applications.

*Pending Patent

** Run across a cross section of documents (single images, multi tiff, pdfs)



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**CREATION OF A
MACHINABLE
PDF-TEXTLAYER**
(CONTAINS COPYABLE
TRANSCRIPTION)

**BASIS FOR
BIG DATA ANALYSIS**

**HIT RATE:
97% IN FLOWING
HANDWRITING**

**BASED ON
PerceptionMatrix
& AWARD-WINNING
*ArgusSearch***

**DEEP SELF-LEARNING
AI TECHNOLOGY**

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Users gain complete processing control over document recognition settings and results and can even process a mix of printed and cursive handwriting using the same engine, with just one call.

IDA allows users to access more data, extract more actionable intelligence with high accuracy results, and to produce profitable returns from an expedited analysis

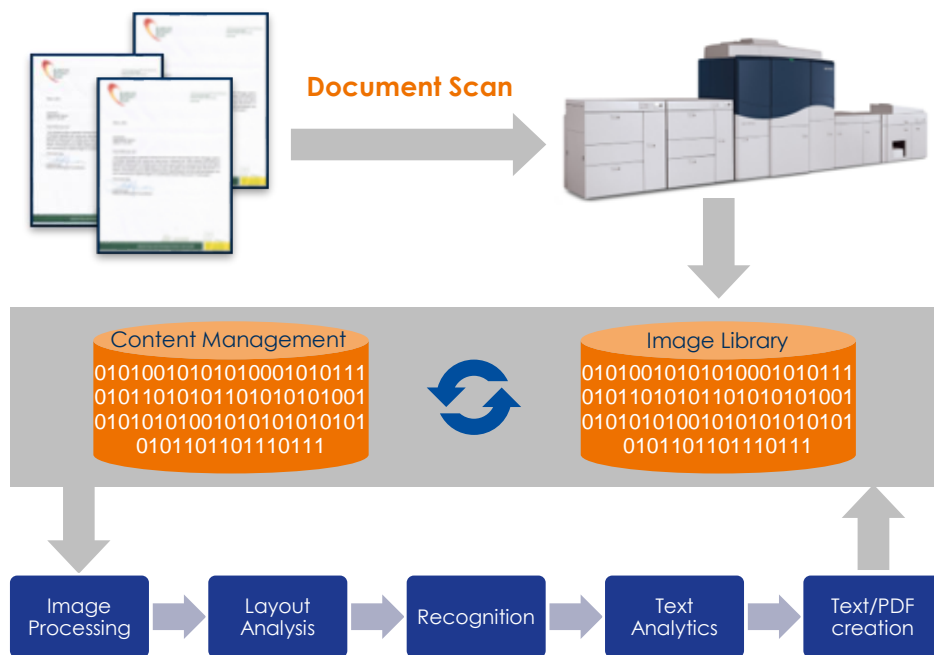
The IDA-Solution can be tailored to the exact specifications of your infrastructure – to craft a solution that aligns neatly with your business objectives.

The IDA Solution – General Workflow

Here's an example of my normal handwriting. Notice how letters are connected in a way that has little to do with word length—as in "normal"—1,2,3 letters are grouped.



Here's an example of my normal handwriting. Notice how letters are connected in a way that has little to do with word length



Use Case



Process Automation

1. Mail Automation
2. Invoicing
3. Order Management
4. Supply Chain



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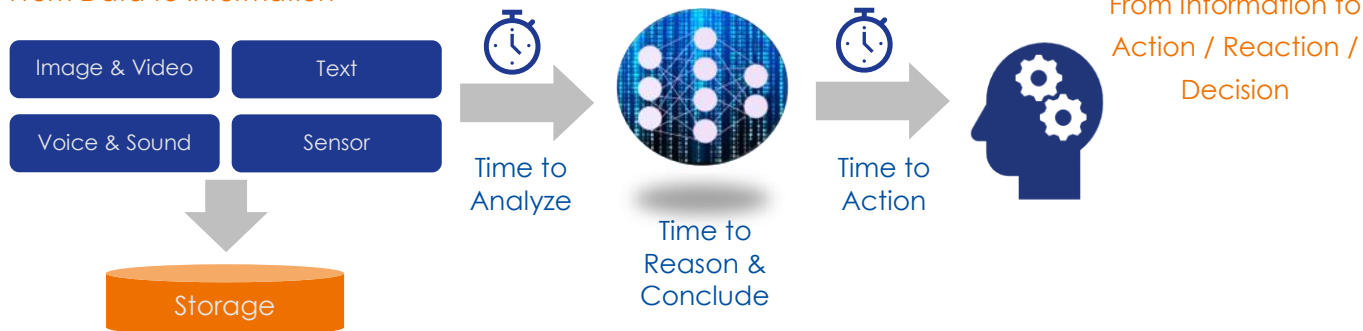
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The **IDA**-Solution helps you to save time! Based on the three phases - from data to information to decision – it cuts workload from the first two phases. Just concentrate on making decisions and use that information you need and searched for.

From Data to Information



The **IDA**-Solution is flexible and open to many areas, but different potential market segments for **key-word spotting (KWS)** each have a different set of expectations and needs.

Banking/ Insurance/ Finance/ Healthcare Market

- Automate the capture and classification of data found in documents such as mortgages, loan applications, handwritten notes, envelopes and more
- Automate manual processes, ensuring information is verified and routed to the correct person/place thus reducing the risk for human error and saving banks FTE expenditures.
- Allow 'search-engine-like' display of information found in medical and handwritten or printed documents. through Planet's leading proprietary ICR technology.

The IDA Solution provides 'quasi' matches for a particular search term based on the equivalence and a particular instance of the term. This allows a much deeper level of penetration of information locked inside a medical document enabling 'search-engine-like' scanning for relevant patient information.

Business intelligence/ Additional Markets

- Using **key-word spotting** to analyze agents' performance, as well as categorize spotted calls according to agent name, type of problem or key word, discussed products or services, etc.
- **KWS** information can be used in analytical CRM applications to gain important business insight for customer scoring, campaign effectiveness surveys, customer satisfaction index and other valuable business information.
- Additional markets that might consider adopting **key-word spotting** are the Telco, finance, insurance, broadcasting and healthcare markets.

In fact, any market that requires analysis of large amounts of documents can be considered a potential market

No more time-consuming, manual transcribing of handwritten documents ... IDA can help you!

Save time to find out what matter. **Use THE innovative solution.**

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