

# CMRPLUS

## **Cognitive Machine Reading Plus**

**The only self-learning product in the world  
that digitises and understands all data types**

# Accelerating the Time to Value

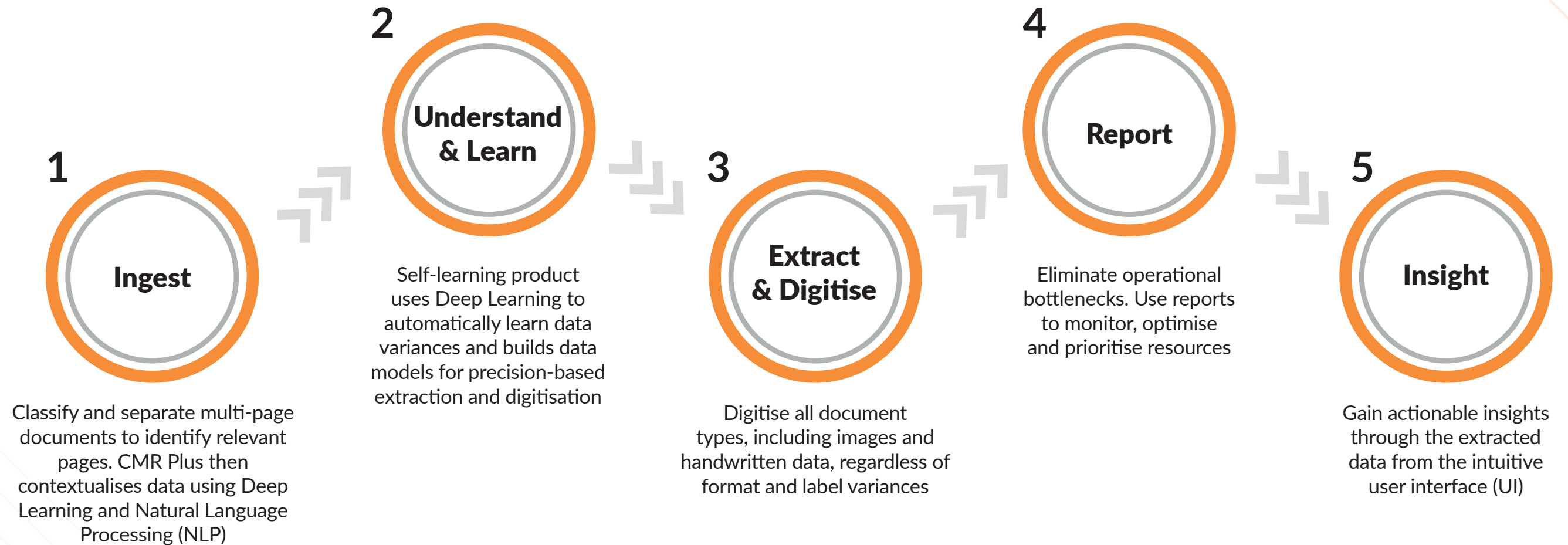
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As organisations embark on their digital transformation journey, they hit one major roadblock – how to solve the unstructured data challenge.

Traditionally, companies use Optical Character Recognition (OCR) to capture and digitise data. The problem is, OCR won't work when you present it with anything other than neat, structured data.

Around 80% of the data in an organisation – including images, web pages, handwritten documents, signatures, and mobile content – is completely unstructured. Digitising these documents is almost impossible since OCR is zone-based and template-dependent.

# Journey From Input To Insight



CMR Plus combines the power of AI technologies such as Deep Learning, Natural Language Processing (NLP), Machine Vision, and Machine Learning (ML) to pre-process, classify, extract, and validate all types of data. Process cheques using signature identification, read legal contracts and cursive handwritten prescription within the same product.

# OCR vs CMR Plus



## OCR

Limited to printed structured data, struggles with handwriting and can't read unstructured documents, or documents with template variations

Requires constant intervention for dealing with document variances by creating templates and requiring zones

Uses neural-based ML which requires large amounts of data to train

OCR tools with ML capability can't provide visibility of how the training data arrived at a particular conclusion and why it gives a particular response to a set of data inputs. This lack of transparency requires additional manual oversight, leading to longer processing cycles

Requires supervised training; customers must review every single document for corrections and manually add to the knowledgebase

OCR uses sequential and linear character matching which captures all the characters (including data that's out-of-scope) which slow the speed of processing



## CMR Plus

Best-in-class machine vision-based digitisation product for unstructured data including handwriting, cursive, signature and object recognition

Template independent. Its Deep Learning technology recognises and digitises data without constant supervision

Uses proprietary Deep Learning algorithm requiring smaller data sets for higher accuracy yield

Gain complete control over your ML with the highest level of transparency. You can manage what and how CMR Plus is learning, all through the user interface, without touching a single line of code

Replaces supervised learning with automated learning. Just configure and upload training samples, then watch the CMR Plus learn on its own. Significantly reduce implementation time and time to value

Deploy just-in-time pattern recognition reading which look at patterns and not every single character. Speeds content recognition and get only the data you need and nothing else

## CMR Plus Results



Higher capture rate and accuracy



Eliminate endless experimentation, manual intervention, and optimisation cycles



Minimal infrastructure requirements



Higher processing speeds



Greater data accuracy extraction



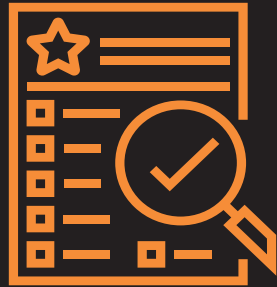
Greater product customisation



Single product for delivering all enterprise data needs



Built for global deployments at scale



## CMR Plus Key Features

### Self-Learning

Deep Learning technology automates training and reduces deployment cycles by up to 400%. Just configure and upload training samples, then watch the CMR Plus learn on its own.

### Enterprise Scale

Scale across business units, divisions and geographies. Microservices architecture ensures speed and reliability at any scale, and with any number of users, making it the perfect solution for large or small enterprises.

### Greater Ease of Use

Web-based architecture and new UI enables greater ease of use and faster software configuration.

### Highest Level of Governance and Controls

Easy configuration of authentication and authorisation with the flexibility to manage users.

### Trusted Security

Native security features, related to both infrastructure and product layers. HIPAA, GDPR, and ISO 27001 certified.

### Easy Integration

Enable tight integration into any system via REST API.

### Process Transparency

Gain complete control over your ML and data with the highest level of transparency. You can manage what and how the platform is learning, all through the new UI.

### AI-Powered Continuous Improvement Accuracy

Constantly improves accuracy via ML ensuring continuous improvement in your operations.

### Flexible Deployment Options

Decide the best deployment scenario for you. Deploy via cloud or on-premise.

### Configurable Business Rules

Administer your business rules at the point of capture to contextualise and apply inference logic to enrich your data sets.

### Single Product for All Your Data Needs

Digitise and process all types of data including handwritten documents (block and cursive), stamps, image recognition, ID's and signatures.

### Multi-Lingual Extraction

Available in multiple languages.

# Business Benefits

- Achieve **faster time-to-value** with **lower processing cost** and **increased employee productivity** by eliminating labour-intensive manual key entry
- **Accelerate learning** by digitising documents at the point of entry. CMR Plus can sit within various enterprise applications for quicker data delivery to drive business value.
- **Enterprise scalability** allows you to easily deploy, distribute and manage global processes across remote locations. The web interface is accessible anywhere and easy to maintain
- **Deliver significant IT savings** –requires less data and lower infrastructure cost by leveraging the most efficient self-learning ML technology
- **Gain greater transparency** – view the quality of data extraction in real-time, and if needed, make adjustments on the fly. From IT, audit and business users, you'll know “what's going on under the hood”. This transparency allows control of your data to **mitigate risk, improve compliance**, while meeting SLAs and managing cost containment.

# CMR Plus Addresses Industry and Functional Needs



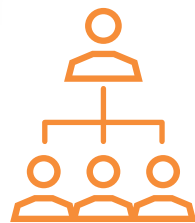
## Banking and Finance

Improve customer satisfaction, liquidity, and streamline financial operations by automating manual paperwork in bank account opening, credit card applications and loan origination.



## Insurance

Automate new account openings, manage risk and accelerate the processing of various benefit forms, policy agreements and provisioning plus claims settlements.



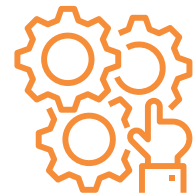
## BPO

Ideal for document processing service providers focussing on single business needs, or Business Process Outsource organisations supporting end-to-end automation. Improve data quality, eliminate manual processes and meet service level agreements.



## Healthcare

Improve patient experience and reduce compliance risk. Increase the efficiency of document processing such as patient records and medical prescription forms.



## Manufacturing

Deliver products to customers faster. Automate time-consuming processes such as accounts payable. Streamline supplier management and digitise the back office to improve order management and inventory control.



## Finance & Accounting

Achieve straight-through-processing of invoices, as CMR Plus classifies and extracts data from all types of invoices, regardless of format and type.



## Legal

Process and manage a wide variety of legal documents including contracts, benefit enrolment forms, application forms, pleadings, correspondence and more.



## Transportation and Logistics

Accelerate transactions and increase the efficiency of document flows. Automatically process bills of lading forms, commercial invoices and delivery receipts. Carry out critical business information and gain visibility into business processes.

# Cognitive Machine Reading (CMR) Plus

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We are passionate about our work because we know the possibilities are endless for AI, as we empower you to overcome today's data challenges. AntWorks clears the data roadblocks and helps organisations navigate into automation success – faster.

CMR Plus is part of our technology suite – ANTstein SQUARE. CMR Plus can be purchased on its own or as part of our Intelligent Automation Platform (IAP).

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