



SOGETI - CDP

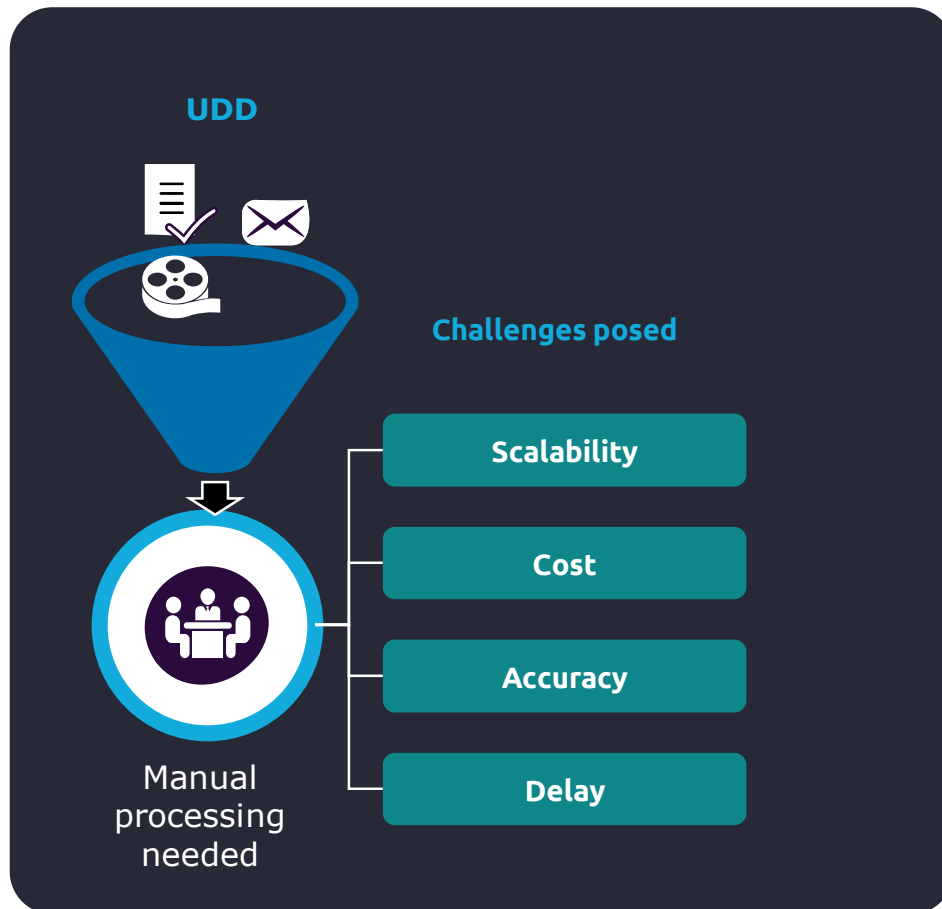
July 2020





WHAT IS CDP

Unstructured Data processing is a challenge



CDP

The Cognitive Document Processing solution can process unstructured data due to its **Cognitive Capabilities** caters to our Clients across Finance, Insurance, Manufacturing, Automobile - applicable to key processes like **KYC, Claims, Lending, Customer Onboarding, Title processing** etc.

Uses Human like Recognition

- Capable of analyzing structured and unstructured Documents
- Identification of the scanned and handwritten text using OCR/ICR

Uses Human like Reasoning

- Key phrase extraction, topic modeling, document Classification Name and extraction using NLP/DL, relationship establishment using graph theory

Learns with human assistance

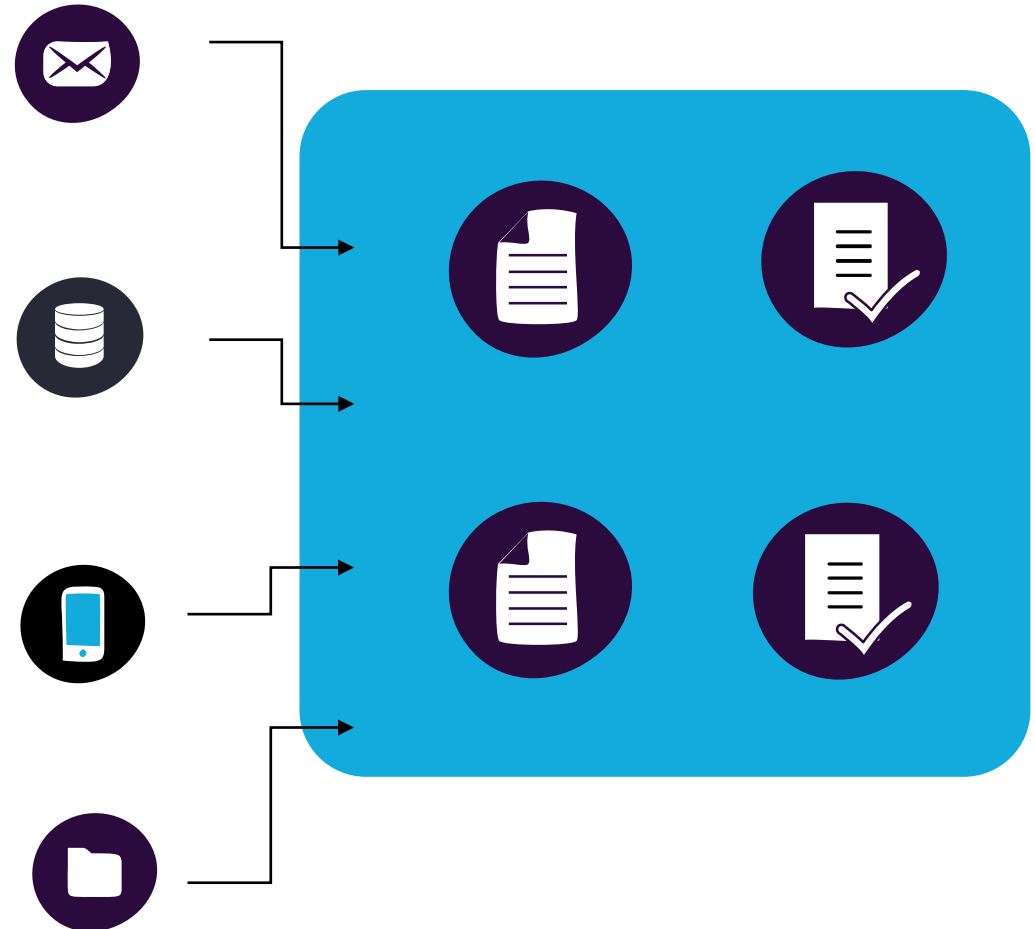
- Continuous learning by feedback loop

SOLUTION FEATURE



DATA INGESTION

With variety of data ingestion integration, CDP is equipped to process documents from various sources



SOLUTION FEATURE



CLASSIFICATION AND CATEGORIZATION

Deep Learning Models to recognize the documents and classify the documents into different categories.



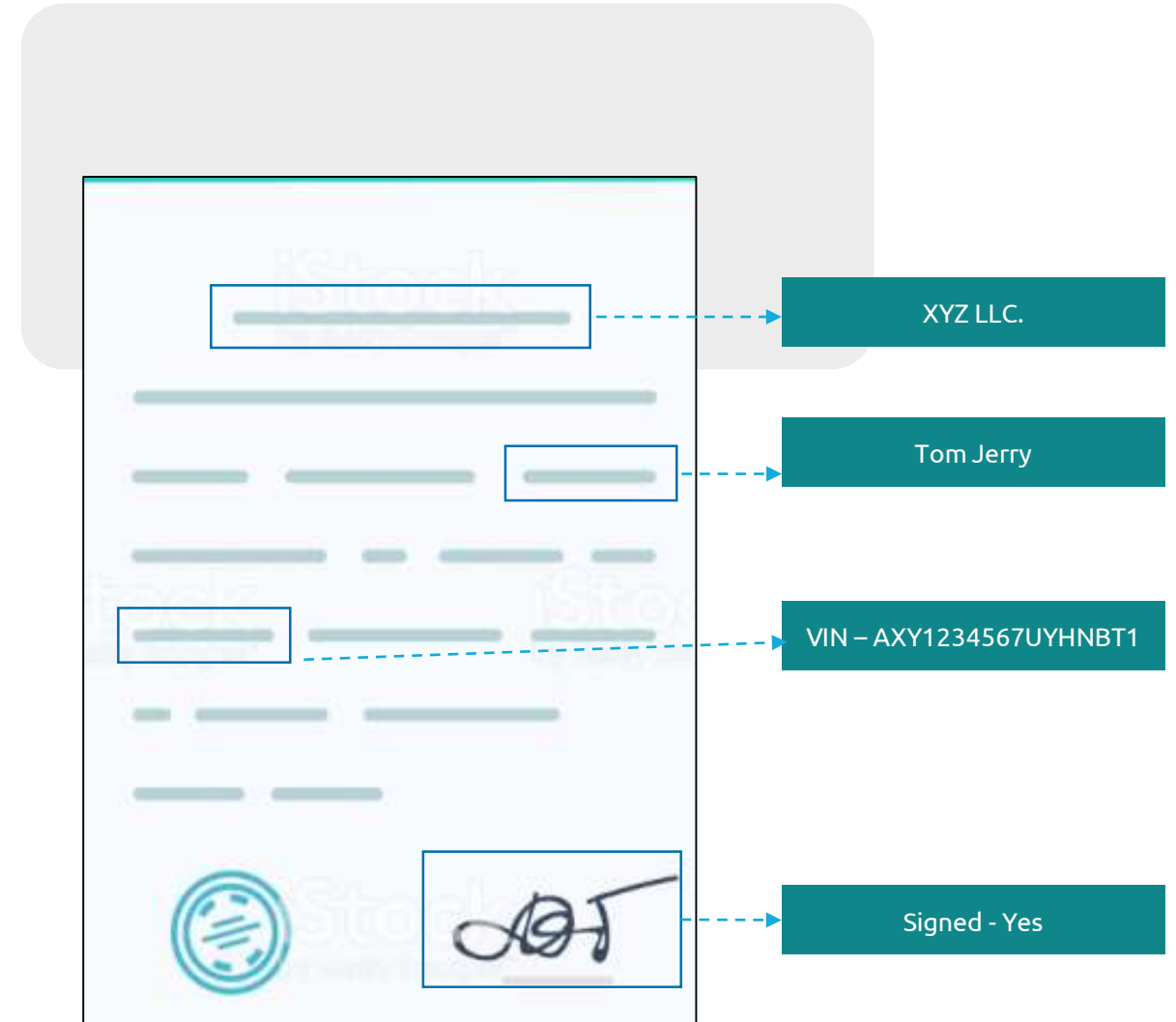
SOLUTION FEATURE



EXTRACTION

Deep Learning Models to extract relevant information from the categorized documents.

- Key Value Field Data
- Handwritten text
- Check box and radio buttons

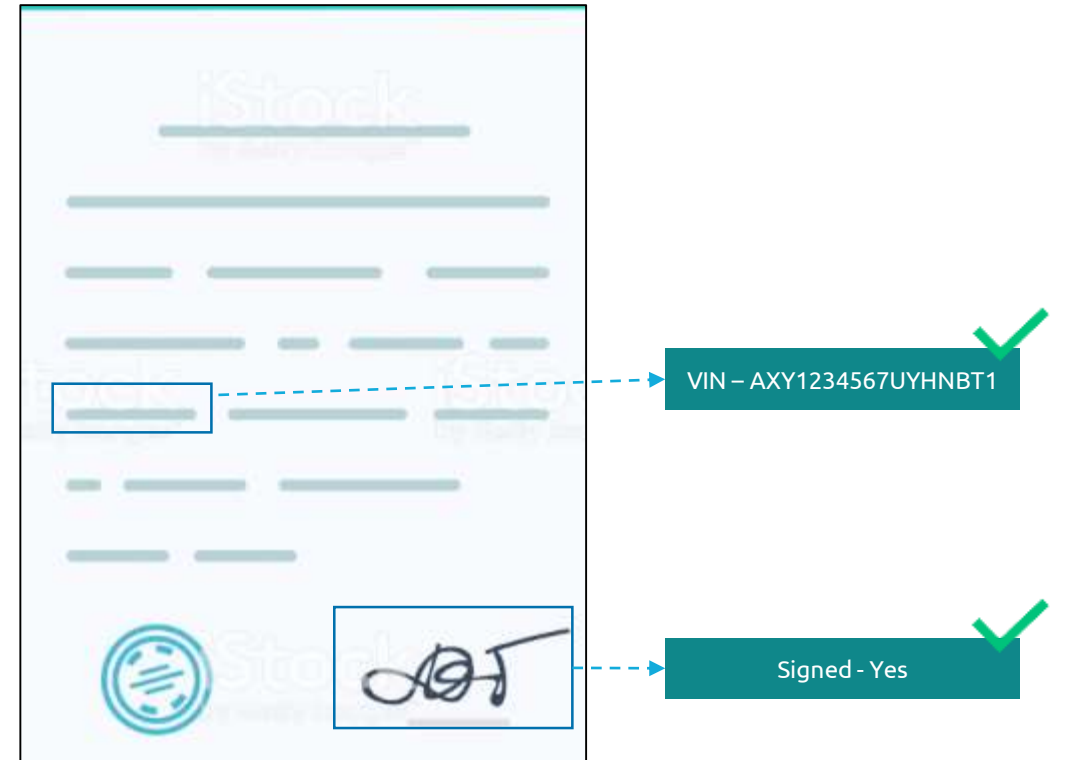


SOLUTION FEATURE



VALIDATION

Automated Validation models ensures accuracy and contextual enrichment

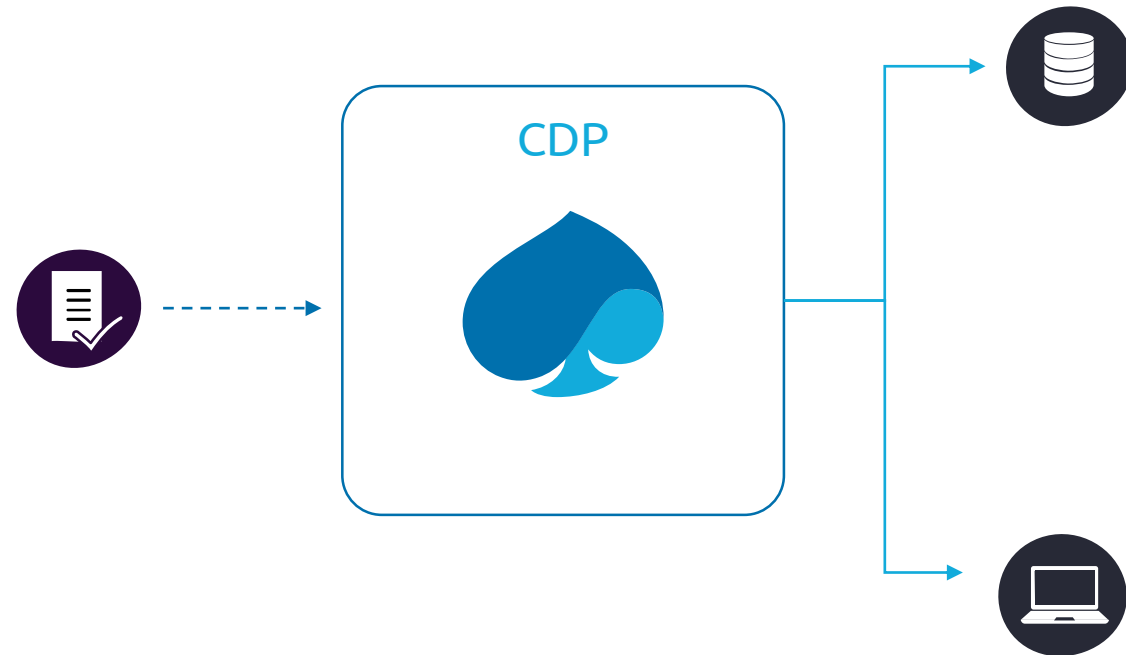


SOLUTION FEATURE



INTEGRATION

API based output that can be integrated with any of the downstream application



EXTENDED CAPABILITIES



**CDP Mobile
Enterprise Mobile
Application**









**Operator Calibration
Control &
Admin Center**



**Deployment
On Premise
Private Cloud
As a Service**



HOW DOES CDP BRING VALUE TO OUR CLIENTS?

-  Reduced Costs
-  "Read" and store handwritten and text images and convert to alphanumeric strings in seconds
-  Deep Learning to improve Data Quality
-  Automated Data Validation with final Confirmation enabled for user who enters the Data
-  Digital Workplace Enablement
-  Real-time KPI Reporting and Analytics to drive actions in Data Governance
-  Manage Complex array of Data Sources



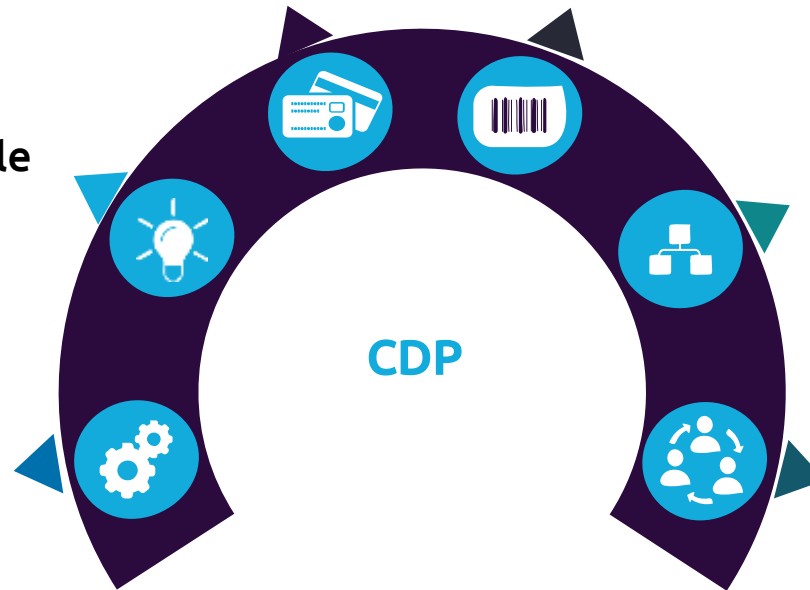


CDP VS ALTERNATIVES

Pay as you go model Zero touch Processing

Uses advanced AI and can handle various formats of the same document type

Not a tool. It's a Solution to fit any client portfolio



Can Extract -

- Signatures
- Handwritten
- Free text (No Key data)
- Radio buttons
- Check boxes
- Tables(bordered or borderless)

Web API base output - Easy integration with client applications



Application of CDP



APPLICATIONS OF CDP



Customer Onboarding

- Process KYC documents by extracting RIGHT information
- Auto-Fill and Validate the Application Form
- Highlight the Incorrect or Missing information



Mortgage Processing

- Scan and Categorize the Loan Application Documents
- Extract Key Information
- Assess and Finalize the Applicant's Creditworthiness



BPO process Automation

- Cheques, vouchers, invoice document processing using business and logical rules
- Use RPA to interact with applications



Contract Intelligence

- Automated Evaluation of Contract terms (Highlight major terms and provide recommended actions)



Cheque Fraud Prevention

- Identify Handwritten Text
- Signatures Validation & Verification
- Process Payments



Claims Processing

- Automatically capture useful written or printed data from a large number of scanned claims for faster processing

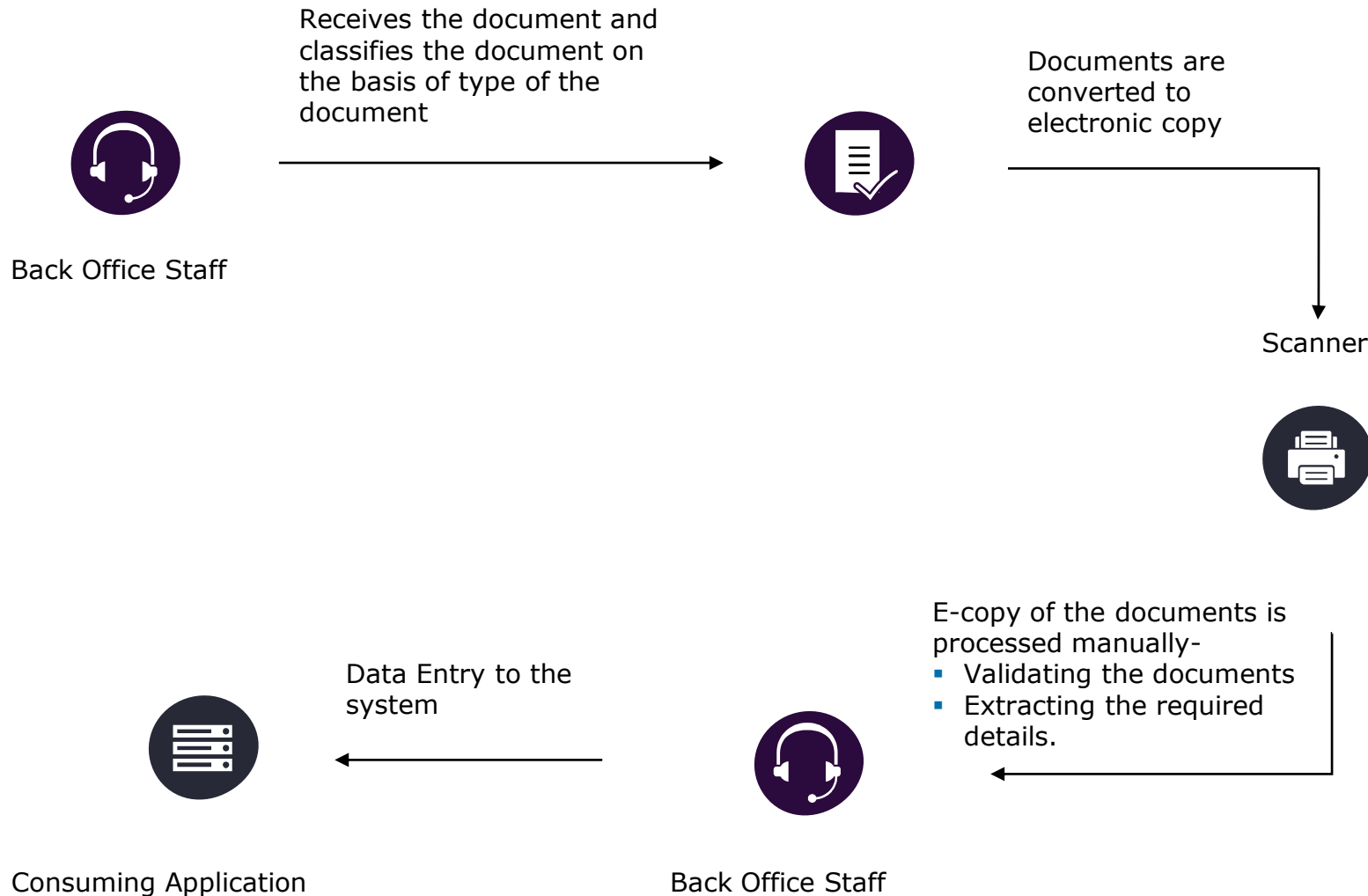


Environment Analysis

- Scan Social Media, News,
- Highlight noteworthy happenings (NLG)



EXAMPLE - THE CURRENT WAY

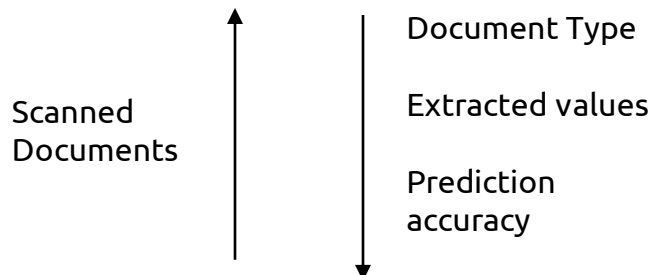
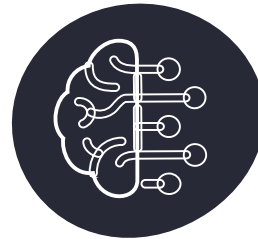
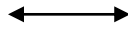


- 10 Million Documents/ year
- 400+ Back Office Staff
- Manual Classification of Documents
- Manual Data Extraction
- Manual Data Entry
- Manual Errors
- High Processing time.

EXAMPLE - THE AI WAY



CDP API

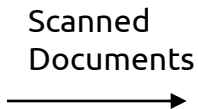


CDP AI ML based solution

- Powered with MS Cognitive Services
- OCR with Computer Vision
- Automatically detect document type
- Read, understand and extract key information
- Continuous training for higher accuracy



Mail room Staff



Business Application

- Automated Solution
- Powered with AI and ML
- Manage Document Volume
- Reduced Operating Cost
- Higher Accuracy
- Reduced Processing Lead Time
- Multiple Format and Type Support
- Exception Handling



Home Demo

Cognitive Document Processing System

FOR document processors WHO review electronic documents to capture relevant information THE Cognitive Document Processor IS artificial intelligence THAT automatically captures relevant information from electronic documents UNLIKE humans THE Cognitive Document Processor uses models derived through machine learning to classify electronic documents and provide text from images along with confidence rating on accuracy

The Problem and The Solution

Unstructured Data processing is a challenge

UDD



<http://cdpapp-demo.azurewebsites.net/About>

CDP

the Cognitive Document Processing solution



is able to process unstructured data due to its **Cognitive Capabilities** caters to our Clients across Finance, Insurance, Manufacturing, Automobile - applicable to key processes like **KYC, Claims, Lending, Customer Onboarding, Title**



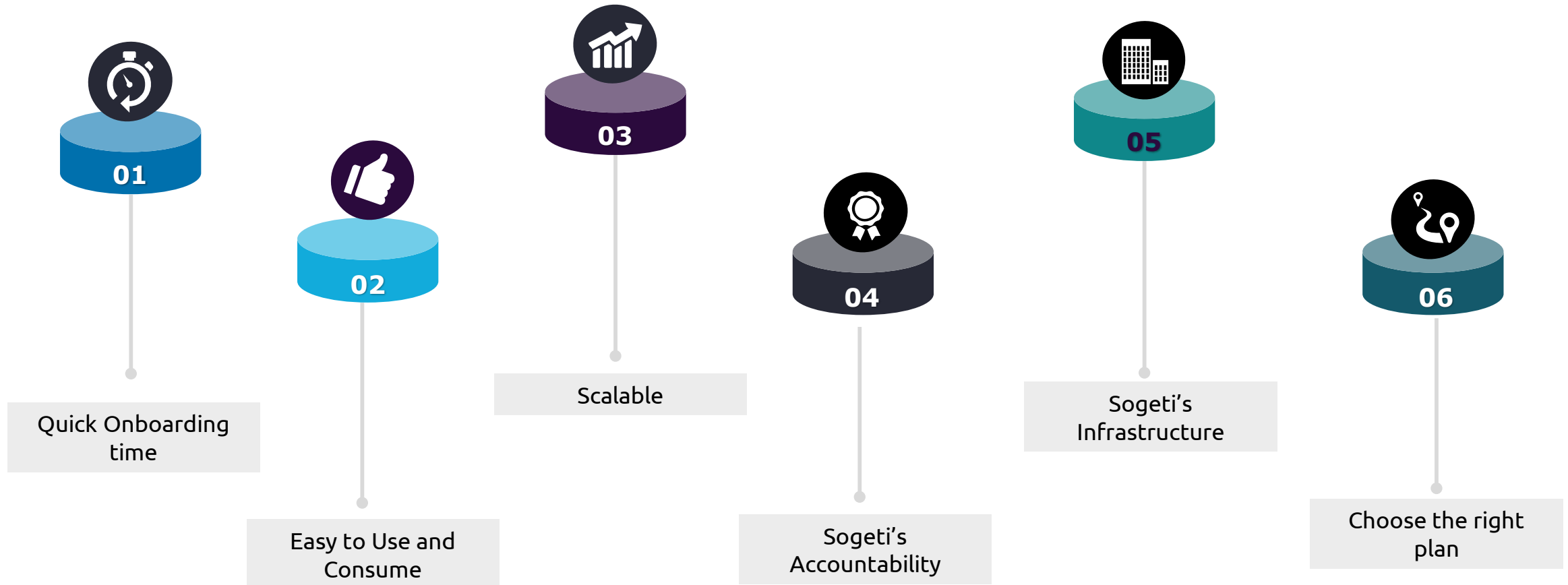
CDP Implementation and Delivery



AS A SERVICE



CDP AS A SERVICE - VALUES





CDP – AS A SERVICE PLANS

	Basic	Premium
Language Supported	English	English, Swedish, Dutch
Maximum Number of data fields* formats	10, 25	No Limit
Type of Fields Supported	Key value Paired – Printed and hand written	Key value Paired – Printed and hand written, Radio Button, check boxes, Free text and Signature Detection
Price Per Page Scanned	0.20 Euro	0.15 Euro
Price per new data Field**	500 Euros	Basic: 500 Euros Premium: 800 Euros <i>(Max 15 historic Formats)</i>
Price Per new Format	1000 Euros	1250 Euros – Max 100 Fields
Price Per new Language	NA	1500 Euros

*Maximum allowed data fields across all trained formats under the subscription.

** Time and Cost for training all the historical formats on new field for premium services may vary depending on the volume of historical formats.

CDP AS A SERVICE - TIMELINE



Onboarding

1 Week



Event

New Field

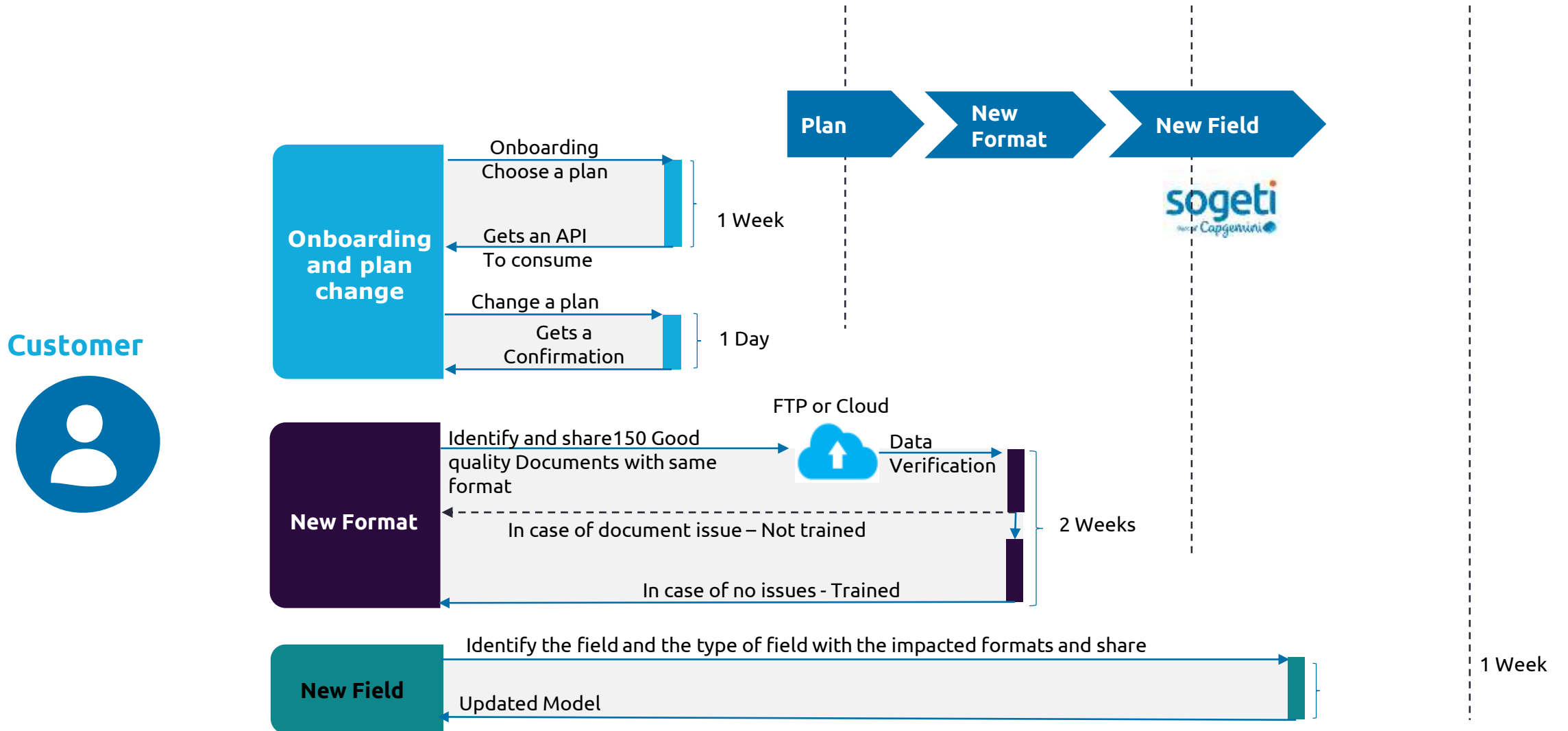
New Format

Time

1 Week

2 Weeks

HOW IT WORKS



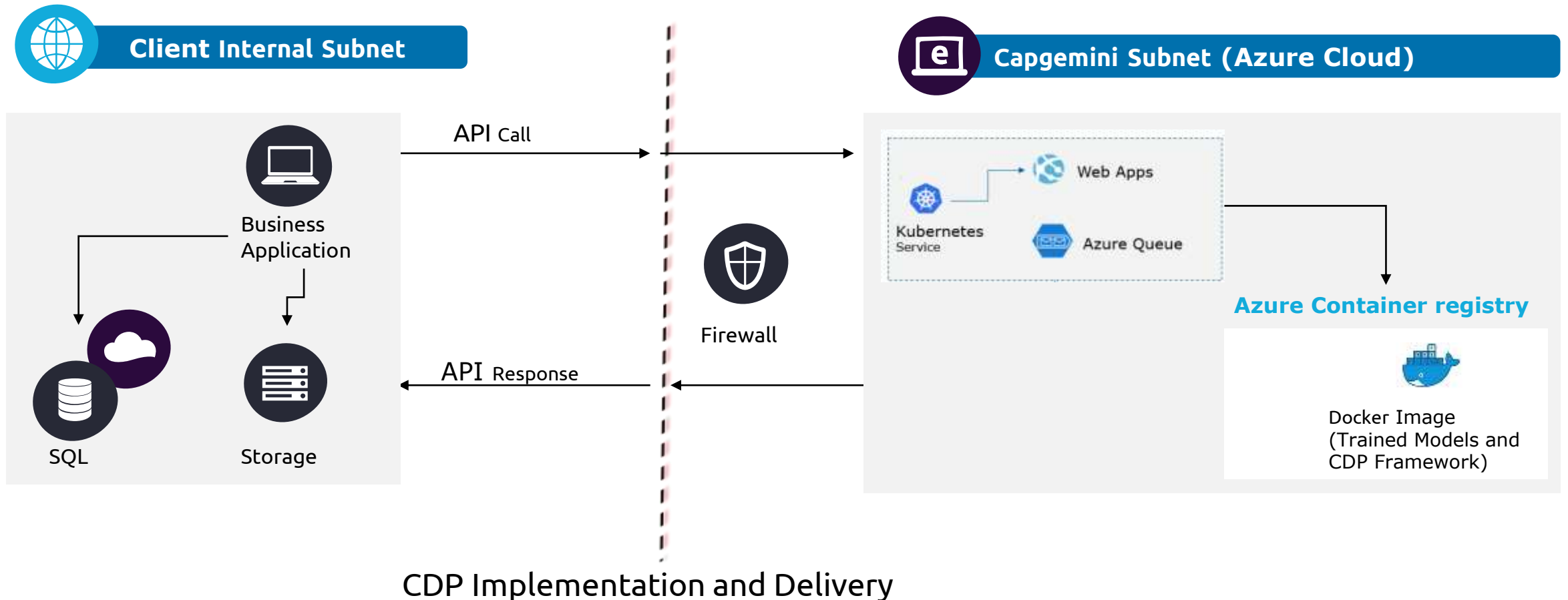


EXAMPLE - BASIC

	New Customer	Additional Format Requirement	Additional Field Requirement
Existing Formats	0	1	2
New Requested Format	1	1	0
Format Fees	1000 X 1 = 1000 Euros	1000 X 1 = 1000 Euros	1000 X 0 = 0
New Data Fields Requested	5	0	3
Existing Fields	0	5	5
Field Fees	5 X 500 = 2500 Euros	Existing Field = 5 X 0 = 0 (up to 10 Fields) New Field = 0 X 500 = 0	Existing Field = 5 X 0 = 0 (up to 10 Fields) New Field = 3 X 500 = 1500 Euros
Total Fees	3500 Euros	1000 Euros	1500 Euros
Cumulative Fees	6000 Euros		
Comments	Total 1 format with 5 fields trained	Total 2 Formats with the existing 5 fields trained for all the formats.	Total 8 fields will be trained on all applicable formats



CDP ARCHITECTURE – CDP AS A SERVICE

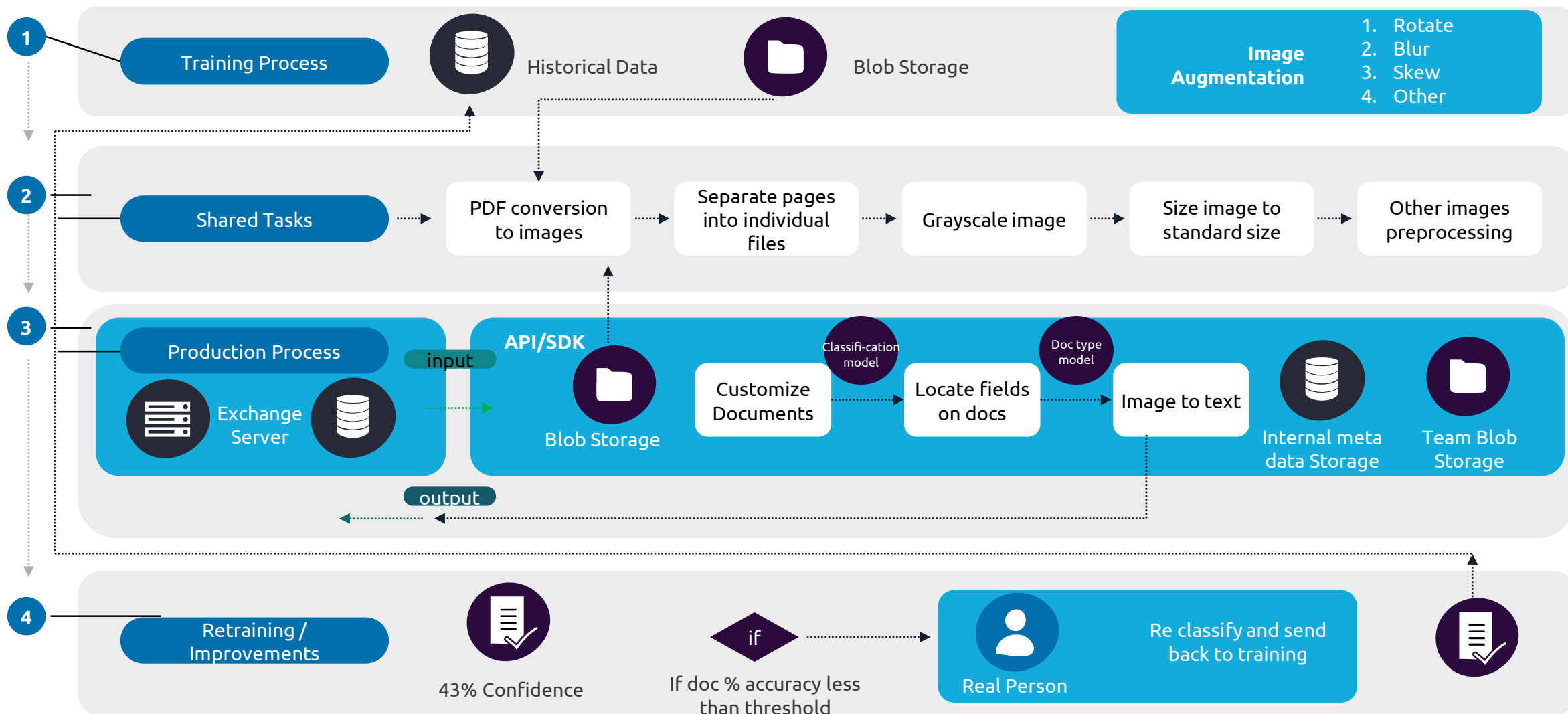




ON PREM AND CLOUD



SOLUTION – AZURE CLOUD AND ON PREMISE





CDP – ON PREMISE AND CLOUD - IMPLEMENTATION ROADMAP



Phase 1
Proof of Concept



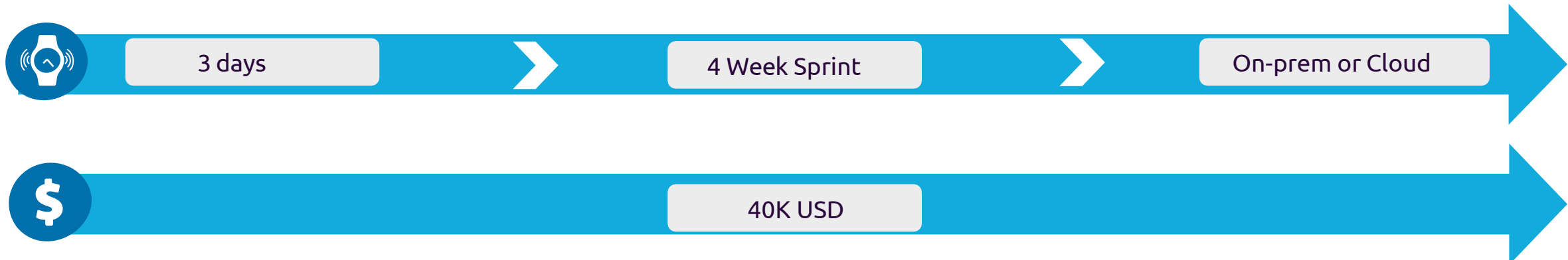
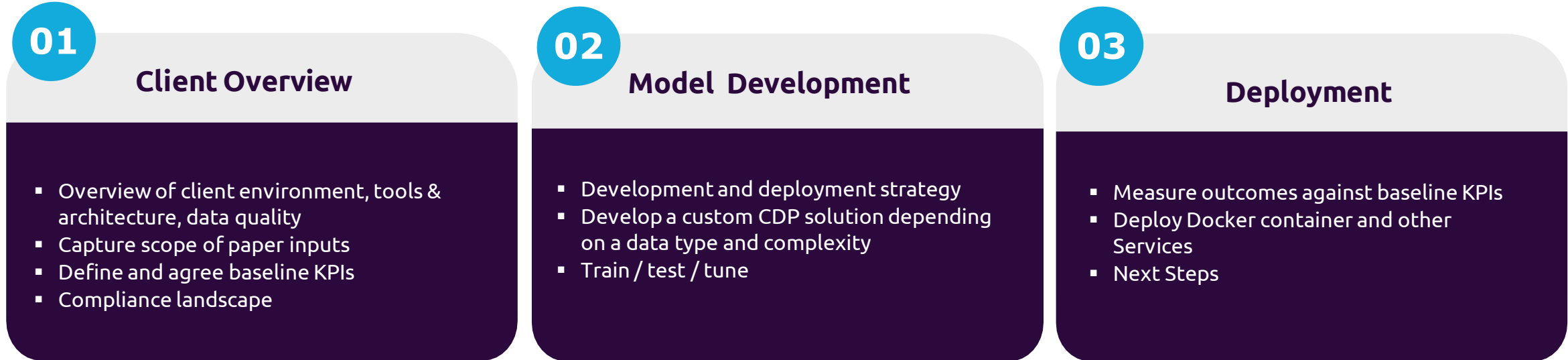
Phase 2
Implementation



Phase 3
Scaling

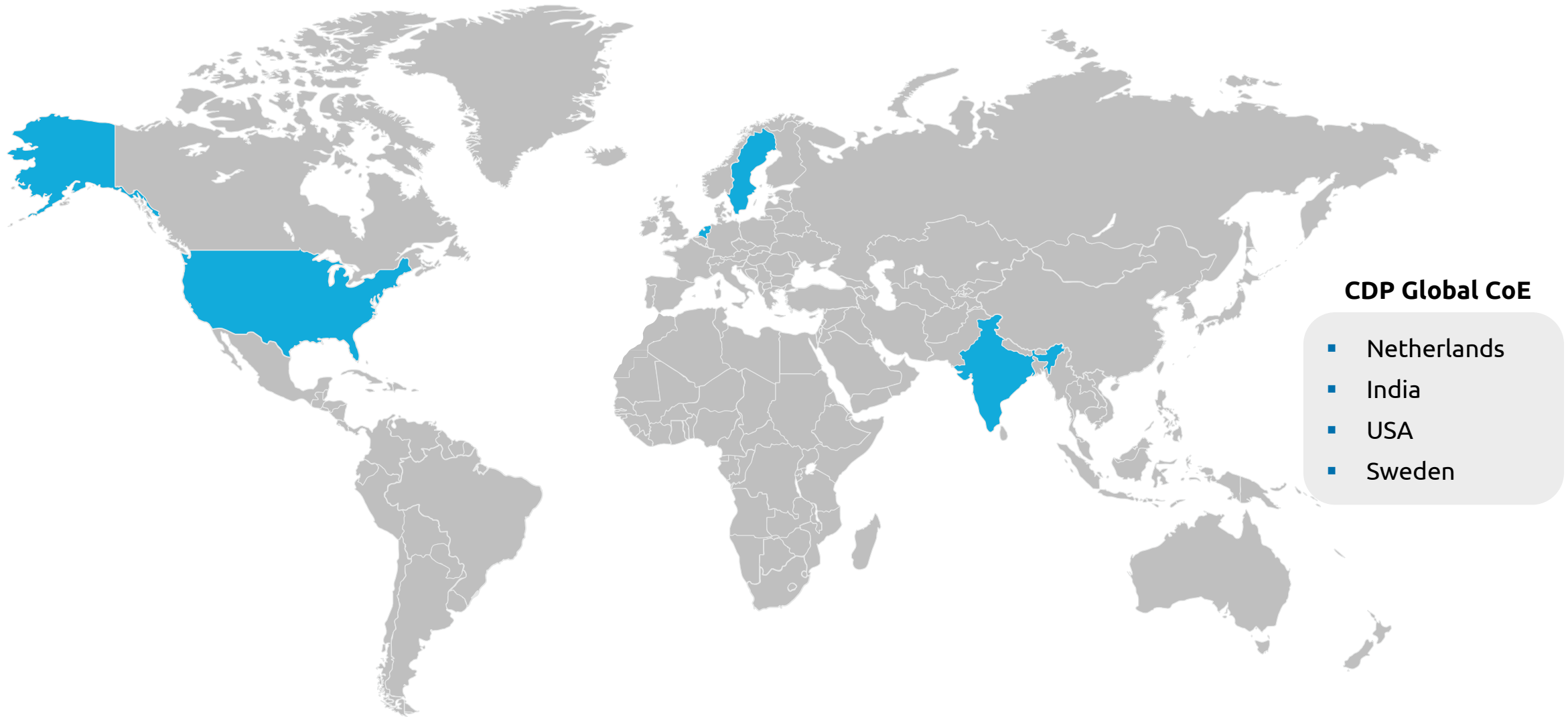


CDP – ON PREMISE AND CLOUD - PROOF OF CONCEPT





DELIVERY THROUGH A GLOBAL COE





CDP COE - WHO ARE WE?



Mark Oost – CTO Analytics & A.I.



Arun Sahu
AI/ML Specialist
India



Anurag Sharma
AI/ML Specialist
USA



Deepa Mamtani
AI/ML Specialist
NL



Michael Ohlsson
AI/ML Specialist
Sweden



Q&A



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