

INTELLIGENCE ARTIFICIELLE

Boostez votre efficacité avec Azure document intelligence

INTRODUCTION



Steve DA RE

Consultant M365
COMPUTERLAND Belgium



Steve DA RE



Computerland



Azure AI services

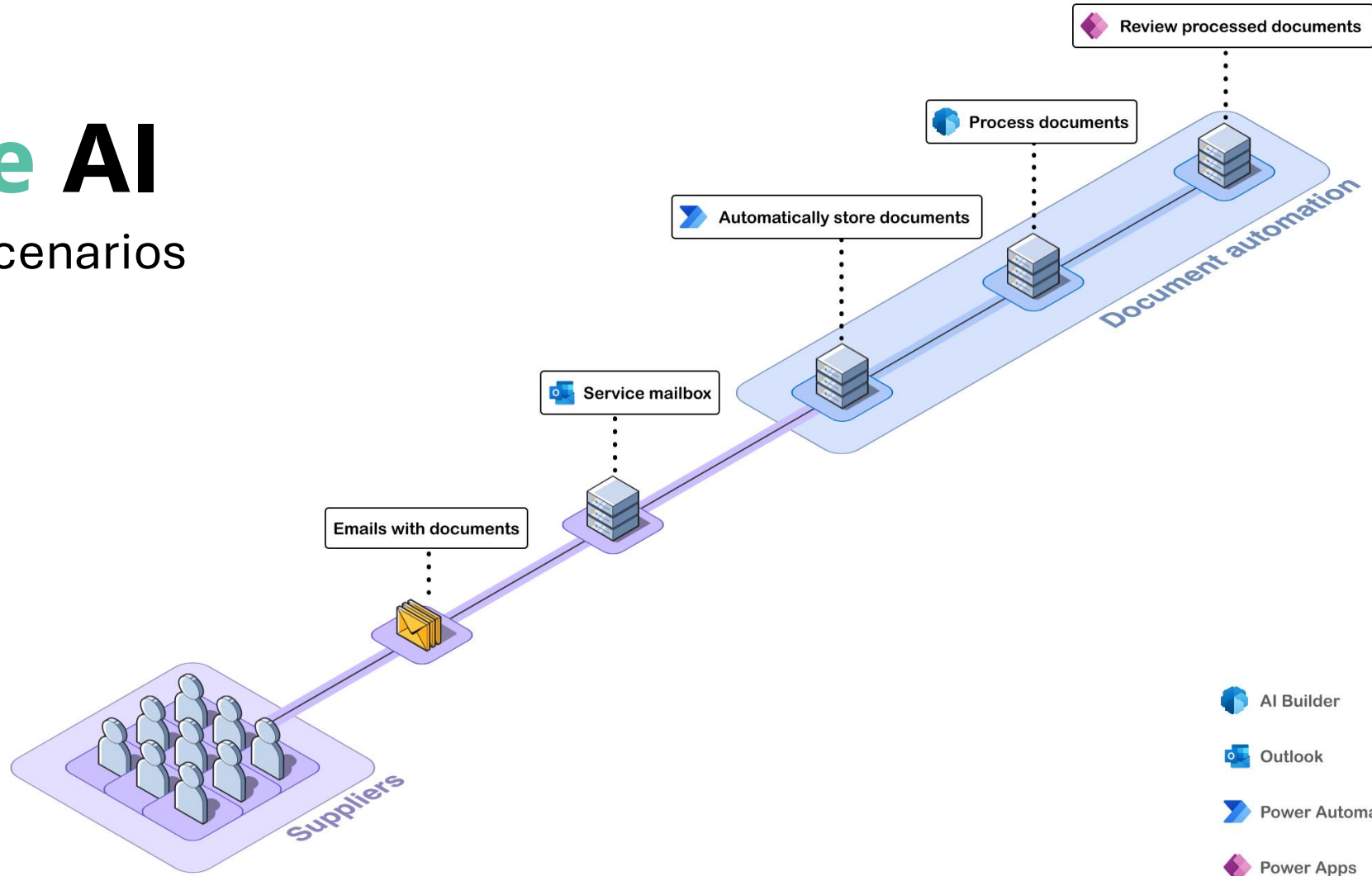
Azure AI

Business scenarios

Business scenario	Model type
Automate customer application processing	Document processing
Automate expense reports	Receipt processing
Categorize user feedback based on their focus	Category classification
Extract insights from product reviews	Entity extraction
Identify language of text	Language detection
Identify and classify customer feedback	Sentiment analysis
Translate support requests into your language	Text translation
Identify fraudulent transactions	Prediction
Get alerted to social media posts referencing your brand	Key phrase extraction
Automate contact list	Business card reader
Automate inventory taking	Object detection
Take a photo of text and save it to a database	Text recognition

Azure AI

Business scenarios



Azure AI Services



Azure AI services

Search <<

Overview

All Azure AI services

Azure AI services

- Azure AI services
- Azure OpenAI
- AI Search
- Computer vision
- Face API
- Custom vision
- Speech service
- Language service
- Translator
- Document intelligence
- Bot services
- Anomaly detector
- Content moderator
- Health Insights
- Personalizer
- Metrics advisor
- Immersive reader
- Azure AI services multi-service account
- Content safety
- Language understanding (classic)
- QnA maker (classic)

Cognitive Services and AppliedAI Services are now Azure AI services.

Build smarter apps and services

Azure AI services brings AI within reach of every developer—without requiring machine-learning expertise. All it takes is an API call to embed the ability to see, hear, speak, search, understand, and accelerate decision-making into your apps. [Learn more](#)

<p>Azure OpenAI account Perform a wide variety of natural language tasks.</p> <p>+ Create View</p>	<p>AI Search Bring AI-powered cloud search to your mobile and web apps.</p> <p>+ Create View</p>	<p>Computer vision Analyze content in images and videos. Learn more</p> <p>+ Create View</p>	<p>Face API Detect and identify people and emotions in images. Learn more</p> <p>+ Create View</p>
<p>Custom vision Customize image recognition to fit your business. Learn more</p> <p>+ Create View</p>	<p>Speech service Speech to text, text to speech, translation and speaker recognition. Learn more</p> <p>+ Create View</p>	<p>Language Service Build apps with industry-leading natural language understanding capabilities. Learn more</p> <p>+ Create View</p>	<p>Translator Translate more than 100 languages and dialects. Learn more</p> <p>+ Create View</p>
<p>Document intelligence Turn documents into usable data at a fraction of the time and cost.</p> <p>+ Create View</p>	<p>Bot services Create bots and connect them across channels.</p> <p>+ Create View</p>	<p>Anomaly detector Identify potential problems early on. Learn more</p> <p>+ Create View</p>	<p>Content moderator Detect potentially offensive or unwanted content. Learn more</p> <p>+ Create View</p>
<p>Health Insights Health Insights</p> <p>+ Create View</p>	<p>Personalizer Create rich, personalized experiences for each user. Learn more</p> <p>+ Create View</p>	<p>Metrics advisor Proactively monitor metrics and diagnose issues.</p> <p>+ Create View</p>	<p>Immersive reader Help users read and comprehend text.</p> <p>+ Create View</p>
<p>Azure AI services multi-service account Add multiple Azure AI services to your application</p>	<p>Content safety An AI service that detects unwanted contents</p>	<p>Language understanding (classic) Understand natural language in your apps. Learn</p>	<p>QnA maker (classic) Distill information into easy-to-navigate questions</p>

Azure AI Document Intelligence

- Pretty much like AI Builder but is consumed in Azure
- Use AI to Build Document Processing Workflows
- **Easily** extract text and structure with simple REST API
 - Integration not limited to PowerAutomate / PowerApps!
- Interesting pricing model


Azure OpenAI ChatGPT4o

- Revolution extraction des infos
- Pas besoin d'entraîner un modèle
- Pour le moment uniquement sur des images, pas encore PDF

Azure AI Document Intelligence

Document analysis


Extract text, tables, structure, key-value pairs, and named entities from documents.



Read

Extract printed and handwritten text along with barcodes, formulas and font styles from images and documents.


[Try it out](#)



Layout

Extract tables, check boxes, and text from forms and documents.

[Try it out](#)




General documents

Extract key value pairs and structure like tables and selection marks from any form or document.

[Try it out](#)


Prebuilt models

Extract data from unique document types using the following prebuilt models.




Invoices

Extract invoice ID, customer details, vendor




Receipts

Extract time and date of the transaction,



Identity documents

Extract name, expiration date, machine



US health insurance cards

Extract insurer, member, prescription, group

Azure AI Document Intelligence

USER EXPERIENCE DAY 2024

The screenshot shows the Azure AI Document Intelligence Studio interface. The main area displays an invoice document. A dropdown menu for 'Auto label' is open, showing three options: 'Current document', 'Unlabeled documents', and 'All documents'. The 'Current document' option is highlighted. The invoice content includes:

INVOICE
INVOICE: INV-100
INVOICE DATE: 11/15/2019
DUE DATE: 12/15/2019
CUSTOMER NAME: MICROSOFT CORPORATION
SERVICE PERIOD: 10/14/2019 – 11/14/2019
CUSTOMER ID: CID-12345

SALESPERSON

SALESPERSON	P.O. NUMBER	REQUISITIONER	SHIPPED VIA	F.O.B. POINT	TERMS
	PO-3333				

DATE **ITEM CODE** **DESCRIPTION** **QTY** **UM** **PRICE** **TAX** **AMOUNT**

3/4/2021	A123	Consulting Services	2	hours	\$30.00	\$6.00	\$60.00
3/5/2021	B456	Document Fee	3		\$10.00	\$3.00	\$30.00
3/6/2021	C789	Printing Fee	10	pages	\$1.00	\$1.00	\$10.00

SUBTOTAL \$100.00
SALES TAX \$10.00
TOTAL \$110.00
PREVIOUS UNPAID BALANCE \$500.00
AMOUNT DUE \$610.00

THANK YOU FOR YOUR BUSINESS!

REMIT TO:
Contoso Billing
123 Remit St
New York, NY, 10001

Azure AI Document Intelligence

USER EXPERIENCE DAY 2024

The screenshot shows the Azure AI Document Intelligence Studio interface. The main window displays a receipt from Contoso with the following text:

Contoso

123 Main Street
Redmond, WA 98052

987-654-3210

6/10/2019 13:59
Sales Associate: Paul

2 Surface Pro 6	\$1,998.00
3 Surface Pen	\$299.97
Sub-Total	\$2,297.97
Tax	\$218.31
Total	\$2,516.28

The interface also shows a sidebar with navigation options (Label data, Models, Test, Settings) and a right-hand pane displaying the extracted fields and their confidence scores:

Fields	Result	Code
receipt.png		
DocType: test-model		
address #1	123 Main Street Redmond, WA 98052	24.80%
name #1	Contoso	58.10%

Azure AI Document Intelligence



Documents > receipts

	Nom ↑ ▾	Vendor ▾	datum ▾	bedrag ▾	TVA ▾
	maes (1).jpeg	Maes Koffie	25/11/2023	36,9	BE 0675.425.747

Démo

- Azure Document Intelligence
- ChatGPT 4o

AI Projects Cohezio

Client:

Cohezio is a company dedicated to the health, safety, and well-being of workers.

Objective:

Extract information from filled-on contracts and inject them into the ERP system

Benefits:

No more manual reading and input

Futur Toughts:

Further develop client onboarding



AI Projects JAC Machines

Client:

JAC Machines specializes in professional bakery equipment, particularly bread slicers and bread-making machines.

Objective:

Extract written information from assembly documents and store in SharePoint library

Benefits:

Easy search on serial number, model, card, ...

Future Thoughts:

Expand to other documents: invoices, delivery notes, ...



AI Projects – autres

Document Intelligence:

- OCR factures + creation XML pour importer dans ERP
- OCR factures pour liste suivi approbation sharepoint
- OCR ticket resto/parking/expenses/ pour approbation teams

Tokens Azure OpenAI

Models	Context	Input (Per 1,000 tokens)	Output (Per 1,000 tokens)	Price per PTU per Hour	Minimum Scaling Increment	Monthly Reservation per PTU	Yearly Reservation per PTU
GPT-4o Global Deployment	128K	€0.0047	€0.0139	N/A	N/A	N/A	N/A
GPT-4o Regional API	128K	€0.0047	€0.0139	€1.8492	50 PTUs	€240.3847	€2,451.9231
GPT-4o-mini Global Deployment	128K	€0.00014	€0.0006	N/A	N/A	N/A	N/A
GPT-4o-mini Regional API	128K	€0.000153	€0.00062	€1.8492	25 PTUs	€240.3847	€2,451.9231
GPT-3.5-Turbo-0125	16K	N/A	N/A	€1.8492	100 PTUs	€240.3847	€2,451.9231
GPT-3.5-Turbo-Instruct	4K	N/A	N/A	N/A	N/A	N/A	N/A
GPT-4-Turbo	128K	€0.010	€0.028	€1.850	100 PTUs	€240.3847	€2,451.9231
GPT-4-Turbo-Vision	128K	€0.010	€0.028	N/A	N/A	N/A	N/A
GPT-4	8K	N/A	N/A	€1.850	50 PTUs	€240.3847	€2,451.9231
GPT-4	32K	N/A	N/A	€1.850	200 PTUs	€240.3847	€2,451.9231

Azure Document Intelligence

Instance	Document type	Price
Free - Web/Container ¹	All	0 - 500 pages free per month
S0 - Web/Container	Read	0-1M pages - €1.387 per 1,000 pages 1M+ pages - €0.555 per 1,000 pages
	All Prebuilt Models: Document, Layout, Receipt, Invoice, ID, W-2, 1098 Tax forms, Health insurance card, Contract.	€9.246 per 1,000 pages
	Custom classification	€2.774 per 1,000 pages
	Custom extraction	€27.737 per 1,000 pages
	Custom generative extraction	€27.737 per 1,000 pages
	Add-On ²	€5.548 per 1,000 pages
	Query Fields	€9.246 per 1,000 pages
	Training	€2.774 per hour of training
	Batch custom extraction pages	€27.737 per 1,000 pages
	Batch custom generative extraction pages	€27.737 per 1,000 pages
	Batch custom classification	€2.774 per 1,000 pages
	Batch prebuilt models	€9.246 per 1,000 pages
	Batch read	€1.387 per 1,000 pages

Azure Document Intelligence

Commitment Tiers: pay an upfront monthly fee for high-volume usage at a discount.

Instance	Features	Price (per month)	Overage
Azure	Custom extraction	€499.261 per 20,000 pages	€24.964 per 1,000 pages
		€2,218.935 per 100,000 pages	€22.190 per 1,000 pages
		€9,707.841 per 500,000 pages	€19.416 per 1,000 pages
	Prebuilt	€175.666 per 20,000 pages	€8.784 per 1,000 pages
		€832.101 per 100,000 pages	€8.322 per 1,000 pages
		€3,698.225 per 500,000 pages	€7.397 per 1,000 pages
	Read	€346.709 per 500,000 pages	€0.694 per 1,000 pages
		€1,109.468 per 2,000,000 pages	€0.555 per 1,000 pages
		€3,883.137 per 8,000,000 pages	€0.491 per 1,000 pages
Connected Container	Custom extraction	€424.372 per 20,000 pages	€21.219 per 1,000 pages
		€1,886.095 per 100,000 pages	€18.861 per 1,000 pages
		€8,251.665 per 500,000 pages	€16.504 per 1,000 pages
	Prebuilt	€140.533 per 20,000 pages	€7.027 per 1,000 pages
		€665.681 per 100,000 pages	€6.657 per 1,000 pages
		€2,958.580 per 500,000 pages	€5.918 per 1,000 pages
	Read	€312.50 per 500,000 pages	€0.629 per 1,000 pages
		€998.521 per 2,000,000 pages	€0.500 per 1,000 pages
		€3,494.823 per 8,000,000 pages	€0.435 per 1,000 pages

MERCI DE VOTRE ÉCOUTE
DES QUESTIONS ?

VOTRE AVIS NOUS INTERESSE

Merci pour votre participation



COMPUTERLAND
ERP & IT SERVICES



Boostez votre efficacité avec Azure document intelligence