

# Pryon and Evans & Chambers

Trusted, Safe, and Proven Path to Implementing  
Generative AI in support of CAD/PAD



# Integration Partner: Evans & Chambers Technology



At Evans & Chambers, **excellence is our commitment**. We use high-quality, systems-based processes. But more importantly, we develop a **partnership** with our clients.

- Cyber Defense
- Cloud Engineering
- Data Science & Engineering
- Human-Centered Development



Trusted by:



DUNS	188303767
CAGE Code	4LH55
Designation	8(a) Graduate, HUBZone, Minority-Owned
Security Clearances	Active Top Secret Facility Clearance (FCL)
Certifications	ISO 9001:2015, CMMI Dev III, ISO 27001 AWS Select Consulting Partner
Industry/Business	IT and Management Consulting
Commercial Clients	Air Force, DHS, DIA, FBI, NCTC, VA Intelligence Community, Veterans Administration, Mack Defense, Cisco, Guidehouse
GWACS and IDIQs	GSA Multiple Award Schedule

## NAICS Codes

- **541511** Custom Computer Programming Services
- **541512** Computer Systems Design Services
- **541513** Computer Facilities Management Services
- **541519** Other Computer Related Services
- **541330** Engineering Services
- **541430** Graphic Design Services
- **561110** Office Administrative Services
- **541611** Admin Mgmt and General Mgmt Consulting Services
- **541618** Other Management Consulting Services



# Evans & Chambers Technology Domain Expertise



Domain Expertise	IC	FBI	Navy	Air Force	DIA	DHS	SSA	B2B
Counterterrorism	•	•			•	•		
Counterintelligence					•			
Personnel Security	•							•
Physical Security	•						•	•
Space Intelligence					•			
Smart Manufacturing			•					
Legacy System Modernization	•							•
Immigration						•		
Intelligence Analysis	•				•			
Cross-Domain Communication	•	•						
Secure Information Sharing	•	•						
Open-Source Intelligence	•				•			
Professional Sports and Entertainment								•

# Introducing Pryon



Igor Jablovskiy shows YAP in 2008  
— acquired by Amazon in 2011

# Pryon Inc.

## FOUNDED BY AI VETERANS



**IGOR JABLOKOV**  
Founder & CEO  
Founder, YAP – exit to  
Amazon (Alexa)



**CHRIS MAHL**  
President & COO  
IPOs: Salesforce,  
Informatica

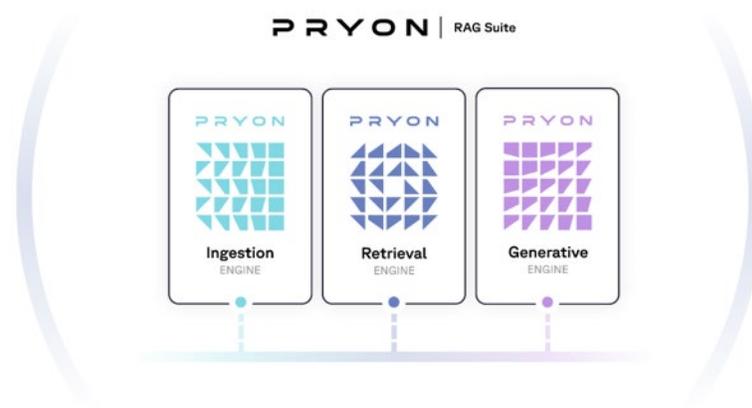


**DAVID NAHAMOO**  
Chief Scientist  
37 years at Watson Labs

## ENTERPRISE RAG PLATFORM



Pryon for Enterprise  
and Government



## USED BY LEADING COMPANIES



# Knowledge friction is the disconnect between content authors & consumers



**AUTHOR**  
Enablement  
Policies  
Manuals  
Training  
Wikis

**KNOWLEDGE FRICTION**  
Content scattered across silos and formats  
Time wasted looking for answers  
Content  $\neq$  knowledge

**CONSUMER**  
Where do I start?  
Who do I talk to?  
Which file has the answer?  
Who has the time to read this?  
Is this the latest version?

# Knowledge friction is a significant problem

**470K** Hours a year spent by employees of mid-sized companies looking for answers  
— *McKinsey*

**>50%** Of workers spend more time looking for answers than working  
— *TechRepublic*

**70%** Say employees spend more than an hour looking for a piece of information

**92%** Of respondents agree that fast, accurate information from unstructured content is vital



Source: The Survey Toward Safe, Secure, and Trusted AI

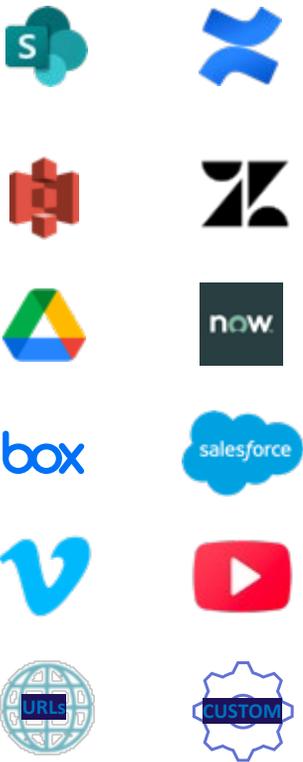


## IMPACT

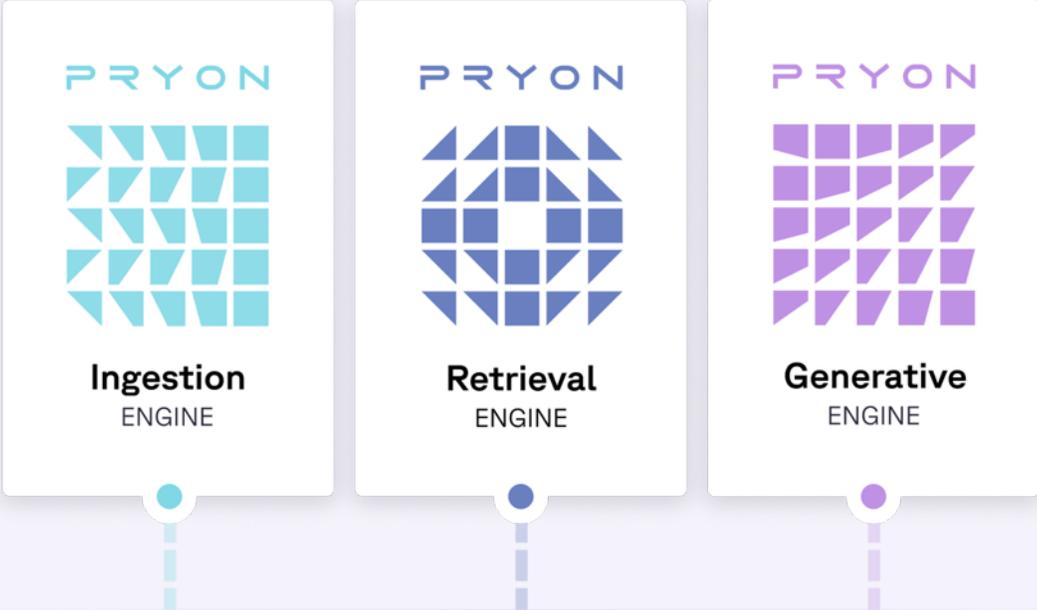
- x Low employee and operational productivity
- x Frustrated customers
- x High organizational inertia to changes
- x High compliance risk

# Pryon addresses knowledge friction by ingesting enterprise content, retrieving accurate answers, and generating responses where users want them

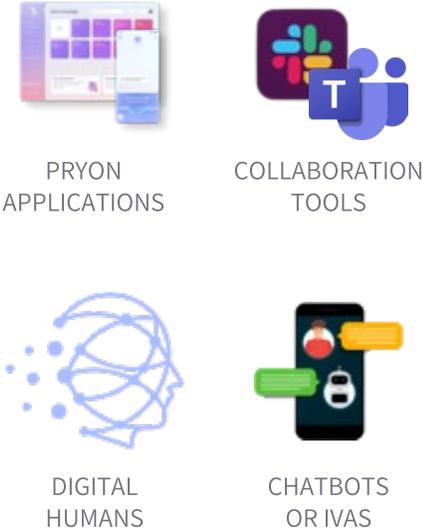
## Extensible Connectors to Enterprise Sources



## PRYON | RAG Suite



## Flexible Front-End Integration



# Pryon offers distinct advantages in addressing knowledge friction

## ACCURATE

- High-precision ingestion that reads content as humans do
- Accurate retrieval with smart matching
- Grounds generative responses in content retrieved from the source, providing direct attribution
- Continuous ingestion for new and changed content
- No-code interface for updating content

## ENTERPRISE SCALE

- Pre-built connectors to most common enterprise source systems
- Full multimodal support
- Supports millions of pages of content per collection
- Serves thousands of concurrent users in milliseconds

## SECURE

- Document-level access level control
- Deployable in SaaS, VPC, and On-Premises (Dell)
- Does not train models on customer data
- SOC 2 compliance (Pryon SaaS)

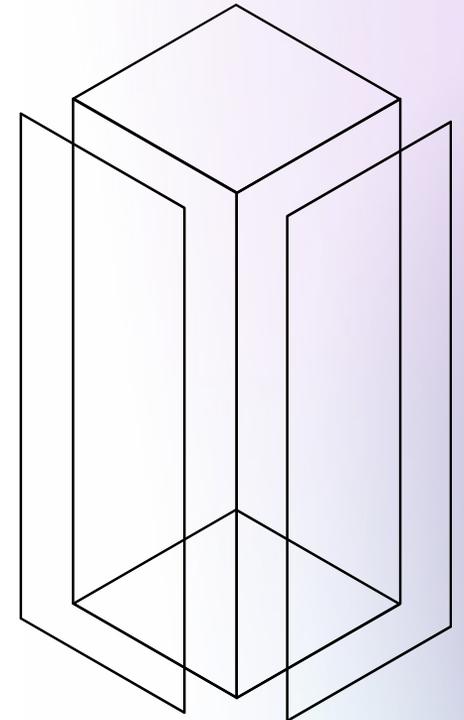
## TIME-TO-VALUE

- Deployable in as little as two weeks
- No-code interface for updating content

# Where are you in your Generative AI Journey?

## GenAI Journey

- Early exploration
- Implementing proof of concepts and pilots
- Adapting use of public LLMs by fine-tuning the model or using techniques such as Retrieval-Augmented Generation (RAG)
- Building enterprise architecture using proven components to support multiple GenAI use cases across the business
- Managing multiple GenAI applications in production



# Generative AI also has significant risks

## Key Risks of Generative AI to the Enterprise

<b>Reliability of generated content</b>	Produced answers and content may be inaccurate, low-quality, out of date, etc.
<b>Bias in results</b>	Models may inherit bias in the training data and reflect that bias in generated responses
<b>Privacy &amp; data security concerns</b>	Generated responses may reflect sensitive user or business information inherent in the training data. Applications may use user inputs for further training, which may also expose sensitive information to a public forum
<b>Lack of control</b>	Businesses are unable to control the responses from a generative solution due to a lack of inherent safeguards

ARTIFICIAL INTELLIGENCE

### ChatGPT, Generative AI Gets 6-Month Ban in Maine Government

### Samsung Bans Staff's AI Use After Spotting ChatGPT Data Leak

- Employees accidentally leaked sensitive data via ChatGPT
- Company preparing own internal artificial intelligence tools

### Companies Banning AI Platforms Like ChatGPT in 2023

From Apple to Samsung, these companies (and a few countries) are prohibiting the use of generative AI platforms like ChatGPT.

# Retrieval-Augmented Generation ensures reliable and grounded use of GenAI

## Retrieval

Pryon’s world-class retrieval engine securely provides accurate and fast answers by **extracting** information directly from enterprise content with **attribution to the source**.

Augmented



## Generative

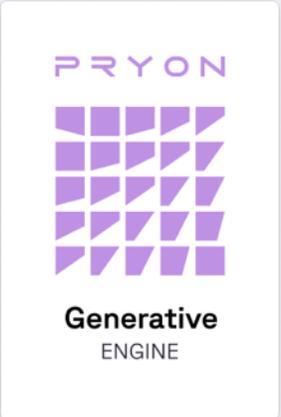
Retrieval-Augmented Generation (RAG) leverages generative LLMs to interpret queries, **smooth the responses** provided by Retrieval Engine, and support a conversational UX.

### EXAMPLE:

● Prompt:  
How do I remove a microSD card?



- Context 1
- Context 2
- Context n



● Answer:  
To remove the microSD card, push the card to eject it from the slot and then remove it from the system. [1][2]

# Pryon solves for the “R” in RAG

## Pryon Ingestion Engine

Pryon accesses, reads, and understands in-scope content like a human would.

- **Ingest & Content Capture Engine**

Accesses the customer’s content sources with read-only access, checks for updates, and begins ingestion

- **Optical Character Recognition Engine (OCR)**

Reads each document to identify and label key components (e.g. table of contents, image, header, body, etc.) and extracts textual elements via OCR

- **Content Normalization & Interpretation**

Prioritizes more meaningful text (e.g. body paragraphs) and removes less useful text (e.g. non-ASCII characters), then converts text into machine-interpretable vectors that reflect the content’s meaning



## Pryon Retrieval Engine

Pryon understands a user’s query and rapidly searches through the ingested content to find the answer.

- **Query Processing Engine**

Translates the user’s query into machine-interpretable vectors that reflect the meaning behind the query

- **Content Matching Engine**

Rapidly matches the user’s query to all ingested content and returns highly accurate responses directly from the ingested content

- **Display Engine**

Returns the response text, contextual text, and metadata so that it’s easily interpreted by the user

# Computer Vision for Images, Safety Documents, SOPs

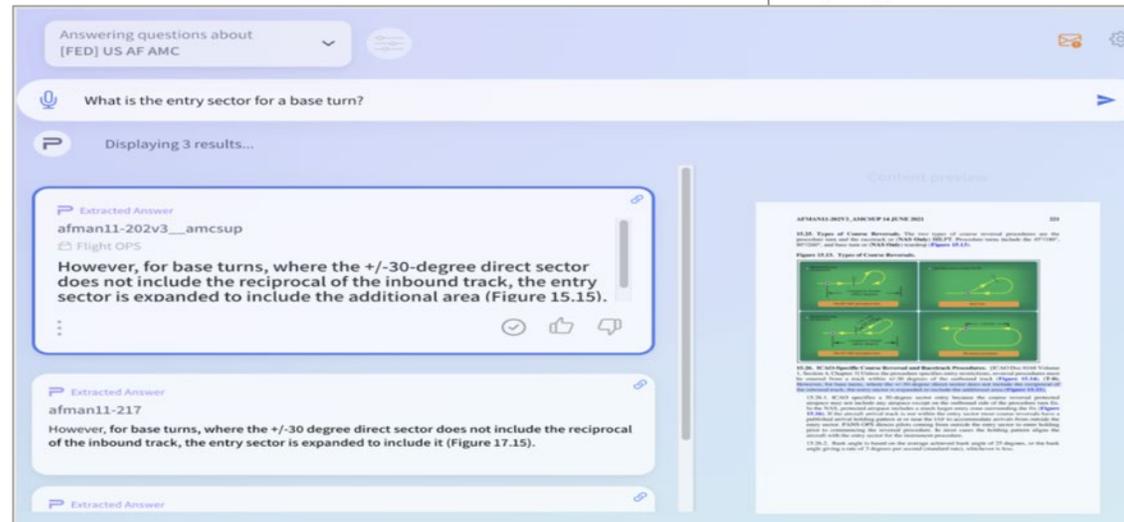
## Computer Vision and Optical Character Recognition

Using a unique visual parsing model, Pryon users can begin asking natural language questions and get an accurate answer in less than second.

## Ranked Answer and Summarized Answers

Answers delivered in ranked answer cards. The answer is highlighted in the source document (right in blue).

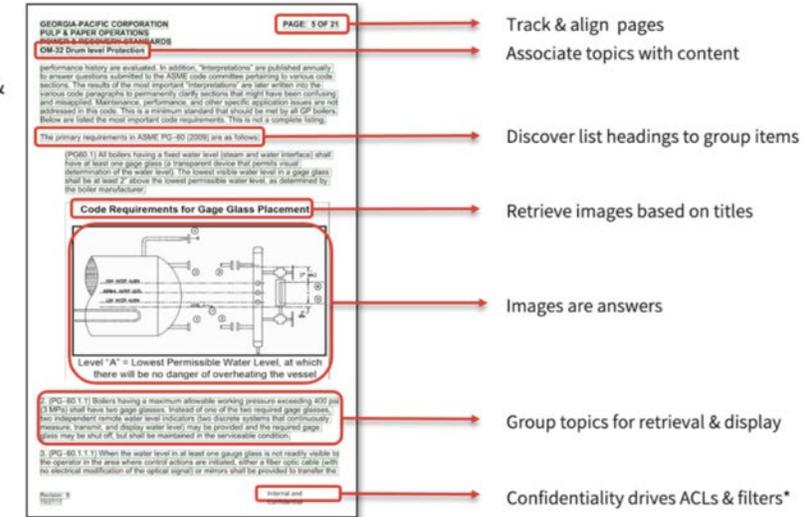
Retrieval Augmented Generative (RAG) mode enables question to be answered in summary format.



## Visual Parsing establishes human-like context

Mimicking how humans see context, Pryon's unique visual parsing model & workflow improves accuracy by recognizing:

1. Headings
2. Images
3. Labels for images
4. Lists
5. Paragraphs
6. Tables
7. Confidentiality\*



# Pryon provides proven building blocks for Enterprise RAG

Pryon's best-in-class ingestion and retrieval engines can be paired with Generative LLMs to implement retrieval-augmented generation and provide accurate, instant, and verifiable answers at enterprise scale.

✓ Simple

✓ Comprehensive

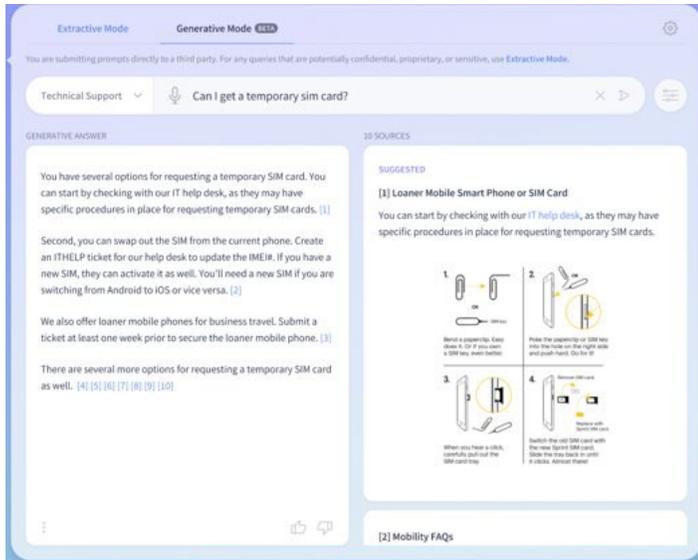
✓ Performant

## PRYON | RAG Suite



# Government-Grade

## WHAT & WHEN?



The portable Pryon Platform (RAG + Zeus (Pryon LLM) beta late Q1 2024

## WHO?

Customers



U.S. Department of Defense



DoD, DHS, DOJ, Commerce, Fed Health (VA, HHS), IC

## HOW?



Air-Gapped

Dell On-Prem



Google Cloud



Azure



GAME WARDEN

IL4/5/6 | FedRAMP Access Q2

Delivered on-premises, air-gapped, or in federal cloud – AWS / Azure GA Q2

PRYON

