

Generative AI

What's working, what's not,
and what's next

Abstract wavy lines in orange, red, and blue, creating a sense of motion and depth against the dark blue background.

PRESCOUTER

PreScouter

STRATEGY, LEVERAGING NEW TECHNOLOGIES & ENTERING NEW MARKETS



Representative clients



Dino Gane-Palmer
CEO, PreScouter

OpenBet®

**Imperial College
London**

B B C

NORTHWESTERN UNIVERSITY

Kellogg
School of Management

#1 Deploying ChatGPT / Copilot across a pilot group

What leaders are saying:

“Staff are learning that even when it gives you bad answers, you can get it to give you better answers by giving it more [information].”

ROI Analysis

- + Training staff
- Measurable ROI



COST

ChatGPT Enterprise:

- \$60/user/month
- min 150 users (i.e. \$108k/year)

500 user pilot => \$360k



Organizations publicly known to be running ChatGPT pilots

#2 Building your own ChatGPT

What leaders are saying:

“Querying 10,000 files, papers and finding relevant documents, and then synthesising that knowledge - It's extraordinary.

ROI ANALYSIS

- + Better than search
- Users ask unexpected questions; takes effort to mature



COST

1 engineer + cost of APIs
\$180k/year



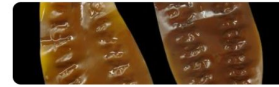
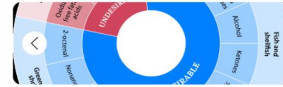
(Unless using PreScouter solution)



what is Algae's flavor as a food?

Algae's flavor as a food can closely resemble seafood due to their umami flavor profile ^{1a}. However, the specific flavor may vary depending on the type of algae and the concentration of various compounds ^{1b}. Some algae have been found to have fishy, crab, and mussel taste and aroma ^{1c} ^{1d}. It is important to note that certain compounds like hexanal and heptanal can contribute to a grassy note in algae, and an excessive amount of these compounds could result in an undesirable flavor ^{1b}.

Sources: ^{1a} ^{1b} ^{1c} ^{1d} [The-Rise-of-Algae-PreScouter-2023.pdf](#)



what is the size of the plant-based seafood market?

In 2021, the global market size of plant-based seafood was approximately USD 62 million ¹. The market is expected to grow rapidly, with predictions indicating that it could reach USD 1.3 billion by 2031 ¹.

Sources: ¹ [The-Rise-of-Algae-PreScouter-2023.pdf](#)



Query Desk Files



3.5



Files



Files



PreScouter's
ChatGPT
equivalent

citations

inline images

#3 Off-the-shelf applications

Working groups to identify tools



Training sessions to drive adoption of tools



Surveys to measure usage of tools

What leaders are saying:



Measuring ROI is hard, but I noticed we're not spending money on interns this year.

ROI ANALYSIS

- + Strong applications for specific use cases
- Off-the-shelf applications for core business processes



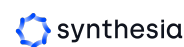
COST

Variable, based on application



Applications PreScouter has seen success with.

AI notetakers



#4 The extremes

Banning ChatGPT usage:

- Employees are still using it, just without oversight.

ROI ANALYSIS

- + No cost
- Unintended side effects



COST

Zero



Building your own LLMs:

- Cost of fine-tuning vs improving prompts
- Cost of development and hosting vs using APIs

ROI ANALYSIS

- Consider technology obsolescence



COST

\$millions



#5 Custom applications

Prime use cases:

Automating routine intellectual work

- Competitive Intelligence Gathering
- Grant and Funding Proposal Writing
- Regulatory Compliance Monitoring
- Patent Search and Analysis

ROI ANALYSIS

- + Strong ROI case
- Cultural change

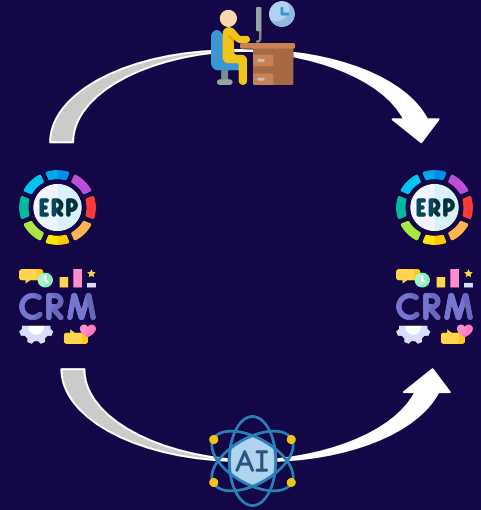


Upskilling staff

- Creating drafts of documents / deliverables
- Overcoming technical know-how and skills needed for deliverables

COST

\$25k to
\$250k/year



Example

There are many companies constantly monitoring:

- competitor product launches
- pricing
- IP
- consumer trends
- regulatory changes
- new market entrants
- safety standards
- scientific publications



what new soda flavors are launching this month?



Searched 2 sites

2 web pages

Q "new soda flavors launching September 2024"
bing.com

GlobeNewswire — Craft Soda Drink Market to Reach \$1000.7 Million, Globally,
globe.newswire.com

This month, several new soda flavors are hitting the market. Faygo is launching a Jolly Green Apple soda in September, perfect for Halloween festivities. Jones Soda Co. is releasing a limited-edition Hatch Chile and Lime soda, combining bold flavors in collaboration with their Mary Jones brand. Additionally, Poppi is introducing a new Cherry Cola flavor, blending ripe cherry with their signature prebiotic soda twist. These exciting launches bring unique, seasonal, and nostalgic flavors to the craft soda scene this month([GlobeNewswire](#)).



Message ChatGPT



New soda flavors (USA)

Web search results for New soda flavours USA

Results

B
New Products
[Beverage industry](#)

TikTok
New Soda Flavors 2024 - TikTok
[TikTok](#)

Food
Coke Oreos and Oreo Coke Zero Hit Stores Next Month ZDNET
[Foodnetwork](#)

See more

Vetting criteria for AI
Articles that mention flavour launches, including the name of the flavour.

Results

Food
Coke Oreos and Oreo Coke Zero Hit Stores Next Month ZDNET
[Foodnetwork](#)

Wegmans
Wegmans Introduces Wonder Pop, a healthier soda...
[Democrat and Chronicle](#)

Dr. Pepper
Dr. Pepper Adds a New Permanent Flavor: Strawberries
[Yahoo](#)

See more

Table
Soda Flavours

Flavour	Brand	Number of press mentions
Oreo	Coca-Cola	12
Wonder pop	Wegmans	3
Peppermint	Pepsico	4
Spice	Coca-Cola	2

Chart
Heat-map of press mentions: new soda flavors vs US state

	New York	California	Texas	Illinois	Colorado
Oreo					
Wonder pop					
Peppermint					

63 web
pages found

21 relevant
web pages

Key data
across the
21 web
pages

Key data
visualized

How to run a Generative AI pilot project process



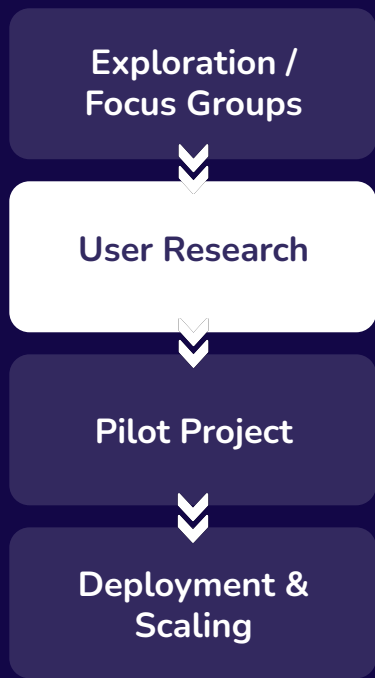


» Use cases need a champion with a gut instinct:

- **Matrix prioritization:** we don't recommend choosing use cases based on impact vs complexity.
- **Gut instinct:** Where a champion already feels "AI should be able to help with this"
- Criteria: 5x to 10x improvement or savings

Questions to consider:

- » **What is routine and voluminous?** Where are there examples of routine, intellectual desk work?
- What is the volume of these?
 - How critical are they?
 - Can you document how the work is done in a manual?
- » **Where can we upskill?:** Where can the skills (quality of output) of staff be increased?



For the use case(s) selected for development, conduct user research:

- » **Screen-sharing.** Have users share their screen and walk through how they complete the task.
 - Ask as many questions as necessary for you to do the task yourself, if necessary.
 - Record the session!
- » **Thinking out loud.** Have the users “think out loud” what they are thinking, as they complete the tasks.
- » **Data connections.** Establish where the data used for the task comes from and where it will end up.
 - Ideally there are APIs for connecting with the systems used.



How will the use case(s) be addressed?

- Does ChatGPT do it?
- Is there an existing application that can do it?
- Can you get a 5x return from a custom application?

Establish the key elements that need to be de-risked in a pilot project:

- » **LLM Prompts.** What are the prompts that will be used? How well do they work?
 - Take account of the LLM model's context (input/output) limits.
 - Start with the cheapest model.
- » **Workflow adjustments.** How operations change when tasks are done instantly, consistently and scalably?
- » **UX / Screens** for the application.



» **Not a turnkey solution.** Gen AI applications need babysitting to ensure the use case continues to fit the application.

- Expect some level of auditing and “human in the loop”

» **Expect model drift.** As new LLM models are released every 6 to 12 months, the behavior of the system may change.

- Develop a test harness to verify behavior against the new model for a range of typical inputs.

» **Contingency planning.** What happens if the system fails or behaves unexpectedly?

- Retain the knowledge/expertise used to code the system.
- Plan to prioritize and remediate the AI assisted tasks

WHAT'S NEXT Roadmap

1

Improved reasoning ability

OpenAI's 5 levels of AI

	Name	Description	When
Level 1	Chatbots	AI with natural conversation language abilities	Current
Level 2	Reasoners	AI's with human-levels of problem solving across a broad range of topics	Late 2024
Level 3	Agents	AI systems that can take actions independently or from human instruction	
Level 4	Innovators	AI that can aid in the invention of new ideas and contribute to human knowledge	
Level 5	Organizations	AI that is capable of doing all of the work of an organization independently	

2

Staff as designers of work, rather than doers of work

Let's connect!



Dino Gane-Palmer



dg@prescouter.com



[Book time on my calendar](#)

About PreScouter

PRESCOUTER PROVIDES CUSTOMIZED RESEARCH AND ANALYSIS

PreScouter helps clients gain competitive advantage by providing customized global research. We act as an extension to your in-house research and business data teams to provide you with a holistic view of trends, technologies, and markets.

Our model leverages a network of 4,000+ advanced degree researchers, industrial experts, engineers, and analysts across the globe to tap into information from small businesses, national labs, markets, universities, patents, startups, and entrepreneurs.

CLIENTS RELY ON US FOR



Innovation Discovery: PreScouter provides clients with a constant flow of high-value opportunities and ideas by keeping you up to date on new and emerging technologies and businesses.



Privileged Information: PreScouter interviews innovators to uncover emerging trends and non-public information.



Customized Insights: PreScouter finds and makes sense of technology and market information to help you make informed decisions.

MOMENTIVE

NETFLIX

PEPSICO



Kimberly-Clark

BAUSCH+LOMB



Carlex



ESTÉE LAUDER COMPANIES

lyondellbasell

Reckitt Benckiser

DUPONT

DOW

BASF
We create chemistry

P&G

Whirlpool CORPORATION

EVONIK
KRAFT FÜR NEUES

DART

BAE SYSTEMS
INSPIRED WORK



500+

CLIENTS
WORLDWIDE

VISA

TATE & LYLE

5,000+

RESEARCH REPORTS
CREATED

Tetra Pak®
PROTECTS WHAT'S GOOD

Micron

150,000+

HOURS OF RESEARCH
COMPLETED FOR CLIENTS

Parker

Energizer

PRESCOUTER