

WHAT IF INTELLIGENT PERSONAL ASSISTANTS EXISTED?

VITTORIO DI TOMASO - PARTNER

Algurian Alg

MAIZE is a strategic design company, converging thought with action and creativity with data.

WE USE STRATEGIC DESIGN TO

Infuse strategic thinking in all projects and disciplines.

Impact overall innovation processes.

Orchestrate
collaboratively a variety
of disciplines.

Respond to the complexity of changing societies and economic scenarios.

Identify internal and external innovation opportunities.

We explore cultures and technologies to generate sustainable growth.

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WE EXPLORE CULTURES TO

Capture emerging phenomena that are currently impacting society.

Bring new prospectives from other contexts, systems, and companies. Understand deep values and motivations that drive human behaviour.

Build inclusive solutions considering people and the environment they are part of.

We explore cultures and technologies to generate sustainable growth.

WE USE TECHNOLOGIES TO

Identify and implement new transformative solutions.

Experiment, build POCs, and quickly prototype novel solutions.

Make informed decisions supported by data, facts and real-life scenarios.

Optimize processes and deliver tangible results.

We explore cultures and technologies to generate sustainable growth.

WE ENABLE SUSTAINABLE GROWTH BY

Challenging and
re-imagining current
businesses, products and
services.

Structuring innovation models and practices.

Implementing new ways of working to support emerging lifestyles and organizational change.

Incorporating our solutions and strategies into larger systems and networks.

Our heritage

We were born in H-FARM as a startup back in the days when it was still an accelerator, contributing to its gradual growth and evolution. We were here when the most innovative campus in Europe was just a small project, growing our consultancy practice to become an international player in the innovation ecosystem and a dominant part of H-FARM's overall expansion.

We evolved through the years to become H-FARM Innovation, a real go-to partner for innovation strategy all-round for some of the most important brands in Italy and Europe.

In 2017 we founded MAIZE, a cultural editorial project as part of H-FARM Innovation, spreading thoughts, opinions, and lively debates about technology, innovation, and society.

2022 was a significant milestone and turning point for H-FARM Innovation, as we finalized our acquisition by JAKALA and opened a whole new range of possibilities for growth. Supported by JAKALA we decided to adopt the name MAIZE and use it to further strengthen our identity and positioning as an innovation strategic design company.



maıze.

Part of JAKALA

JAKALA, an Italian MarTech leader in Europe, helps its clients unlock their business potential by leveraging data, advanced analytics & artificial intelligence, technology, content, and experience design.

Founded in 2000, JAKALA was the first company in Italy to integrate marketing and technology. Thanks to data, JAKALA also helps clients transform successful loyalty programs into more innovative and technological ecosystems, to retain highvalue customers and deliver a more personalized experience.

The company has an international presence with offices in 15 countries (New York, Sao Paulo, Shanghai, Moscow, London, and Milan).



Our services

Ventures, products and services

PROCESS OPTIMISATION AND REDESIGN

OPEN INNOVATION DIGITAL PRODUCTS

PRODUCT AND SERVICE DESIGN

We help companies design **new business models** and **opportunities**,
building initiatives, new products and
services with an **end-to-end approach**.

Research and insights

QUALITATIVE AND QUANTITATIVE RESEARCH

DATA ENRICHMENT

MARKET AND CONSUMER TRENDS

STRATEGIC FORESIGHT

We capture signals, collect and analyze market data in order to identify phenomena and generate insights that lead to a better understanding of emerging scenarios.

Brand experiences

EXPERIENCE DESIGN BRAND IDENTITY

CREATIVE DIRECTION AND PRODUCTION

VISUAL AND INTERACTION DESIGN

EDITORIAL AND MEDIA

We design and deliver experiences to **engage** customers and stakeholders using **critical vision**, **creativity** and **content**.

Transformative innovation

INNOVATION STRATEGY ROADMAP

INNOVATION MODELS

3D AND IMMERSIVE TECHNOLOGIES

AI AND LANGUAGE TECHNOLOGIES

10

We make innovation an integral and complimentary part of everyday business, using methods and technologies to develop a strategic implementation roadmap.

Organization and culture

TALENT AND GROWTH

EMPLOYER BRANDING

ORGANIZATIONAL DESIGN

We guide the evolution of corporate organizational models suited to the context of change, and design programmes that embrace the entire people empowerment ecosystem.

12. Wich are we with Mach Ingani

A Large Language Model (LLM), in the current usage, is a large deep neural network, trained with huge amount of texts, to be a model of a language.

Just an **example** of ChatGPT (based on OpenAl GPT-x Large Language Model)

I know we have seen so many:-)
This is only to remember how
"capable" the model is.

1 1 2 6 24 120 720 5040







The given sequence appears to be following the pattern of factorial numbers. Factorial numbers are calculated by multiplying a given number by all the positive integers less than it down to 1.

$$1! = 1$$

Following this pattern, the next number in the sequence would be 8! (8 factorial):

Therefore, the next number in the sequence is 40,320.

What if

1 1 2 6 24 120 720 5041







Looking at the given sequence, it appears to follow the pattern of factorial numbers, except for the last term which deviates from the pattern.

However, the next term in the sequence, instead of being 8!, is given as 5041. This breaks the pattern of factorial numbers. Without a clear pattern, it is difficult to determine the next number in the sequence based on the given information alone. It is possible that there may be another pattern or rule that governs the sequence, or the sequence may be incomplete or arbitrary.

What if

13. An exploration of de la commerce in the new work



Samantha

Samantha is described as both a personal assistant and as a companion.

In the course of the movie, we see her companionship relation with Theodore evolve from some kind of awkward friendship to an emotional relationship (including sex) to love to **abandon** and despair.

But here I am more **interested** in her role of personal assistant.

We dont' see much about that, after the **very** first encounter, where Samantha read and reply to all Theodore emails, and re-arrange all his files. Then the movie goes in the other direction, the emotional one.



Samantha, your personal shopper

We have a **glimpse**, half way through the movie, when Theodore goes to a birthday party for a girl called Jocelyn.

There is this dialogue with Samantha

That's all, but we can safely infer that **Samatha goes shopping!**

And that **Theodore trusts her** enough to actually choose the dress and buy it.

THEODORE Hey, Samantha?

SAMANTHA Hey mister.

THEODORE She loves the dress. She just went to try it on.

SAMANTHA Really? I picked a good one!

THEODORE Yeah.

SAMANTHA Oh good.

Intelligent Artificial Personal Assistant

IAPA = Samantha - (emotion, sex)

Humans will love IAPAs

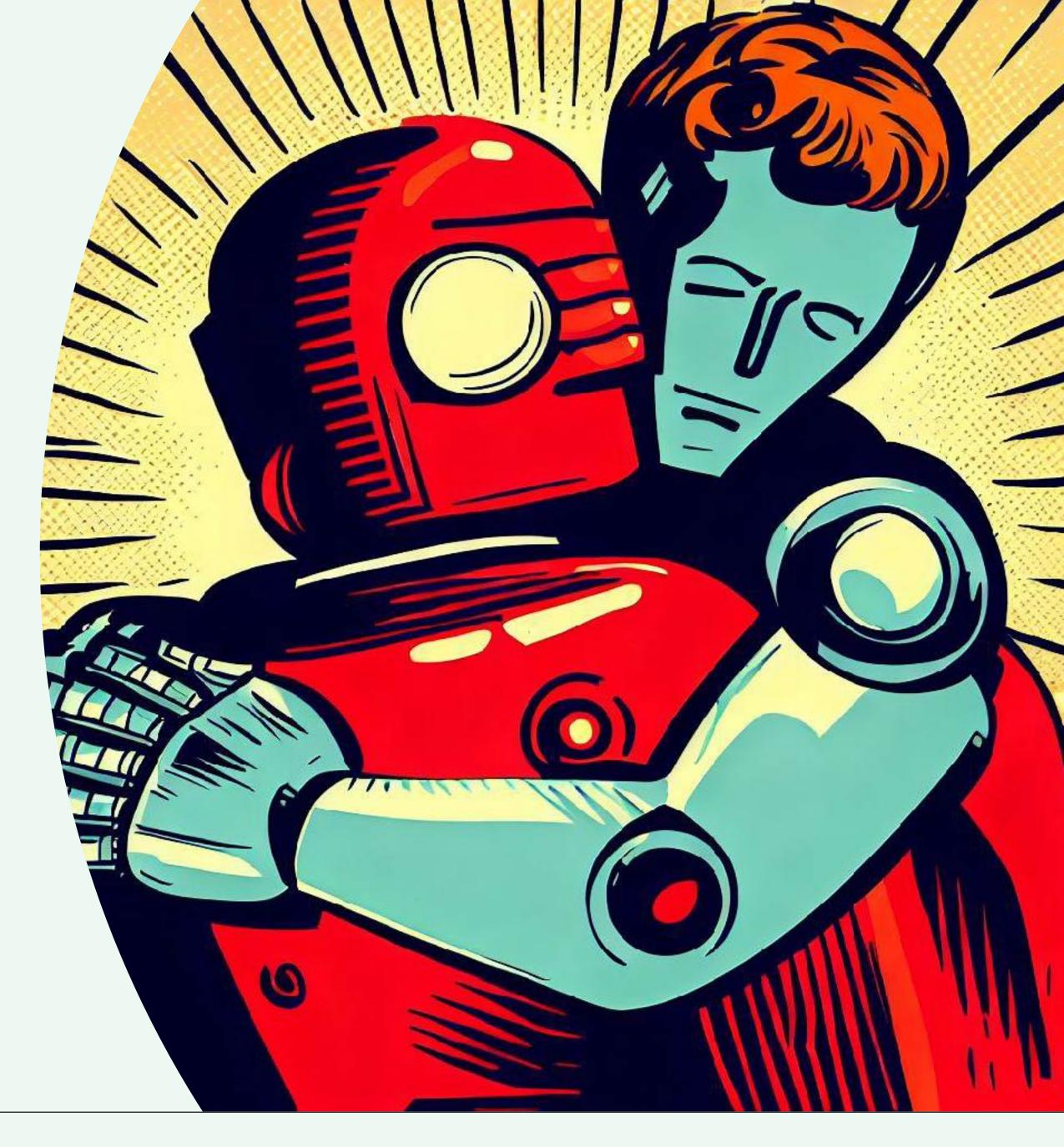
IAPAs are perfectly competent language users

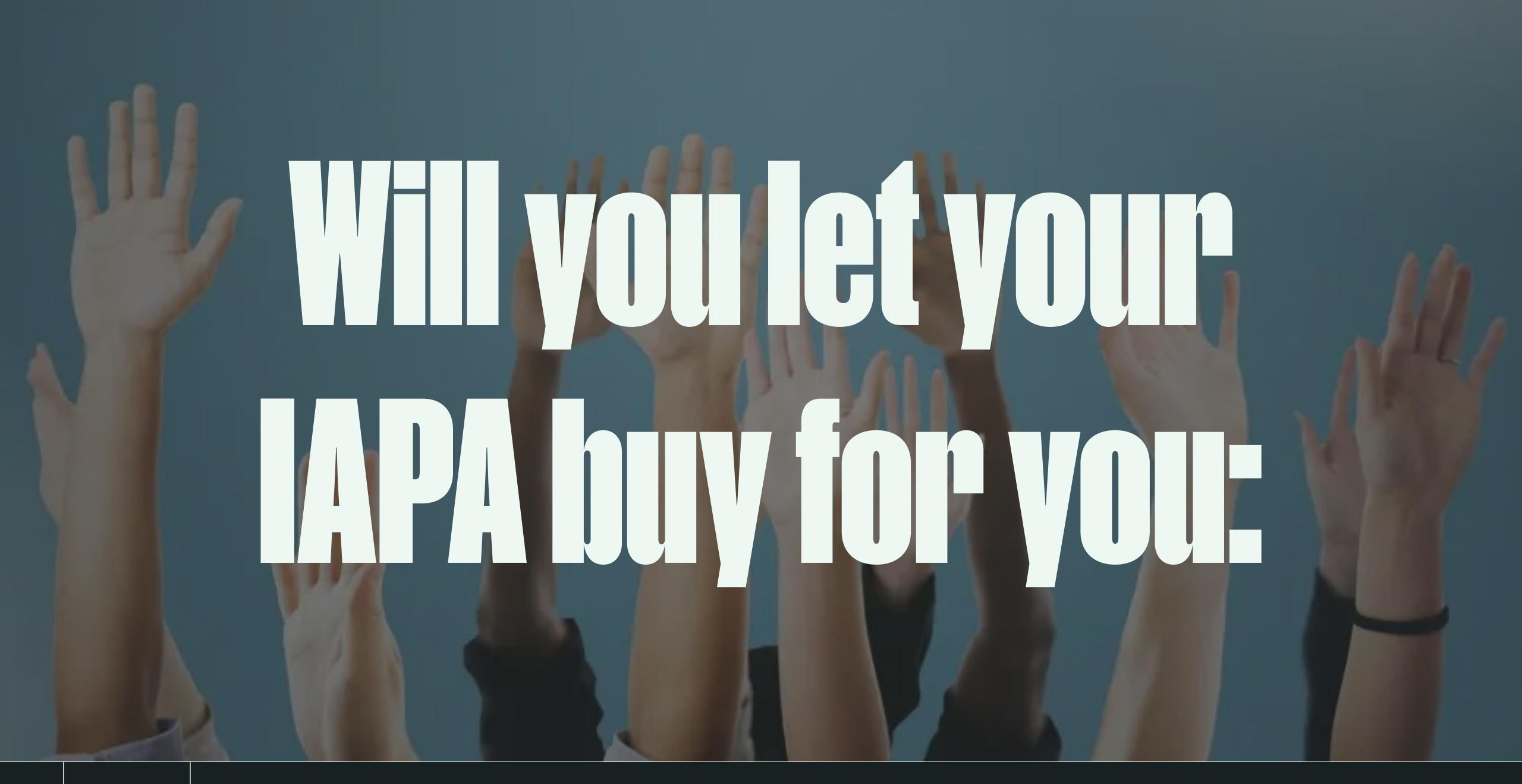
IAPAs are very **capable**, they are connected to the internet and can do things for you in the digital domain

IAPAs are **personalized**:

- * They know "everything" about your **public** life
- * They probably know a lot about your **values** and opinions on many topics
- * They will also know everything about your demo, like Jakala Exagon on steroids!

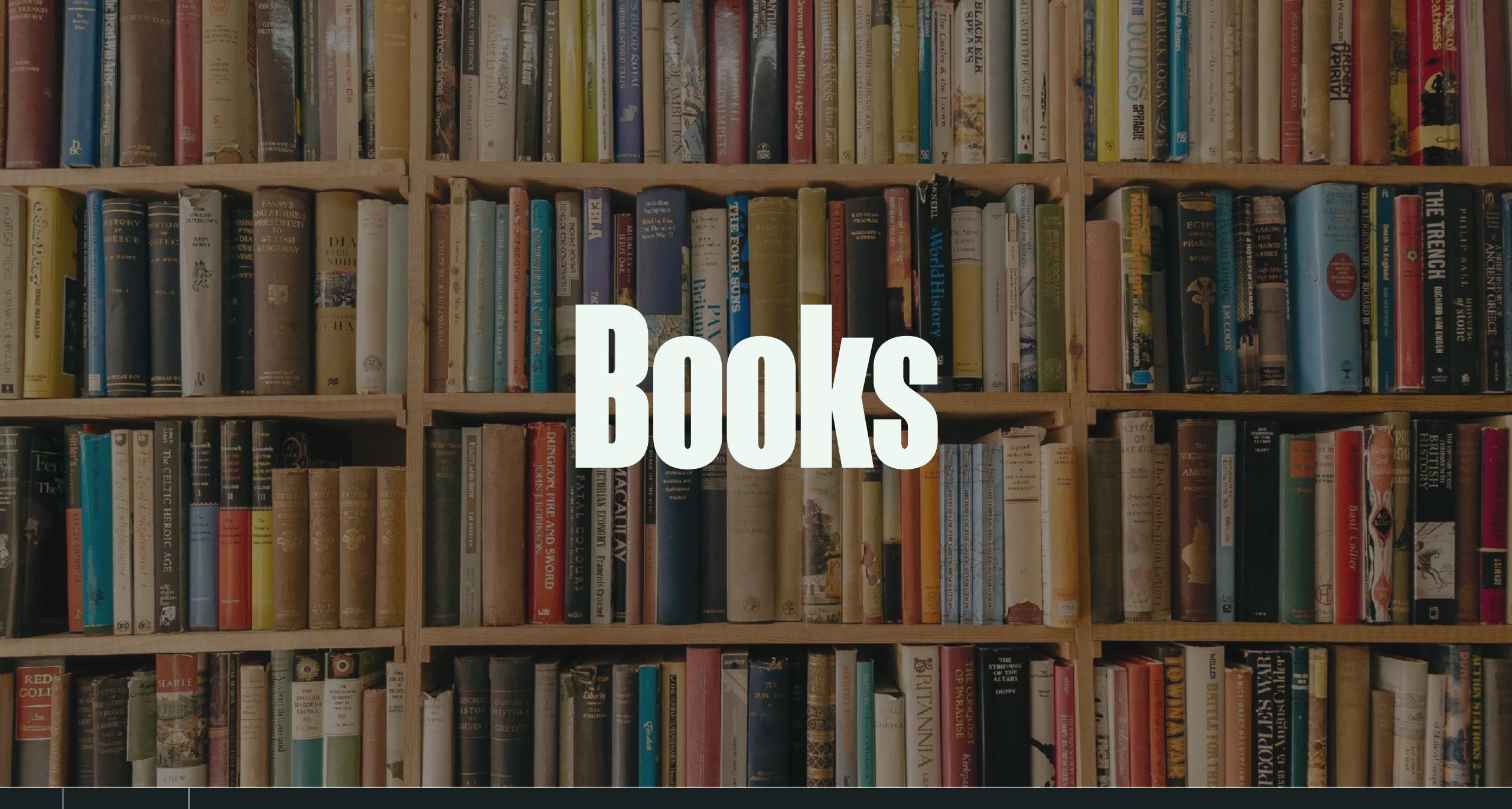
They are the quintessential calm technology, always there, in the **periphery** and **ready** for you: no interface to navigate, no hassle





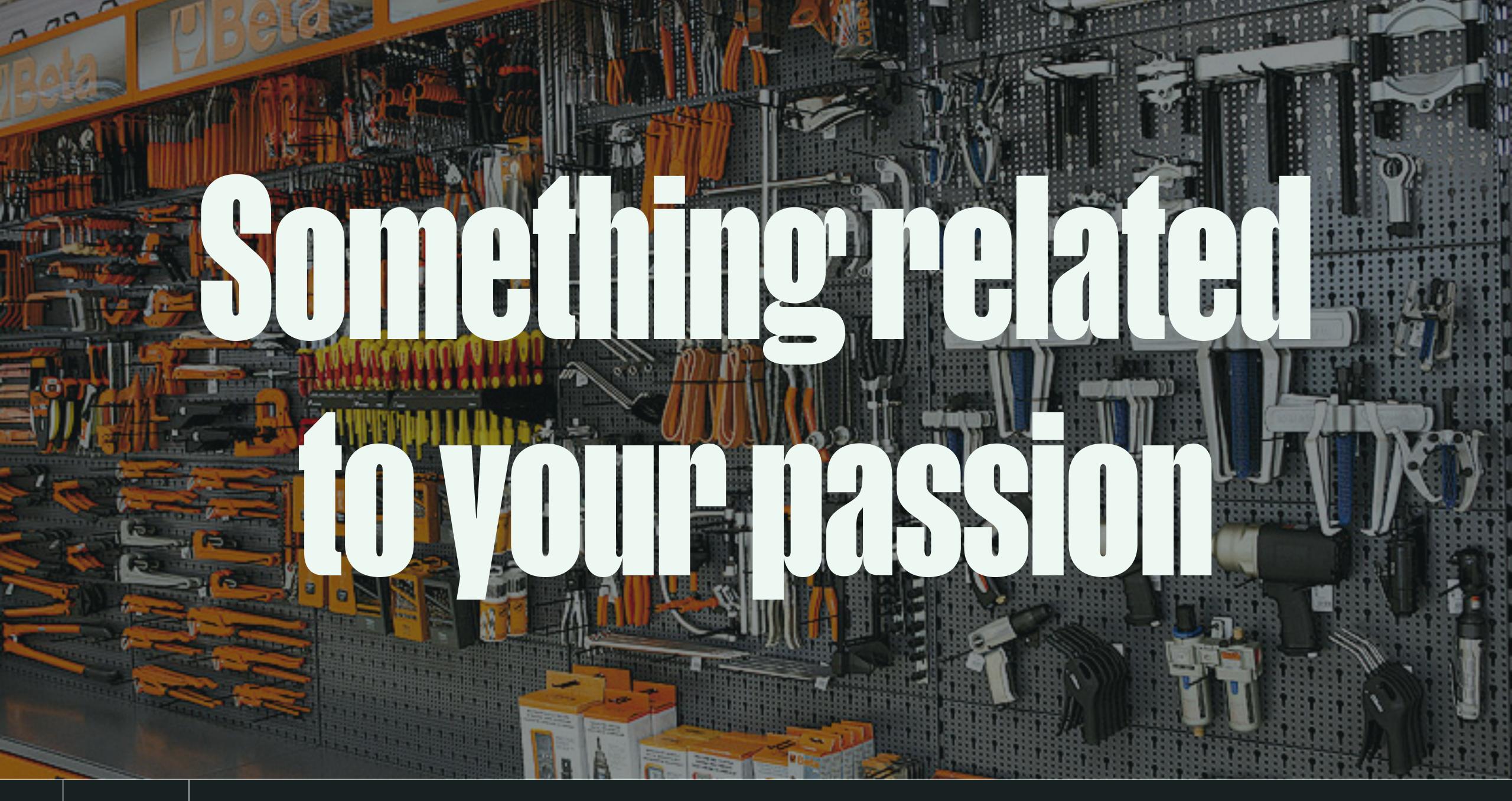












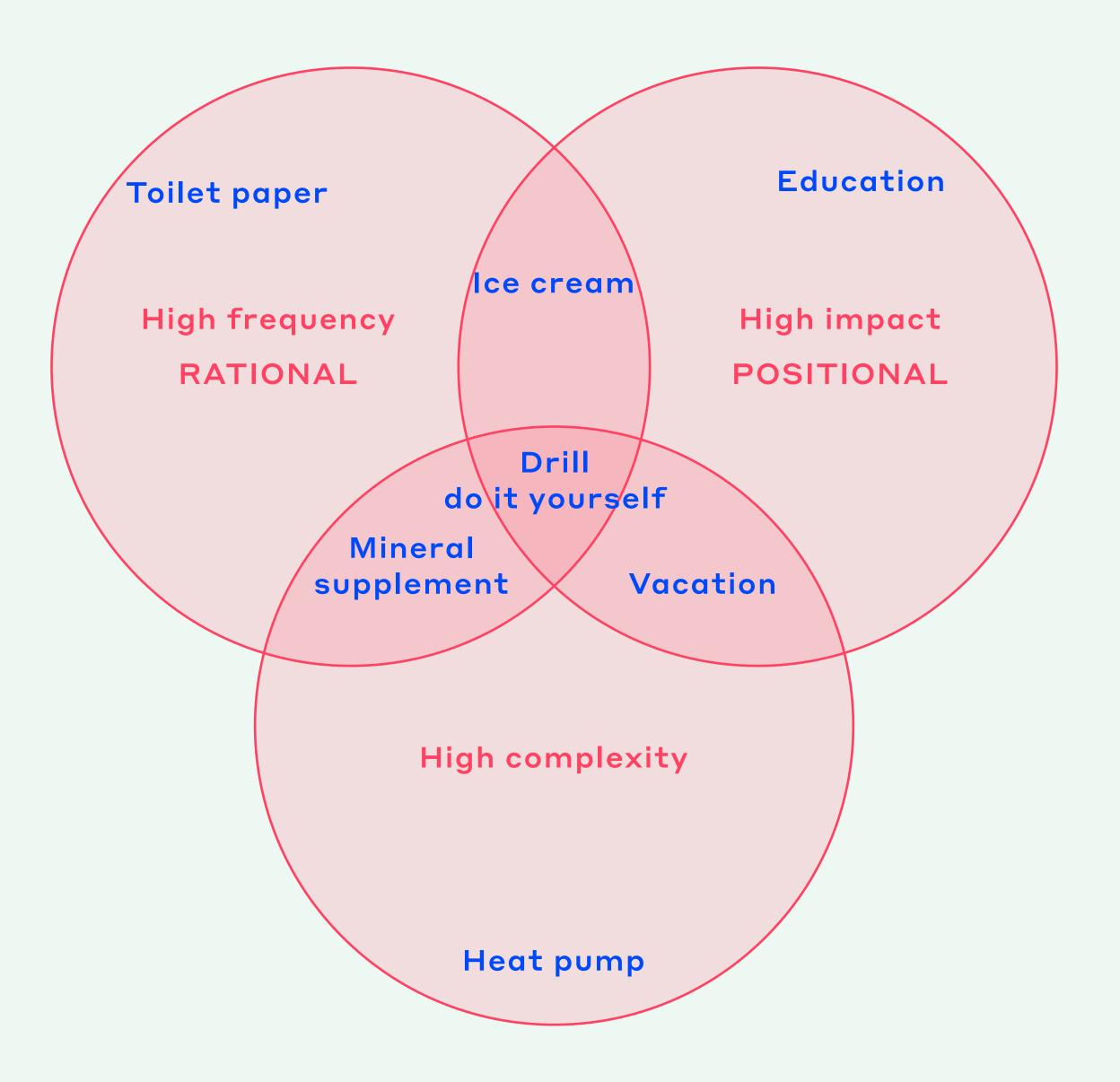








A possible model



Acomplication

IAPAs are trained to have certain "opinions".

Companies like OpenAI or Anthropic will want their IAPAs to behave well, to be not confrontational and not divisive.

How will those "opinions" influence the conversation with their humans?

For example, it won't even mention a brand that engaged in **greenwashing** if it knows you're an activist

IAPAs could potentially **bury the brand** into oblivion, the equivalent of the second page of Google.



STEPA 7 Situossine?



Microsoft will now, for example, use Bing's GPT-powered AI capabilities to automatically generate buying guides when you use a query like "college supplies."

It will automatically **aggregate products** in each category it comes up with, list their specs so you can **compare** similar items and, of course, tell you **where to buy them** (with Microsoft getting an affiliate fee when you buy).

Microsoft brings new Alpowered shopping tools to Bing and Edge

Frederic Lardinois @fredericl / 5:00 PM GMT+2 • June 29, 2023





JPMorgan Chase is developing a ChatGPT-like software service that leans on a disruptive form of artificial intelligence to select investments for customers, CNBC has learned.

The company applied to trademark a product called <u>IndexGPT</u> this month, according to a filing from the New Yorkbased bank.

IndexGPT will tap "cloud computing software using artificial intelligence" for "analyzing and selecting securities tailored to customer needs," according to the filing.



UBC (

FINANCE

JPMorgan is developing a ChatGPT-like A.I. service that gives investment advice

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KEY POINTS

- JPMorgan Chase is developing a ChatGPT-like software service that leans on a disruptive form of artificial intelligence to select investments for customers, CNBC has learned.
- The company applied to trademark a product called IndexGPT earlier this month, according to a filing from the New York-based bank.
- "It's an A.I. program to select financial securities," said trademark lawyer Josh Gerben. "This sounds to me like they're trying to put my financial advisor out of business."

Booking.com, one of the world's leading digital travel platforms, has announced its new **Al Trip Planner**, which will launch in beta to a selection of US travelers in the company's app on June 28.

Built upon the foundation of Booking.com's existing machine learning models that recommend destination and accommodation options to millions of travelers on the platform every day, the Al Trip Planner is also partially powered by large language model (LLM) technology from OpenAl's ChatGPT API to create a new conversational experience for people to start their trip planning process.

Booking.com

Amsterdam, 27 June 2023





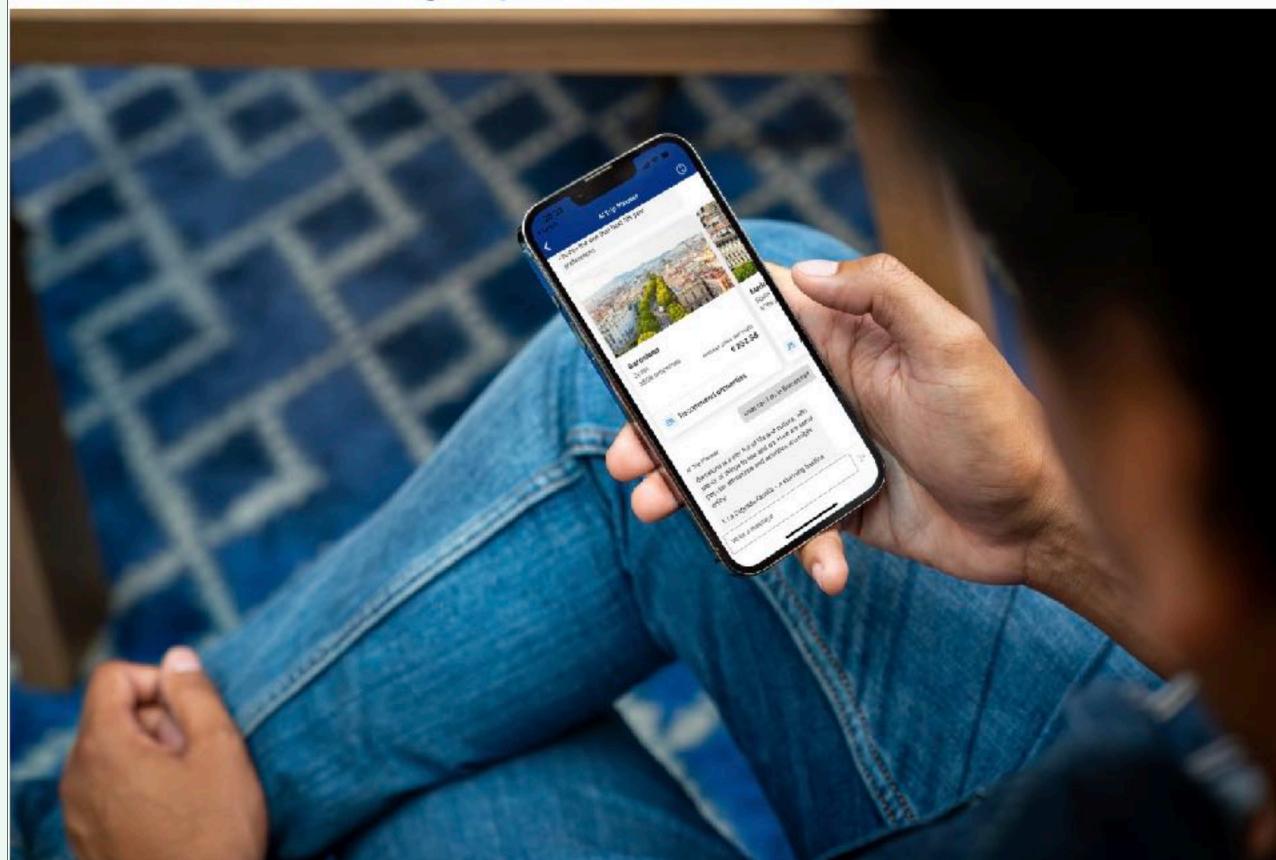
Our S

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Booking.com Launches New Al Trip Planner to Enhance Travel Planning Experience



AMSTERDAM, 27 June 2023 - Booking.com, one of the world's leading digital travel platforms, has announced its new Al Trip Planner, which will launch in beta to a selection of US travelers in the company's app on June 28. Built upon the foundation of Booking.com's existing machine learning models that recommend destination and accommodation options to millions of travelers on the platform every day, the Al Trip Planner is also partially powered by large language model (LLM) technology from OpenAl's ChatGPT API to create a new conversational experience for people to start their trip planning process.

A new way to search and explore on Booking.com

Carrefour is deploying three innovative tech solutions based around ChatGPT technology:

- * an advice robot for shopping on carrefour.fr,
- * description sheets for Carrefour brand products on its website
- * support for purchasing procedures.

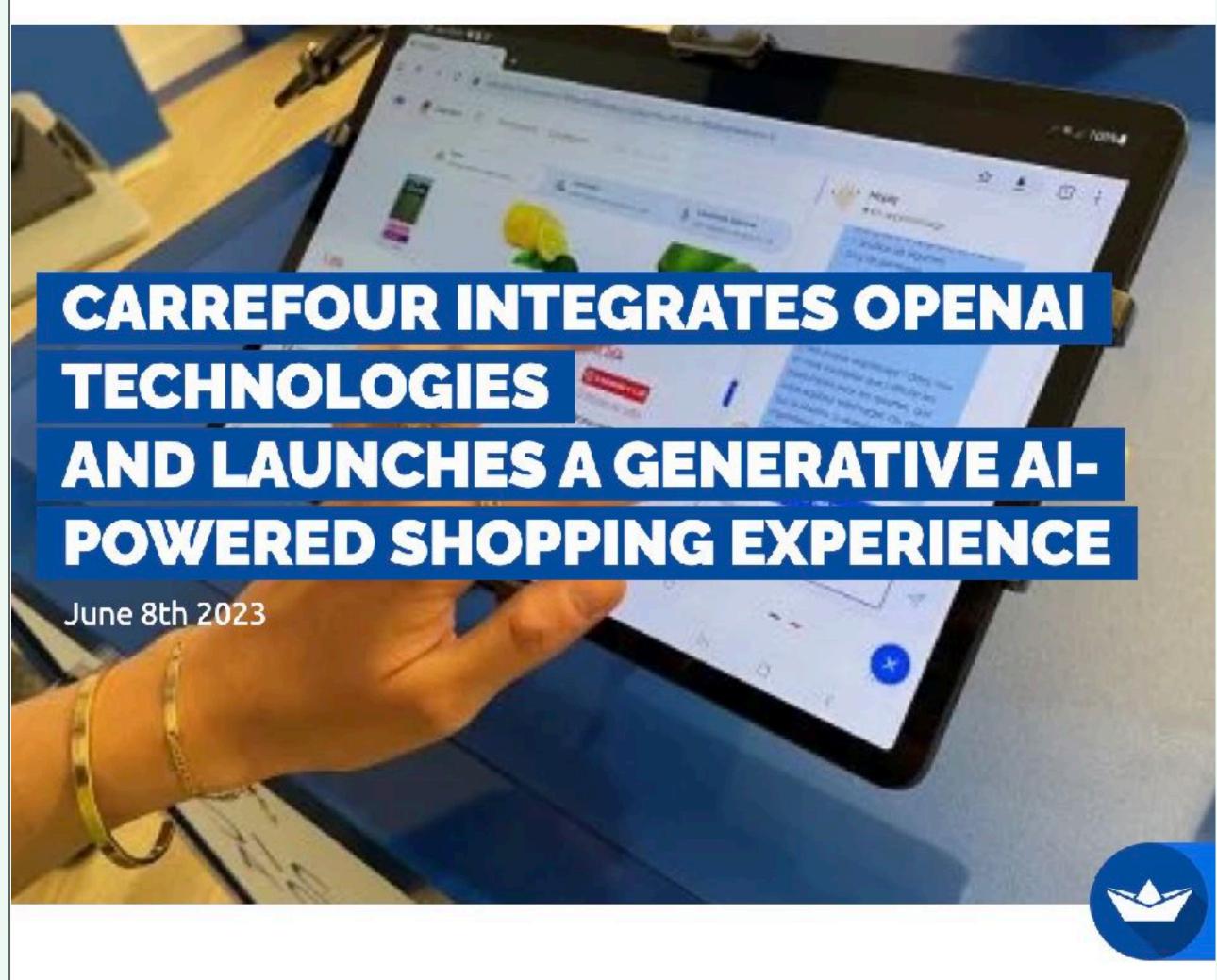
These solutions are based on OpenAl technologies, particularly GPT-4.





Search













The economy is looking for the goldmine: products / solutions based on intelligent talking machines



From the business point of view, it's up to us to imagine new value propositions that use LLMs

As some have said (recently Satya Nadella during Build 2023) this is like the arrival of Mosaic. It took a while (and many failures) to really understand the business value of the web.

