

daphni  
Retail Tech Trends  
2024-25



















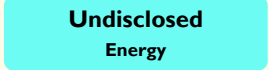

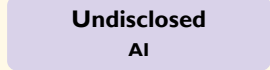
Since its inception, Daphni has pledged to support startups that are redefining the way we produce, distribute goods and services and consume.

In 2022, we reinforced this commitment by launching **Dastore**, an €80 million fund aimed at globally financing entrepreneurs and innovations that are shaping the future of retail.

Over the past two years, we've backed 18 incredible teams across six countries: France, Germany, the UK, Sweden, the US, and Brazil, with the support of +100 experts.

This report is an opportunity for us to reaffirm Dastore's commitment to supporting the visionaries in our ecosystem and, above all, to emphasize our convictions regarding the forthcoming transformations in retail: largely dominated by an expected adoption of AI, but not only that...

Dastore Portfolio

Team's other deals in the Future of Retail



## Our top 10 key Retail trends

1. Market research & customer insights
2. Introducing AI in procurement
3. Hyper-personnalisation in customer services
4. From social apps to super apps
5. Material discovery & new packaging
6. Is backing the Shopify ecosystem still a VC play?
7. From specialized robots to polyvalent humanoids
8. Optimizing energy consumption
9. Bringing AI to content creation
10. Traceability in supply chains



01



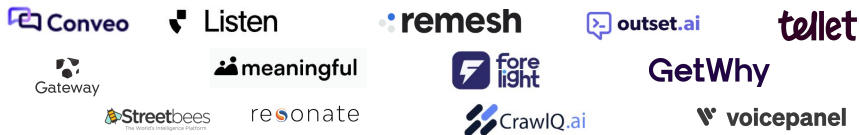
# Market research & consumer insights





## AI customers interviews

### Conversational AI assistant for qualitative interviews & Gen AI Market Research



### Synthetic data driven insights & digital customers twins



## Market intelligence solutions



## Customer Feedback management

### Surveys & Customer feedbacks collections



### QA, Insights & CS Coaching





**AI enables brands and retailers to gather deeper consumer insights faster and at scale**, supporting informed business decisions. Cost-effective alternatives to traditional market research methods, like focus groups and interviews, are emerging.

### AI-powered Survey & Qualitative Research

Qualitative research, traditionally time-consuming and costly, is now faster and scalable through AI tools analyzing text, voice, and video. These tools transform unstructured qualitative data into quantifiable insights that integrate seamlessly into larger datasets. Similarly, AI-driven surveys have become more sophisticated, improving data collection efficiency.

### NLP-driven Sentiment Analysis

Advances in NLP now allow businesses to analyze vast open-ended responses in surveys and reviews, offering better insights into customer sentiment and trends. Enhanced sentiment analysis tools accurately capture emotions, preferences, and pain points, even recognizing nuances like sarcasm and context.

Looking ahead to 2025, **AI-moderated interviews will become a commodity, with the real innovation focused on synthetic data and customer digital twins**. Emerging models must refine proprietary databases to deliver clearer ROI and build defensibility.

## Companies to watch out for



**Human simulation platform to predict consumer behaviours with AI models**



**Market research platform based on human-like AI participants**



**Providing real-time information about product, markets, & competitors status**



@ Semilattice

*"Traditional research methods are all solutions to the problem of not being able to query and observe people at scale. This problem goes away if you can computationally generate people and observe their behaviour in software. AI will accelerate and expand the reach of traditional research methods, but the more interesting question is how research should be reinvented now that it's been freed from these traditional constraints."* **Joseph Wright Co-Founder & CEO @Semilattice**

02



# Introducing AI in Procurement





# Introducing AI in Procurement

## Approval Workflows

## Vendor Management

## Inventory Planning

## Sourcing

## Negotiation Platform

Indirect purchases

Omnea    pivot    coupa  
 Payflows    najar    procurify  
 ZIP    Flowie    tropic

Fregens PACTUM  
 tropic

Direct purchases

permut    solutions    Anaplan    PIGMENT    Prediko    coupa  
 PEAK    RELEX    flowlity    Flieber    ZYCUS  
COGNITIVE SOURCE TO PAY    GEP

ida    Afresh

Wonnda    KWAYGA  
 Torg    TRIDGE  
 kheops  
 LightSource





# Introducing AI in Procurement



In early 2024, "procurement" became the magic word in tech circles, with startups like Pivot, Payflows, Omnea, securing tens of millions of euros in funding at valuation multiples that put 2021 to shame.

This frenzy was fueled by several factors: the undeniable success of Coupa or Zip, companies' relentless drive to gain tighter control over costs, and a massive, underserved market crying out for flexibility. Traditional ERP systems, with their clunky interfaces and rigid frameworks, having failed to keep pace, often proving too costly or inadequate in meeting modern demands for automation and AI integration.

### The buzz around procurement in 2024 wasn't just a hype.

AI's influence in the space stretches far beyond mere productivity. It's all about enhancing **supplier selection** with smarter data insights, optimizing **inventory management**, and tightening up **compliance and contract processes**. Predictive analytics powered by AI are giving companies a strategic edge, allowing them to foresee and react to demand shifts with agility. Moreover, AI is crucial in **risk management**, offering foresight into potential supply chain hiccups before they turn into full-blown crises, ensuring smooth and continuous operations.

**Challenges remain for CPOs** : 21% say their data infrastructure maturity is low, with less than 70% of spend data stored in one place. While an additional 30% think they have average levels of data maturity. (Mckinsey 2024)

### Companies to watch out for

**Prediko**

Raised  
+\$6M



Raised  
\$3M



**pivot**

Raised  
\$27M



**Freqens**

Raised  
\$3M



*"AI is transforming procurement from a back-office function into a strategic growth enabler. From automating routine approvals to predicting supply chain disruptions and optimizing supplier negotiations, AI-driven solutions are giving companies unprecedented control and agility. Companies adopting AI gain a competitive edge, while those sticking to outdated systems risk obsolescence"* **Mateo Beacco, CO-Founder & CEO @Ida**

03



# Hyper-personnalisation in Customer Service





## Smart Shopping Assistant, Customer Engagement and Personalization

### Search optimisation & personalized recommendation tools



### Social Media & Whatsapp



### Email



## Ticketing management solutions

### CS Automation



### Voice CX





**GenAI has redefined how brands interact with their customers; allowing them to offer greater seamless and hyper-relevant online experiences, and thus improve conversion, engagement and customer satisfaction.** The driving force behind these solutions is foundational LLMs. Key GenAI-powered opportunities that are taking the online customer experience to the next level:

**Smart shopping assistants on merchant websites**, providing customers with tailor-made advice and personalized recommendations, offering an equal if not superior level of service and personalization to the in-store experience, 27/7.

**One-to-one conversational tools on social media** enable greater personalization in brand-customer interactions by engaging customers on the platforms they frequently use; this approach meets customers in their 'natural habitat,' adapting to their habits and preferences.

**Ticketing solutions** empowering sales and support agents with LLMs to provide faster and more accurate responses. By automating a substantial portion of ticket handling, these solutions reduce the workload for agents, allowing them to concentrate on tickets with higher added value.

However, it seems that brands & retailers are not ready yet to automate 100% of the customer service. Indeed, as it could have a strong impact on engagement and retention, they want to keep control over this highly strategic area. At this stage, they are especially looking for co-pilot tools optimizing existing processes.

## Companies to watch out for



**Verticalized AI conversational platform to boost sales & marketing, on industries with complex products**



**AI for customer support made for e-commerce businesses**



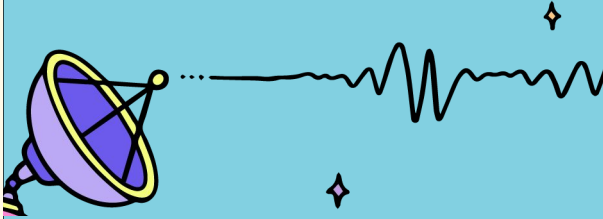
**Building a personal conversation between brands and consumers on Whatsapp**



Autodm AI

*“B2C companies with complex products turn to us to revolutionize sales using Conversational AI. By asking the right questions, our technology uncovers consumer needs and matches them with the right products or services. Our customers typically see a 250% boost in lead capture and significant increases in sales conversions.”* **Philippe Wellens, Co-Founder & CEO @Autodm AI**

04



**From social apps to  
Super Apps**  
*a wave coming to the US/Europe ?*





# From social apps to super apps : a wave coming to the US/Europe ?



## Super apps have already conquered Asian markets...



... And some **US social apps** have been trying to transition into super apps in recent years to capitalize on their massive communities:



## The **TikTokShop** wave is coming

Launched in the US in Sept. 2023.  
Spain and Ireland in Dec. 2024.

**TikTok Shop is already bigger than Shein, Sephora and Qurate.**

*Impressive growth in the US with stellar metrics*

**\$35**  
AOV

**5.3**  
Transactions/Customer

**50%**  
of users using TikTok once a month have  
already made a purchase



# From social apps to super apps : a wave coming to the US/Europe ?

## The answer is probably no...

### Regulatory Challenges

Asian super-apps often grew with less regulatory oversight, particularly regarding data privacy and financial regulations, which would be hard to replicate in the U.S. or Europe.

### Cannibalization

Meta might be hesitant to consolidate Instagram and Facebook into a single app due to potential cannibalization of ad revenues across different platforms. Would be the same for any other platform.

### We don't have the "wallet" culture

We have a legacy of credit and debit card usage, which inhibits the adoption of mobile payment systems that are central to super apps. In Asia, many markets leapfrogged directly to mobile payments due to a lack of widespread banking infrastructure, which helped super apps flourish.

### Fragmented app market

In Europe and the U.S., the app market is historically fragmented with many specialized apps, each offering limited services. This fragmentation is due to the legacy of web-first services that later transitioned to mobile, unlike in Asia where mobile-first strategies allowed for the integration of diverse services from the beginning.



### .. for now ?

Even though TikTok may face a ban in the U.S./Europe at any time, the breakthrough of TikTok Shop is a significant phenomenon that validates the ability of apps that capture users' attention to convert purchase intentions. With Elon Musk in the U.S. government, we can expect a relaxation of regulatory constraints, which could pave the way for U.S. apps.

## Our Bet ?

**A certain "app fatigue" along with the development of AI agent suites justifies the relevance of having a single application** that covers multiple needs. Moreover, European and US consumers need to be reassured about how their payment data is handled, thus placing all actors controlling financial flows in the best position to build a 'super app'-like platforms.

### Potential winners



**Klarna**

**Revolut**



05



Material discovery  
& new packaging







# Material discovery & new packaging



## Alternative Packaging

### Seaweeds & Alge



### Wood



### Plants & Moulded Fiber



### Waste



### Mycelium & Fungi



### Other



## Discovery & Design platforms



## Quality Control





## Material discovery & new packaging



**Alternatives to Plastics:** Alt. plastics are expensive to produce and have found a market in the packaging industry, where the cost of sustainability & innovation can be redistributed to the end consumer, unlike most industrial plastic applications.

*Below are key insights into the Alt. plastics industry;*

Market Value

**\$6B**

Market CAGR

**17%**

Annual Output

**1%** of annual plastic production

**Material Discovery Platforms:** AI and ML algorithms can predict the properties of new compounds and materials based on large datasets of chemical properties at unprecedented rates. AI-driven platforms can screen thousands of potential compounds to identify those with desirable characteristics, such as strength and cost-effectiveness.

### Companies to watch out for

altrove



**Design, synthesize, and manufacture alternatives to critical materials at scale**

ENTALPIC



**AI-driven platform discovering catalysts for sustainable chemical processes**

one • five



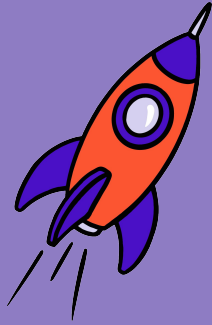
**AI-driven materials discovery and development platform accelerating the deployment of high-performance, affordable, and sustainable packaging solutions**



one • five

*“We believe the right material solution already exists; the problem is, it’s not ready for the market. Our machine learning platform discovers and assesses biomaterial innovations slumbering in research institutions. The team then transforms the most attractive solutions into market-ready products the industry will accept”* **Claire Hae-Min Gusko, Co-Founder @one • five**

06



Is backing the  
Shopify ecosystem  
still a VC play ?





# Is backing the Shopify Ecosystem still a VC play ?



**Shopify, the key player in global e-commerce that continues to gain ground**

**+\$1.0T**  
GMV since inception

**>10%**  
US e-commerce market share

**\$131B**  
Market Cap

Merchants in **+175** countries

Many leading VC backed solutions for merchants are dedicated to Shopify merchants or were born within the Shopify Ecosystem

**Marketing Automation** klaviyo yotpo.

**Subscription** SUBSCRIFY recharge

**Checkout Solutions** JUST pretty damn quick

**Customer Support** gorgias

**App builders** tapcart Appbrew

**Inventory Management** Prediko

**Intelligence Platforms** SEMA Polar Triple Whale

**Logistics** bigblue loop

In the meantime, **Shopify is developing its own applications**, which are starting to gain traction

**shop Pay**

Checkout solution for Shopify brands

**+\$175B**  
cumulative GMV  
(Since Launch in 2017)

**+\$17B**  
GMV in Q3 2024  
(+42% YoY)

**150m**  
Buyers opted-in

**shopifyplus**

Enterprise-level solution to address high-volume, international and omnichannel brands

**31%**  
of Shopify's MRR coming from Shopify Plus

**Other products:**

**linkpop**  
Shopify store integrated in your social bio

**shopify POS**  
Integrated omnichannel POS

**shop**  
Marketplace AI-boosted



## Is backing the Shopify Ecosystem still a VC play ?



Our bet ? YES it is still a VC play

**Shopify is already an essential platform in the e-commerce ecosystem, and this is unlikely to change:**

- Shopify should no longer be seen as an ecosystem for "small" brands. In 2024, the platform integrated several enterprise brands including Suntory, Harry's, Hanes, Intersport, Luxottica, AMI Paris, and others...
- The international potential is still untapped, as 80% of Shopify's revenue comes from North America
- Shopify's complete omni channel offering should allow it to address a broader spectrum of clients

**Even though Shopify develops many new features internally, we believe that Shopify will continue to encourage app development on the Shopify App Store to attract the best solutions and meet all needs.** Some key metrics about the Shopify App Store include:

- The App Store hosts over 9,700 apps
- 87% of Shopify merchants use a Shopify app
- A typical Shopify merchant uses about 6 apps on average

**We certainly view Shopify as an accelerator rather than a threat for early-stage "enablers" in e-commerce. However, we believe that at a certain level of maturity, it is important to diversify the approach and have the capability to integrate with other CMS platforms.**



*"Shopify's App Store has supercharged Prediko's go-to-market strategy. In just 12 months, we launched publicly and became one of Shopify's top inventory management apps. Today, the App Store drives a significant share of our monthly pipeline, proving its power as a platform for scaling Shopify partners like ours."* **Yuri Moskovic, CEO @Prediko**

### Portfolio companies leveraging Shopify

**JUST**

Smart checkout



**DEMA**

Intelligence Platform



**SUBSCRIFY**

Converts clients into subscribers



**Prediko**

Inventory Management Platform



07



From specialized robots to polyvalent humanoids





# From specialized robots to polyvalent humanoids



## From specialized robots ...

**Bin Diggers** **ATTABOTICS**

**AutoStore** **NOYES TECHNOLOGIES**

**ocado** **Intellistore**

**Shelf Carriers**

**amazonrobotics** **LOCUS ROBOTICS**

**PRIME robotics** **GreyOrange** **iFollow**

**Modular Robotics**

**Galam Robotics**

**Rack Climbers**

**Bionic HIVE**

**EXOTEC**

**Shelf Scanning**

**simbe badger technologies**

**bossanova**

**AI Software for Robotic Arms** **JACOBI ROBOTICS** **HEXAGON**

**inbolt** **T-robotics**

## ... to polyvalent humanoids

**VLAM / AI Brain for Robots**

**covariant** **Field AI** **t+1**

**Paddington Robotics** **TorqueAGI**

**Physical Intelligence ( $\pi$ )** **SKILD AI**

**Humanoid Hardware**

**Agility Robotics** **APPTRONIK** **UnitreeRobotics®**

**LIMX DYNAMICS** **FIGURE** **KINISI**

**Boston Dynamics** **Boston Dynamics**



## From specialized robots to polyvalent humanoids

We're observing an evolution in robotics from specialized robots, which excel at specific tasks, to versatile humanoid robots capable of performing a wide range of activities. **Humanoid robots, driven by advanced AI and LLMs, can adapt to various tasks such as picking, packing, and loading, which traditionally required multiple specialized machines.**

This adaptability allows them to seamlessly integrate into environments designed for humans (like warehouses) without extensive modifications. As these robots become more widespread, their **production costs will decrease, offering significant economic advantages over fleets of specialized robots.**

According to Bruno Maisonnier (founder of Aldebaran Robotics & Another Brain), while the development of human-robot interactions necessarily involves a humanoid version, there are still some key aspects to be unlocked before achieving widespread adoption of robots:

1. **Introducing human body characteristics to robots, such as flexibility**
2. **Giving robots the ability to understand and convey emotions**

### Companies to watch out for



**Raised  
\$854M**



Physical Intelligence ( $\pi$ )

**Raised  
\$470M**



**Raised  
\$300M**



**Raised  
\$328M**



**another  
brain**



*“To be accepted, humanoid robots must be perceived as lively and friendly, with a certain emotional intelligence, to facilitate human interaction. This will hold true everywhere, even in warehouses.”* **Bruno Maisonnier,**  
**Founder @Another Brain & Aldebaran Robotics**



08



# Optimizing energy consumption





# Optimizing energy consumption

## Optimising Energy Consumption

### EMS, Optimisation



### Next Gen BMS's



### HVAC, Refrigeration, & Cooling



## Microgrid Stack

### Storage



### Solar



### EV Station



### Markets

#### Flexibility



#### Procurement





## Optimizing energy consumption

As energy prices have returned to pre 2021 levels, the recent energy crisis has triggered global awareness, particularly among businesses where energy has become a top management priority. For retailers, the focus has shifted to energy procurement, management, and optimization. **Specifically, the increase in energy expenses for major retail players in France in 2024 was estimated at €1.5 billion.**

While introducing green energy into the mix is a potential solution, it also introduces a critical challenge: **managing intermittency.** Without the right tools, such as EMS and optimisation solutions, **what was once a predictable and stable budget for energy becomes far more volatile.** EMS solutions are crucial for providing real-time insights into energy consumption and optimizing energy usage by aligning demand with the fluctuating renewable availability.

**Also, microgrids offer dual benefits:** They allow for autoconsumption and provide the infrastructure to participate in flexibility markets and energy trading, particularly during periods of surplus generation. Retail stores have already demonstrated this potential by installing batteries and solar panels, enabling them to reduce energy costs, optimize consumption patterns, and generate additional revenue.



Voltfang

*“Energy can be costly unless you understand how to leverage the mechanisms of the market. By integrating battery flexibility into their operations, retailers can take advantage of lower costs, increased reliability, and access to renewable energy sources.”* **David Oudsandji, Co-Founder & CEO @Voltfang**

### Companies to watch out for



**Energy storage solutions using recycled electrical vehicle batteries**



**The platform for managing electrical flexibilities and demand response**



**Providing energy management, forecasting and flexibility software**

09



# Bringing AI to content creation





# Bringing AI to Content Creation



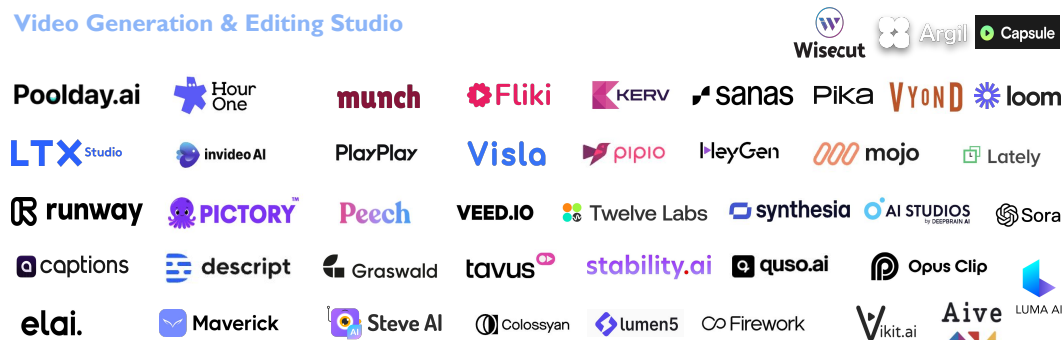
## Image Generation & Editing Studio



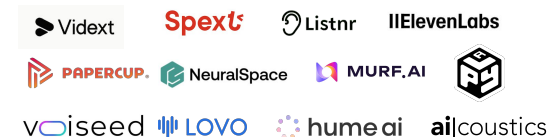
## Text & Writing



## Video Generation & Editing Studio



## Speech & Voice



## 3D



## Music





## Bringing AI to Content Creation

It would be incorrect to say that AI applied to content creation is a new trend. AI-driven content creation has become a commodity and is widely adopted by consumers. **What is new is that adoption has now progressed from B2C to B2B.** Photoroom is an excellent example: the app initially focused on a B2C approach before targeting small businesses (like thrift stores), and now it's utilized by enterprise clients such as Netflix, Shopify, and Warner Bros.

The trends we're following include:

**1. Personalization:** B2B adoption requires a personalized approach tailored to each brand's environment through training models on brand's content. Retailers are increasingly leveraging proprietary data with GenAI to ensure that generated content is highly specific and relevant to their products and customer base. In the future, we can also envision this approach being personalized for each customer, with images and content on each site generated in real-time based on the user.

**2. 3D & AR:** The integration of artificial intelligence with augmented reality is transforming the way people shop by offering deeply engaging and interactive experiences. AI-driven virtual try-on tools enable shoppers to visualize how items such as apparel, cosmetics, or furniture would appear on themselves or within their living spaces prior to buying. This innovation not only boosts consumer confidence in their choices, but also addresses a major challenge for retailers by minimizing product returns.

### Companies to watch out for

 **EMPERIA**  
 Raised +10m  


**PRESTI**  
 Raised +3m  


**Poolday.ai**  
 nd  

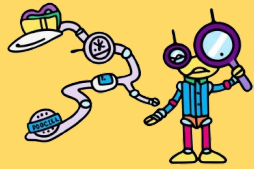

**VEED.IO**  
 Raised \$35m  




**Poolday.ai**

*"AI is revolutionizing content creation by democratizing ultra-personalization. What was once reserved for large corporations is now accessible to small businesses, giving them the tools to compete at scale, test quickly, and adapt with unprecedented precision."* **Alexei Chemenda, Founder & CEO @Poolday**

# 10



## Traceability in supply chains

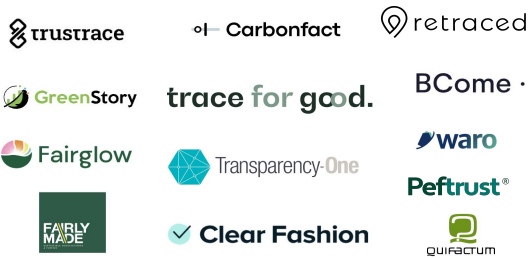




## Sustainability and compliance softwares

Verticalized players

### Apparel, Fashion & Cosmetics



### Food Traceability



### Mobility



### Manufacturing



Generalist players







## Traceability for sustainable and resilient supply chains



We've observed a great momentum in the space due to stricter ESG regulations and escalating consumer demand for transparency. Traceability is now an essential feature for modern supply chains, helping brands & retailers meet regulatory requirements, manage risks, and ensure product quality, while building consumer trust.

Advanced traceability management softwares address these challenges by integrating real-time data collection, predictive analytics, and workflow automation, enabling brands to monitor environmental impacts. First, brands can assess suppliers and materials and then compare and identify potential alternatives with lower footprints across all the life cycle phases.

As we look toward 2025, we believe the key challenge ahead lies in efficiently evaluating the environmental impact of individual products at scale. How can large-scale LCAs be conducted without privileged access to primary data? Solving this data challenge will be crucial in building more robust reporting. Some levers could be:

Simplify Data Collection

Prioritize Focus Areas

User-friendly tools

Structured Partnerships

### Companies to watch out for

carbonmaps



Sustainability Platform for the Food Industry



Enabling companies to trace, the impact of their cosmetic's



Leading traceability platform for mining and raw materials tracking



carbonmaps

“While it's true that stricter ESG regulations have lit the spark for companies to invest more into traceability and granular measurements, the most engaged and forward-thinking companies see beyond compliance. They recognize these sustainability efforts and practices as a strategic opportunity to build more resilient supply chains and differentiate themselves in the market. We're seeing this shift more and more with our clients, and we're thrilled to support them every step of the way.” Patrick Asdaghi, Co-Founder & CEO @Carbon Maps



daphni



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Paris

Certified



Corporation