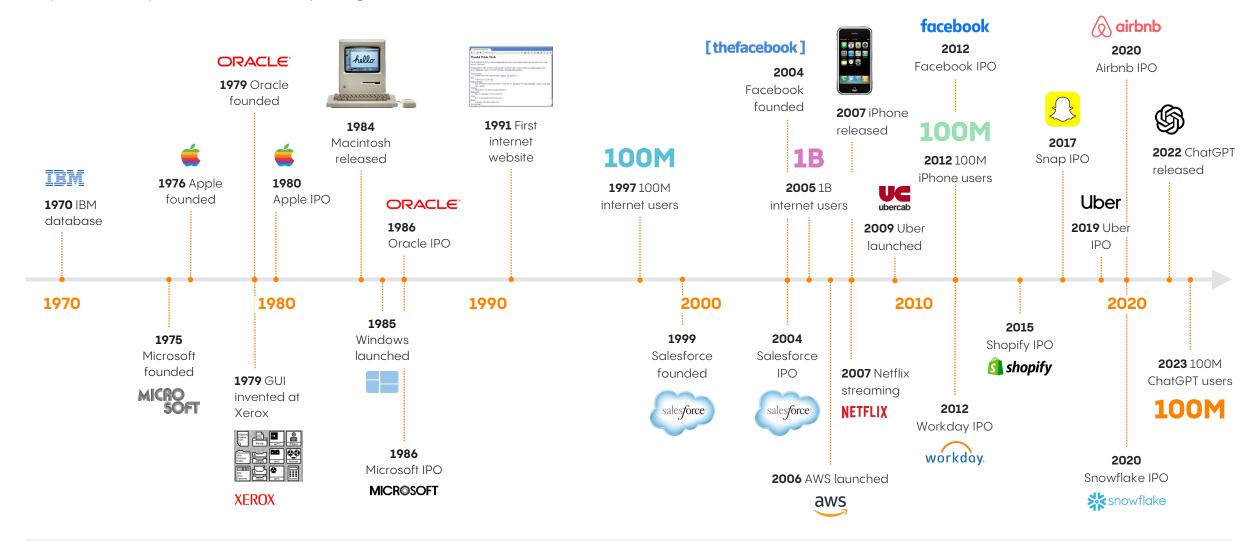


# **A Brief History of Innovation**

Key inflection points across computing, internet, cloud and mobile

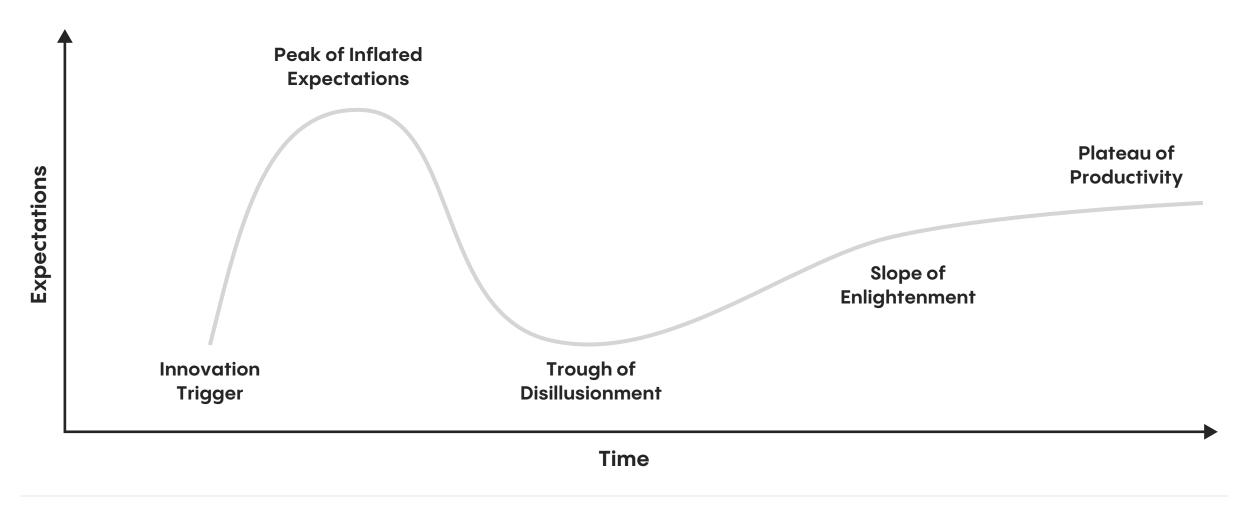


## Ingredient Technologies Spur Significant Platforms Within 3–6 Years

Year	Ingredient	Time	Mass-market innovation	
1979	GUI	3-6 years	Macintosh (1984) WINDOWS (1985)	
1991	Internet	3-6 years	[1994]	
1999	Cloud	3-6 years	servicenow (2004) workday. (2005)	
2007	Mobile	3-6 years	ubercab (2009)	
2017	ML Transformers	3-6 years	ChatGPT (2022)	
2022	ChatGPT	?		

## Though Not Without Peaks and Valleys

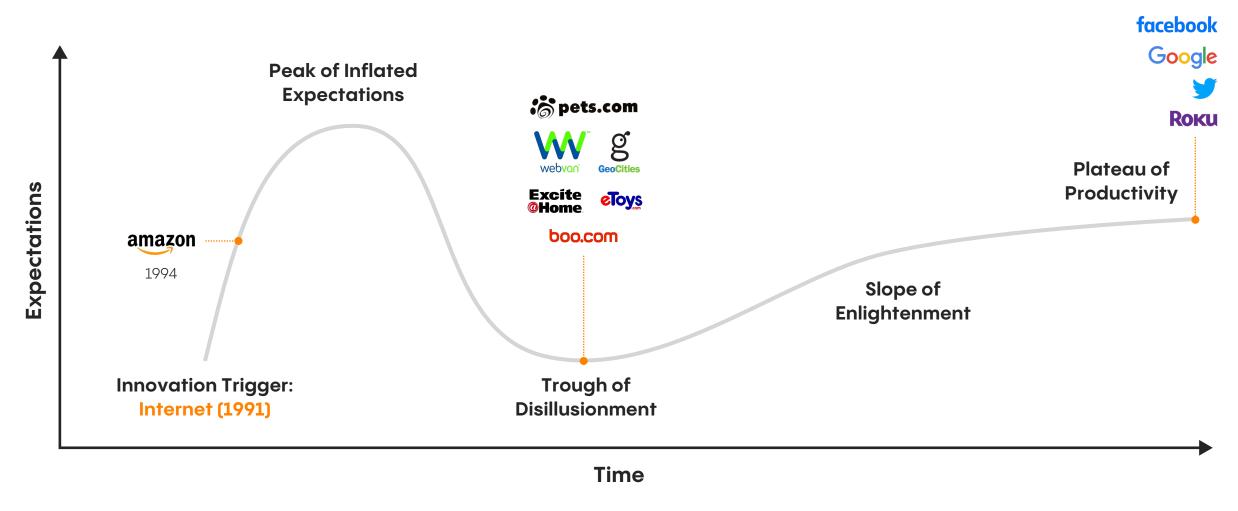
While generational companies often catch the innovation trigger early and build through the hype cycle, false positives occur before an enduring wave of value that persists for a decade-plus



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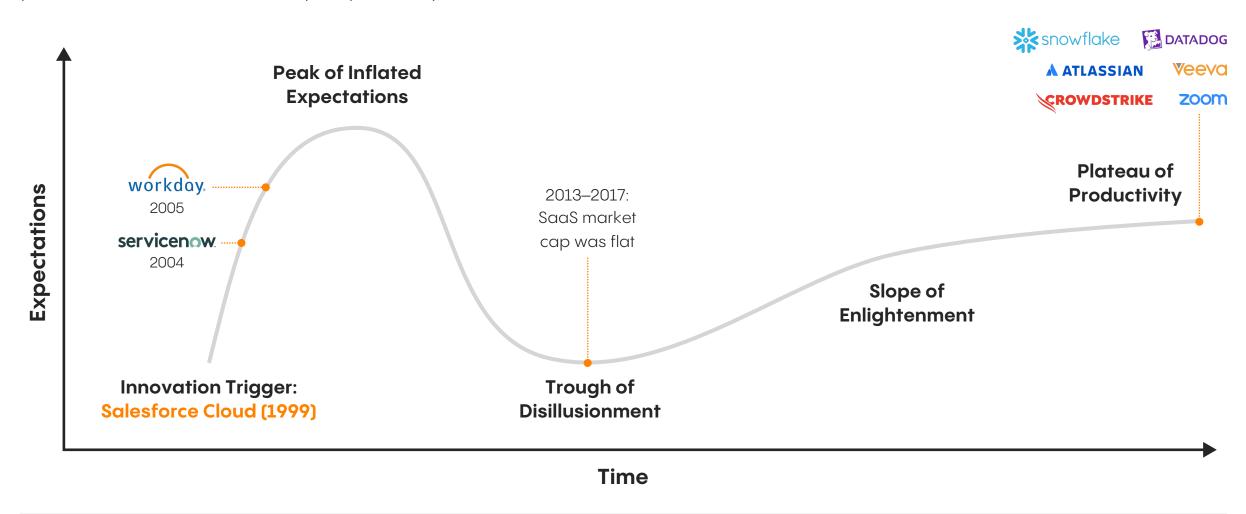
### Internet

After the first website was launched in 1991, it took until 1997 to get to 100M users, at which point there were many false-positives. These eventually gave way to enduring businesses



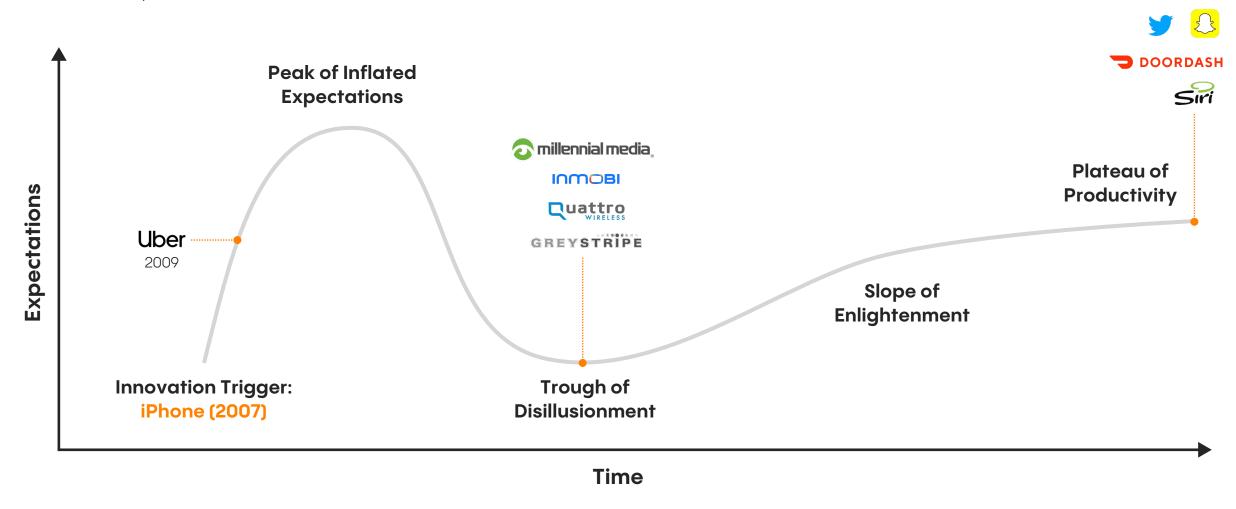
### Cloud

Cloud was a relatively slower developing technology, with early platform winners (ServiceNow and Workday etc.) followed by a quiet period before a boom that was precipitated by cloud infrastructure



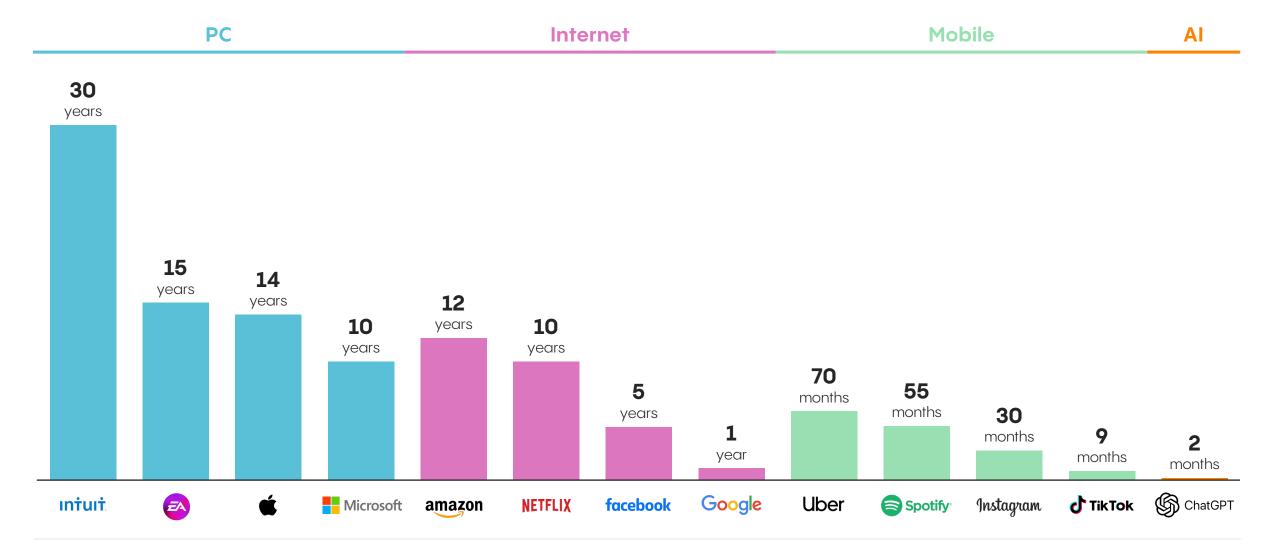
### **Mobile**

After the launch of the iPhone, many early applications in ad-networks and mobile games flamed out, while large mobile platforms were created years later



## Generative Al Growth Is in a League of Its Own

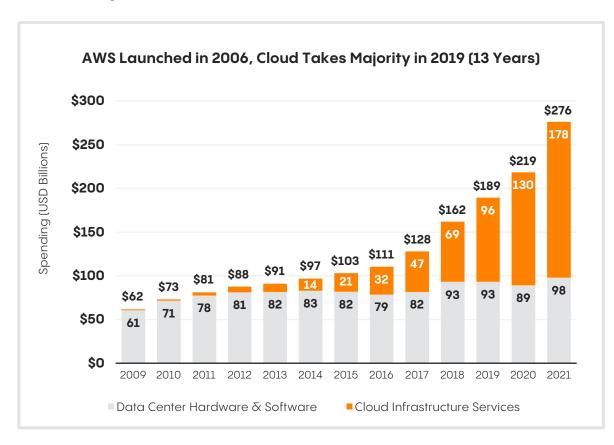
ChatGPT is the fastest ever to 100M users—things are happening on a very compressed timeline



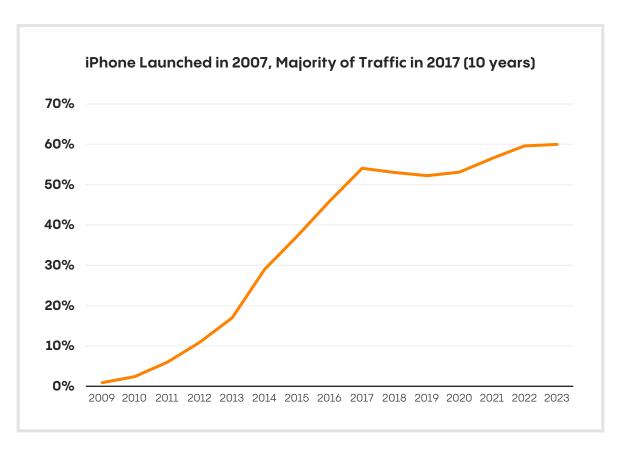
## Without the Need for Re-Platforming

GenAI can be rapidly deployed by incumbents and start-ups alike. Mobile and SaaS required fundamental platform shifts and took years to cross into the majority

#### **SaaS Displacement**



#### **Mobile Share**



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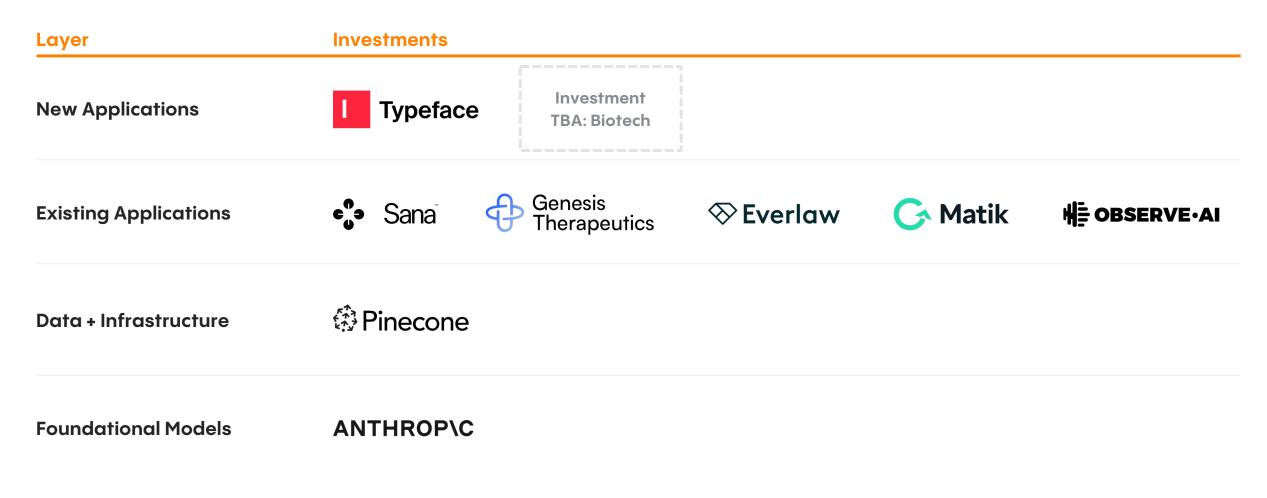
### Infrastructure vs. App

In each wave, a few core infrastructure platform companies are formed early and become massive, with application and ecosystem companies growing over a decade-plus

	Internet		Mo	Mobile		SaaS	
	amazon	\$1.1T	É	(\$2.6T)	servicenow	( <b>\$90B</b> )	
Platform	Google	\$1.3T			sales force	( <b>\$191B</b> )	
	facebook	\$530B			workday.	(\$47B)	
	<b>₽</b> POSHMARK	\$1.2B	chime	(\$25B)	DocuSign	( <b>\$10B</b> )	
App/ Ecosystem	*Rover	\$800M	Siri	(Undisclosed)	zoom	( <b>\$19B</b> )	
	Rоки	\$8B	Uber	(\$60B)	okta	( <b>\$11B</b> )	

## Menlo's Generative Al Strategy: Investments to Date

Bet big to capture early platform/infrastructure winners which deliver outsized value. Selective at the app layer with focus on founder quality/early vision and drive existing portfolio in critical areas



# Menlo's Horizontal Generative Al Strategy

Investing at the layers where value will accrue

Layer	Definition	Menlo's Strategy
Applications	End-user apps that leverage generative AI to create content or solve specific problems, such as generating marketing content or providing chatbots on websites	<b>High focus:</b> Invest in top-tier talent who will be able to out- execute a competitive ecosystem, as well as in vertical-specific use cases
Middleware	Developer tooling that provides an easier interface for developers to build and deploy generative AI applications	<b>Low focus:</b> While tools at the middleware layer may attract casual developers, we are less confident they will apply to the enterprise
Data + Infrastructure	"Picks and shovels": tools for productionizing LLM apps such as databases, compute, and observability platforms	<b>High focus:</b> Invest in companies providing mission-critical use cases for LLM development; continue to create our own LLM apps to understand core use cases
Foundational Models	Core models that underpin generative AI applications, pre-trained on large data sets; may be fine-tuned or customized for specific use cases	<b>Medium focus:</b> Lots of value will accrue at this layer—huge TAM, though in the future, may be divided among a few competitive large players. Important to have 1-2 investments at this layer

# Menlo's Vertical Generative Al Strategy

Generative AI applications will proliferate in a multitude of industry verticals, that are generally well-insulated from incumbents

Vertical	Opportunities	Rationale
Healthcare + Digital Health	eleos "INFINITUS BigHat BIOSCIENCES	Healthcare data and integrations are very sensitive, structured, and specifically integrated. In biological applications, LLMs will provide leverage on drug discovery
Legal	Harvey. DARROW arteria® casetext <b>trellis</b>	Legal is very well suited to Generative AI, and explosion of specific data will lead to interesting use cases
Finance	் arena / Feather பремвь Ttruewind ΜΙΝΣΑΥΑΙΔΙ	Parsing of documents, sentiment, and more will be empowered by LLMs

# And Opportunities to Leverage Ingredient Technologies

Every company will be an GenAl company

Company	Application
Sana Sana	Al-powered learning systems helps companies share knowledge, learn fast, and automate administration (10x less content writing and maintenance)
∰ OBSERVE∙AI	Call center agents are directly in the cross-hairs of LLMs, Observe can leverage proprietary systems to seamlessly blend LLMs with agents and maintain quality
<b>⊗</b> Everlaw	LLMs will help find and isolate relevant content in eDiscovery
<b>Matik</b>	Auto-generation of relevant content and numbers for company presentations



### Summary

- In prior tech waves, the emergence of innovation spawned mass market technologies within 3-6 years as platforms were created early
- These generational companies rode through the hype cycle, but were often followed by false positives
- Platform companies create disproportionate market cap early, but ecosystem businesses create value over decades
- Our generative AI strategy seeks to boldly identify platform companies early, and then steadily invest at the app layer over the foreseeable future with a focus on founder quality and vision
- Our investment thesis should give more consideration to incumbents such as Microsoft and OpenAI which are likely to be powerful forces moving forward
- We should push our companies on GenAl, ensuring that it is being taken seriously
- Immerse yourself in the technology, you never know what ChatGPT can do!