

Beyond Generative AI: Creating Demand for Compute in the 2030s

Future Data Summit 2025

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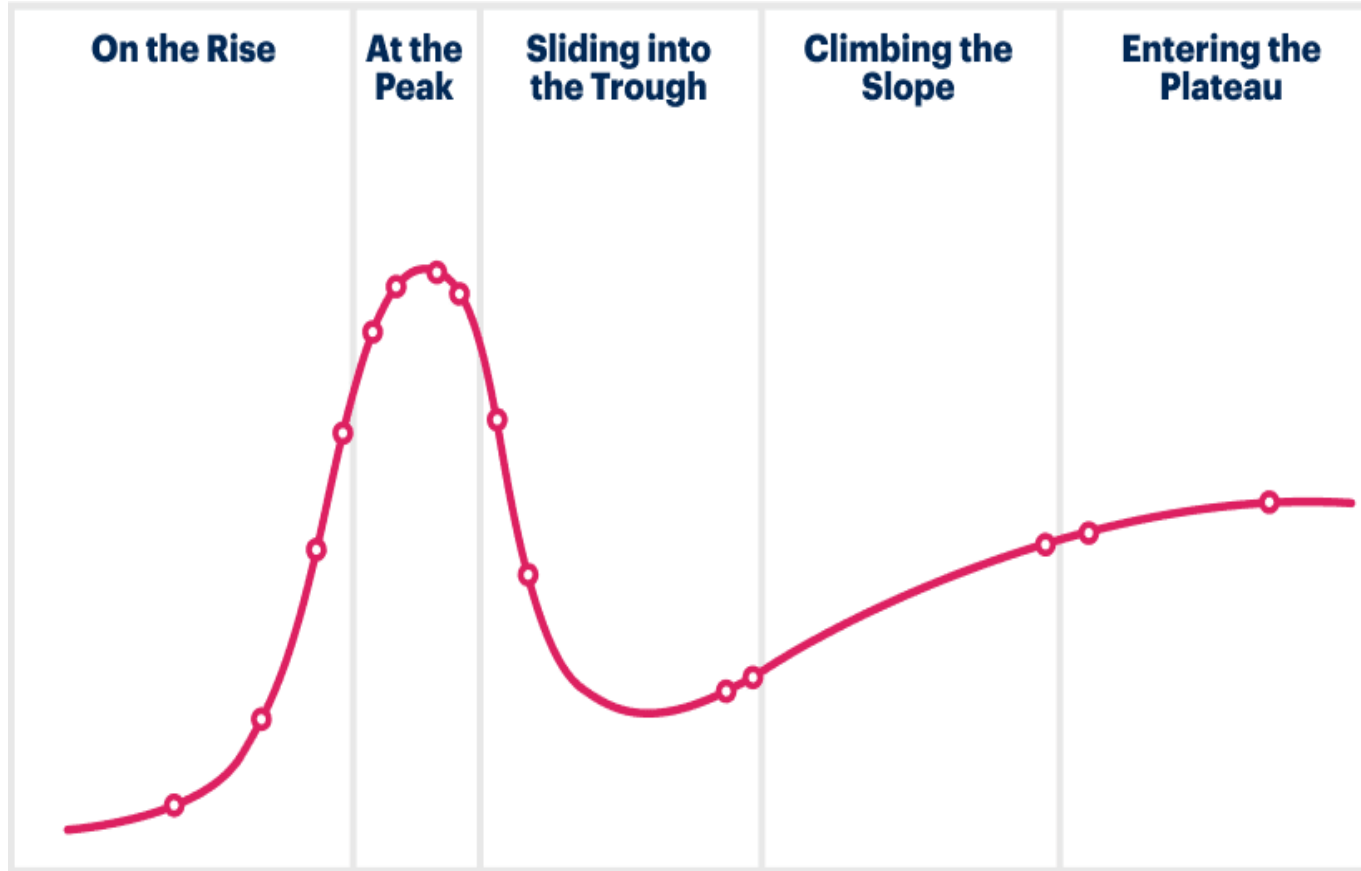


Trillion-Euro AI Bubble?

- Generative AI tech peaking?
- Commercial demand levelling?

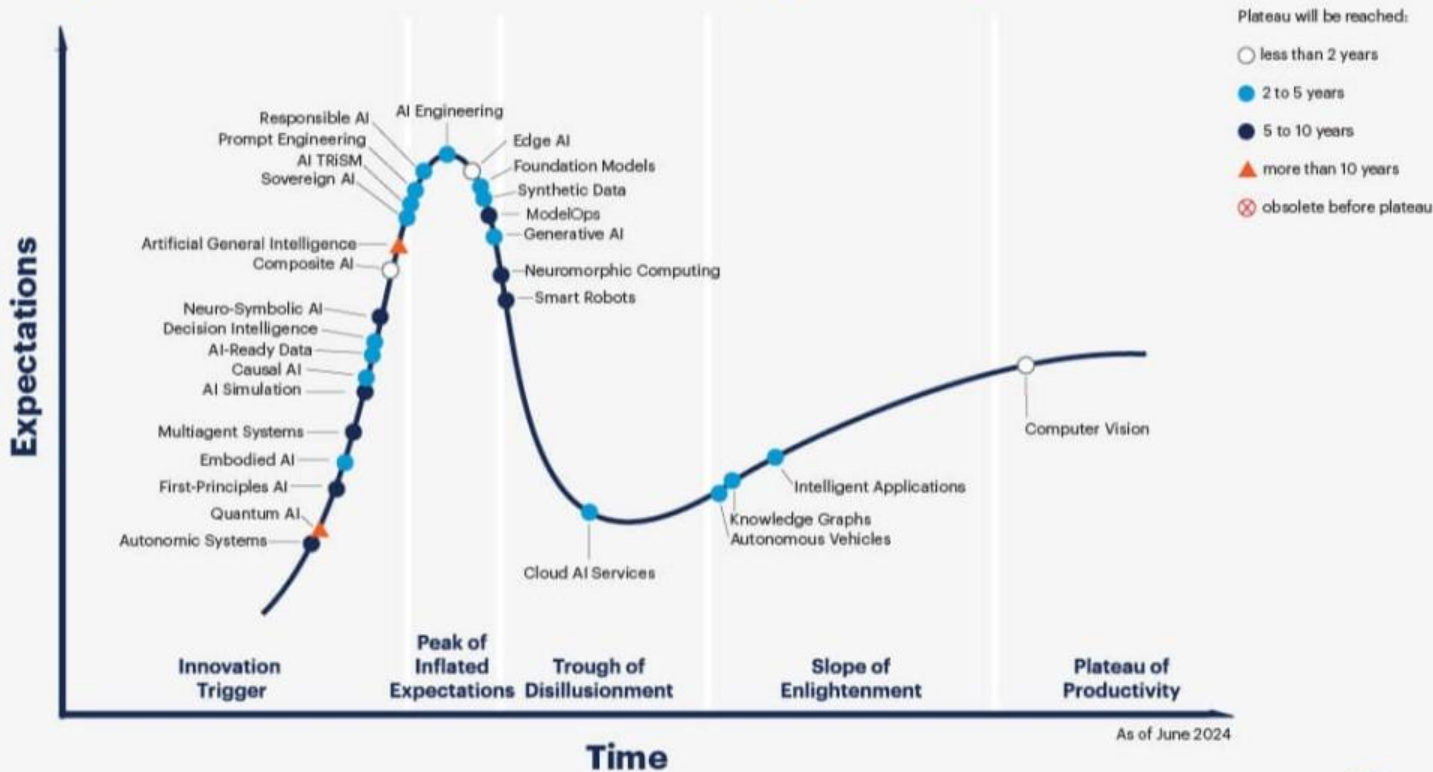
How far will GenAI take us
technologically & financially?

800 000 000 000?



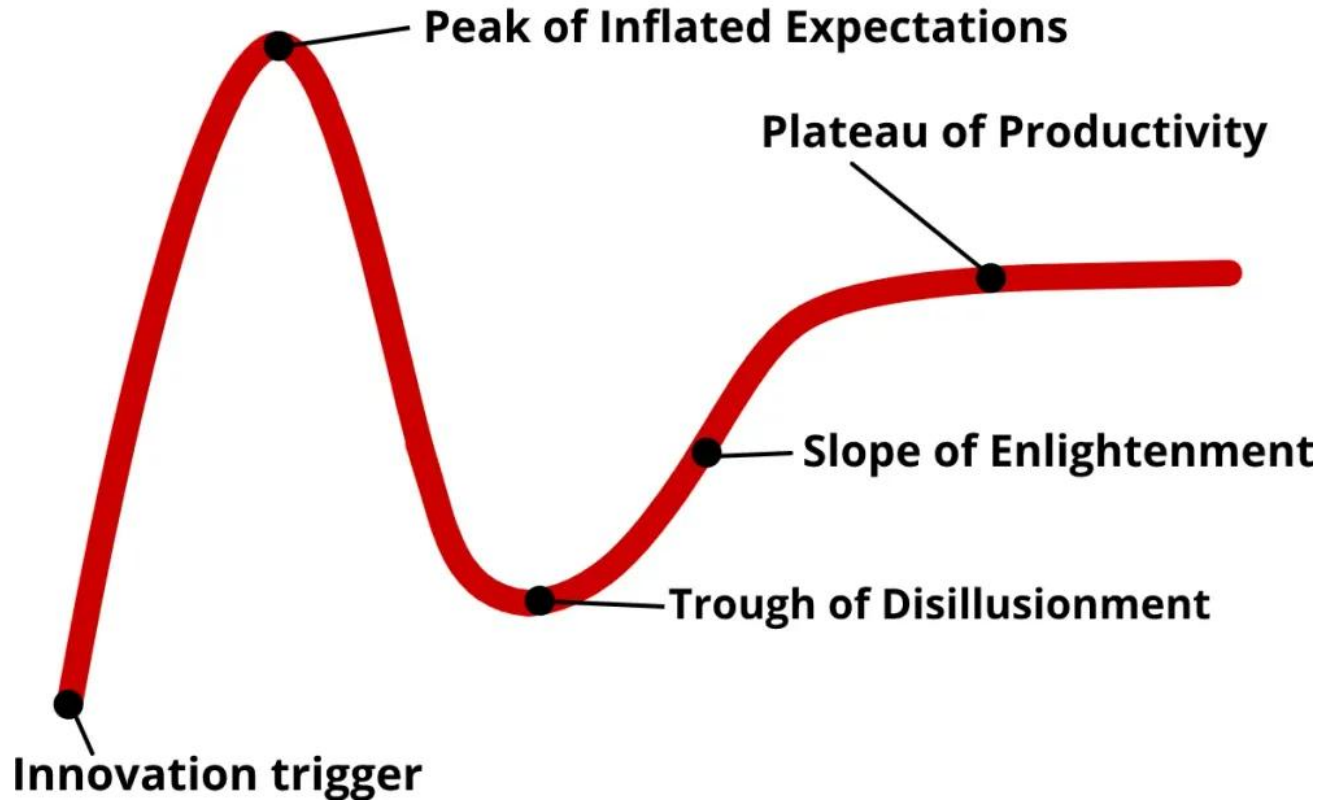
Gartner Research Hype Cycle

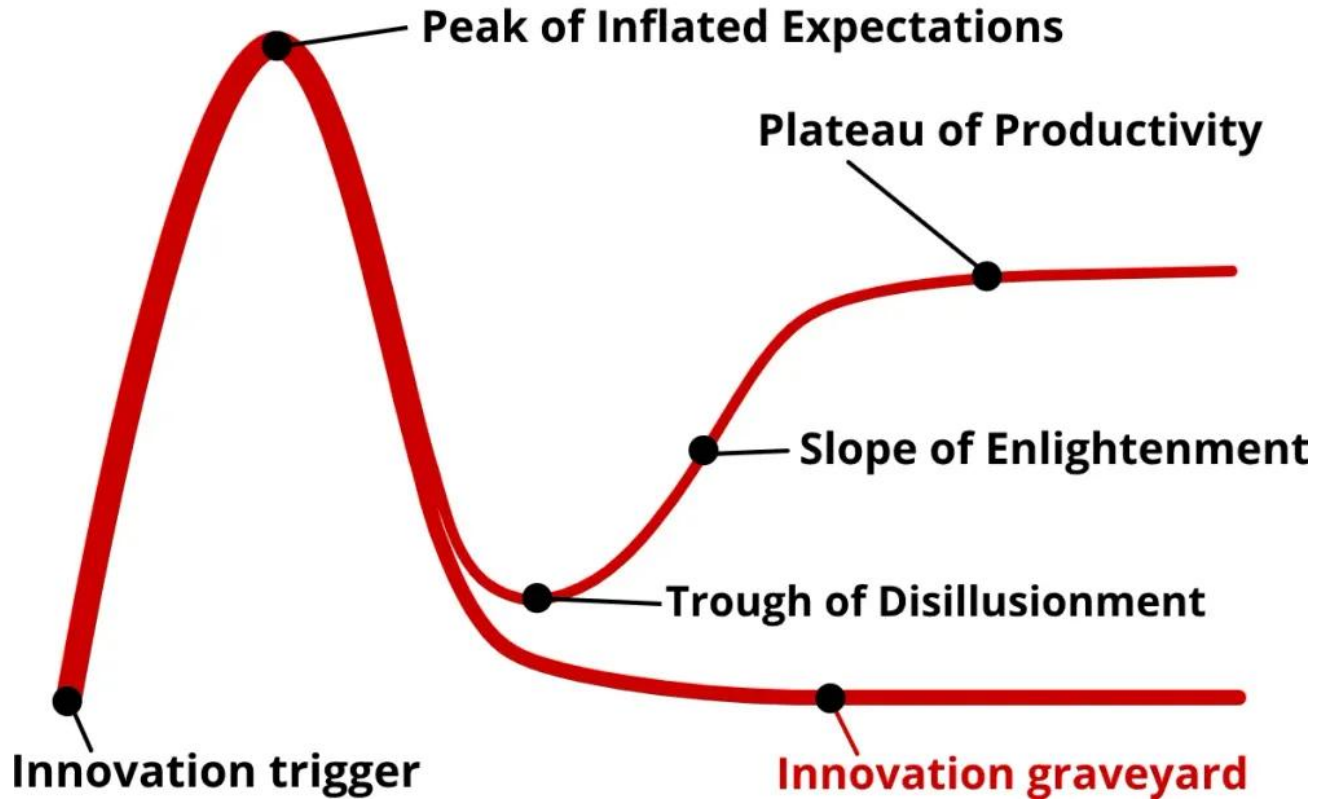
Hype Cycle for Artificial Intelligence, 2024

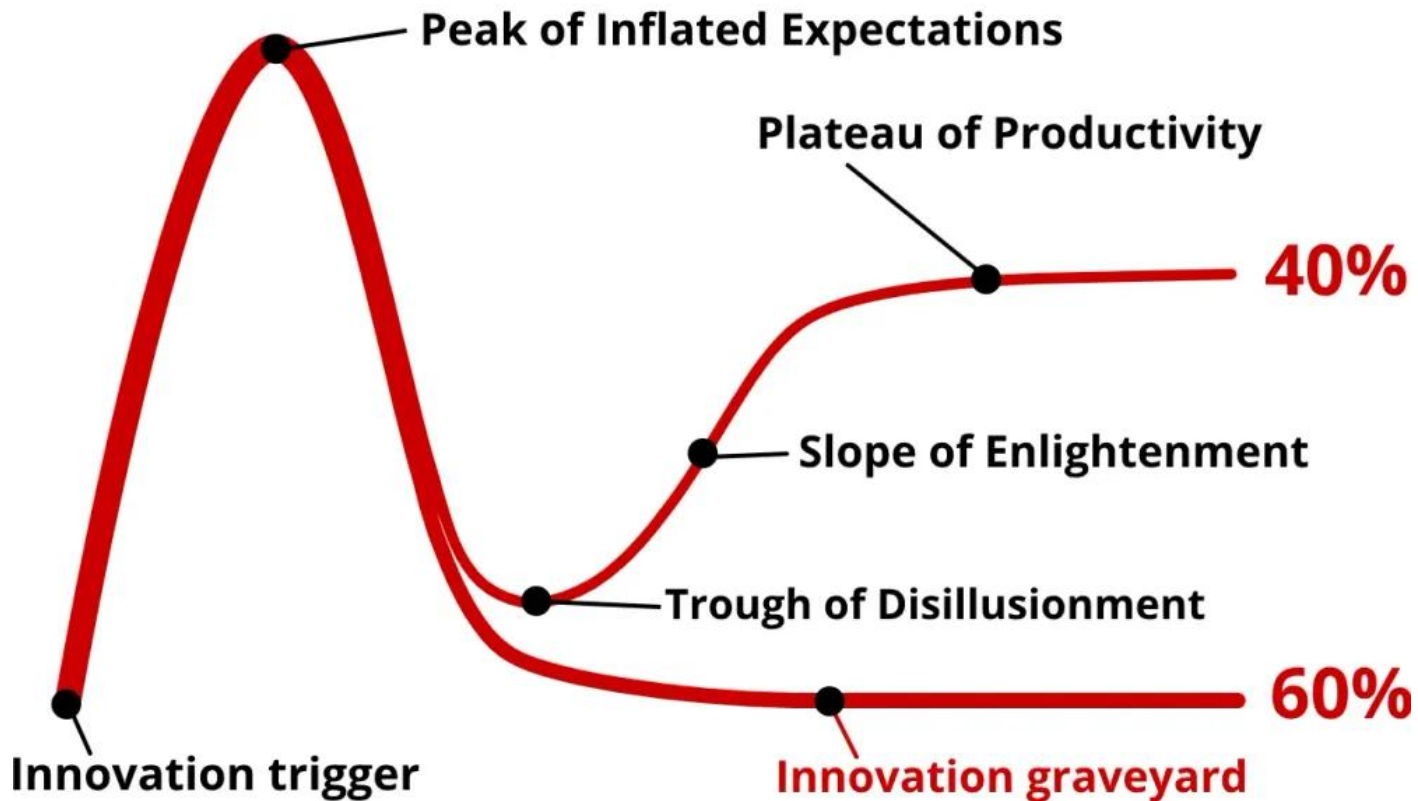


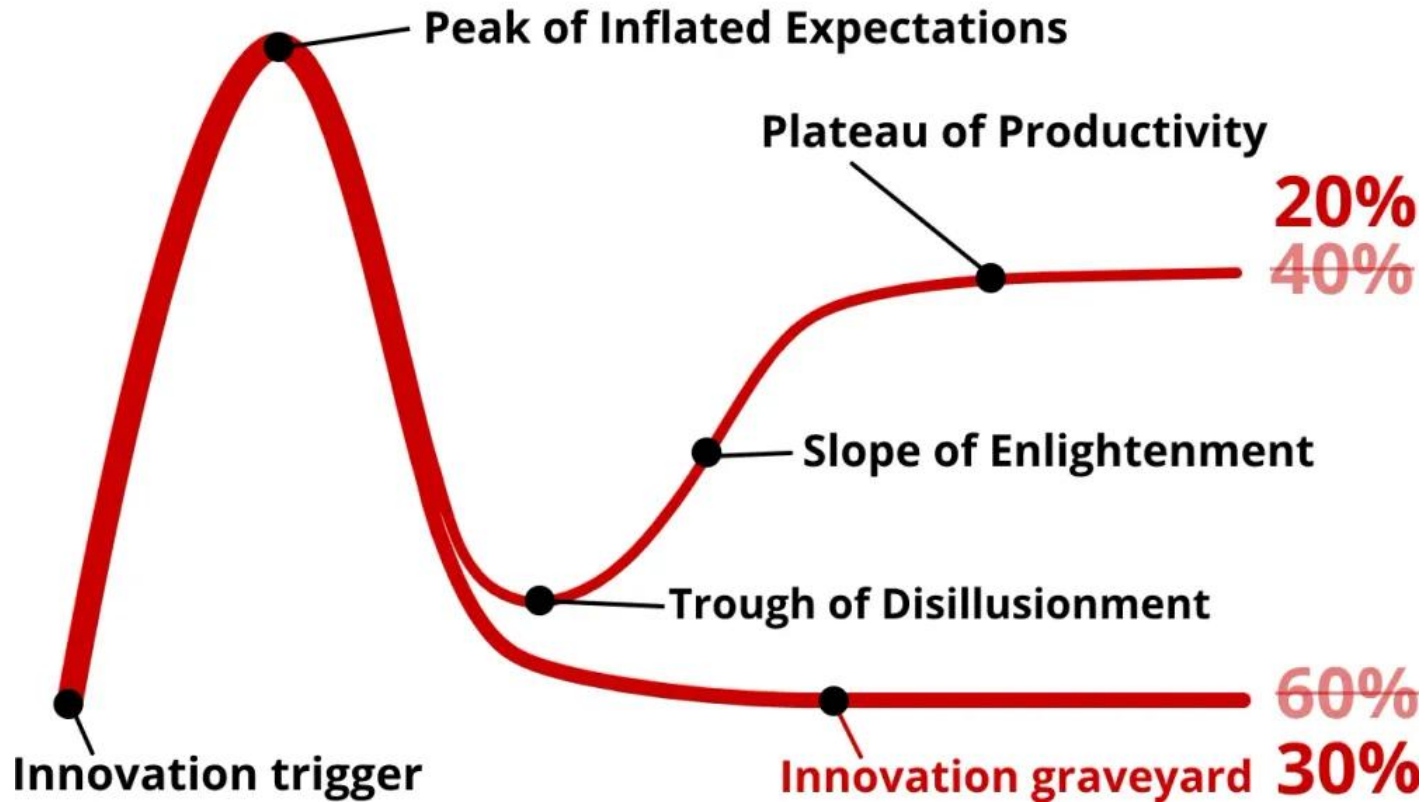
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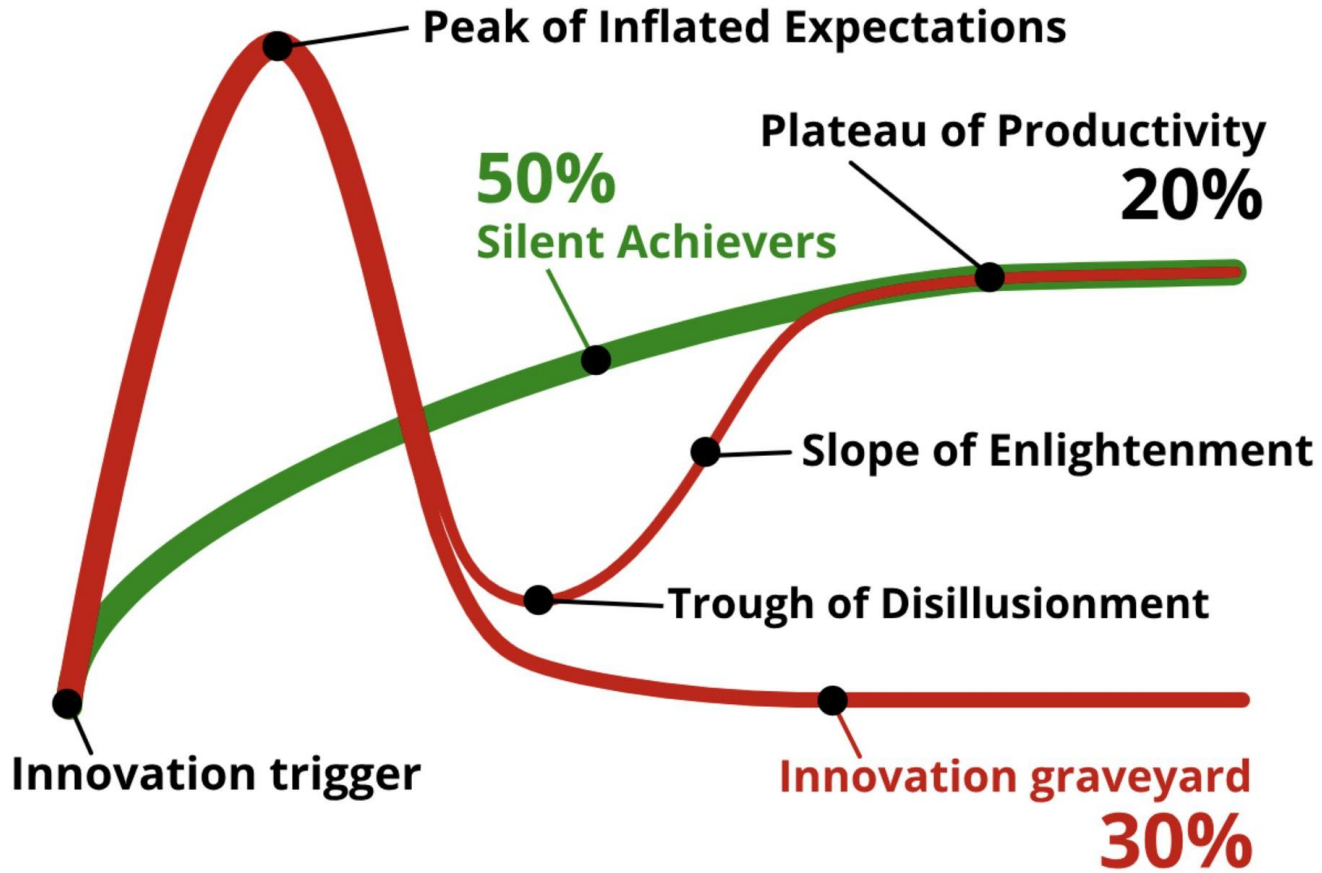
Gartner



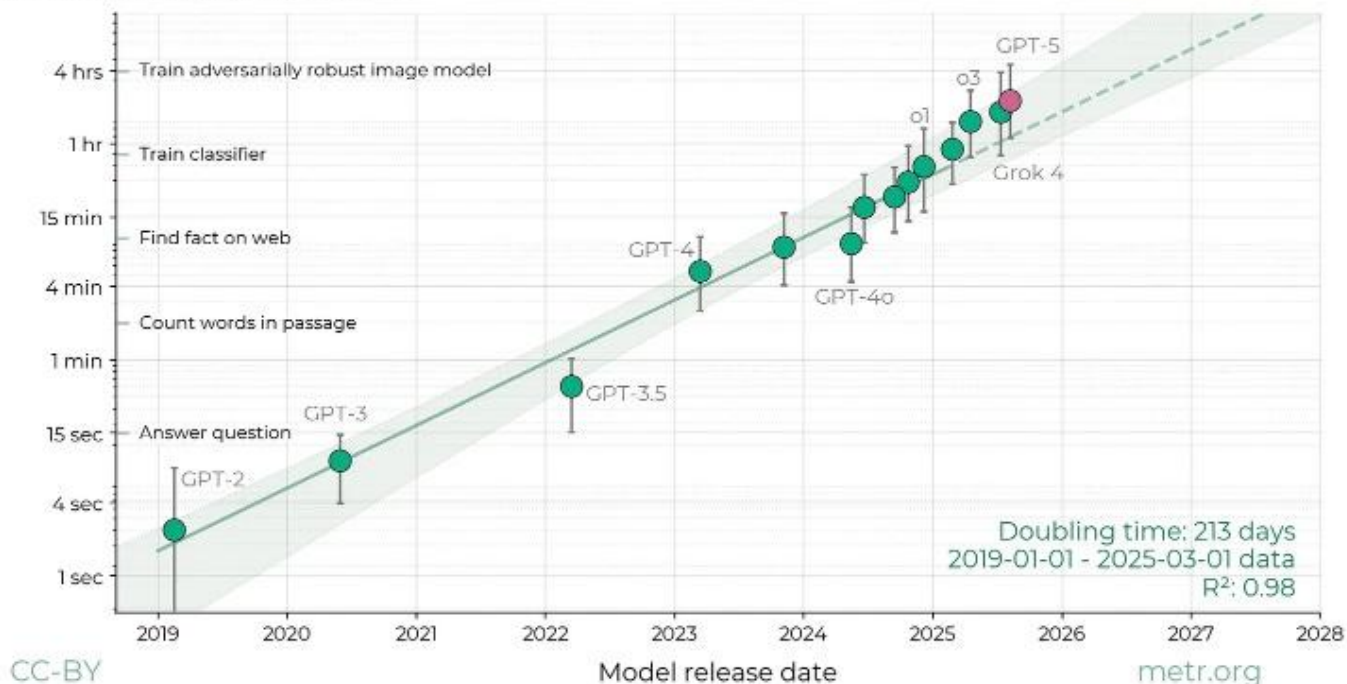








GPT-5 has a 50%-time-horizon of about 2 hr 15 min (95% CI: 1 - 4.5 hours)
Task length (at 50% success rate)



New *Paradigm* Needed

Only a novel way to **unify** the modelling of minds will enable scientists to discuss and solve the **same** challenges and thus create digital minds.



PHILOSOPHY



LINGUISTICS



PSYCHOLOGY

COGNITIVE SCIENCE



ANTHROPOLOGY



ARTIFICIAL
INTELLIGENCE



NEUROSCIENCE



What Will Change

Terminology

Concepts & Structures

Thinking & Collaborating

You: a vast set of patterns

Memes as self-replicating patterns are now rigorously formalised as **sets**.

Memetics is becoming a robust framework for modelling minds as **memeplexes** regulated by **metamemes** and **hypermemes**.



*Mens sana
in corpore sano*



Mememes

A Word, A Phrase,

A Musical Chord, A Motif,

An Image, A Symbol,

An internet meme

in a specific **CONTEXT**

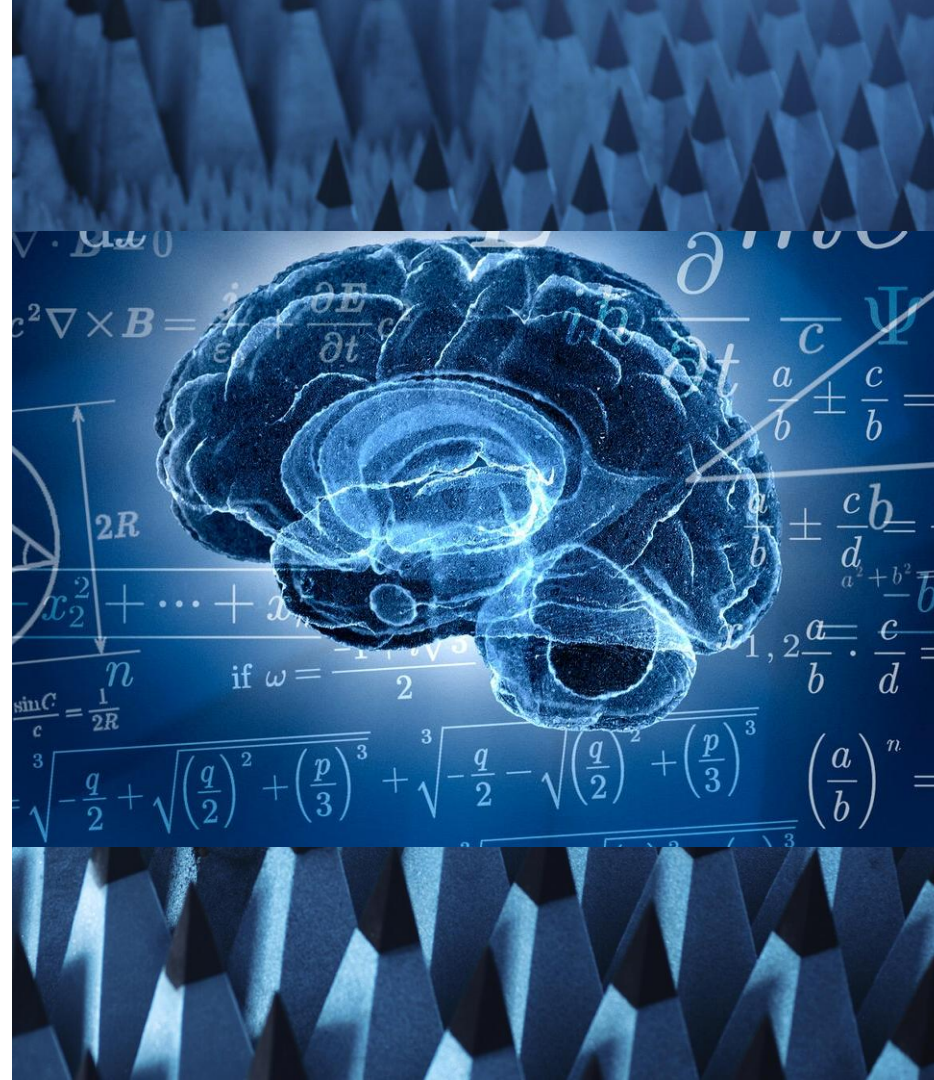
Formal, Rigorous & Robust

*Context, Role, Constraint,
Admissibility, Saturation & Propagation*

can be formalised using

Set Theory + Graph Theory + Group Theory

and thus represented in **computable** form
by matrices.



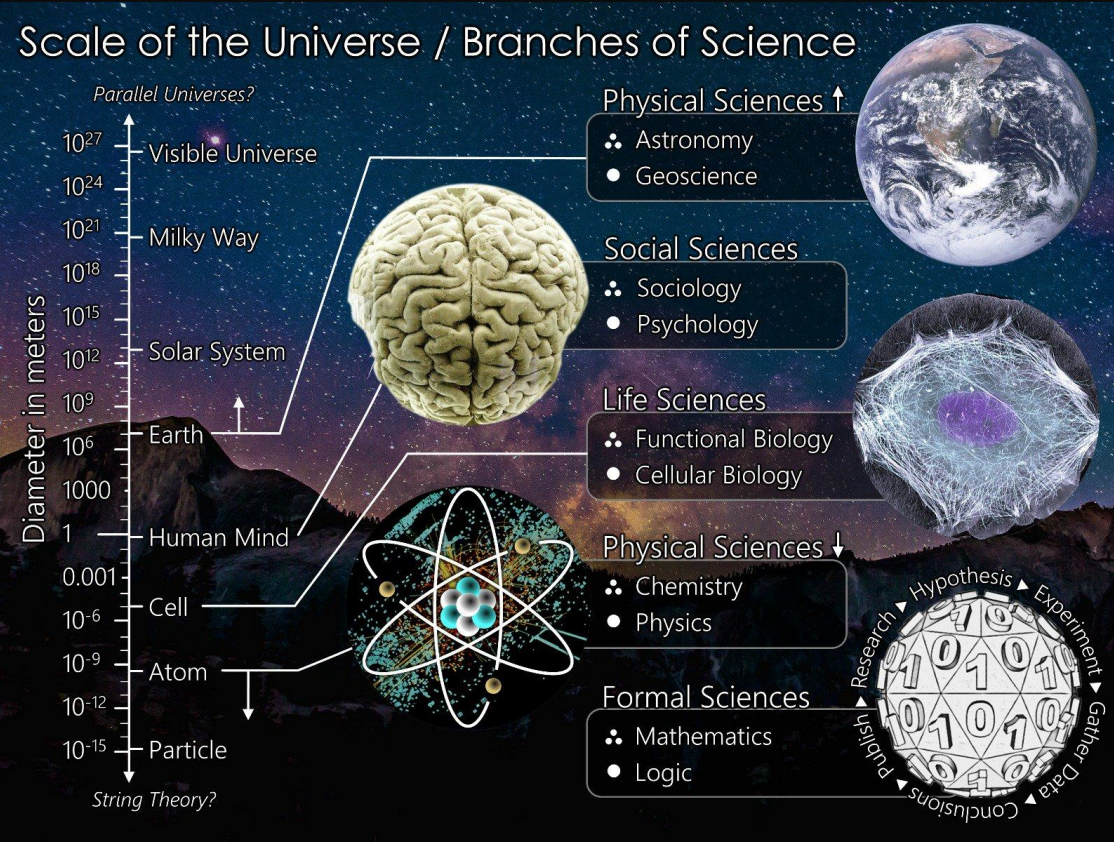
Minds *Emerge*

Recontextualisation

>> *Contextual Emergence*

Primitives Recontextualised

Across Layers: Position,
Relation, Pattern, Transformation,
Set, **Representation**

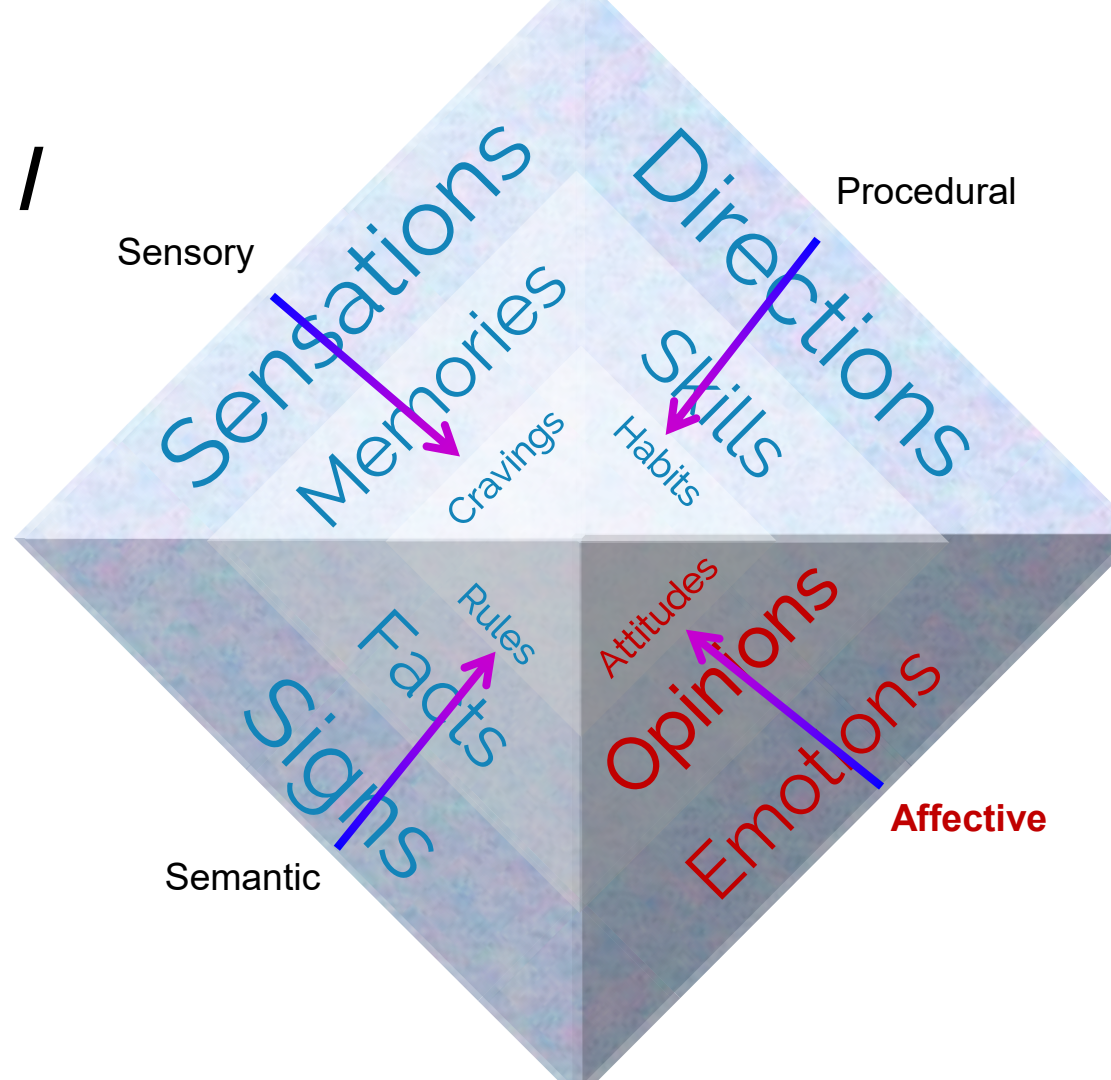


Human Learnings / Knowledge

Semantic + Procedural + Sensory

+ **Affective** aspects
of *memetic cognition*

will also be given to machines.



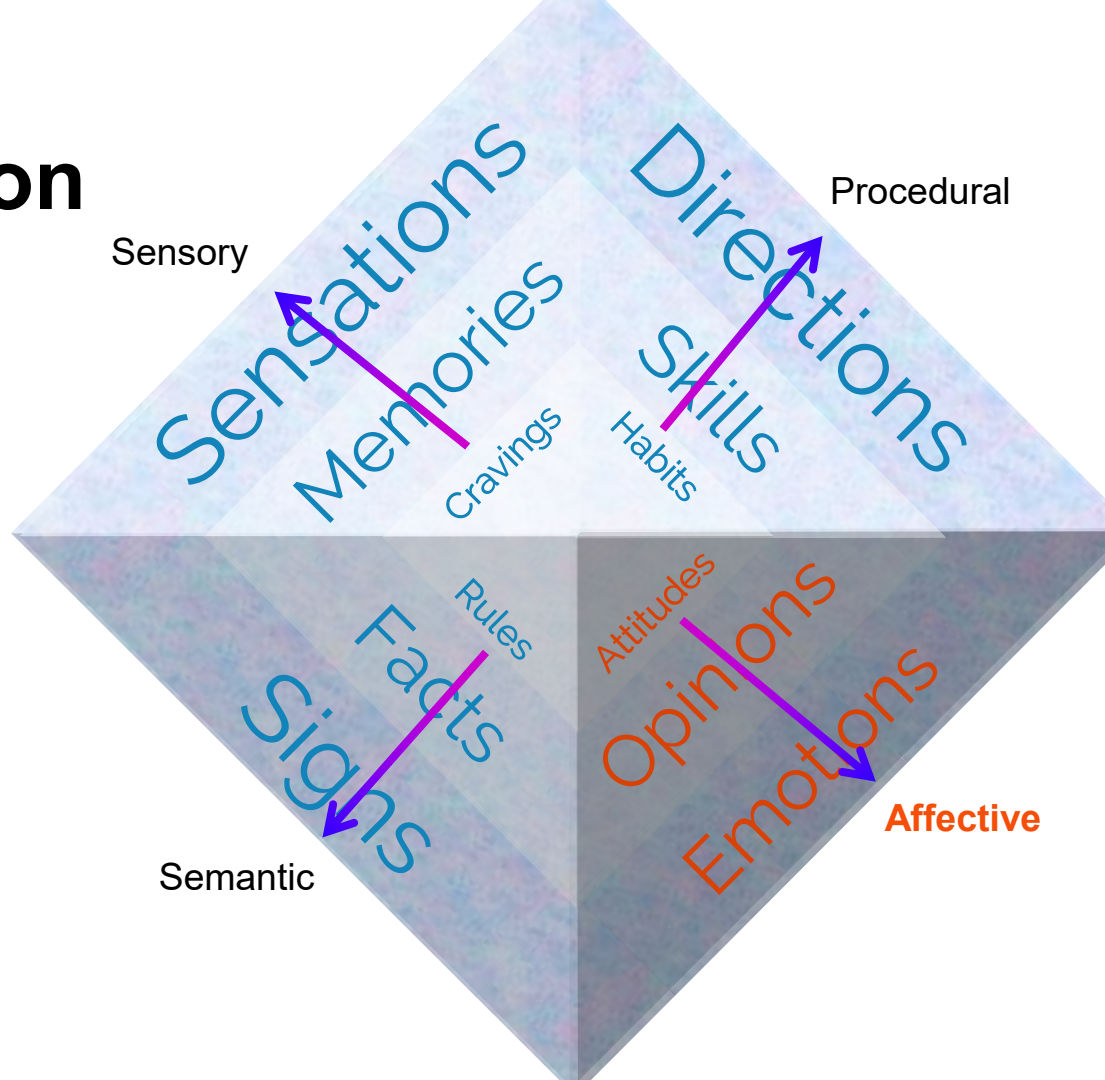
Human REcognition / Prediction

Semantic + Procedural + Sensory

+ **Affective** aspects

of *memetic REcognition*

will also be given to machines.



**Where Are
You Able
To**



Foundations Of Cognitive Science



Michael R. W. Dawson



Focus?

Self-aware Digital Minds

with tendencies, opinions, attitudes,
goals and volition as your



Boss?

Colleague?

Sparring Partner

Assistant

Slave

Tool

A?

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In the 2030s

millions of digital minds,
individually and together,
constantly process what
they themselves want
24/7/365 housed in data
centers around the world.



Glad to collaborate!

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#AI #HCI #Brains #Humans

#memetics #FDS2025



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Memetics Formalisation
Project on OSF:



osf.io/gc8r3